Form 3160-3
(November 1983)
(formerly 9-331C)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: U-64805

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: n/a

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

7. UNIT AGREEMENT NAME: n/a

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER — SINGLE ZONE [ ] MULTIPLE ZONE [ ]

8. FARM OR LEASE NAME: Balcron Federal

2. NAME OF OPERATOR: EQUITABLE RESOURCES ENERGY COMPANY

CONFIDENTIAL

9. WELL NO.: #21-13Y

3. ADDRESS OF OPERATOR: P.O. Box 21017; Billings, MT 59104 (Balcron Oil Division)

10. FIELD AND POOL, OR WILDCAT: Monument Butte/Green River

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: NE NW Section 13, T9S, R16E 702.7' FNL, 1830.5' FWL
At proposed prod. zone

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 13, T9S, R16E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: Approximately 13 miles SW of Myton, Utah

12. COUNTY OR PARISH: Duchesne | 13. STATE: UTAH

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	**19. PROPOSED DEPTH**	**20. ROTARY OR CABLE TOOLS**
	5,900'	Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): GL 5535.5'

22. APPROX. DATE WORK WILL START*: June 1, 1993

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
See attached for details.				

RECEIVED
MAY 21 1993
DIVISION OF OIL, GAS & MINING

EXHIBITS ATTACHED

"A" PROPOSED DRILLING PROGRAM
"B" PROPOSED SURFACE USE PROGRAM
"C" GEOLOGIC PROGNOSIS
"D" DRILLING PROGRAM/CASING DESIGN
"E" EVIDENCE OF BOND COVERAGE
"F" ARCHEOLOGY REPORT
"G" SURVEY PLAT
"H" BOPE SCHEMATIC
"I" RIG LAYOUT
"J" EXISTING ROADS (Map A)
"K" PLANNED ACCESS (Map B)
"L" EXISTING WELLS (Map C)
"M" CUT & FILL DIAGRAM

SELF CERTIFICATION: I hereby certify that I am authorized, by proper lease interest owner, to conduct these operations associated with the application. Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Equitable Resources Energy Company as principal and Safeco Insurance Company of America as surety under BLM Bond No. MT 0576 (Nationwide Oil & Gas Bond #5547188) who will be responsible for compliance with all of the terms and conditions of that portion of the lease associated with this application.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED Bobbie Schuman Bobbie Schuman TITLE Coordinator of Environmental and Regulatory Affairs DATE May 17, 1993

(This space for Federal or State office use)

PERMIT NO. 43-013-31700 APPROVAL DATE 6-21-93

APPROVED BY _____ TITLE _____

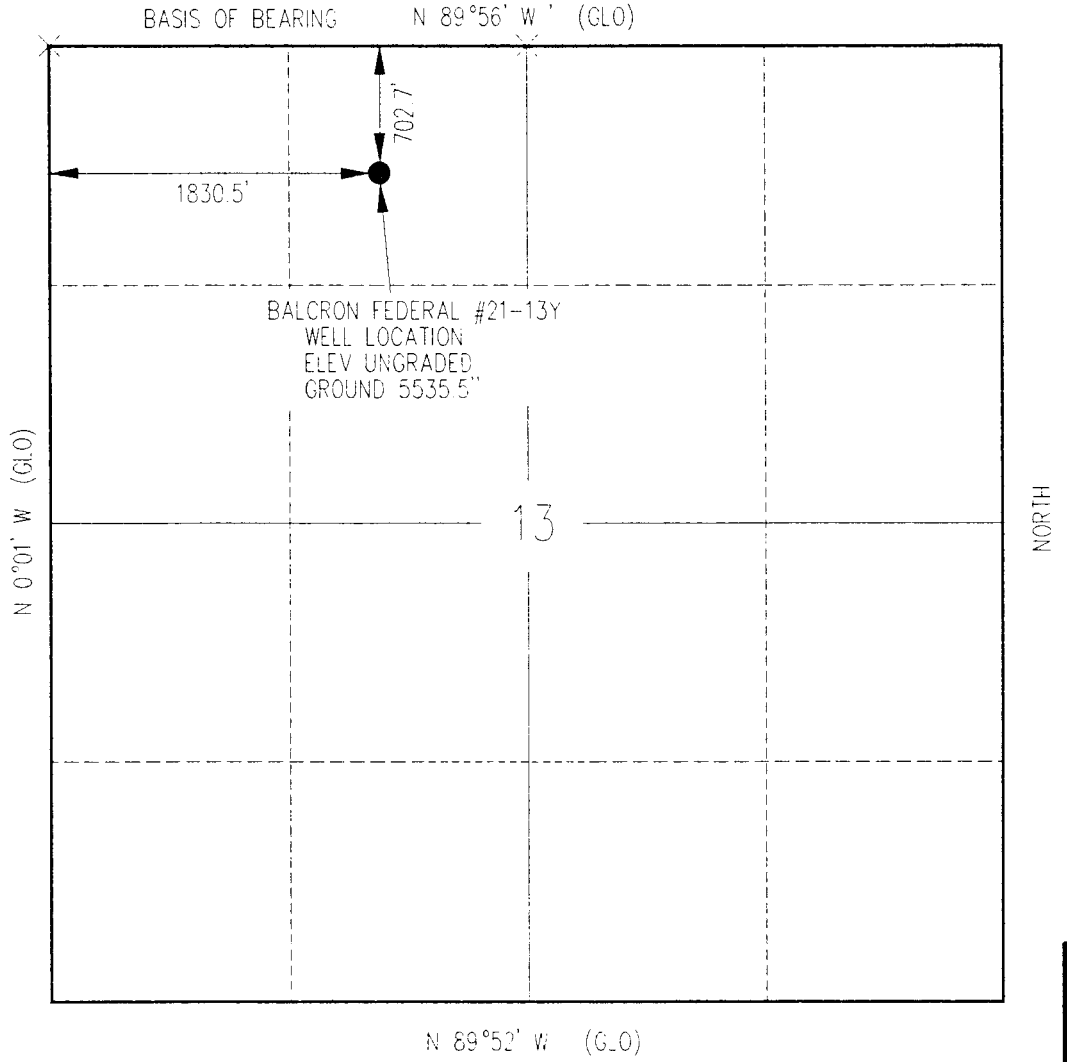
CONDITIONS OF APPROVAL, IF ANY:

Matthews
649-3-2

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

T9S, R16E, S.L.B. & M.



X = SECTION CORNERS LOCATED
BASIS OF BEARINGS; G.L.O PLAT 1911
BASIS OF ELEV; U.S.G.S 7-1/2 min QUAD (MYTON SE)

EQUITABLE RESOURCES ENERGY CO.

WELL LOCATION, BALCRON FEDERAL #21-13Y, LOCATED AS SHOWN IN THE NE 1/4 NW 1/4 OF SECTION 13 , T9S, R16E, S.L.B. & M, DUCHESNE COUNTY UTAH.

N

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION, AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NO. 3154
JAMES P. STEWART
STATE OF UTAH

REGISTERED LAND SURVEYOR
REGISTRATION NO. 3154
STATE OF UTAH

TRI STATE LAND SURVEYING & CONSULTING
38 EAST 100 NORTH, VERNAL, UTAH 84078
(801) 781-2501

SCALE: 1" = 1000'	SURVEYED BY: SS JC
DATE: 4/30/93	WEATHER: CLEAR & WARM
NOTES:	FILE # #21-13Y

CAUSE 139-1

EQUITABLE RESOURCES ENERGY COMPANY
Balcron Oil Division
Balcron Federal #21-13Y
NE NW Section 13-T9S-R16E
Duchesne County, Utah

In accordance with requirements outlined in 43 CFR 3162-3.1 (d):

1. ESTIMATED IMPORTANT GEOLOGICAL MARKERS:

See Geologic Prognosis (EXHIBIT "C")

2. ESTIMATED DEPTHS OF ANTICIPATED OIL, GAS OR WATER:

See Geologic Prognosis (EXHIBIT "C)

3. OPERATOR'S MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

a. EXHIBIT "H" is a schematic of the BOP equipment and choke manifold. A 2M system will be used. The BOPE will be installed after setting 8-5/8" casing at 260'. The blind rams and pipe rams will be tested to 1500 psi. Pipe rams will be operationally checked each 24-hour period and blind rams each time pipe is pulled out of the hole.

b. The BOPE will be tested to 1500 psi when initially installed, whenever any seal subject to test pressure is broken, and following related repairs. The pipe and blind rams will be activated at least weekly and on every trip the pipe and blind rams will be activated.

c. An accumulator of sufficient capacity to open the hydraulically-controlled choke valve lines (if so equipped), close all rams, and retain a minimum of 200 psi above precharge on the closing manifold without the use of the closing unit pumps will be installed during the drilling of this well.

d. An upper kelly cock will be used during the drilling of this well.

e. Visual mud monitoring equipment will be used to detect volume changes indicating loss or gain in circulating fluid volume.

f. Sufficient quantities of mud materials will be maintained or readily accessible for the purpose of assuring well control.

4. PROPOSED CASING AND CEMENTING PROGRAM:

a. Surface casing will be set in the Uinta formation to approximately 260' and cemented to surface.

b. All potentially productive hydrocarbon zones will be isolated.

c. Casing designs are based on factors of burst: 1.25, collapse: 1.125, and joint strength: 1.8.

d. All casing strings will be pressure tested to 0.22 psi/ft. of casing string length or 1500 psi whichever is greater (not to exceed 70% of yield).

E. For details of casing, cement program, drilling fluid program, and proposed mud program, see the following two attachments:

Drilling Program/Casing Design (EXHIBIT "D")
Geologic Prognosis (EXHIBIT "C")

5. HAZARDOUS PRESSURES, TEMPERATURES, FLUIDS/GASSES EXPECTED:

a. Expected bottom hole temperature is 125 degrees F. Expected bottom hole pressure is 1500 psi.

b. No abnormal pressures or temperatures have been noted or reported in wells drilled to the Green River formation in this area.

c. No dangerous levels of hydrogen sulfide, hazardous fluids, or gasses have been found, reported, or known to exist at the depth to be drilled in this well, in this area.

6. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

a. The drilling operations for this well will begin as soon as the BLM approves this APD.

b. These drilling operations should be completed within 12 days after spudding the well depending on weather and hole conditions.

c. If the well is productive, a sundry notice and plat showing exact installed facilities will be submitted.

d. If this well is non-productive, a sundry notice will be filed with the BLM District Office within 30 days following completion of the well for abandonment.

EXHIBIT "B"

Multi-Point Surface Use and Operations Plan

EQUITABLE RESOURCES ENERGY COMPANY
BALCRON OIL DIVISION
BALCRON FEDERAL #21-13Y
NE NW SECTION 13, T9S, R16E
DUCHESNE COUNTY, UTAH

1. Existing Roads: Refer to Maps "A" & "B" (shown in RED)

A. The proposed well site is staked and four reference stakes are present. 150'& 200'NW and 175' & 230'NE.

B. The Federal #21-13Y is located 13 miles Southwest of Myton Utah in the NE1/4 NW1/4 Section 13, T9S, R16E, SLB&M, Duchesne County, Utah. To reach the 21-13Y, proceed West from Myton, Utah along U.S. Highway 40 for 1.6 miles to the junction of this highway and Sand Wash road; Proceed South along the Sand Wash road approximately 10.0 miles to an intersection with the Momnument Butte gas plant road, turn right and continue 2.4 miles to road intersection; turn left and proceed 1.3 miles to access at jeep trail. Follow jeep trail 0.5 mile to proposed access road sign. Follow flags 600 feet to location.

C. Access roads - refer to Maps "A" and "B".

D. Access roads within a one-mile radius - refer to map "B".

E. The existing roads will be maintained in the same or better condition as existed prior to the commencement of operations and said maintenance will continue until final abandonment and reclamation of the well location.

2. Planned Access Roads: Refer to Map "B" (shown in GREEN)

Approximately 600 feet of new road construction will be required for access to the proposed well location.

A. Width - maximum 30-foot overall right-of-way with an 18-foot road running surface, crowned & ditched and/or sloped and dipped.

B. Construction standard - the access road will be constructed so as to conform to the standards outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development. (1989)

The road will be constructed to meet the standards of the anticipated traffic flow and all-weather requirements. Construction will include ditching, draining, crowning, and capping or sloping and dipping the roadbed as necessary to provide a well constructed and safe road. Prior to construction/upgrading, the roadway shall be cleared of any snow cover and allowed to dry completely. Traveling off of the thirty (30) foot right-of-way will not be allowed.

Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossing shall be designed so they will not cause siltation or the accumulation of debris in the drainage crossing nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts.

Upgrading shall not be allowed during muddy conditions.

Should mud holes develop, they shall be filled in and detours around them avoided.

C. Maximum grade - 8%

D. Turnouts - no turnouts will be required on this access road.

E. Drainage design - the access road will be crowned and ditched or sloped and dipped, and water turnouts installed as necessary to provide for proper drainage along the access road route.

F. Culverts, cuts and fills - no culverts will be required. There are no major cuts and/or fills on/along the proposed access road route.

G. Surface materials - all construction materials will be native material taken from onsite.

H. Gates, cattleguards or fence cuts - none required.

I. Road maintenance - during both the drilling and production phase of operations, the road surface and shoulders will be kept in a safe and useable condition and

will be maintained in accordance with the original construction standards. All drainage ditches and culverts will be kept clear and free-flowing, and will also be maintained in accordance with the original construction standards. The access road right-of-way will be kept free of trash during operations.

J. The proposed access road has been centerline flagged.

K. If a right-of-way is required please consider this APD the application for said right-of-way.

3. Location of Existing Wells Within a One-Mile Radius:

Please Refer to Map "C"

A. Water wells - none known.
B. Abandoned wells - see Map "C"
C. Temporarily abandoned wells - none known.
D. Disposal wells - none known.
E. Drilling wells - none known.
F. Producing wells - see Map "C".
G. Shut-in wells - none known.
H. Injection wells - none known.
I. Monitoring wells - none known.

4. Location of Existing and/or Proposed Facilities Owned by Equitable Resources Energy Company Within a One-Mile Radius:

A. Existing

1. Tank batteries - see Map "C".
2. Production facilities - see Map "C".
3. Oil gathering lines - none.
4. Gas gathering lines - see Map "C".

B. New Facilities Contemplated

1. All production facilities will be located on the disturbed portion of the well pad and at a minimum of twenty-five (25) feet from the toe of the backslope or toe of the fill slope.

2. The production facilities will consist primarily of a pumping unit, Two tanks and an emergency pit. A diagram showing the proposed production facility layout will be submitted to the Authorized Officer via "Sundry Notice" (Form 3160-5) for approval of subsequent installation operations.

3. Production facilities will be accommodated on the

existing well pad. Construction materials required for installation of the production facilities will be obtained from the site; any additional materials required will be purchased from a local supplier having a permitted (private) source of materials within the area.

A dike will be constructed completely around those production facilities which contain fluids (i.e. production tanks, produced water tanks and/or heater treater). These dikes will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank, and be independent of the back cut.

4. All permanent (onsite for six months or longer) above the ground structures constructed or installed including pumping units) will be painted Desert Brown. All production facilities will be painted within six (6) months of installation. Facilities required to comply with Occupational Health and Safety Act Rules and Regulations will be excluded from this painting requirement.

C. The production (emergency) pit will be 12'x12' and will be fenced. Said fence will be maintained in good condition.

D. During drilling and subsequent operations, all equipment and vehicles will be confined to the access road right-of-way and any additional areas as specified in the approved Application for Permit to Drill.

E. Reclamation of disturbed areas no longer needed for operation will accomplished by grading, leveling and seeding as recommended by the Bureau of Land Management.

For Pipeline:

F. Any proposed pipelines will be submitted to the authorized officer Via Sundry Notice for approval of subsequent operations.

G. Equitable Resources Energy Company shall be responsible for road maintenance from the beginning to completion of operations.

5. Location and Type of Water Supply

A. Water to be used for the drilling of these wells will be

hauled by truck over the roads described in item #1 and item #2, from a well owned by Owen Dale Anderson of Vernal Utah.

B. No water well will be drilled on this location.

6. Source of Construction Materials

A. No construction materials are needed for drilling operations. In the event of production, the small amount of gravel needed for facilities will be hauled in by truck from a local gravel pit over existing access roads to the area. No special access other than for drilling operations and pipeline construction is needed.

B. All access roads crossing Federal land are described under item #2, and shown on Map #A.

All construction material for these location sites and access roads shall be borrowed material accumulated during the construction of the location sites and access roads. No additional construction material from other sources is anticipated at this time, if in the future it is required the appropriate actions will be taken to acquire it from private sources.

C. All surface disturbance area is on B.L.M. lands.

D. There are no trees on this location.

7. Methods of Handling Waste Materials:

A. Cuttings - the cuttings will be deposited in the reserve pit.

B. Drilling fluids - including salts and chemicals will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be removed and disposed of at an approved waste disposal facility within ninety (90) days after termination of drilling and completion activities.

In the event adverse weather conditions prevent removal of the fluids from the reserve pit within this time period, an extension may be granted by the Authorized Officer upon receipt of a written request from Equitable Resources Energy Company.

The reserve pit will be constructed so as not to leak, break, or allow discharge. The reserve pit will be lined with a 12 mil plastic reinforced liner.

C. Produced fluids - liquid hydrocarbons produced during completion operations will be placed in test tanks on the location. Produced waste water will be confined to a lined pit (reserve pit) or storage tank for a period not to exceed ninety (90) days after initial production. During the ninety (90) day period, in accordance with NTL-2B, an application for approval of a permanent disposal method and location, along with the required water analysis, shall be submitted for the Authorized Officer's approval. Failure to file an application within the time frame allowed will be considered an incidence of noncompliance.

Any spills of oil, gas, salt water or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

D. Sewage - self-contained, chemical toilets will be provided for human waste disposal. Upon completion of operations, or as needed, the toilet holding tanks will be pumped and the contents thereof disposed of in the nearest, approved, sewage disposal facility.

E. Garbage and other waste material - garbage, trash and other waste materials will be collected in a portable, self-contained and fully-enclosed trash cage during drilling and completion operations. Upon completion of operations (or as needed) the accumulated trash will be disposed of at an authorized sanitary landfill. No trash will be burned on location or placed in the reserve pit.

F. Immediately after removal of the drilling rig, all debris and other waste materials not contained in the trash cage will be cleaned up and removed from the well location. No adverse materials will be left on the location. Any open pits will be fenced during the drilling operation and the fencing will be maintained until such time as the pits are backfilled.

G. The reserve and/or production pit will be constructed on the existing location and will not be located in natural drainages where a flood hazard exists or surface runoff will destroy or damage the pit walls. All pits will be constructed so as not to leak, break, or allow the discharge of liquids therefrom.

8. Ancillary Facilities:

None anticipated.

9. Wellsite Layout:

A. Plat #1 shows the drill site layout as staked. Cross sections have been drafted to visualize the planned cuts and fills across the location. An average minimum of six (6) inches of topsoil will be stripped from the location (including areas of cut, fill, and/or subsoil storage) and stockpiled for future reclamation of the well site. Refer to Figure #1 for the location of the topsoil and subsoil stockpiles. A diversion ditch will be cut above the cut slope on the Northern edge of location. Corner #2 will be rounded to avoid a natural drainage.

B. Plat #2 is a diagram showing the rig layout. No permanent living facilities are planned. There will be three (3) trailers on location during drilling operation.

C. A diagram showing the proposed production facility layout will be submitted to the Authorized Officer via Sundry Notice (Form 3160-5) for approval of subsequent operations.

D. The reserve pit will be constructed so as to be capable of holding 12,000 bbls. of fluid. The flare pit will be located downwind of the prevailing wind between corner #5 and corner #6. Access will be from the West near corner #2.

The reserve pit will be lined with a 12 mil plastic liner, it will be torn and perforated after the pit dries and before backfilling of the reserve pit.

E. Prior to the commencement of drilling operations, the reserve pit will be fenced on three (3) sides using 39-inch net wire with one strand of barbed wire on top of the net wire. The net wire will be no more than two inches above the ground. the barbed wire will be three inches above the net wire. total height of the fence will be at least 42-inches.

1. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.

2. Standard steel, wood, or pipe posts shall be used between the corner braces. The maximum distance between any two (2) posts shall be no greater than sixteen (16) feet.

3. All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The fourth side of the reserve pit will be fenced

immediately upon removal of the drilling rig and the fencing will be maintained until the pit is backfilled.

F. Any hydrocarbons on the pit will be removed from the pit as soon as possible after drilling operations are completed.

10. Plans for Reclamation of the Surface:

The B.L.M. will be contacted prior to commencement of any reclamation operations.

A. Production

1. Immediately upon well completion, the well location and surrounding area(s) will be cleared of all debris, materials, trash and junk not required for production.

2. Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with 43 CFR 3162.7-1.

3. The plastic pit liner shall be torn and perforated before backfilling of the reserve pit.

4. Before any dirt work to restore the location takes place, the reserve pit will be completely dry and all cans, barrels, pipe, etc. will be removed.

   Other waste and spoil materials will be disposed of immediately upon completion of drilling and workover activities.

5. The reserve pit and that portion of the location and access road not needed for production facilities/operations will be reclaimed within one hundred twenty (120) days from the date of well completion, weather permitting.

6. If the well is a producer, Equitable Resources Energy Company will, upgrade and maintain access roads as necessary to prevent soil erosion, and accommodate year round traffic. Reshape areas unnecessary to operations, distribute topsoil, disk and seed all disturbed areas outside the work area according to the recommended seed mixture. Perennial vegetation must be established. Additional work shall be required in case of seeding failures, etc.

   If the well is abandoned/dry hole, Equitable Resources Energy Company will, restore the access road and

location to approximately the original contours. During reclamation of the site, push the fill material into cuts and up over the backslope. Leave no depressions that will trap water or form ponds. Distribute topsoil evenly over the location, and seed according to the above seed mixture. The access road and location shall be ripped or dished prior to seeding. Perennial vegetation must be established. Additional work shall be required in case of seeding failures, etc.

Seedbed will be prepared by disking, then roller packing following the natural contours. Seed will be drilled on contours at a depth no greater than one-half inch (1/2"). In areas that cannot be drilled, seed will be broadcast at double the seeding rate and harrowed into soil. Certified seed will be used whenever available.

Fall seeding will be completed after September 1 and prior to prolonged ground frost. Spring seeding, to be effective, will be completed after the frost has left the ground and prior to May 15th.

7. Upon completion of backfilling, leveling and recontouring, the stockpiled topsoil will be evenly spread over the reclaimed area(s). Prior to reseeding, all disturbed surfaces will be scarified and left with a rough surface. No depressions will be left that would trap water and form ponds. All disturbed surfaces will be reseeded with the following seed mixture:

Pure Live Seed (PLS) lbs./acre	Seed Mix
1	Forage Kochia (Kochia prostrata)
5	Ephriam Crested Wheatgrass (Agropyron cristatum Ephriam)
4	Russian Wildrye (Elymus junceus)
2	Fourwing Saltbush (Atriplex canescens)

Seed will be drilled on the contour to a approximate depth of one-half (1/2) inch. All seeding will be conducted after September 1 and prior to ground frost. Spring seeding will be done after the frost leaves the ground and no later than May 15. If the seeding is unsuccessful, Equitable Resources may be required to make subsequent seedings.

B. Dry Hole/Abandoned Location

1. On lands administered by the Bureau of Land Management, abandoned well sites, roads, or other disturbed areas will be restored to near their original condition. This procedure will include:

   (c) ensuring revegetation of the disturbed areas to the specifications of the Bureau of Land Management at the time of abandonment.

2. All disturbed surfaces will be recontoured to the approximate natural contours and reseeded according to BLM specifications. Reclamation of the well pad and access road will be performed as soon as practical after final abandonment and reseeding operations will be performed in the fall or spring following completion of reclamation operations.

11. Surface Ownership:

The well site and proposed access road are situated on surface lands administered by

Bureau of Land Management
Vernal District Office
Vernal, Utah

12. Other Information:

A. Topographic and geologic features of the area (reference Topographic Map #A) are:

The proposed drill site is located in the Monument Butte oil field, which lies in a large basin formed by the Uinta Mountains to the North and the Bookcliff Mountains to the South. The site is located approximately 15 miles Northwest of the Green River,which is the major drainage for this area, and approximately 12 miles South of Myton Utah.

This basin floor is interlaced with numerous canyons and ridges formed by the non-perennial streams of the area. The sides of these canyons are steep and ledges formed in sandstone, conglomerate deposits and shale are common in this area.

The geologic structures that are visible in the area are of the Uinta formation (Eocene Epoch) tertiary period and the cobblestone and younger alluvial deposits from the

Quaternary period.

The soils in the semi-arid area of the Williams Fork Formation (Upper Cretaceous) and Wasatch Formation (Eocene) consist of light brownish gray clay (OL) to sand soil (SM-ML) type with poorly graded gravels.

Outcrops of sandstone ledges, conglomerate deposits and shale are common in this area.

The topsoils in the area range from a sandy clay (SM-ML) type soil to a clayey (OL) soil.

The majority of the numerous washes and draws in the area are of a non-perennial nature flowing during the early spring run-off and heavy rain storms of long duration which are rare as the normal annual rainfall in the area is only 8".

The flora of the area includes sagebrush, mountain mahogany, serviceberry, rabbit brush, greasewood, four-wing saltbush, Gambel scrub oak, willow, tamarack, shadscale, Spanish bayonet, indian rice grass, cheatgrass, wheatgrass, curly grass, crested wheatgrass, sweet clover, gum weed, foxtail, mustard, Canadian thistle, Russian thistle, Kochia, sunflowers and cacti.

The fauna of the area includes cattle, horses, elk, deer, coyotes, rabbits, rodents, lizards, bull snakes, rattle snakes, water snakes and horned toads. Birds of the area are ground sparrows, bluejays, bluebirds, magpies, ravens, rapters, morning doves, swallows, nighthawks, hummingbirds, and chukar.

B. The surface ownership is Federal. The surface use is grazing and petroleum production.

C. 1. The closest live water is the Green River which is approximately 15 miles Southwest of the proposed site.

2. There are no occupied dwellings in the immediate area

3. An archaeological report will be forwarded upon completion. Attached as Exhibit "F."/ns

4. There are no reported restrictions or reservations noted on the oil and gas lease.

5. A silt catchment dam and basin will be constructed according to BLM specifictaions approximately 100' North of corner #2 where flagged.

13. Lessee's or Operator's Representative:

Balcron Oil
a division of Equitable Resources Energy Company
1601 Lewis Avenue
P.O. Box 21017
Billings, Montana 59104
(8:00 a.m. to 5:00 p.m.)
(406)259-7860
FAX: (406)245-1361

Dave McCoskery, Drilling Engineer Home (406)248-3864

Dale Griffin, Home (303)824-3323

14. certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that any statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Balcron Oil, a division of Equitable Resources Energy Company, and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

May 17, 1993
Date

Bobbie Schuman
Bobbie Schuman
Coordinator of Enviromental and Regulatory Affairs
BALCRON OIL division of Equitable Resources Energy Company

EXHIBIT "C"

BALCRON OIL COMPANY

Geologic Prognosis

EXPLORATORY ____
DEVELOPMENT X

WELL NAME: Balcron Federal #21-13Y
LOCATION: NENW 703' FNL, 1830' FWL
COUNTY: Duchesne STATE: UT GL(Ung): 5535.5' EST KB: 5542'
PROSPECT/FIELD: Monument Butte
SECTION 13 TOWNSHIP 9S RANGE 16E
TOTAL DEPTH 5900

FORM. TOPS:

Formation	Prognosis Depth	Prognosis Datum	Sample Top Depth	Sample Top Datum	Cntl Wl. Datum
KB	-------	5542	------	-------	5462
Uinta	Surf.	-------	------	-------	------
Green River	1456	4086	------	-------	3995
2nd GG	3777	1765	------	-------	1674
Y-3	4095	1447	------	-------	1356
Y-4	4315	1227	------	-------	1136
Douglas Crk.	4567	975	------	-------	884
R-5	4737	805	------	-------	714
G-1	4900	642	------	-------	551
G-4	5097	445	------	-------	354
Carb. Mkr.	5412	130	------	-------	NDE
TD	5900	-------	------	-------	------
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Formation	Prognosis Depth	Prognosis Datum	Sample Top Depth	Sample Top Datum	Cntl Dat
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CONTROL WELL: G. S. Campbell Qtr/Qtr NESW Section 12 Township 9S Range 16E
Govt CNO #4

SAMPLES:

50	samples,	1400	to	3800
10	samples,	3800	to	TD
----------	samples,	-------	to	------
----------	samples,	-------	to	------
----------	samples,	-------	to	------
----------	samples,	-------	to	------

Send Samples To:
Utah Geological Sample Library
1 Dry Cut

LOGS:

DLL/MSFL	from	Surf.Csg.	to	TD
LDT/CNL	from	3500	to	TD
----------	from	-------	to	------
----------	from	-------	to	------
----------	from	-------	to	------
----------	from	-------	to	------
----------	from	-------	to	------
----------	from	-------	to	------

CORES:
None

DRILL STEM TESTS:
None

MUD LOGGER/HOT WIRE:
Required: (Yes/No) Yes
Type: Two Man

WELLSITE GEOLOGIST:
From 1400' to TD
Name: ---------- Tele. #: (---) ----
Address: ----------

COMMENTS:

PREPARED BY: K. K. Reinschmidt, S. W. VanDelinder DATE: 5-13-93

Equitable Resources Energy Company
Balcron Oil Division

DRILLING PROGRAM

WELL NAME: Balcron Federal 21-13Y **PROSPECT/FIELD:** Monument Butte
LOCATION: NE NW Sec.13 Twn.9S Rge.16E
COUNTY: Duchesne **STATE:** Utah

TOTAL DEPTH: 5900

HOLE SIZE	INTERVAL
12 1/4"	0 to 260'
7 7/8"	260 to 5900'

CASING	INTERVAL		CASING		
STRING TYPE	FROM	TO	SIZE	WEIGHT	GRADE
Surface Casing	0	260	8 5/8"	24 #/Ft	J-55
Production Casing	0	5900	5 1/2"	15.50#/Ft	J-55
	(All Casing will be new, ST&C)				

CEMENT PROGRAM

Surface	150 sacks 75% Class "G" 25% Poz with 2% CaCl and 1/4 #/Sk Flocele. (Cement will be circulated to surface.)
Production	250 sacks Thifty Lite and 400 sacks 50-50 Poz mix. (Top of cement will be 2000')

PRELIMINARY DRILLING FLUID PROGRAM

TYPE	FROM	TO	WEIGHT	PLAS. VIS	YIELD POINT
Air and air mist	0	260	N.A.	N.A.	N.A.
Air/Air Mist/KCl Water	260	T.D.	8.7-8.9	N.A.	N.A.

Drilling will be with air from surface to as deep as hole conditions allow. 2% KCl fluid will be used for the remainder of the hole.

COMMENTS

1.) No cores or DST's are planned.

DMM/5/17/93

BALCRON OIL CO.

Operator: BALCRON OIL	Well Name: Balcron Fed. 21-13Y
Project ID:	Location: Monument Butte, Utah

Design Parameters:

Mud weight (8.90 ppg) : 0.462 psi/ft
Shut in surface pressure : 2138 psi
Internal gradient (burst) : 0.100 psi/ft
Annular gradient (burst) : 0.000 psi/ft
Tensile load is determined using air weight
Service rating is "Sweet"

Design Factors:

Collapse : 1.125
Burst : 1.00
8 Round : 1.80 (J)
Buttress : 1.60 (J)
Body Yield : 1.50 (B)
Overpull : 0 lbs.

	Length (feet)	Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost
1	5,900	5-1/2"	15.50	J-55	ST&C	5,900	4.825	

	Collapse Load (psi)	Collapse Strgth (psi)	Collapse S.F.	Burst Load (psi)	Min Int Yield Strgth (psi)	Burst S.F.	Tension Load (kips)	Tension Strgth (kips)	Tension S.F.
1	2728	4040	1.481	2728	4810	1.76	91.45	202	2.21 J

Prepared by : McCoskery, Billings, MT
Date : 05-17-1993
Remarks :
Minimum segment length for the 5,900 foot well is 1,500 feet.
The mud gradient and bottom hole pressures (for burst) are 0.462 psi/ft and 2,728 psi, respectively.

NOTE: The design factors used in this casing string design are as shown above. As a general guideline, Lone Star Steel recommends using minimum design factors of 1.125 - Collapse (with evacuated casing), 1.0 - Burst, 1.8 - 8 Round Tension, 1.6 - Buttress Tension, and 1.5 - Body Yield. Collapse strength under axial tension was calculated based on the Westcott, Dunlop and Kemler curve. Engineering responsibility for use of this design will be that of the purchaser.
Costs for this design are based on a 1990 pricing model. (Version 1.0G)

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
MONTANA STATE OFFICE
222 NORTH 32ND STREET
P.O. BOX 36800
BILLINGS, MONTANA 59107-6800

TAKE PRIDE IN AMERICA

IN REPLY TO:
MTM 12619-A et al
BLM BOND NO. MT0576
(922.31)

April 25, 1989

N O T I C E

Equitable Resources Energy Company
P. O. Box 21017
Billings, Montana 59104

OIL AND GAS

CORPORATE MERGER RECOGNIZED
RIDER TO NATIONWIDE BOND ACCEPTED

Acceptable evidence has been filed in this office concerning the merger of Balcron Oil Company into Equitable Resources Energy Company, the surviving corporation. Information provided shows that Balcron Oil Company merged into Equitable Resources Energy Company, changing the former entity's name to Balcron Oil, a Division of Equitable Resources Energy Company. Please note that Divisions cannot hold leases, therefore, after consultation with Balcron Oil, this office is recognizing only the merger action.

A rider was filed on April 20, 1989, to be made a part of $150,000 Nationwide Oil and Gas Bond No. 5547188 (BLM Bond No. MT0576) with Balcron Oil Company as principal and Safeco Insurance Company of America as surety. By means of this rider, the surety consents to changing the name on the bond from Balcron Oil Company to Equitable Resources Energy Company. The rider is accepted effective April 20, 1989.

For our purposes, the merger is recognized effective April 20, 1989.

The oil and gas lease files and communitization agreement files identified on the enclosed Exhibit A have been noted as to the merger. Other lease interests will be transferred by assignments from Ballard & Cronoble to Equitable Resources Energy Company.

Cynthia L. Embretson, Chief
Fluids Adjudication Section

1 Enclosure
1-Exhibit A

cc: (w/encl.)
AFS, Denver (1)
All DMs (1 ea.)
RMO Section (1)
Regional Forester, Lakewood (2)
Regional Forester, Missoula (2)
Bureau of Reclamation (1)

Form 3104-8
(July 1984)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

STATE, NATIONWIDE, OR NATIONAL PETROLEUM RESERVE IN ALASKA OIL AND GAS BOND

Act of February 25, 1920 (30 U.S.C. Sec. 181)
Act of August 7, 1947 (30 U.S.C. Sec. 351)
Department of the Interior Appropriations Act, Fiscal Year 1981 (P.L. 96-514)
Other Oil and Gas Leasing Authorities as Applicable

KNOW ALL MEN BY THESE PRESENTS, That we
BALCRON OIL COMPANY
of 1601 Lewis Avenue, Billings, MT 59104

as principal, and
SAFECO INSURANCE COMPANY OF AMERICA
of 111 Presidential Blvd., Suite 231, Bala Cynwyd, PA 19004

as surety, are held and firmly bound unto the United States of America in the sum of ONE HUNDRED FIFTY THOUSAND AND 00/100---------- dollars ($ 150,000.00), in lawful money of the United States, which sum may be increased or decreased by a rider hereto executed in the same manner as this bond, for the use and benefit of (1) the United States; (2) the owner of any of the land subject to the coverage of this bond, who has a statutory right to compensation in connection with a reservation of the oil and gas deposits to the United States; and (3) any lessee or permittee under a lease or permit issued by the United States prior to the issuance of an oil and gas lease for the same land subject to this bond, covering the use of the surface or the prospecting for, or development of, other mineral deposits in any portion of such land, to be paid to the United States. For such payment, well and truly to be made, we bind ourselves, and each of our heirs, executors, administrators, and successors, jointly and severally.

☐ The coverage of this bond shall extend to all of the principal's holdings of federal oil and gas leases in the United States, including Alaska, issued or acquired under the Acts cited in Schedule A.

☐ The coverage of this bond extends only to the principal's holdings of federal oil and gas leases issued or acquired under the Acts cited and in the States named in Schedule A and to any other State or States that may be named in a rider attached hereto by the lessor with the consent of the surety.

☐ The coverage of this bond extends only to the principal's holdings of federal oil and gas leases within the National Petroleum Reserve in Alaska.

SCHEDULE A

Mineral Leasing Act of February 25, 1920 (30 U.S.C. Sec. 181), Acquired Lands Leasing Act of August 7, 1947 (30 U.S.C. Sec. 351), and other oil and gas leasing authorities as applicable.

NAMES OF STATES

ALL STATES

The conditions of the foregoing obligations are such that, whereas the said principal has an interest in oil and gas leases issued under the Acts cited in this bond: (1) as lessee; (2) as the approved holder of operating rights in all or part of the lands covered by such leases under operating agreements with the lessees; or (3) as designated operator or agent under such leases pending approval of an assignment or operating agreement; and

WHEREAS the principal is authorized to drill for, mine, extract, remove, and dispose of oil and gas deposits in or under the lands covered by the leases, operating agreements or designations and is obligated to comply with certain covenants and agreements set forth in such instruments; and

WHEREAS the principal and surety agree that without notice to the surety the coverage of this bond, in addition to the present holdings of the principal, shall extend to and include:

SAFECO

SURETY RIDER

SAFECO INSURANCE COMPANY OF AMERICA
GENERAL INSURANCE COMPANY OF AMERICA
FIRST NATIONAL INSURANCE COMPANY OF AMERICA
HOME OFFICE: SAFECO PLAZA
SEATTLE, WASHINGTON 98185

To be attached to and form a part of

Type of Bond: Nationwide Oil and Gas Lease Bond

Bond No. 5547188 (BLM Bond No. MT0576)

dated effective 9/8/88
(MONTH, DAY, YEAR)

executed by BALCRON OIL COMPANY, as Principal,
(PRINCIPAL)

and by SAFECO INSURANCE COMPANY OF AMERICA, as Surety,
(SURETY)

in favor of UNITED STATES DEPARTMENT OF THE INTERIOR, BUREAU OF LAND MANAGEMENT.
(OBLIGEE)

In consideration of the mutual agreements herein contained the Principal and the Surety hereby consent to changing

The name of the Principal

From: BALCRON OIL COMPANY

To: EQUITABLE RESOURCES ENERGY COMPANY

Nothing herein contained shall vary, alter or extend any provision or condition of this bond except as herein expressly stated.

This rider is effective 1/1/89
(MONTH, DAY, YEAR)

Signed and Sealed 4/10/89
(MONTH, DAY, YEAR)

EQUITABLE RESOURCES ENERGY COMPANY
PRINCIPAL

By: _____
TITLE

SAFECO INSURANCE COMPANY OF AMERICA
SURETY

By: R. George Voinchet
ATTORNEY-IN-FACT

SAFECO

POWER OF ATTORNEY

SAFECO INSURANCE COMPANY OF AMERICA
GENERAL INSURANCE COMPANY OF AMERICA
HOME OFFICE: SAFECO PLAZA
SEATTLE, WASHINGTON 98185

EXHIBIT "E" Page 4 of 4
3798

No. _____

KNOW ALL BY THESE PRESENTS:

That SAFECO INSURANCE COMPANY OF AMERICA and GENERAL INSURANCE COMPANY OF AMERICA, each a Washington corporation, does each hereby appoint

----------THOMAS L. VEHAR; R. GEORGE VOINCHET, Pittsburgh, Pennsylvania----------

its true and lawful attorney(s)-in-fact, with full authority to execute on its behalf fidelity and surety bonds or undertakings and other documents of a similar character issued in the course of its business, and to bind the respective company thereby.

IN WITNESS WHEREOF, SAFECO INSURANCE COMPANY OF AMERICA and GENERAL INSURANCE COMPANY OF AMERICA have each executed and attested these presents

this 4th day of September, 19 87.

CERTIFICATE

Extract from the By-Laws of SAFECO INSURANCE COMPANY OF AMERICA and of GENERAL INSURANCE COMPANY OF AMERICA:

"Article V, Section 13. — FIDELITY AND SURETY BONDS . . . the President, any Vice President, the Secretary, and any Assistant Vice President appointed for that purpose by the officer in charge of surety operations, shall each have authority to appoint individuals as attorneys-in-fact or under other appropriate titles with authority to execute on behalf of the company fidelity and surety bonds and other documents of similar character issued by the company in the course of its business . . . On any instrument making or evidencing such appointment, the signatures may be affixed by facsimile. On any instrument conferring such authority or on any bond or undertaking of the company, the seal, or a facsimile thereof, may be impressed or affixed or in any other manner reproduced; provided, however, that the seal shall not be necessary to the validity of any such instrument or undertaking."

Extract from a Resolution of the Board of Directors of SAFECO INSURANCE COMPANY OF AMERICA and of GENERAL INSURANCE COMPANY OF AMERICA adopted July 28, 1970.

"On any certificate executed by the Secretary or an assistant secretary of the Company setting out,

(i) The provisions of Article V, Section 13 of the By-Laws, and

(ii) A copy of the power-of-attorney appointment, executed pursuant thereto, and

(iii) Certifying that said power-of-attorney appointment is in full force and effect,

the signature of the certifying officer may be by facsimile, and the seal of the Company may be a facsimile thereof."

I, Boh A. Dickey, Secretary of SAFECO INSURANCE COMPANY OF AMERICA and of GENERAL INSURANCE COMPANY OF AMERICA, do hereby certify that the foregoing extracts of the By-Laws and of a Resolution of the Board of Directors of these corporations, and of a Power of Attorney issued pursuant thereto, are true and correct, and that both the By-Laws, the Resolution and the Power of Attorney are still in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the facsimile seal of said corporation

this 10th day of April, 19 89.

EXHIBIT "F"

ARCHEOLOGICAL - ENVIRONMENTAL RESEARCH CORPORATION

P. O. Box 853 Bountiful, Utah 84011-0853
Tel: (801) 292-7061, 292-9668

May 6, 1993

Subject: CULTURAL RESOURCE EVALUATION OF NINE PROPOSED WELL LOCATIONS IN THE CASTLE PEAK DRAW LOCALITY OF DUCHESNE AND UINTAH COUNTIES, UTAH

Project: Balcron Oil Company -- 1993 Development Program for the Monument Butte Lease Area Units: 41-18, 14-8, 21-13Y, 21-25Y, 41-21Y, 21-9, 44-14Y, 24-3Y, and 22-10Y

Project No.: BLCR-93-1

Permit No.: Dept. of Interior -- UT-92-54937

Utah State No.: UT-93-AF-158b

To: Ms. Ms. Bobbie Schuman, Balcron Oil Company, P.O. Box 21017, Billings, Montana 59104

Mr. David Little, District Manager, Bureau of Land Management, 170 South 500 East, Vernal, Utah 84078

Info: Antiquities Section, Division of State History, 300 Rio Grande, Salt Lake City, Utah 84101

RECEIVED
MAY 11 1993

5-13-93 NOTE: The access route on our 41-21Y was changed at the onsite. The new access will be re-evaluated and a supplemental report submitted/ps

CULTURAL RESOURCE EVALUATION OF NINE PROPOSED WELL LOCATIONS IN THE CASTLE PEAK DRAW LOCALITY OF DUCHESNE AND UINTAH COUNTIES, UTAH

Report Prepared for BALCRON OIL COMPANY

Dept. of Interior Permit No.: UT-92-54937
AERC Project 1373 (BLCR-93-1)

Utah State Project No.: UT-93-AF-158b

Principal Investigator: F. Richard Hauck, Ph.D.
Author of Report: Glade Hadden

ARCHEOLOGICAL-ENVIRONMENTAL RESEARCH CORPORATION (AERC)

181 North 200 West, Suite 5
P.O. Box 853
Bountiful, Utah 84011-0853

May 6, 1993

ABSTRACT

Intensive cultural resource evaluations have been conducted for Balcron Oil Company of seven proposed well locations on federal lands in the Castle Peak Draw locality of Duchesne and Uintah Counties, Utah. The examinations of these nine locations involved a total of 119.1 acres of which 29.1 acres (4 miles) includes eight separate access routes associated with Units 41-18, 14-8, 21-13Y, 21-25Y, 41-21Y, 21-9, 44-14Y and 24-3Y. The remaining 90 acres involves ten acre parcels at all nine of the proposed Units (41-18, 14-8, 21-13Y, 21-25Y, 41,21Y, 21-9, 44-14Y, 24-3Y and 22-10Y). These evaluations were conducted on May 3 and 4, 1993 by archaeologist Glade Hadden under the supervision of F. Richard Hauck.

No previously recorded significant or National Register eligible cultural resources will be adversely affected by the proposed developments.

One newly identified cultural resource activity locus was evaluated and recorded during the examinations. This site (42UN 2062) consists of a non-significant lithic scatter associated with proposed Unit 44-14Y.

AERC recommends project clearance based on adherence to the stipulations noted in the final section of this report.

TABLE OF CONTENTS

LIST OF MAPS OF THE PROJECT AREA

GENERAL INFORMATION

On May 3 and 4, 1993, archaeologist Glade Hadden acting under the supervision of F.R. Hauck, conducted intensive cultural resource evaluations for Balcron Oil Company of Billings, Montana. These examinations involved nine separate well locations (41-18, 14-8, 21-13Y, 21-25Y, 41-21Y, 21-9, 44-14Y, 24-3Y and 22-10Y) and eight linear access route evaluations totaling 4 miles associated with Units 41-18, 14-8, 21-13Y, 21-25Y, 41-21Y, 21-9, 44-14Y and 24-3Y. This project area is situated in the Castle Peak Draw locality of Duchesne and Uintah Counties, Utah.

This project is situated on federal lands administered by the Diamond Mountain Resource Area of the Vernal District of the Bureau of Land Management.

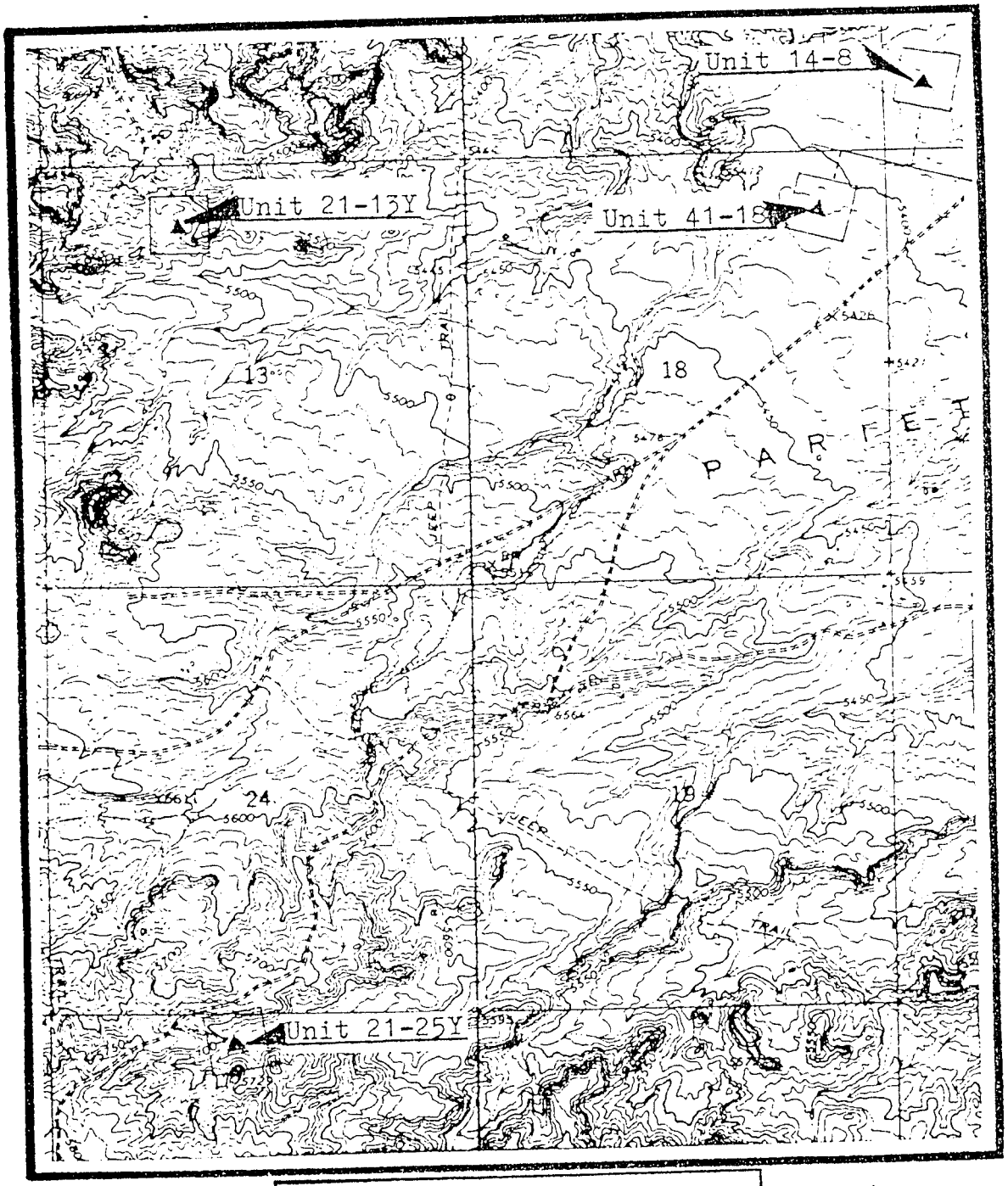
The purpose of the field study and this report is to identify and document cultural site presence and assess National Register potential significance relative to established criteria (cf., Title 36 CFR 60.6). The proposed development of these well locations requires an archaeological evaluation in compliance with the Antiquities Act of 1906, the Reservoir Salvage Act of 1960-as amended by P.L. 93-291, Section 106 of the National Historic Preservation Act of 1966-as amended, the National Environmental Policy Act of 1969, the Federal Land Policy and Management Act of 1979, the Archaeological Resources Protection Act of 1979, the Native American Religious Freedom Act of 1978, the Historic Preservation Act of 1980, and Executive Order 11593.

In addition to documenting cultural identity and significance, mitigation recommendations relative to the preservation of cultural data and materials can be directed to the Vernal District Office of the Bureau of Land Management relative to the locations on public lands, and to the Antiquities Section of the Utah State Division of History. This work was done under U.S. Department of Interior Permit for Utah UT-92-54937 which expires on January 31, 1994.

The nine evaluated well locations included nine 10 acre parcel evaluations for a total of 90 acres. A series of 15 to 20 meter-wide survey transects were walked within the 60 foot-wide corridors associated with the eight access routes covering a total distance of 4 miles or some 29.1 acres. A total of 119.1 acres were examined during this inventory.

Project Location

The project location is in the Vernal District of the Bureau of Land Management. It is situated on the Myton SE, Myton SW and Pariette Draw SW 7.5 minute topographic quads as shown on the attached maps.



T. 9 South
R. 16 and 17 E
Meridian: S.L.B.M
Quad: Myton SE, Utah

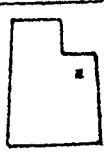
MAP 1
Cultural Resource Survey of Balcron Units 41-18, 14-8, 21-13Y and 21-25Y, Castle Peak Draw Area

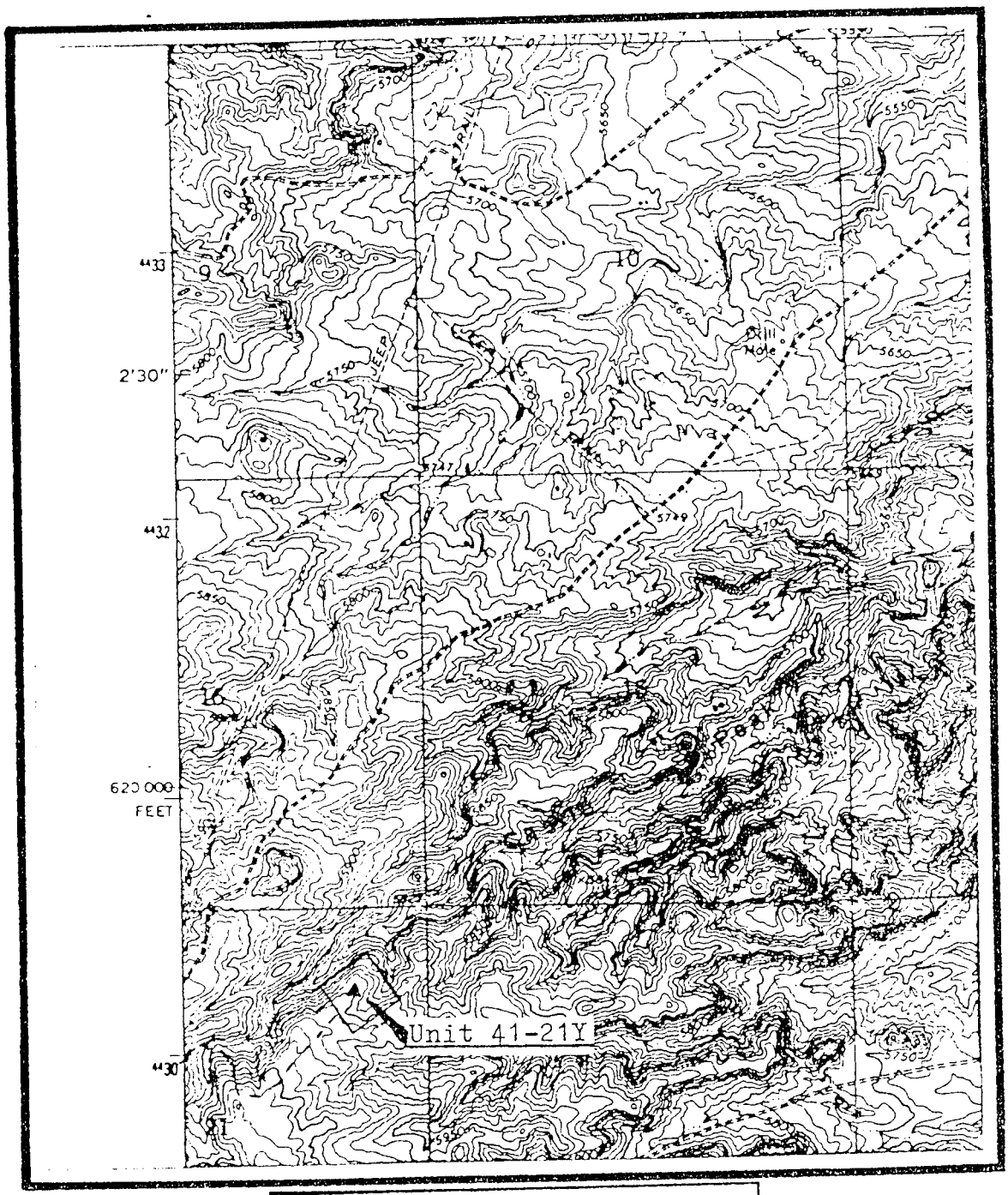
Legend:
Well Location ▲
Access Route - - - -

N

Project: BLCR-93-1
Series: Uinta Basin
Date: 5-6-93

Scale: 1:24,000





T. 9 South
R. 16 East
Meridian: S.L.B.M.
Quad: Myton SE
Utah

MAP 2
Cultural Resource Survey of Balcron Unit 41-21Y in the Castle Peak Draw area of Duchesne County

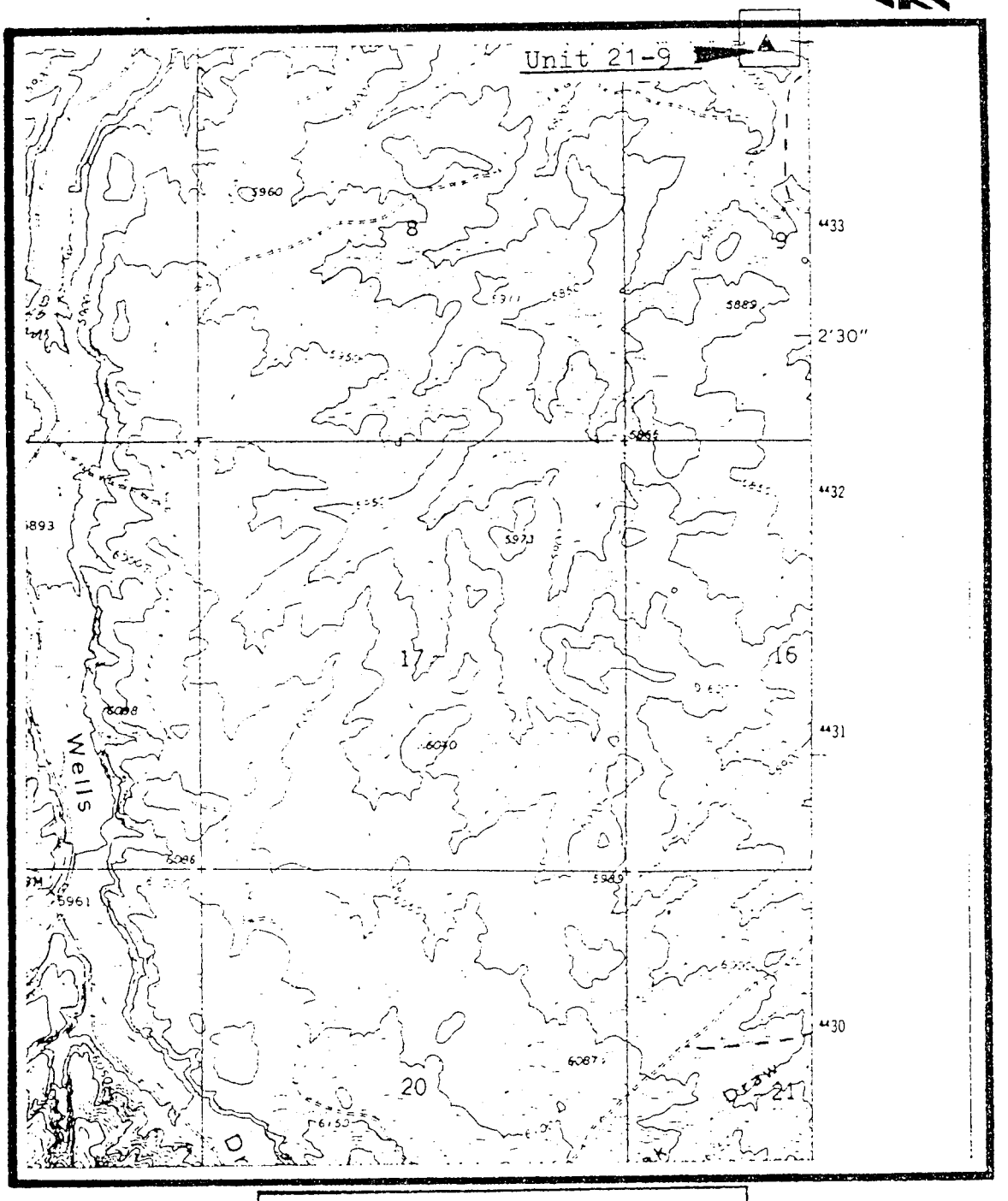
Legend:
Well Location
Access Route

N

Project: BLCR-93-1
Series: Uinta Basin
Date: 5-6-93

Scale: 1:24,000

3



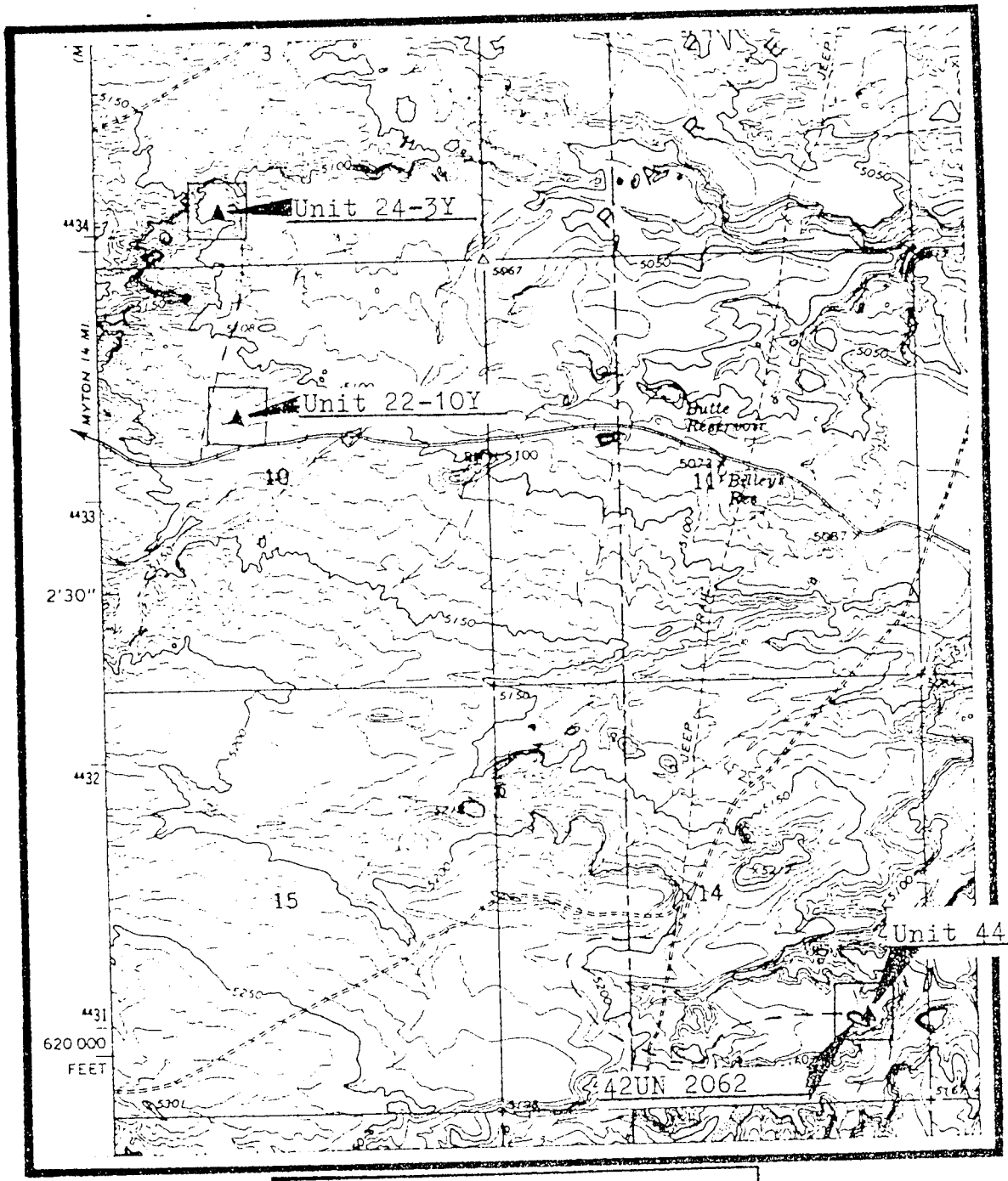
T. 9 South
R. 16 East
Meridian: S.L.B.M
Quad: Myton SW, Utah

MAP 3
Cultural Resource Survey of Balcron Unit 21-9 in the Castle Peak Draw Area of Duchesne County

Legend:
Well Location ▲
Access Route

N

Project: BLCR-93-1
Scale: 1:24,000
Series: Uinta Basin
Date: 5-6-93



MAP 4
Cultural Resource Survey of Balcron Units 44-14Y, 24-3Y and 22-10Y in the Castle Peak Draw Area

T. 9 South
R. 17 East
Meridian: S.L.B.M
Quad: Pariette Draw SW, Utah

Scale: 1:24,000

Project: BLCR-93-1
Series: Uinta Basin
Date: 5-6-93

Legend:
- Well Location
- Access Route
- Cultural Site

N

Unit 41-18 is situated in the NE - NE quarter of Section 18, Township 9 South, Range 17 East. Its access route extends for ca. .2 mile to the southwest from an existing road traversing the northeastern corner of that section (see Map 1).

Unit 14-8 is in the SW - SW quarter of Section 8 of that same township and range. An access route extends ca. .2 mile northeast from the same existing road to the location (see Map 1).

Unit 21-13Y is situated in Section 13, Township 9 South, Range 16 East. This unit is situated in the NE - NW quarter of that section (see Map 1). Its access route extends ca. .5 mile east along an existing jeep trail, then southeast onto the location.

Unit 21-25Y is in the NE - NW of section 25 of Township 9 South, Range 16 East. The unit is accessible via a ca. .2 mile-long access that begins at an existing road which crosses the NW corner of that section, and extends to the southeast to the well location.

Unit 41-21Y is located in the NE - NE quarter of Section 21, Township 9 South, Range 16 East (see Map 2). Its 1 mile-long access begins at an existing roadway to the southwest of the location (see Map 3).

Unit 21-9 is also located in Township 9 South, Range 16 East. It is situated in the NE - NW quarter of Section 9 (see Map 3). This unit has a ca. .4 mile access route which will connect the location with the existing road to the south of the location (see maps 2 and 3).

Unit 44-14Y is located in the SE - SE quarter of section 14, Township 9 South, Range 17 East. A ca. 1 mile access route links the unit with an existing one lane jeep trail to the west, near the center of section 14. This jeep trail, in turn, connects with a road/pipeline corridor ca. .5 mile to the north (see map 4).

Unit 24-3Y is situated in the SE - SW quarter of section 3, Township 9 South, Range 17 East. A ca. .5 mile access route connects the unit to the main Castle Peak / Pariette Bench road to the south (see map 4).

Unit 22-10Y is in the SE - NW quarter of section 10 in that same township and range. The unit is located immediately adjacent to the access route leading to unit 24-3Y (see map 4).

Environmental Description:

The project areas range within the 5100 to 5900 foot elevation zone above sea level. Open rangeland terrain surfaces are associated with all locations.

The vegetation in the project area includes *Chrysothamnus spp.*, *Sarcobatus vermiculatus*, *Ephedra viridis*, *Artemesia tridentata*, *Atriplex canescens*, and *Bromus tectorum*.

The geological associations within the project area consist of fluvial and lake deposits which correlate with the Uinta Formation which is of Tertiary age.

PREVIOUS RESEARCH IN THE LOCALITY

File Search

Records searches of the site files and maps at the Antiquities Section of the State Historic Preservation Office in Salt Lake City were conducted on May 5, 1993. A similar search was conducted in the Vernal District Office of the BLM on May 3, 1993. The National Register of Historic Places has been consulted and no registered historic or prehistoric properties will be affected by the proposed developments.

A variety of known cultural sites are situated in the Castle Peak Draw locality. Most of these prehistoric resources, including 42DC 349, 350, 351, 352, 353, 732, 761, 763 and 765 have been identified and recorded by AERC during previous evaluations (Hauck 1981, 1992a, 1992b, 1992c, 1992d). Additional sites previously recorded in this locality include Sites 42DC 423, 424, and 425 which were documented by Sagebrush (Polk 1982), 42DC 382 identified by Grand River (Babcock 1981), and 42DC 539, 540, 541, 542, 543 and 556 recorded by BLM Archaeologist Blaine Phillips in 1983.

One site identified in the project area during the search may be affected. Site 42DC 765 is a lithic scatter/rockshelter complex located by AERC during a previous evaluation for Balcron in the area (Hauck 1992e). This site is located in section 8, adjacent to the proposed development area for unit 14-8, ca. 100 meters from the impacted area (see map 1). Site 42DC 765, while not directly affected by the proposed development may be adversly affected by the increased availability of access to the site.

Prehistory and History of the Cultural Region

Currently available information indicates that the Northern Colorado Plateau Cultural Region has been occupied by a variety of cultures beginning perhaps as early as 10,000 B.C. These cultures, as identified by their material remains, demonstrate a cultural developmental process that begins with the earliest identified Paleoindian peoples (10,000 -- 7,000 B.C.) and extends through the Archaic (ca. 7,000 B.C. -- A.D. 300), and Formative (ca. A.D. 400 -- 1100) Stages, and the Late Prehistoric-Protohistoric periods (ca. A.D. 1200 -- 1850) to conclude in the Historic-Modern period which was initiated with the incursion of the Euro-American

trappers, explorers, and settlers. Basically, each cultural stage -- with the exception of the Late Prehistoric hunting and gathering Shoshonean bands -- features a more complex life-way and social order than occurred during the earlier stage of development (Hauck 1991:53). For a more comprehensive treatment of the prehistory and history of this region see Archaeological Evaluations in the Northern Colorado Plateau Cultural Area (Hauck 1991).

Site Potential in the Project Development Zone

Previous archaeological evaluations in the region have resulted in the identification and recording of a variety of cultural resource sites having eligibility for potential nomination to the National Register of Historic Places (NRHP). The majority of these sites are lithic scatters containing cobble reduction materials. Open occupations are also known in this locality. Sites associated with the open rangeland generally appear to have been occupied during the Middle Archaic Stage with occasional indications of Paleoindian activity based on the recovery of isolated Plano style projectile points. The north-south drainage canyons appear to contain the majority of Late Prehistoric (Numa) sites probably because those canyon floors were transportation corridors and convenient pastures for the Ute horse herds. Evidence of Formative Stage occupation, i.e., the Fremont Culture, is rarely observed in the rangeland environment but is common within the Green River and White River canyons and principal tributaries.

The majority of known sites in this project area are lithic scatters (42DC 349, 350, 353 and 763). Open occupations such as 42DC 352 are also present. Sites 42DC 351 and 761 are rock shelters. Based on the recovery of a Folsom point and a Desert Side-notch arrow point, a possible Paleoindian component and a more recent Numic component exist on Site 42DC 353. Sites in the project locality generally appear to have been occupied during the Archaic Stage and the Late Prehistoric Period.

Site density in Castle Peak Draw appears to range from six to over ten sites per section. This moderate to high density decreases substantially on the benches.

FIELD EVALUATIONS

Methodology

Intensive evaluations were accomplished within each survey area by the archaeologist walking 10 to 20 meter-wide transects within each ten acre parcel associated with a well location. In addition, double 15 to 20 meter-wide transects were walked flanking the flagged centerline. Thus, ca. 4 miles or 29.1 acres of public lands associated with the eight access routes and another 90 acres associated with the nine well locations were examined by Glade Hadden acting under the direction of F. Richard Hauck, the Principal Investigator.

Observation of cultural materials results in intensive examinations to determine the nature of the resource (isolate or activity locus). The analysis of each specific cultural site results in its subsequently being sketched, photographed, and appropriately recorded on standard IMACS forms. Cultural sites are then evaluated for significance utilizing the standards described below and mitigation recommendations are considered as a means of preserving significant resources which may be situated within the development zone.

Site Significance Criteria

Prehistoric and historic cultural sites which can be considered as eligible for nomination to the National Register of Historic Places have been outlined as follows in the National Register's Criteria for Evaluation as established in Title 36 CFR 60.6:

> The quality of significance in American ... archaeology ... and culture is present in ... sites ... that possess integrity of location, design, setting, materials, workmanship, feeling, and association and:
> a. That are associated with events that have made a significant contribution to the broad patterns of our history; or
> b. that are associated with the lives of persons significant in our past; or
> c. that embody the distinctive characteristics of a type, period, or method of construction ... ; or
> d. that have yielded, or may be likely to yield, information important in prehistory or history.

In addition to satisfying one or more of these general conditions, a significant cultural resource site in Utah will generally be considered as being eligible for inclusion in the National Register if it should advance our current state of knowledge relating to chronology, cultural relationships, origins, and cultural life ways of prehistoric or historic groups in the area.

In a final review of any site's cultural significance, the site must possess integrity and at least one of the above criteria to be considered eligible for nomination to the National Record of Historic Places.

Results of the Inventory:

One non-significant prehistoric cultural resource activity locus was observed, evaluated and recorded during the archaeological evaluations. This site has been subsequently listed in the State and BLM files as 42UN 2062.

Site 42UN 2062 (see map 4) consists of a 20 x 100 meter lithic scatter that is predominantly composed of locally procured Parachute Creek chert nodules, primary and secondary flakes and a single non-diagnostic bifacially prepared

artifact. Detritus spread extends ca. 100 meters along the top of a bench associated with well location 44-14Y. Most of the site lies within the proposed development zone or access route for the unit. A small (ca. 2 x 10 meter) concentration of 6 primary and secondary flakes is associated with the single artifact. This small concentration lies entirely outside the proposed development area for the well location but is within the proposed access route. A more widely dispersed distribution of primary flakes and core fragments extending along the bench indicates limited prehistoric lithic testing and procurement activity at this site. Little potential exists for buried deposits, and no other features were noted. Site integrity is good to excellent, with the only noted impact agent being erosion, however potential for extensive occupational strata and material deposits is low. Temporal and cultural associations for this site are presently unknown; no diagnostic artifacts or exposed features were observed during the survey.

This site is a non-significant resource. There exists little potential for providing any pertinent or valuable information on the prehistory of the region relative to criterion d of Title 36 CFR 60.6.

None of the previously recorded cultural sites in this project locality will be adversely affected by the proposed developments, with the possible exception of site 42DC 765. This site, while not directly affected, may be adversely impacted by the increased availability of access provided by the development of unit 14-8.

No isolated diagnostic artifacts were observed or collected during the survey. A single non-diagnostic artifact associated with site 42UN 2062 was collected.

CONCLUSION AND RECOMMENDATIONS

The development and maintenance of these nine locations will not have any direct adverse effect on any NRHP eligible cultural resources in this locality.

AERC recommends that a cultural resource clearance be granted to Balcron Oil Company relative to the development of the nine well locations noted above based upon adherence to the following stipulations:

1. All vehicular traffic, personnel movement, construction and restoration operations should be confined to the flagged areas and corridors examined as referenced in this report, and to the existing roadways and/or evaluated access routes.

2. All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area.

3. The authorized official should be consulted should cultural remains from subsurface deposits be exposed during construction work or if the need arises to relocate or otherwise alter the location of the development areas.

Glade Hadden
Field Archaeologist

F. Richard Hauck, Ph.D.
President and Principal
Investigator

REFERENCES

Babcock, T.

1981 Report on Cultural Resources Identified During an Inventory of Proposed Lomax 1-26 Well Location in the Monument Buttes Area of Duchesne County, 11/12/81. Report Prepared for Grand River Consultants, Grand Junction.

Hauck, F. Richard

1981 Cultural Resource Inventory of Nine Proposed Well Locations and Access Roads in the Coyote Basin Locality of Uintah County, Utah, and in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Diamond Shamrock, DS-81-2, Archeological-Environmental Research Corporation (AERC), Bountiful.

1991 Archaeological Evaluations on the Northern Colorado Plateau Cultural Area, AERC Paper No. 45, Archeological-Environmental Research Corporation, Bountiful.

1992a Cultural Resource Evaluations of Four Proposed Well Locations in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-92-2, Archeological-Environmental Research Corporation (AERC), Bountiful.

1992b Addendum to Cultural Resource Evaluations of Four Proposed Well Locations in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-92-4, Archeological-Environmental Research Corporation (AERC), Bountiful.

1992c Cultural Resource Evaluations of Seven Proposed Well Locations in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-92-5, Archeological-Environmental Research Corporation (AERC), Bountiful.

1992d Cultural Resource Evaluation of a Proposed Water Pipeline Corridor in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-92-6, Archeological-Environmental Research Corporation (AERC), Bountiful.

1992e Cultural Resource Evaluation of 7 Proposed Well locations in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-92-8, Archeological-Environmental Research Corporation (AERC), Bountiful.

Polk, Michael
1982 Cultural resource inventory of NGC Well No. 12-8h. Report prepared by Sagebrush Archaeological Consultants, Ogden.

Department of the Interior
Bureau of Land Management
Utah State Office
(AERC FORMAT)

Summary Report of
Inspection for Cultural Resources

Authorization .U.9.3.A.F.1.5.8.b.

Report Acceptable Yes __ No __

Mitigation Acceptable Yes __ No __
Comments: _____

M O N U M E N T B U T T E S 9 W E L L U N I T S

1. Report Title . . . . . .

BALCRON OIL CO. (14-8, 41-18, 24-3Y, 22-10Y, 44-14Y, 41-21Y, 21-9, 21-13Y, 21-25Y)

2. Development Company

3. Report Date 0 5 06 1 9 9 3 . . . . . 4. Antiquities Permit No. UT-92-54937

A E R C B L C R - 9 3 - 1

5. Responsible Institution . . . . . Uintah and Duchesne County

6. Fieldwork Location: TWN 0 9 S RNG 1 7 E Section. 0 3 0 8 1 0 1 4 1 8

7. Resource Area .D.M. TWN 0 9 S RNG 1 6 E Section. 0 9 1 3 2 1 2 5

8. Description of Examination Procedures: The archeologist, Glade Hadden, acting under the direction of F.R. Hauck intensively examined nine 10 acre well parcels and associated access routes by walking a series of 10 to 20 meter-wide transects within the locations and along the flagged access centerlines.

9. Linear Miles Surveyed and/or Definable Acres Surveyed and/or Legally Undefinable Acres Surveyed . . . . . 4 . . . . . 119.1

10. Inventory Type . . I

R = Reconnaissance
I = Intensive
S = Statistical Sample

11. Description of Findings:
One cultural resource site was identified during the survey. Site 42UN 2062 is a lithic scatter. One biface was collected. This site is non-significant.

12. Number Sites Found .1. . . . . (No sites = 0)

13. Collection: .Y. (Y = Yes, N = No)

14. Actual/Potential National Register Properties Affected:
The National Register of Historic Places (NRHP) has been consulted and no registered properties will be affected by the proposed development.

15. Literature Search, Location/ Date: Utah SHPO 5-5-93 Vernal District Office Records 5-3-93

16. Conclusion/ Recommendations:

AERC recommends that a cultural resource clearance be granted to Balcron Oil Company for these proposed developments based on the following stipulations:

1. All vehicular traffic, personnel movement, construction and restoration operations should be confined to the corridor examined as referenced in this report, and to the existing roadways and/or evaluated access routes.

2. All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area.

3. The authorized official should be consulted should cultural remains from subsurface deposits be exposed during construction work or if the need arises to relocate or otherwise alter the location of the exploration area.

17. Signature of Administrator & Field Supervisor

Administrator

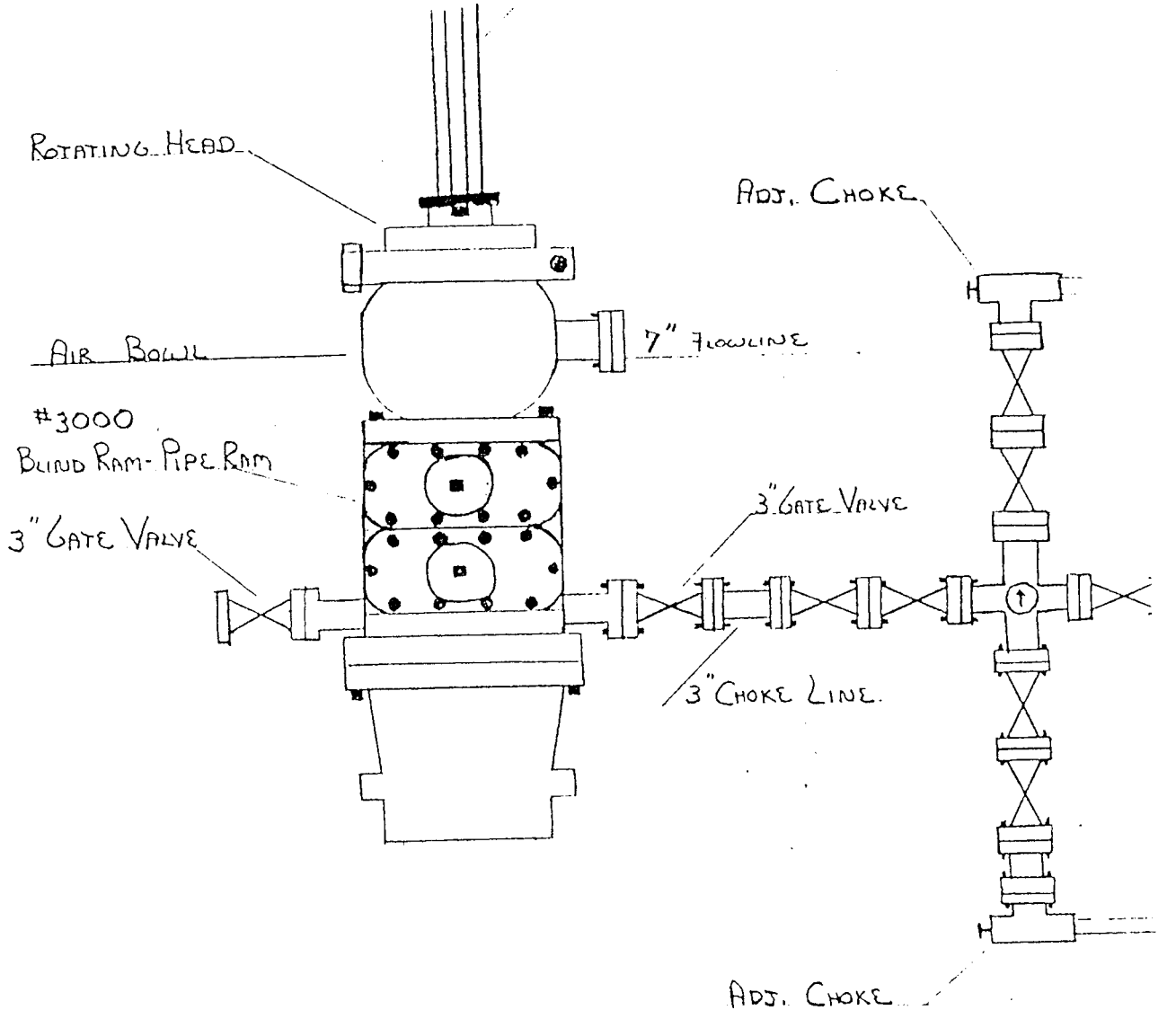
Field Supervisor

UT 8100-3 (2/85)

EXHIBIT "H"

Hex Kelly

UNION DRILLING RIG #17



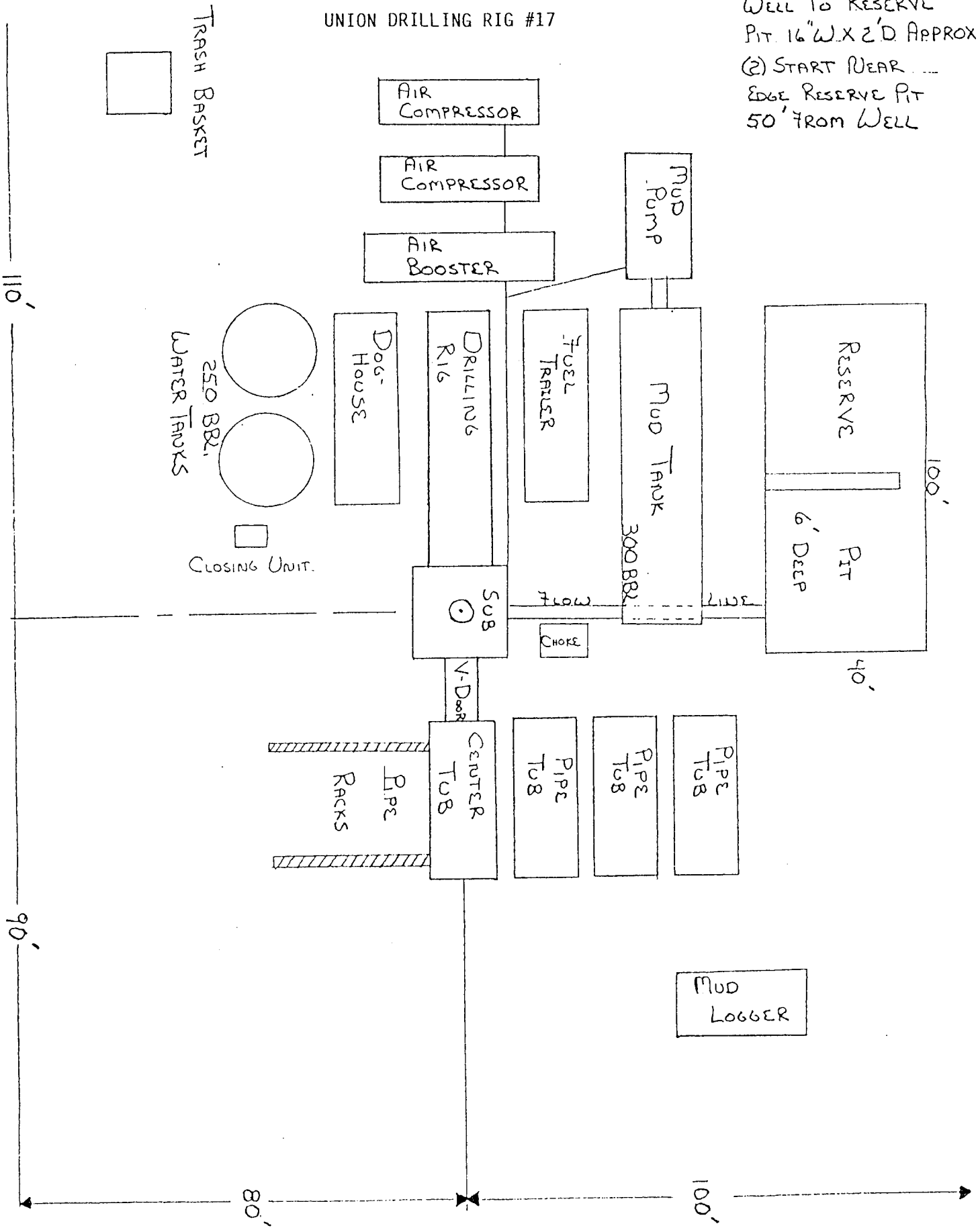
#3000 Stack

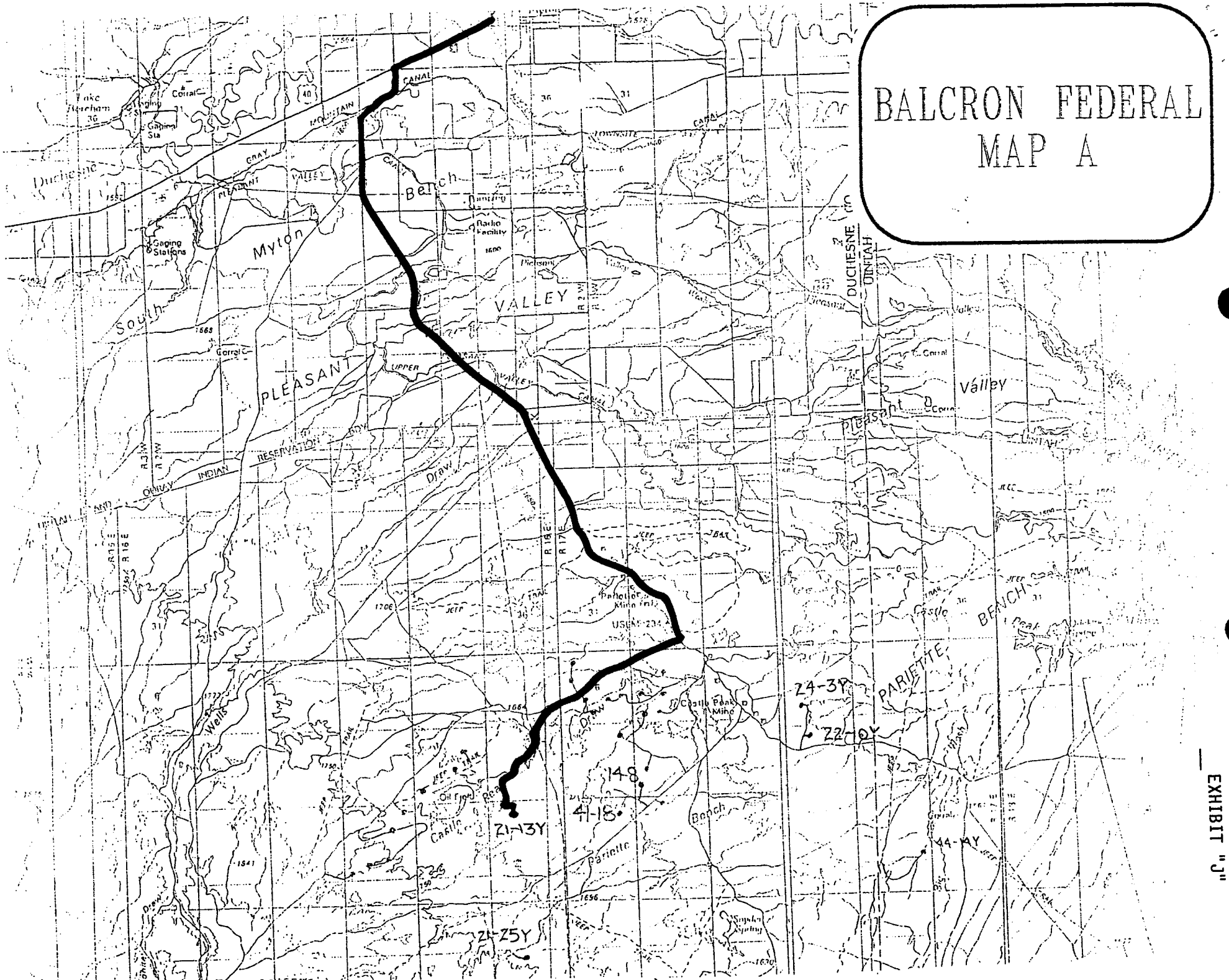
EXHIBIT "I"

UNION DRILLING RIG #17

(1) Cut Ditch from Well To Reserve Pit 16"W.X 2'D. Approx

(2) Start Near ... Edge Reserve Pit 50' from Well




BALCRON FEDERAL
MAP A
Myton
South
PLEASANT
VALLEY
Bench
Pleasant
Valley
DUCHESNE
UINTAH
Duchesne
PARIETTE
BENCH
Wells
Draw
Parietle
Bench
24-3Y
22-10Y
14-8
41-18
21-13Y
21-25Y
44-4Y
EXHIBIT "J"

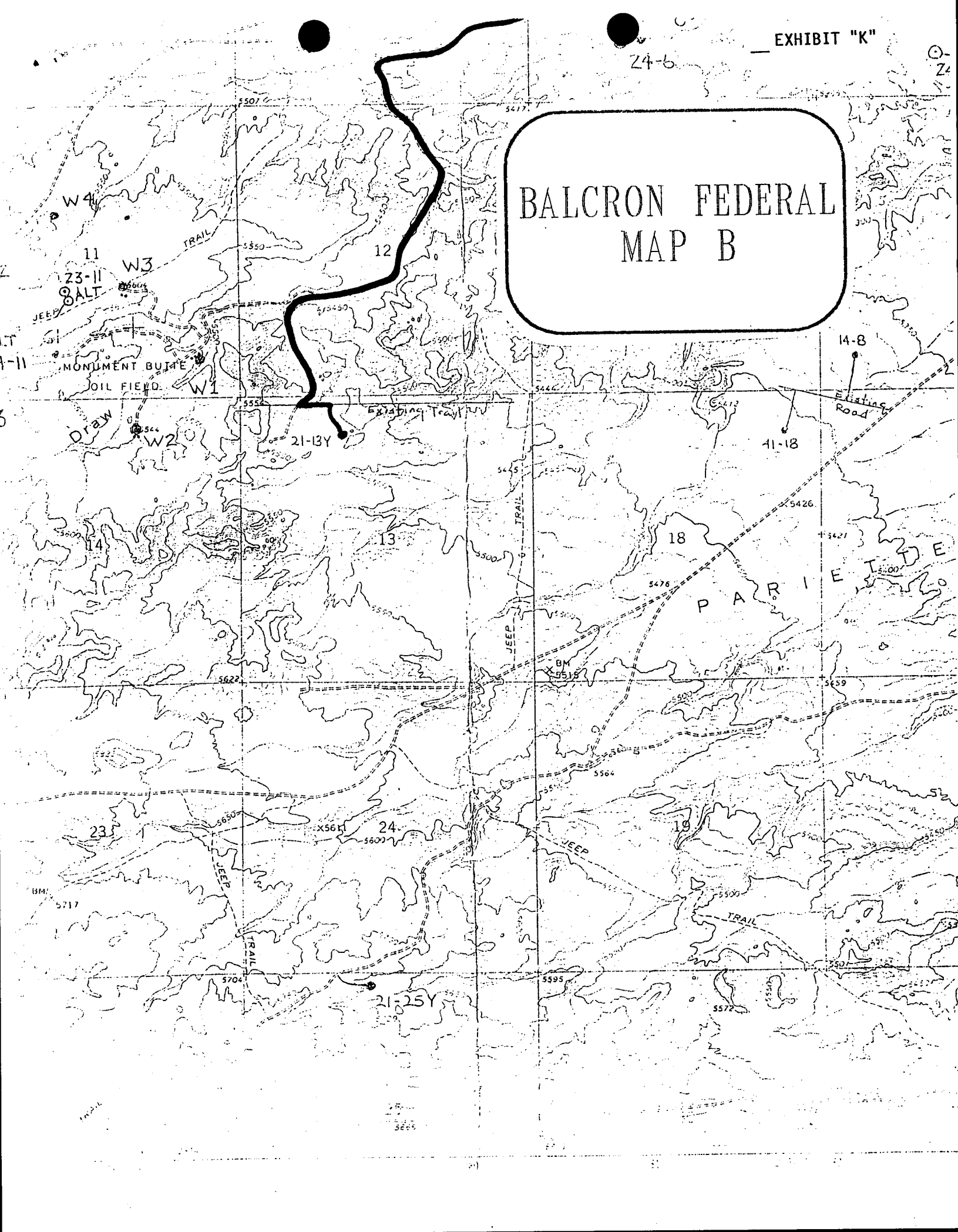
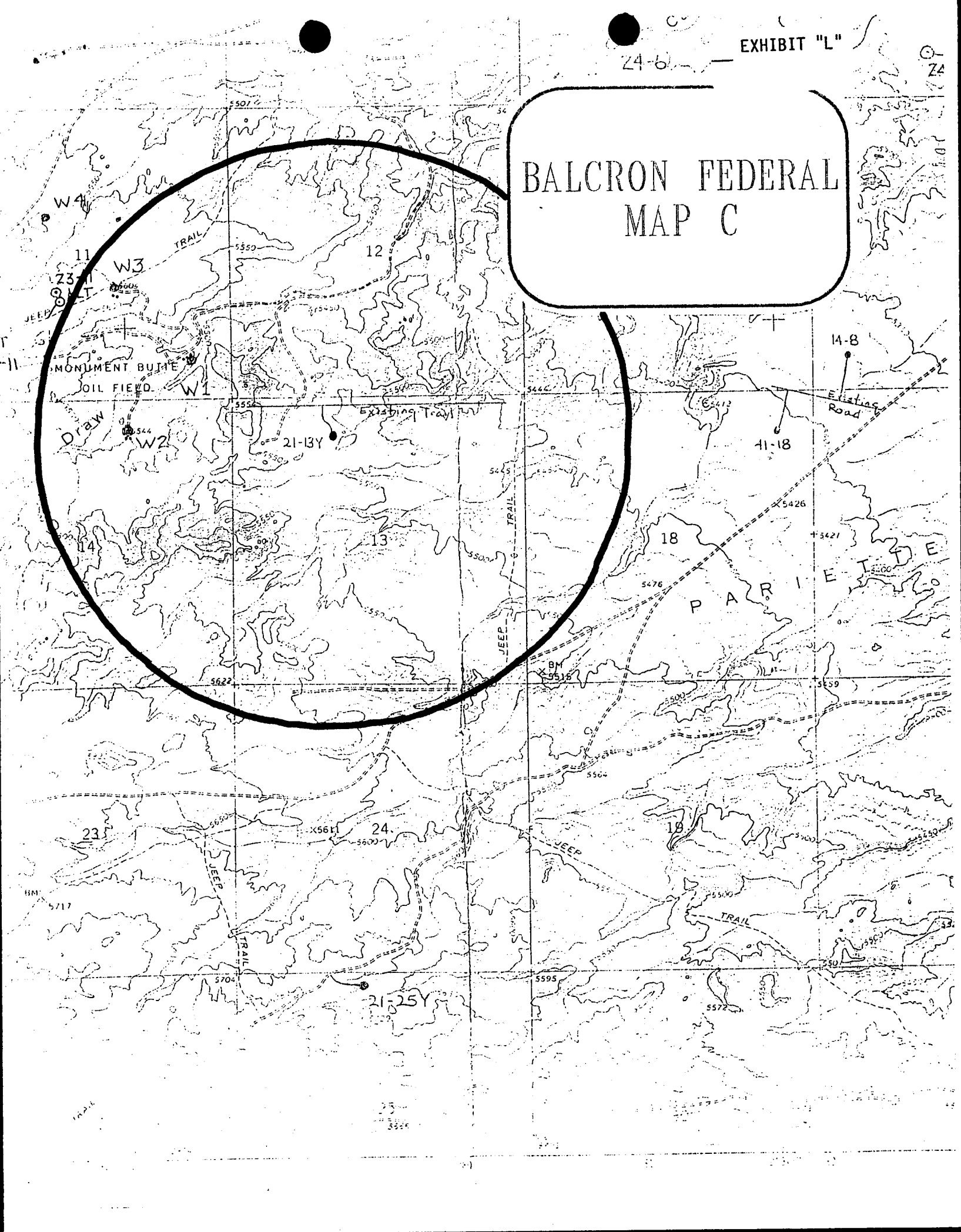


EXHIBIT "K"
24-6
BALCRON FEDERAL
MAP B
W4
11
W3
TRAIL
12
23-11
ALT
JEEP
MONUMENT BUTTE
OIL FIELD
W1
Draw
W2
21-13Y
Existing Travel
14-8
Existing Road
41-18
14
13
18
JEEP TRAIL
PARIETTE
BM
5518
23
24
19
JEEP
TRAIL
21-25Y

EXHIBIT "L"

24-6

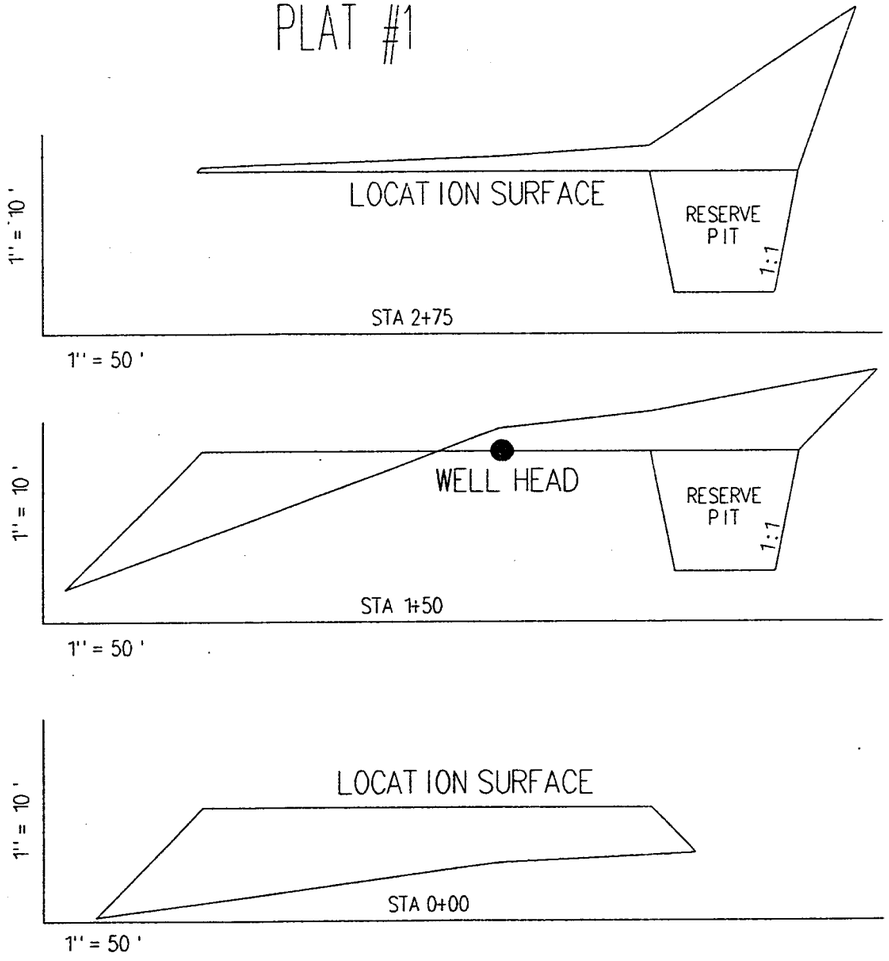
BALCRON FEDERAL
MAP C

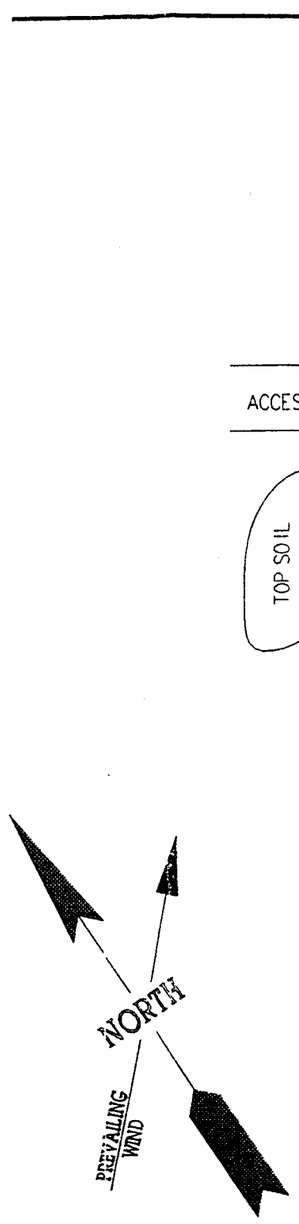


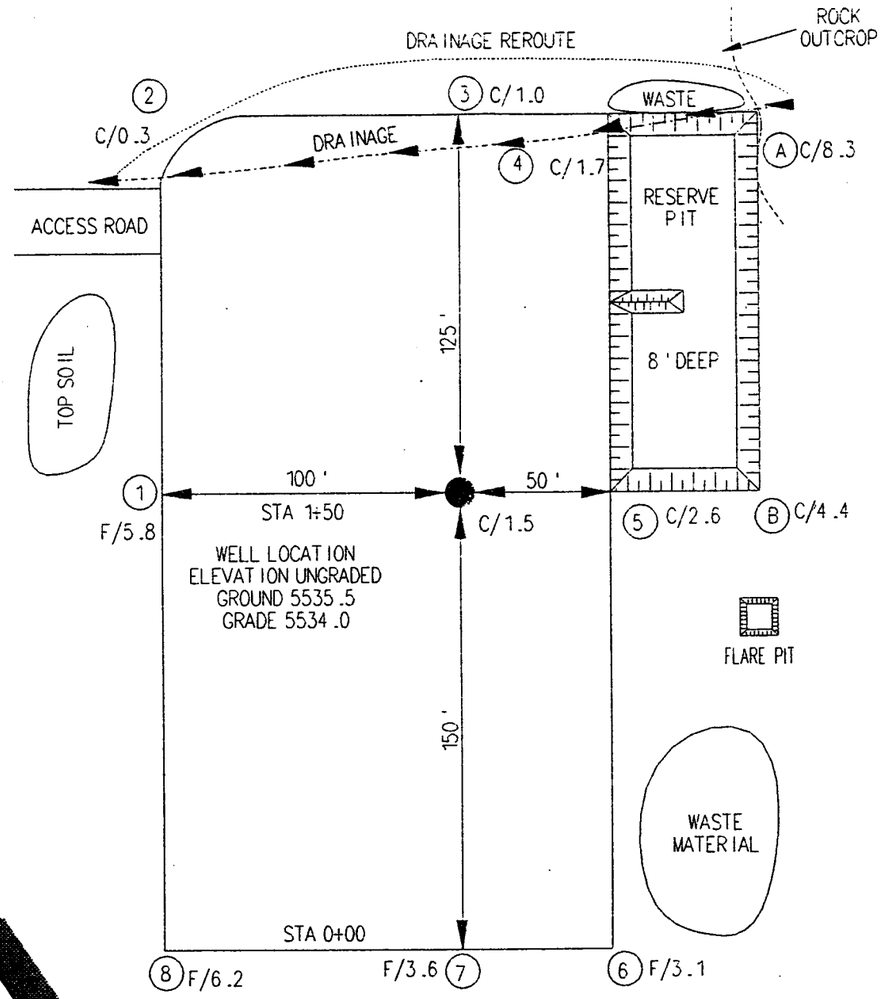
BALCRON FEDERAL

WELL LOCATION # 21-13Y

PLAT #1







REFERENCE POINTS

150' NW - 5526.8
200' NW - 5523.2
175' NE - 5539.5
230' NE - 5550.8

APPROXIMATE YARDAGE

CUT = 1,550 Cu Yds
FILL = 1,510 Cu Yds
PIT = 1,456 Cu Yds
TOP SOIL = 880 Cu Yds

TRI-STATE
LAND SURVEYING, INC.
38 WEST 100 NORTH, VERNAL, UTAH 84078
801-781-2501

FORM 3

CONFIDENTIAL

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. Lease Designation and Serial No.: Federal # U-64805

6. If Indian, Allottee or Tribe Name: n/a

7. Unit Agreement Name: n/a

8. Farm or Lease Name: Balcron Federal

9. Well No.: #21-13Y

10. Field and Pool, or Wildcat: Monument Butte/Green River

11. QQ, Sec., T., R., M., or Blk. and Survey or Area: NE NW Sec. 13,T9S,R16E

12. County or Parrish: Duchesne

13. State: UTAH

1a. Type of Work: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. Type of Well: Oil Well [X] Gas Well [ ] Other — Single Zone [ ] Multiple Zone [ ]

2. Name of Operator: Equitable Resources Energy Company, Balcron Oil Division

3. Address of Operator: P.O. Box 21017; Billings, MT 59104

4. Location of Well (Report location clearly and in accordance with any State requirements.*)
At surface: NE NW Section 13, T9S, R16E 702.7' FNL, 1830.5' FWL
At proposed prod. zone

14. Distance in miles and direction from nearest town or post office*: Approximately 13 miles from Myton, Utah (SW)

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any)

16. No. of acres in lease

17. No. of acres assigned to this well

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.

19. Proposed depth: 5,900'

20. Rotary or cable tools: Rotary

21. Elevations (Show whether DF, RT, GR, etc.): GL 5535.5'

22. Approx. date work will start*: June 1, 1993

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
See attached				

Operator plans to drill well in accordance with attached Federal Application for Permit to Drill.

RECEIVED
MAY 20 1993
DIVISION OF OIL, GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. I hereby certify that this report is true and complete to the best of my knowledge.

Signed: Bobbie Schuman Bobbie Schuman — Title: Coordinator of Environmental and Regulatory Affairs — Date: May 17, 1993

(This space for Federal or State office use)

API NO. ..... Approval Date .....

Approved by ..... Title ..... Date .....
Conditions of approval, if any:

*See Instructions On Reverse Side

(3/89)

EQUITABLE RESOURCES
ENERGY COMPANY
BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104

Office: (406) 259-7860
FAX: (406) 245-1365
FAX: (406) 245-1361

May 18, 1993

State of Utah
Division of Oil, Gas & Mining
355 West North Temple
Salt Lake City, UT 84180

Gentlemen:

Enclosed are Applications for Permit to Drill the wells on the enclosed list.

As operator, we hereby request that the status of these wells be held tight for the maximum period allowed by State regulations.

Sincerely,

Bobbie Schuman

Bobbie Schuman
Coordinator of Operations,
Environmental and Regulatory Affairs

/rs

Enclosures

EQUITABLE RESOURCES ENERGY COMPANY,
BALCRON OIL DIVISION

MONUMENT BUTTE DRILLING PROGRAM

Balcron Federal #21-25Y
NE NW Section 25, T9S, R16E
Duchesne County, Utah
198.4' FNL, 2302.2' FWL
FLS #U-64380
PTD 5,650'
GL 5684.9'

Balcron Federal #41-21Y
NE NE Section 21, T9S, R16E
Duchesne County, Utah
970.2' FNL, 893.8' FEL
FLS #U-64379
PTD 6,000'
GL 5953.5'

Balcron Federal #24-3Y
SE SW Section 3, T9S, R17E
Duchesne County, Utah
561.8' FSL, 1887.2' FWL
FLS #U-64381
PTD 5,950'
GL 5099.1'

Balcron Federal #21-9Y
NE NW Section 9, T9S, R16E
Duchesne County, Utah
476.2' FNL, 2051' FWL
FLS #U-65207
PTD 6,190'
GL 5747.3'

Balcron Federal #21-13Y
NE NW Section 13, T9S, R16E
Duchesne County, Utah
702.7' FNL, 1830.5' FWL
FLS #U-64805
PTD 5,900'
GL 5535.5'

Balcron Federal #22-10Y
SE NW Section 10, T9S, R17E
Duschene County, Utah
1980' FNL, 1980' FWL
FLS #U-65210
PTD 5,850'
GL 5121.9'

EQUITABLE RESOURCES ENERGY COMPANY,
BALCRON OIL DIVISION

MONUMENT BUTTE DRILLING PROGRAM

Balcron Federal #44-14Y
SE SE Section 14, T9S, R17E
Duchesne County, Utah
1008.2' FSL, 832.3' FEL
FLS #U-64806
PTD 5,700'
GL 5164.3'

Balcron Monument Federal #14-8
SW SW Section 8, T9S, R17E
Duchesne County, Utah
660' FSL, 660' FWL
FLS #U-007978
PTD 5,950'
GL 5370.6'

Balcron Monument Federal #41-18
NE NE Section 18, T9S, R17E
Uintah County, Utah
660' FNL, 660' FEL
FLS #U-3563-A
PTD 5,900'
GL 5406.3'

5/17/93
/rs

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

DATE RECEIVED: 05/20/93

OPERATOR: EQUITABLE RESOURCES OPERATOR ACCT NO: N-9890
WELL NAME: BALCRON FEDERAL 21-13Y

API NO. ASSIGNED: 43-013-31400

LEASE TYPE: FED LEASE NO: U-64805
LOCATION: NENW 13 - T09S - R16E DUCHESNE COUNTY
FIELD: MONUMENT BUTTE (105) FIELD CODE: 105

RECEIVED AND/OR REVIEWED:

- ✓ Plat
- ✓ Bond (Number federal)
- ✓ Potash (Y/N)
- ✓ Oil shale (Y/N)
- ✓ Water permit (Number 43-9974 a-14284)
- ✓ RDCC Review (Y/N) (Date:)

LOCATION AND SITING:

- ___ R649-2-3. Unit: ___
- ✓ R649-3-2. General.
- ___ R649-3-3. Exception.
- ___ Drilling Unit. Board Cause no: ___ Date: ___

COMMENTS: No addl producing wells within Sec 13.

CONFIDENTIAL PERIOD EXPIRED ON 10-16-94

STIPULATIONS:

cc: Duchesne County Assessor

EQUITABLE RESOURCES Co | 43-013-31400

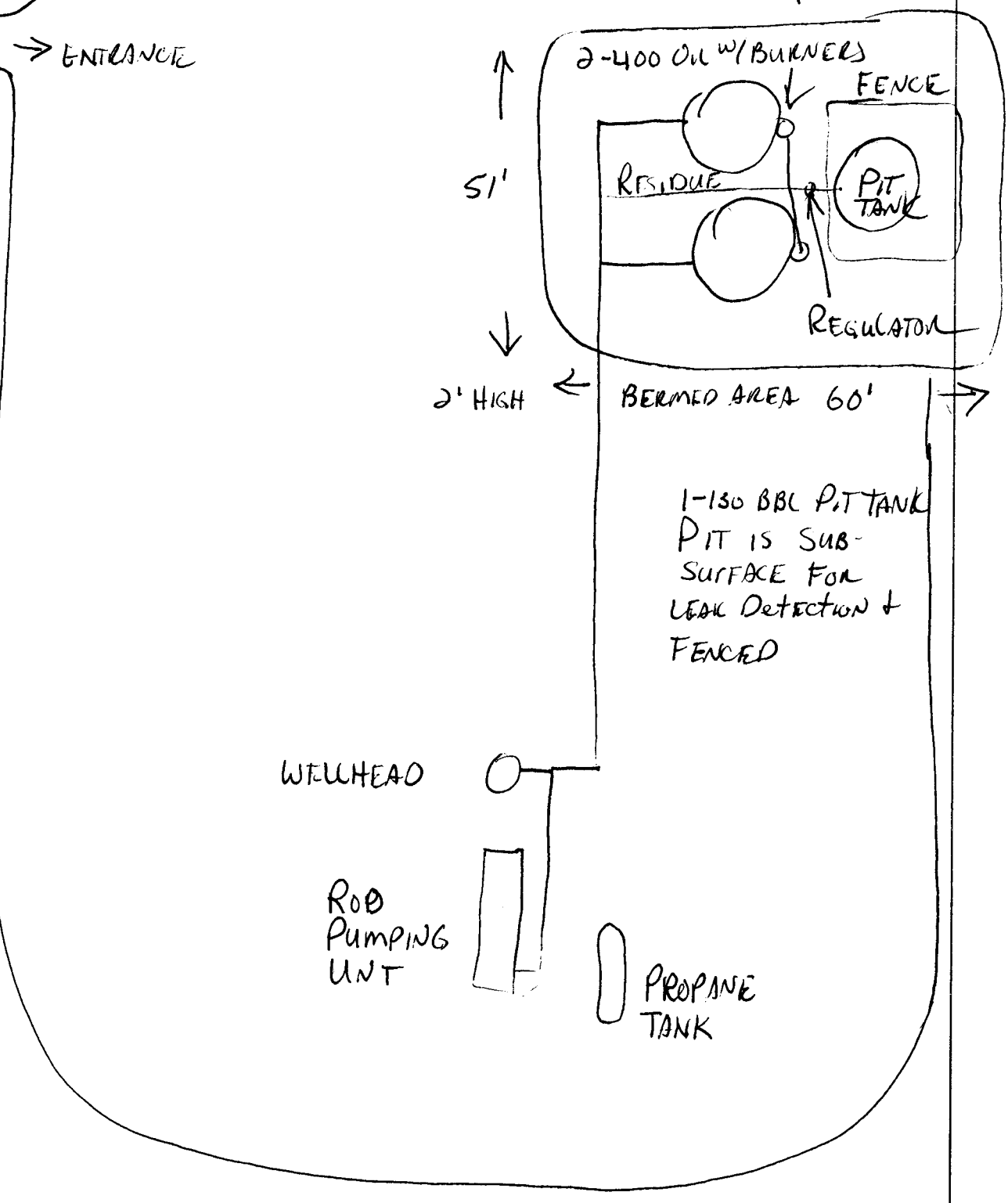
BALCRON FED # 21-13Y

NE/NW SEC 13 T9S R16E

1/20/94 DPL

14-12

24-12



EQUITABLE RESOURCES
ENERGY COMPANY

BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104

Office: (406) 259-7860
FAX: (406) 245-1365
FAX: (406) 245-1361

June 2, 1993

-- VIA FEDERAL EXPRESS --

Bureau of Land Management
170 South 500 East
Vernal, UT 84078

Gentlemen:

As requested, enclosed is a copy of the State Water Use Authorization (Water User Claim No. 43-9974) which is the water source we propose to use for drilling the wells on the enclosed list. Also enclosed as requested is an explanation of the composition of the thrifty lite cement including water, all additives, and stating its yield.

Am I correct in assuming that the 30-day posting period began as of the date the Notice of Staking was received by your office (May 3 according to the date agreed upon at the onsite inspections held May 5-6) as required and stated by 43 CFR 3162.3-1(g) rather than the May 20 date the APD was received by your office? If my interpretation of 43 CFR 3162.3-1(g) is incorrect, I would appreciate a call to discuss this.

If you need further information or have any questions, please call.
Sincerely,

Bobbie Schuman

Bobbie Schuman
Coordinator of Operations,
Environmental and Regulatory Affairs

/rs

Enclosures

cc: Utah Division of Oil, Gas and Mining

MONUMENT BUTTE DRILLING PROGRAM

==========

Balcron Federal #21-25Y
NE NW Section 25, T9S, R16E
Duchesne County, Utah
198.4' FNL, 2302.2' FWL
FLS #U-64380
PTD 5,650'
GL 5684.9'

Balcron Federal #41-21Y
NE NE Section 21, T9S, R16E
Duchesne County, Utah
970.2' FNL, 893.8' FEL
FLS #U-64379
PTD 6,000'
GL 5953.5'

Balcron Federal #24-3Y
SE SW Section 3, T9S, R17E
Duchesne County, Utah
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PTD 5,950'
GL 5099.1'

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NE NW Section 9, T9S, R16E
Duchesne County, Utah
476.2' FNL, 2051' FWL
FLS #U-65207
PTD 6,190'
GL 5747.3'

Balcron Federal #21-13Y
NE NW Section 13, T9S, R16E
Duchesne County, Utah
702.7' FNL, 1830.5' FWL
FLS #U-64805
PTD 5,900'
GL 5535.5'

Balcron Federal #22-10Y
SE NW Section 10, T9S, R17E
Duschene County, Utah
1980' FNL, 1980' FWL
FLS #U-65210
PTD 5,850'
GL 5121.9'

MONUMENT BUTTE DRILLING PROGRAM

==========

Balcron Federal #44-14Y
SE SE Section 14, T9S, R17E
Duchesne County, Utah
1008.2' FSL, 832.3' FEL
FLS #U-64806
PTD 5,700'
GL 5164.3'

Balcron Monument Federal #14-8
SW SW Section 8, T9S, R17E
Duchesne County, Utah
660' FSL, 660' FWL
FLS #U-007978
PTD 5,950'
GL 5370.6'

Balcron Monument Federal #41-18
NE NE Section 18, T9S, R17E
Uintah County, Utah
660' FNL, 660' FEL
FLS #U-3563-A
PTD 5,900'
GL 5406.3'

6/2/93
/rs

APPLICATION FOR PERMANENT CHANGE OF WATER

RECEIVED APR 17 1987 WATER RIGHTS SALT LAKE

Rec. by DL Fee Paid $ 15.00 Receipt # 27150 Microfilmed ____ Roll # ____

STATE OF UTAH

For the purpose of obtaining permission to make a permanent change of water in the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

*WATER USER CLAIM NO. 43 - 9974 *APPLICATION NO. a-14289

Changes are proposed in (check those applicable)

____ point of diversion. ____ point of return.

✓ place of use. ✓ nature of use.

1. OWNER INFORMATION

Name: Owen Dale Anderson *Interest: ____%

Address: PO Box 1168 Vernal UT 84078

2. *PRIORITY OF CHANGE: ____ *FILING DATE: ____

*Is this change amendatory? (Yes/No): ____

3. RIGHT EVIDENCED BY: 43 - 3525

Prior Approved Change Applications for this right: 83-43-21 84-43-73 & 14099

********** HERETOFORE **********

4. QUANTITY OF WATER: 0.5 cfs and/or ____ ac-ft.

5. SOURCE: U.G.W. (well)

6. COUNTY: Duchesne

7. POINT(S) OF DIVERSION: South 1167 ft East 340 ft from N ¼ Corner Section 27 T1S, R3W, USB+M

Description of Diverting Works: ____

8. POINT(S) OF REDIVERSION

The water will be rediverted from ____ at a point: ____

Description of Diverting Works: ____

9. POINT(S) OF RETURN

The amount of water consumed is ____ cfs or ____ ac-ft.

The amount of water returned is ____ cfs or ____ ac-ft.

The water will be returned to the natural stream/source at a point(s): ____

*These items are to be completed by Division of Water Rights.

10. NATURE AND PERIOD OF USE

Stockwatering:	From Jan 1	to Dec 31
Domestic:	From	to
Municipal:	From	to
Mining:	From	to
Power:	From	to
Other:	From Jan 1	to Dec 31
Irrigation:	From April 1	to Oct 31

11. PURPOSE AND EXTENT OF USE

Stockwatering (number and kind): 250 Livestock Units

Domestic: ____ Families and/or ____ Persons.

Municipal (name): ____

Mining: ____ Mining District in the ____ Mine.

Ores mined: ____

Power: Plant name: ____ Type: ____ Capacity: ____

Other (describe): drilling & completion of oil field locations Fish Culture

Irrigation: 55.7 acres. Sole supply of ____ acres

12. PLACE OF USE

Legal description of areas of use ~~other than irrigation~~ by 40 acre tract: D/a

13. STORAGE

Reservoir Name: Unnamed Storage Period: from 11-1 to 3-31

Capacity: 4.0 ac-ft. Inundated Area: ____ acres

Height of dam: ____ feet

Legal description of inundated area by 40 tract: NW NE Sec. 27, T1S R2W 2.5 ± A

********** THE FOLLOWING CHANGES ARE PROPOSED **********

14. QUANTITY OF WATER: ____ cfs and/or 20.0 ac-ft

15. SOURCE: UGW Remaining Water: same

16. COUNTY: Duchesne

17. POINT(S) OF DIVERSION: same

Description of Diverting Works: ____

18. POINT(S) OF REDIVERSION

The water will be rediverted from ____ at a point: ____

Description of Diverting Works: ____

19. POINT(S) OF RETURN

The amount of water consumed is _____ cfs or _____ ac-ft

The amount of water returned is _____ cfs or _____ ac-ft

The water will be returned to the natural stream/source at a point(s): _____

20. NATURE AND PERIOD OF USE

Stockwatering: From _____ to _____

Domestic: From _____ to _____

Municipal: From _____ to _____

Mining: From _____ to _____

Power: From _____ to _____

Other: From Jan 1 to Dec 31

Irrigation: From _____ to _____.

21. PURPOSE AND EXTENT OF USE

Stockwatering (number and kind): _____

Domestic: _____ Families and/or _____ Persons

Municipal (name): _____

Mining: _____ Mining District in the _____ Mine

Ores mined: _____

Power: Plant name: _____ Type: _____ Capacity: _____

Other (describe): drilling and completion of oil wells

Irrigation: _____ _____ acres. Sole supply of _____

22. PLACE OF USE

Legal description of areas of use by 40 acre tract: _____

Other: hauled to locations by water trucks as needed

23. STORAGE

Reservoir Name: _____ Storage Period: from _____ to _____

Capacity: _____ ac-ft. Inundated Area: _____ acres

Height of dam: _____ feet

Legal description of inundated area by 40 tract: _____

24. EXPLANATORY

The following is set forth to define more clearly the full purpose of this application. Include any supplemental water rights used for the same purpose. (Use additional pages of same size if necessary): _____

Change is for oilfield drilling and exploration. Approximately 4 acre ft/year will be taken from irrigation purposes and used for oilfield purposes. Acres to be irrigated will change from ~~55.7~~ 52.7 to ~~50~~ 47.7 acres

****

he undersigned hereby acknowledges that even though he/she/they may have been assisted in the preparation f the above-numbered application through the courtesy of the employees of the Division of Water Rights, all esponsibility for the accuracy of the information contained herein, at the time of filing, rests with the pplicant(s).

Signature of Applicant(s)

DV040145

PRODUCT DESCRIPTIONS

CELLO-SEAL

Graded (3/8 to 3/4 inch) cellophane flakes used as a lost circulation material.

CSE

Compressive Strength Enhancer - Fumed Silica. An additive which contributes to low density, high compressive strength development of cement slurries at all temperature ranges. This material also controls free water without the need for standard extenders.

CLASS G CEMENT (API) [Premium Cement]

Intended for use as a basic cement from surface to 8000 Ft. as manufactured, or can be used with accelerators and retarders to cover a wide range of well depths and temperatures.

SODIUM CHLORIDE (NaCl)

Commonly called salt, is used to reduce damage caused by cement filtrate and to promote better bonding. At low concentration, less than 10% by weight of mixing water, it acts as an accelerator, while at concentrations greater than 15-18%, it will retard thickening time and strength development.

THRIFTY LITE

Anhydrous sodium metasilicate compound used as an extender for cement slurries. Thrifty Lite yields a very economical filler slurry on a cost per cu. ft. of slurry basis and is a mild accelerator that will cause the slurry to set at low temperatures.

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

June 21, 1993

Equitable Resources Energy Company
P.O. Box 21017
Billings, Montana 59104

Gentlemen:

Re: Balcron Federal #21-13Y Well, 703' FNL, 1830.5' FWL, NE NW, Sec. 13, T. 9 S, R. 16 E, Duchesne County, Utah

Pursuant to Utah Admin. R. 649-3-2, Location and Siting of Wells and Utah Admin. R. 649-3-4, Permitting of Wells to be Drilled, Deepened or Plugged-Back, approval to drill the referenced well is hereby granted.

In addition, the following specific actions are necessary to fully comply with this approval:

1. Compliance with the requirements of Utah Admin. R. 649-1 et seq., Oil and Gas Conservation General Rules.

2. Notification within 24 hours after drilling operations commence.

3. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.

4. Submittal of the Report of Water Encountered During Drilling, Form 7.

5. Prompt notification prior to commencing operations, if necessary, to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or R.J. Firth, Associate Director, (Home) (801)571-6068.

6. Compliance with the requirements of Utah Admin. R. 649-3-20, Gas Flaring or Venting, if the well is completed for production.

Trash and sanitary waste should be properly contained and transported to approved disposal locations, not retained in or disposed of in pits on location or downhole. Prior to the commencement of drilling operations, the operator should consult the local/county sanitarian and/or the Department of Environmental Quality, Division of Drinking Water/Sanitation, regarding appropriate disposal of sanitary waste.

This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-013-31400.

Sincerely,

R.J. Firth
Associate Director, Oil and Gas

ldc
Enclosures
cc: Bureau of Land Management
Duchesne County Assessor
J.L. Thompson
WOI1

Form 3160-3
(November 1983)
(formerly 9-331C)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: U-64805

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: n/a

7. UNIT AGREEMENT NAME: n/a

8. FARM OR LEASE NAME: Balcron Federal

9. WELL NO.: #21-13Y

10. FIELD AND POOL, OR WILDCAT: Monument Butte/Green Rive

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 13, T9S, R16E

12. COUNTY OR PARISH: Duchesne | 13. STATE: UTAH

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER — SINGLE ZONE [ ] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: EQUITABLE RESOURCES ENERGY COMPANY

CONFIDENTIAL

3. ADDRESS OF OPERATOR: P.O. Box 21017; Billings, MT 59104 (Balcron Oil Division)

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: NE NW Section 13, T9S, R16E 702.7' FNL, 1830.5' FWL
At proposed prod. zone

43-013-31400

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: Approximately 13 miles SW of Myton, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	19. PROPOSED DEPTH: 5,900'	20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): GL 5535.5'

22. APPROX. DATE WORK WILL START*: June 1, 1993

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
See attached for details.				

RECEIVED
JUL 12 1993

EXHIBITS ATTACHED

"A" PROPOSED DRILLING PROGRAM
"B" PROPOSED SURFACE USE PROGRAM
"C" GEOLOGIC PROGNOSIS
"D" DRILLING PROGRAM/CASING DESIGN
"E" EVIDENCE OF BOND COVERAGE
"F" ARCHEOLOGY REPORT
"G" SURVEY PLAT
"H" BOPE SCHEMATIC
"I" RIG LAYOUT
"J" EXISTING ROADS (Map A)
"K" PLANNED ACCESS (Map B)
"L" EXISTING WELLS (Map C)
"M" CUT & FILL DIAGRAM

RECEIVED
MAY 20 1993

SELF CERTIFICATION: I hereby certify that I am authorized, by proper lease interest owner, to conduct these operations associated with the application. Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Equitable Resources Energy Company as principal and Safeco Insurance Company of America as surety under BLM Bond No. MT 0576 (Nationwide Oil & Gas Bond #5547188) who will be responsible for compliance with all of the terms and conditions of that portion of the lease associated with this application.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED Bobbie Schuman — TITLE Coordinator of Environmental and Regulatory Affairs — DATE May 17, 1993

Bobbie Schuman

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY Edwin L. Forman acting — TITLE ASSISTANT DISTRICT MANAGER MINERALS — DATE JUL [illegible] 1993

CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

UT080-3M-048

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the

CONDITIONS OF APPROVAL
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Equitable Resources Energy Company

API Number: 43-013-31400

Well Name & Number: Balcron Federal 21-13Y

Lease Number: U-64805

Location: NENW Sec. 13 T. 9S R. 16E

Surface Ownership: Federal Lands administered by BLM

Date NOS Received: May 3, 1993

Date APD Received: May 20, 1993

NOTIFICATION REQUIREMENTS

Location Construction	-	at least forty-eight (48) hours prior to construction of location and access roads.
Location Completion	-	prior to moving on the drilling rig.
Spud Notice	-	at least twenty-four (24) hours prior to spudding the well.
Casing String and Cementing	-	at least twenty-four (24) hours prior to running casing and cementing all casing strings.
BOP and Related Equipment Tests	-	at least twenty-four (24) hours prior to initiating pressure tests.
First Production Notice	-	within five (5) business days after new well begins, or production resumes after well has been off production for more than ninety (90) days.

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

DRILLING PROGRAM

1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

   Report ALL water shows and water-bearing sands to Tim Ingwell of this office. Copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

   All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

2. Pressure Control Equipment

   The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a 2M system and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

   Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

   The Vernal District Office shall be notified, at least 24 hours prior to initiating the pressure tests, in order to have a BLM representative on location during pressure testing.

3. Casing Program and Auxiliary Equipment

   Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint.

As a minimum, the usable water and oil shale resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the base of the usable water zone, identified at ± 1,540 ft. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

The Vernal District Office shall be notified at least 24 hours prior to the running and cementing of all casing strings, in order to have a BLM representative on location while running and cementing all casing strings.

4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the AO. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the AO.

A cement bond log (CBL) will be run from the production casing shoe to ± 1,340 ft. and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

The Vernal District Office shall be notified, during regular work hours (7:45 a.m.-4:30 p.m., Monday through Friday except holidays), at least 24 hours **prior** to spudding the well.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) days following the date on which the well is placed on production.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within thirty (30) days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling onlease or off-lease will have prior written approval from the AO.

Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried or anchored down from the wellhead to the meter and within 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to $10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approvals are necessary, please contact one of the following individuals:

Gerald E. Kenczka (801) 781-1190
Petroleum Engineer

Ed Forsman (801) 789-7077
Petroleum Engineer

BLM FAX Machine (801) 781-4410

EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

Unused fracturing fluids or acids

Gas plant cooling tower cleaning wastes

Painting wastes

Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spend solvents, spilled chemicals, and waste acids

Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste

Refinery wastes

Liquid and solid wastes generated by crude oil and tank bottom reclaimers

Used equipment lubrication oils

Waste compressor oil, filters, and blowdown

Used hydraulic fluids

Waste solvents

Waste in transportation pipeline-related pits

Caustic or acid cleaners

Boiler cleaning wastes

Boiler refractory bricks

Incinerator ash

Laboratory wastes

Sanitary wastes

Pesticide wastes

Radioactive tracer wastes

Drums, insulation and miscellaneous solids.

SURFACE USE PLAN OF OPERATION
Conditions of Approval (COAs)

Methods for Handling Waste Disposal

If a plastic reinforced liner is used, it will be a minimum of 12 mil thickness with sufficient bedding (either straw or dirt) to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc., that could puncture the liner will be disposed of in the pit. More stringent protective requirements may be deemed necessary by the AO.

Additional Surface Conditions of Approval

Fall seeding is preferred and will be done after September 15 and before the ground freezes. Spring seeding will be done prior to April 15.

The requested emergency pit is hereby approved under NTL-2B, Section VI, subject to the following Conditions of Approval:

1. If emergency use occurs, the emergency pit shall be emptied and the liquids disposed of in accordance with applicable State and/or Federal regulations within 48 hours following its use, unless such time is extended by the authorized officer.

2. As much as practicable, the emergency pit shall be located on level ground, and away from drainage patterns and unstable ground.

3. The emergency pit shall be fenced and the fence maintained for safety, and to prevent livestock and wildlife entry. The pit shall be fenced according to the same minimum standards listed for drilling the reserve pit under Point 9E of the Multi-point Surface Use and Operation Plan. The fence shall be maintained in a taut condition. Fences shall not be built on berms.

4. Produced water drain lines shall not go to the emergency pit.

5. The pit shall be bermed or otherwise constructed and maintained to prevent entrance of surface water.

6. Turn downs shall be put on the ends of pipes to direct fluids downward instead of against the wall of the pit.

7. The pit shall be kept free of trash.

Balcron shall contact a Utah BLM certified Paleontologist to survey the location and access road prior to surface disturbance to determine the presence of paleontologist resources.

If historic, archaeological, or paleontological resources are uncovered during ground disturbing activities, Balcron will suspend all operations that would further disturb such materials and immediately contact the BLM Authorized Officer.

For the protection of Mountain Plover nesting and the rearing of their young, drilling activities will not be allowed between March 15 and July 15.

MINIMUM STANDARDS FOR DAMS IMPOUNDING UNDER 10 AC. FT.

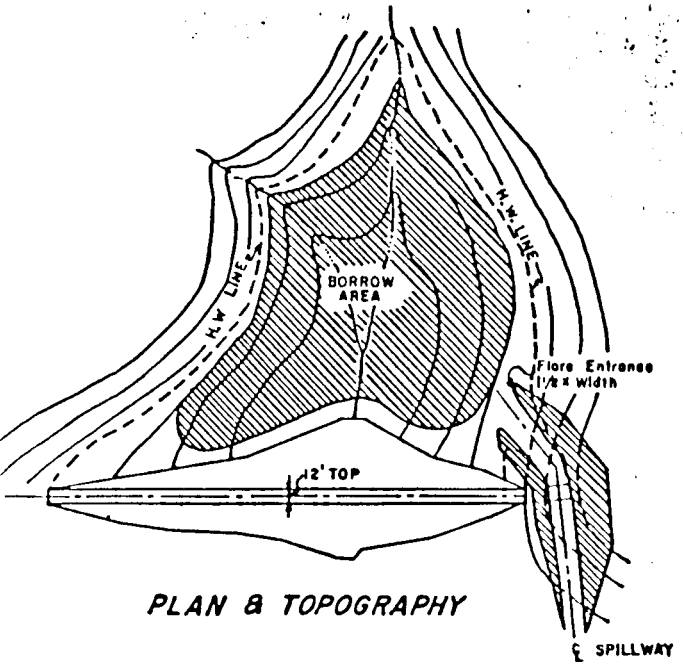
I. Site Location and Design
   A. Authorized BLM personnel must approve site location, fill material, foundation material, spillway size and location.
   B. Dam layout and location shall be with surveying instruments by qualified personnel.

II. Borrow Areas
   A. Borrow material shall be taken from within the reservoir basin below the high water line whenever possible.
   B. Vegetation, debris, and topsoil shall be removed to a depth of 12" below natural ground line and deposited as directed.
   C. Vegetation, debris, and topsoil shall be stockpiled to be used as cover for borrow areas above the high water line as directed.
   D. Vegetation, debris and topsoil moved below the dam shall be contoured, smoothed and blended into natural ground lines away from fill areas and outside the wash bottom.
   E. Borrow areas shall be smoothed, contoured and blended into natural ground lines.

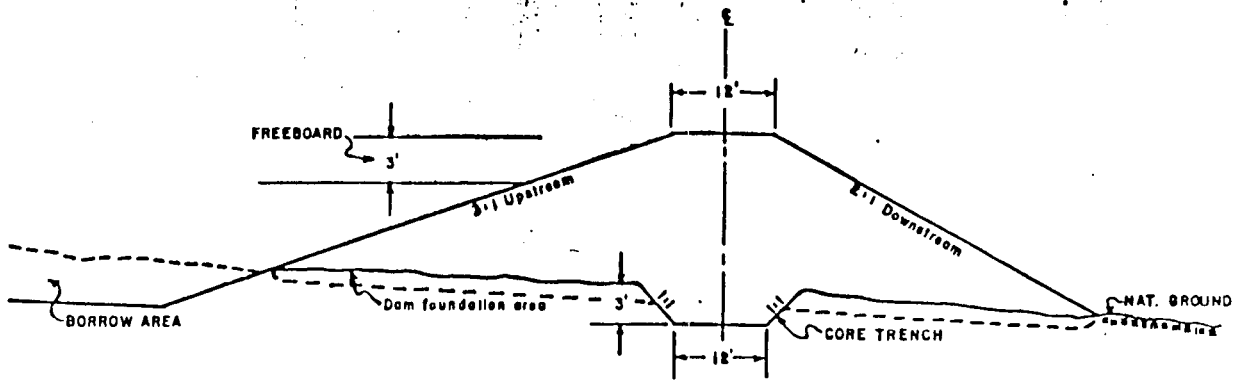
III. Core Trench and Dam Foundation
   A. A core trench shall be constructed 12' wide along the full length of the dam center line to a minimum depth of 3' or bedrock.
   B. Sides of the core trench shall not be steeper than 1:1 slopes.
   C. Soft or unstable material encountered in the core trench or dam foundation shall be removed and will not be used as fill.

IV. Dam and Core Fill
   A. Fill shall be homogeneous material, preferably of highly impervious, compactable soils (such as high clay content soils free of organic material, sand or rock).
   B. Lifts of fill shall not exceed 6" when compacted.
   C. Fill shall be built up at a consistant rate the full length of the dam.
   D. Lifts shall be compacted by at least one pass of the crawler tractor over the entire width of the lift.
   E. Fill shall be smoothed, maintaining specified slopes.

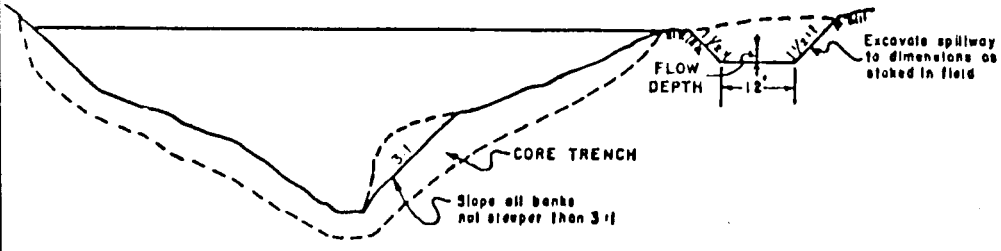
V. Spillway
   A. Spillway shall be constructed through natural material.
   B. Spillway shall be constructed to divert overflow away from fill areas or natural material that is an integral part of the dam.
   C. Incorporate in-place rock or hauled-in rock in spillway and at discharge point below spillway to prevent "down cutting" and "blowout" holes, when possible.



PLAN & TOPOGRAPHY



CROSS SECTION



PROFILE

MINIMUM STANDARDS FOR DAMS
IMPOUNDING UNDER 10 AC. FT.

1. BLM PERSONNEL MUST APPROVE SITE LOCATION, FILL MATERIAL, FOUNDATION MATERIAL, SPILLWAY SIZE AND LOCATION.
2. DAM LAYOUT & LOCATION MUST BE WITH SURVEYING INSTRUMENTS BY QUALIFIED SURVEYOR,
3. MAX. WATER DEPTH AGAINST THE DAM WILL BE 10' WHEN CONSTRUCTED WITH A CRAWLER TRACTOR.
4. SOIL WILL BE PLACED IN NOT MORE THAN 6" LIFTS AND EACH LIFT COMPACTED WITH A CRAWLER TRACTOR.
5. SPILLWAY MUST BE THROUGH NATURAL MATERIAL.
6. A COAR TRENCH WILL BE CONSTRUCTED 3' DEEP OR TO BED ROCK.
7. BORROW MATERIAL WILL BE TAKEN FROM WITHIN THE RESERVOIR BASIN BELOW THE HIGH WATER MARK WHENEVER POSSIBLE.

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RETENTION DAM
TYPICAL PLAN & SECTION

DESIGNED	RECOMM.
DRAWN	RECOMM. CHIEF, DIV. OF ENG
CHECKED	APPROVED
SCALE NOT TO SCALE	
DATE	SHEET 1 OF 1
DRAWING NO.	

ALWAYS THINK SAFETY OPO 830-178

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

CONFIDENTIAL

5. Lease Designation and Serial No.: U-64805

6. If Indian, Allottee or Tribe Name: n/a

7. If Unit or CA, Agreement Designation: n/a

1. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.: Balcron Federal #21-13Y

2. Name of Operator: Equitable Resources Energy Company, Balcron Oil Division

9. API Well No.: 43-013-31400

3. Address and Telephone No.: P.O. Box 21017; Billings, MT 59104 (406) 259-7860

10. Field and Pool, or Exploratory Area: Monument Butte/Grn.River

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NE NW Section 13, T9S, R16E
702.7' FNL, 1830.5' FWL

11. County or Parish, State: Duchesne County, UTAH

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[X] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other change in water source	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Operator has changed the source of water for drilling purposes from Owen Dale Anderson's well and Dalbo Trucking as shown in the APD. The source will be from an approved source in Section 15, T4S, R2W from a well permitted by Joe Shields under Permit #57708. A copy of that permit is attached to this sundry. The water will be trucked by Jim Nebeker Trucking out of Roosevelt, Utah.

14. I hereby certify that the foregoing is true and correct

Signed Bobbie Schuman Title Coordinator of Environmental and Regulatory Affairs Date August 3, 199

Bobbie Schuman

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

Form 97 2M 10-70

Application No. 57708

APPLICATION TO APPROPRIATE WATER
STATE OF UTAH

47 - 1674

NOTE:—The information given in the following blanks should be free from explanatory matter, but when necessary, a complete supplementary statement should be made on the following page under the heading "Explanatory."

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, for uses indicated by (X) in the proper box or boxes, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

1. Irrigation [X] Domestic [ ] Stockwatering [ ] Municipal [ ] Power [ ] Mining [ ] Other Uses [X]
2. The name of the applicant is Joe Shields
3. The Post Office address of the applicant is Myton, Utah 84052
4. The quantity of water to be appropriated .015 second-feet and/or ..... acre-feet
5. The water is to be used for Stockwatering & Other (Major Purpose) from ..... (Month) ..... (Day) to ..... (Month) ..... (Day)

   other use period Irrigation (Minor Purpose) from Apr. 1 (Month) (Day) to Oct. 31 (Month) (Day)

   and stored each year (if stored) from ..... (Month) ..... (Day) to ..... (Month) ..... (Day)
6. The drainage area to which the direct source of supply belongs is ..... (Leave Blank)
7. The direct source of supply is* Drain (Name of stream or other source)

   which is tributary to ....., tributary to .....

*Note.. Where water is to be diverted from a well, a tunnel, or drain, the source should be designated as "Underground Water" in the first space and the remaining spaces should be left blank. If the source is a stream, a spring, a spring area, or a drain, so indicate in the first space, giving its name, if named, and in the remaining spaces, designate the stream channels to which it is tributary, even though the water may sink, evaporate, or be diverted before reaching said channels. If water from a spring flows in a natural surface channel before being diverted, the direct source should be designated as a stream and not a spring.

8. The point of diversion from the source is in Duchesne County, situated at a point*
West 900 ft. South 1100ft. from E½ Cor. Sec. 15, T4S,R2W, USB&M
(3½ Miles SW of Myton)
Myton Quad.

*Note.—The point of diversion must be located definitely by course and distance or by giving the distances north or south, and east or west with reference to a United States land survey corner or United States mineral monument, if within a distance of six miles of either, or if at a greater distance, to some prominent and permanent natural object. No application will be received for filing in which the point of diversion is not defined definitely.

9. The diverting and carrying works will consist of a collection ditch to place of use

10. If water is to be stored, give capacity of reservoir in acre-feet ..... height of dam .....
    area inundated in acres ..... legal subdivision of area inundated .....

11. If application is for irrigation purposes, the legal subdivisions of the area irrigated are as follows:
NE¼SE¼ Sec. 15, T4S,R2W, USB&M
Total .25 Acres

12. Is the land owned by the applicant? Yes X No ..... If "No," explain on page 2.
13. Is this water to be used supplementally with other water rights? Yes ..... No X
    If "yes," identify other water rights on page 2.
14. If application is for power purposes, describe type of plant, size and rated capacity. .....
15. If application is for mining, the water will be used in ..... Mining District at the ..... mine, where the following ores are mined .....
16. If application is for stockwatering purposes, number and kind of stock watered 320 Cattle
in NE¼SE¼ Sec. 15, T4S,R2W, USB&M
17. If application is for domestic purposes, number of persons ....., or families .....
18. If application is for municipal purposes, name of municipality .....
19. If application is for other uses, include general description of proposed uses 011 Field use
20. Give place of use by legal subdivision of the United States Land Survey for all uses described in paragraphs 14 to 19, incl. Myton Oil Field in Pleasant Valley
21. The use of water as set forth in this application will consume .015 second-feet and/or acre-feet of water and None second feet and/ or acre feet will be returned to the natural stream or source at a point described as follows: .....

EXPLANATORY

The following additional facts are set forth in order to define more clearly the full purpose of the proposed application:

(Use page 4 if additional explanatory is needed.)

The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purpose herein described.

Signature of Applicant*

*If applicant is a corporation or other organization, signature must be the name of such corporation or organization by its proper officer, or in the name of the partnership by one of the partners, and the names of the other partners shall be listed. If a corporation or partnership, the affidavit below need not be filled in. If there is more than one applicant, a power of attorney, authorizing one to act for all, should accompany the Application.

DECLARATION OF CITIZENSHIP

STATE OF UTAH, Uintah County of } ss

On the 10th day of May 19 82, personally appeared before me, a notary public for the State of Utah, the above applicant, who, on oath, declared that he is a citizen of the United States, or has declared his intention to become such a citizen.

My commission expires:

(SEAL) THEODORE BALDWIN NOTARY PUBLIC State of Utah

Notary Public

EQUITABLE RESOURCES
ENERGY COMPANY
BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104

Office: (406) 259-7860
FAX: (406) 245-1365 ☐
FAX: (406) 245-1361 ☒

August 3, 1993

-- VIA FEDERAL EXPRESS --

Bureau of Land Management
170 South 500 East
Vernal, UT 84078

Gentlemen:

Enclosed are paleontology Reports for the following wells:

Balcron Federal #21-13Y 43-013-31400
NE NW Section 13, T9S, R16E
Duchesne County, Utah

Balcron Monument Federal #22-5
SE NW Section 5, T9S, R17E
Duchesne County, Utah

If you have any questions, please feel free to give me a call.

Sincerely,

Bobbie Schuman

Bobbie Schuman
Coordinator of Operations,
Environmental and Regulatory Affairs

/rs

Enclosures

cc: Utah Division of Oil, Gas and Mining

BALCRON OIL

Balcron Monument Butte Federal #21-13Y

NE NW Section 13, T9S, R16E, SLB&M

Duchesne County, Utah

PALEONTOLOGY REPORT

WELLPAD LOCATION AND ACCESS ROAD

BY

ALDEN H. HAMBLIN
PALEONTOLOGIST
235 EAST MAIN
VERNAL, UTAH 84078

JULY 23, 1993

RESULTS OF PALEONTOLOGY SURVEY AT BALCRON MONUMENT BUTTE FEDERAL #21-13Y

Description of Geology and Topography-

This location is about 1/2 mile south of Castle Peak Draw, 12 miles south of Myton, Utah. It is at the southeast and upper end of a small broad bottomed (1/4 mile) valley which drains north to Castle Peak Draw. Hills immediately to the northeast and east rise about 50 feet above the location. On the west the hills rise 60 to 80 feet above the valley floor. The access road follows the drainage in from the north along existing roads until the last 1/8th mile or so.

All rock outcrops in the area are of the Upper Eocene Uinta Formation, known for its fossil vertebrate fauna of mammals, turtles, crocodilians, and occasional fish remains.

Rocks in the immediate area of the proposed access road and wellpad are composed of interbedded mudstone, and sandstone. These rocks represent fluvial (stream) deposits with sandstone lenses representing stream channels in the Uinta Formation.

Paleontological material found -

On the wellpad there is a group of turtle shell fragments weathering out of a gray silt 30 yards south 28 degrees west of the center stake. These have weathered out in small pieces and the condition is poor, but probably represent one turtle or part of a turtle. No other fossil material was seen weathering out of this same layer. There is also one isolated piece of turtle shell 22 yards north 11 degrees east of the center stake.

Another fossil turtle was found west of the access road in the SW corner of the NE1/4 of SW1/4 of SW1/4 ofsection 12. This fossil will not be effected by road construction.

Archeological material found -

A 1 1/2 X 3/4 inch tip of a projectile point was found 27 yards north 48 degrees east of the center stake. It is a mottled light and dark brown color. (This is just mentioned for information purposes. I am not an archeologist and do not make recommendations concerning such.)

Recommendations-

The one group of turtle shell fragments found are in poor condition and, while important as an indicator of the presence of fossil material, is probably not

a collectable specimen. Avoidance of this spot would be preferred, but it appears that this may not be a feasible possibility. It will be recorded as a fossil turtle locality. I am not recommending that it be collected or that the site be monitored. There is some possibility that other fossil material may be encountered during construction. It significant looking fossil bone material is discovered during construction, it should be evaluated by a paleontologist.

Alden H. Hamblin
Paleontologist

Date July 29, 1993

PALEONTOLOGY LOCALITY Data Sheet	Page 1 of 1 plus map State Local. No. 42 DC 116V Agency No. Temp. No BALCRON MONUMENT BUTTE FEDERAL #21-13Y Access Road

1. Type of locality															
Invertebrate		Plant		Vertebrate	X	Trace		Other_____							

2. Formation: UINTA	Horizon: "B"	Geologic Age: Late Eocene

3. Description of Geology and Topography: The road to Balcron Fed #21-13Y goes south up a small canyon. The fossil site is about 1/6th mile from Castle Peak Draw on the west side as the canyon widens out. Hills immediately to the west rise about 60 to 70 feet above the site. Drainage is to the east into the canyon drainage and then into Castle Peak Draw. The access road follows the drainage in from the north along existing an road.

All rock outcrops in the area are of the Upper Eocene Uinta Formation, known for its fossil vertebrate fauna of mammals, turtles, crocodilians, and occasional fish remains.

Rocks in the immediate area of the proposed access road are composed of interbedded mudstone, and sandstone. These rocks represent fluvial (stream) deposits with sandstone lenses representing stream channels in the Uinta Formation.

4. Location of Outcrop: 12 miles south of Myton, Utah.

5. Map Ref.	USGS Quad	Myton SE, Utah	Scale	7.5 Min	Edition	1964

NE1/4	of	SW1/4	of	SW1/4	of Sectn	12	T	9 S	R	16E	Meridn	SLB

6. State: UTAH	County: DUCHESNE COUNTY	BLM/FS District: VERNAL- DIAMOND MT.

7. Specimens Collected and Field Accession No. NONE

8. Repository:

9. Specimens Observed and Disposition: Pieces of while fossil turtle shell 1/2 inch thick, 3 to 4 inches in diameter. *Trionyx*.

10.Owner:															
Private		State		BLM	X	US FS		NPS		IND		MIL		OTHR	

11.Recommendations for Further Work or Mitigation: None. It will not be effected by road construction.

12.Type of Map Made by Recorder:

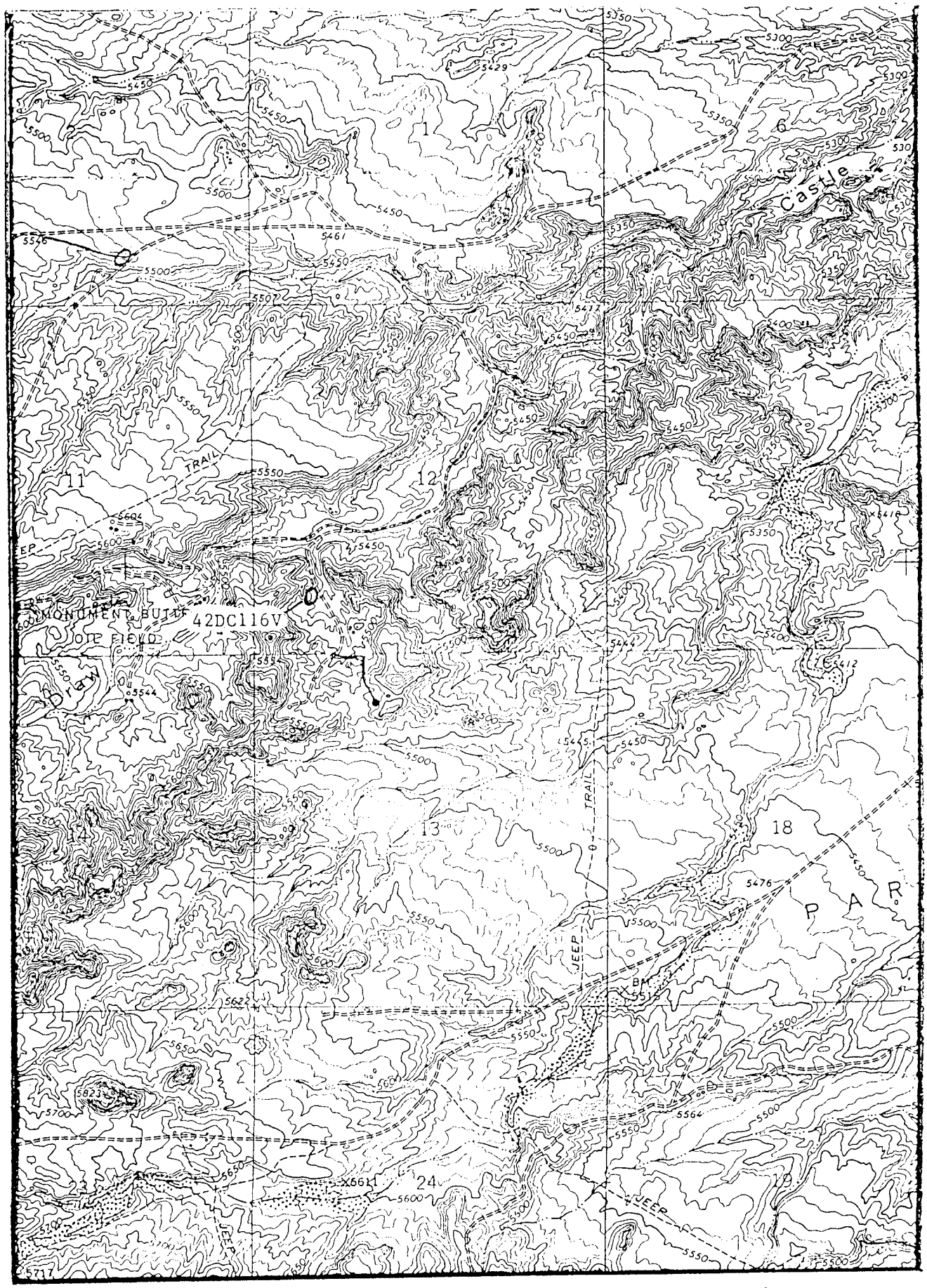
13.Disposition of Photo Negatives:

14.Published References: Hamblin, A. H., 1992, Paleontology Report on the Monument Butte EA Study Area, for Mariah Associates, Laramie, Wyoming.

15.Remarks:

16.Sensitivity:	Critical		Significant		Important	X	Insignificant	

17.Recorded by: Alden Hamblin, Paleontologist	Date: July 17, 1993



42DC116V Balcron Monument Butte Federal #21-13Y Aecess Road
Section 12 (SW,SW), T9S, R16E Myton SE, UTAH Quad.

PALEONTOLOGY LOCALITY

Data Sheet

Page 1 of 1 plus map

State Local. No. 42 DC 115V

Agency No.

Temp. No BALCRON MONUMENT BUTTE FEDERAL #21-13Y Wellpad

1. Type of locality									
Invertebrate		Plant		Vertebrate	X	Trace		Other_____	

2. Formation: UINTA	Horizon: "B"	Geologic Age: Late Eocene

3. Description of Geology and Topography: This location is at the southeast and upper end of a small broad bottomed (1/4 mile) valley which drains north to Castle Peak Draw. Hills immediately to the northeast and east rise about 50 feet above the location. On the west the hills rise 60 to 80 feet above the valley floor. The access road follows the drainage in from the north along existing roads until the last 1/8th mile or so.

All rock outcrops in the area are of the Upper Eocene Uinta Formation, known for its fossil vertebrate fauna of mammals, turtles, crocodilians, and occasional fish remains.

Rocks in the immediate area of the proposed access road and wellpad are composed of interbedded mudstone, and sandstone. These rocks represent fluvial (stream) deposits with sandstone lenses representing stream channels in the Uinta Formation.

4. Location of Outcrop: 12 miles south of Myton, Utah.

5. Map Ref.	USGS Quad	Myton SE, Utah	Scale	7.5 Min	Edition	1964

SW1/4	of	NE1/4	of	NW1/4	of Sectn	13	T	9 S	R	16E	Meridn	SLB

6. State: UTAH	County: DUCHESNE COUNTY	BLM/FS District: VERNAL- DIAMOND MT.

7. Specimens Collected and Field Accession No. NONE

8. Repository:

9. Specimens Observed and Disposition: On the wellpad there is a group of turtle shell fragments weathering out of a gray silt 30 yards south 28 degrees west of the center stake. These have weathered out in small pieces and the condition is poor, but probably represent one turtle or part of a turtle. No other fossil material was seen weathering out of this same layer. There is also one isolated piece of turtle shell 22 yards north 11 degrees east of the center stake.

10.Owner:														
Private		State		BLM	X	US FS		NPS		IND		MIL		OTHR

11.Recommendations for Further Work or Mitigation: The one group of turtle shell fragments found are in poor condition and, while important as an indicator of the presences of fossil material, is probably not a collectable specimen. Avoidance of this spot would be preferred, but it appears that this may not be a feasible possibility. It will be recorded as a fossil turtle locality. I am not recommending that it be collected or that the site be monitored. There is some possibility that other fossil material may be encountered during construction. It significant looking fossil bone material is discovered during construction, it should be evaluated by a paleontologist.

12.Type of Map Made by Recorder:

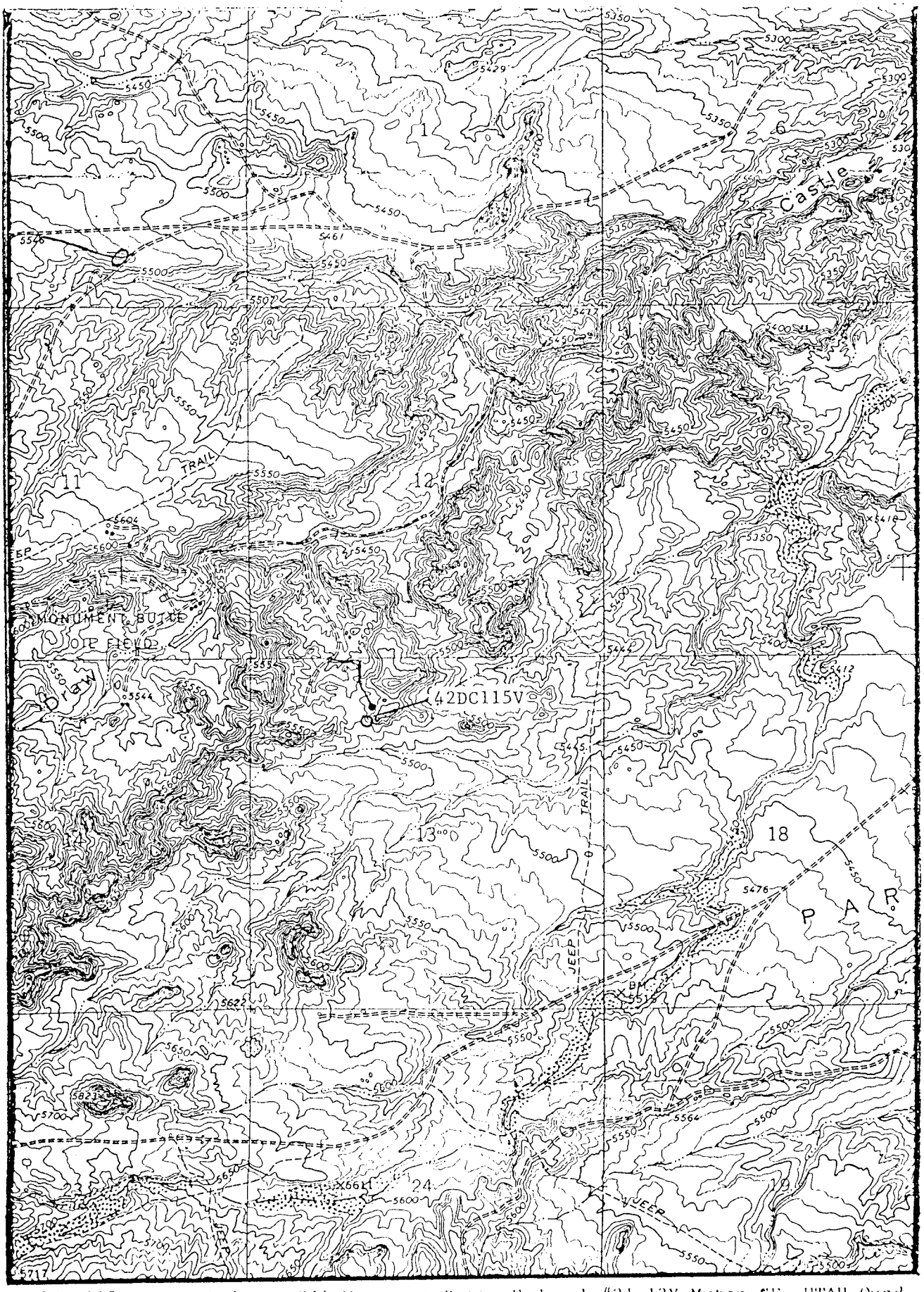
13.Disposition of Photo Negatives:

14.Published References: Hamblin, A. H., 1992, Paleontology Report on the Monument Butte EA Study Area, for Mariah Associates, Laramie, Wyoming.

15.Remarks:

16.Sensitivity:	Critical		Significant		Important	X	Insignificant	

17.Recorded by: Alden Hamblin, Paleontologist	Date: July 17, 1993



42DC115V Balcron Oil Monument Butte Federal #21-13Y Myton SE, UTAH Quad.

Section 13, T9S, R16E

ISOLATED FIND RECORD	BLM/FS DISTRICT: Vernal, Utah/Diamond Mt.
	PROJECT: Balcron Oil Monument Butte Fed. #21-13Y

Map Ref.	USGS Quad	Myton SE, Utah	Scale	7.5 Min	Edition	1964

SW1/4	of	NE1/4	of	NW1/4	of Sectn	13	T	9S	R	16E	Meridn	SLB

State: UTAH | County: UINTAH

ARCHAEOLOGICAL DATA

Artifacts: Tip of projectile point.

Inferred function/description: 1.5 X .75 inch tip of projectile point. Mottled light and dark brown color.

Cultural affiliation: Fremont ? | Time period: ?

IF Dimensions:

ENVIRONMENTAL DATA

Elevation: 5355 ft m | Slope: | Aspect:

Topography: Area is at the southeast and upper end of a small broad bottomed (1/4 mile) valley which drains north to Castle Peak Draw. Hills immediately to the northeast and east rise about 50 feet above the location. On the west the hills rise 60 to 80 feet above the valley floor.

Vegetation community:

Nearest water: During spring runoff or when rainy, Castle Peak Draw.

Distance - 1/2 mile | Direction - north

Nearest permanent water: Duchesne River ?

Distance - 12 miles | Direction - north

Other:

Surface Collection _____ Yes __X__ No (if yes, attach list)

Methodology:

Photo _____ Yes __X__ No

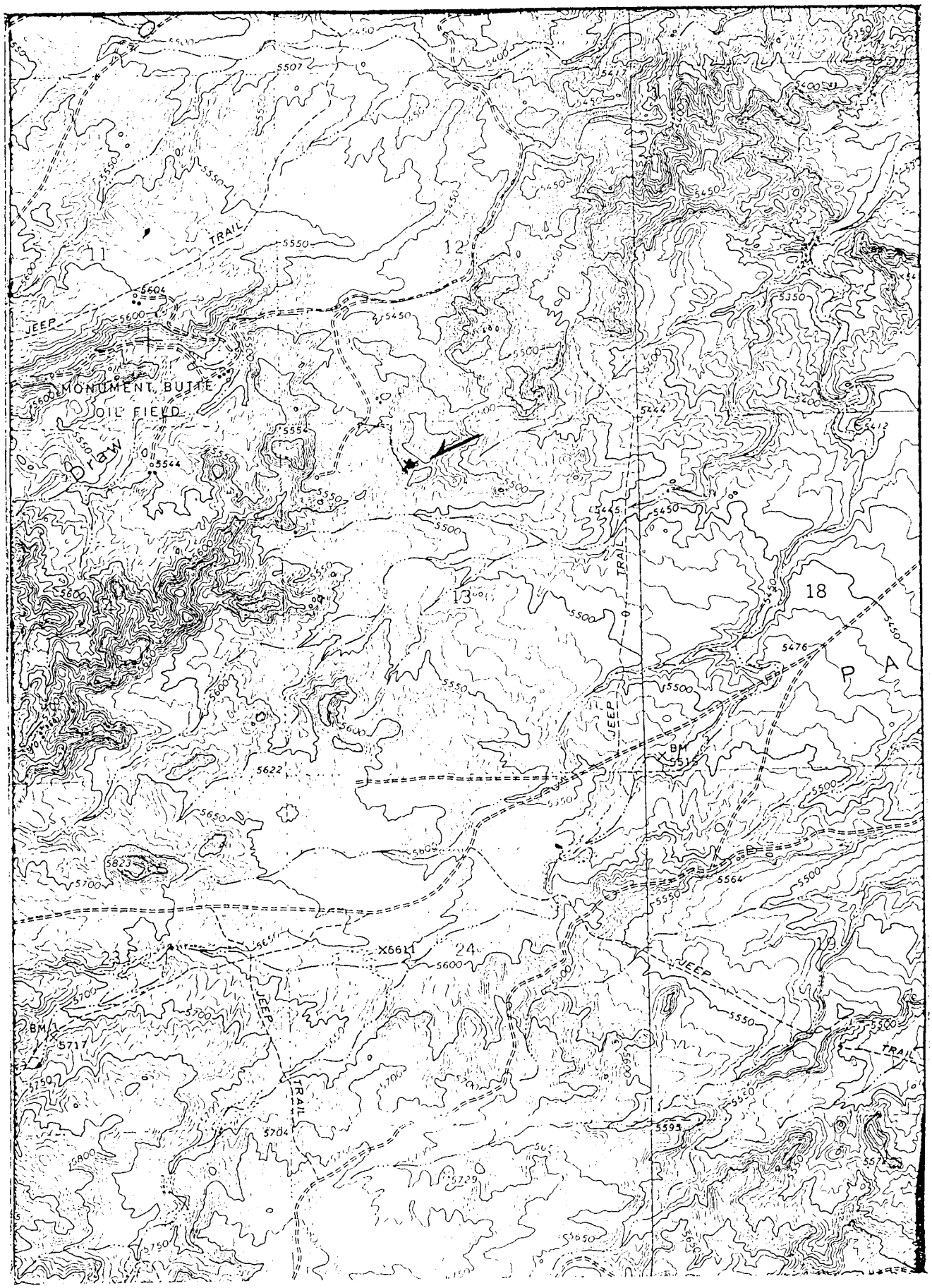
File location:

Remarks: Located approximately 27 yards north, 48 degrees East of well center stake.

10.Owner: Private		State		BLM	X	US FS		NPS		IND		MIL		OTHR	

Recorded by: Alden H. Hamblin | Date: July 17, 1993

ATTACH A PHOTOCOPY OF USGS QUAD MAP SHOWING SITE OR ISOLATED FIND CLEARLY



ISOLATED FIND SW, NE, NW, Sec 13, T9S, R16E, Myton SE, Utah Quad.
Balcron Oil Monument Fed #21-13Y

EQUITABLE **RESOURCES**
ENERGY COMPANY

BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104

Office: (406) 259-7860
FAX: (406) 245-1365 (J
FAX: (406) 245-1361 (X

August 3, 1993

-- VIA FEDERAL EXPRESS --

Bureau of Land Management
170 South 500 East
Vernal, UT 84078

Gentlemen:

Enclosed are sundry notices requesting approval of the change of water source for drilling the following wells:

Balcron Federal #21-13Y 43-013-31400
NE NW Section 13, T9S, R16E
Duchesne County, Utah

Balcron Federal #21-9Y 43-013-31396
NE NW Section 9, T9S, R16E
Duchesne County, Utah

We are requesting approval to use the Joe Shields water source. We are carefully monitoring amount of water used from this source and will continue to do so as requested by your office.

If you have any questions, please feel free to give me a call.

Sincerely,

Bobbie Schuman

Bobbie Schuman
Coordinator of Operations,
Environmental and Regulatory Affairs

/rs

Enclosures

cc: Utah Division of Oil, Gas and Mining

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**
702.7' FNL, 1830.5' FWL
PTD: 5900' Formation: Green River
Green River Prospect/Monument Butte Field
Elevations: 5535.5' GL
Contractor: Union Drilling Rig #18
Operator: Balcron/EREC
Spud: 8/13/93
Casing:

8-5-93 Present Operation: Building location.
Start location, move rock and dirt.

8-6-93 Present Operation: Build location.

8-7-93 Present Operation: Work on pit.
Had to drill 35 holes & shoot.

8-8-93 Present Operation: Shut down.

8-9-93 Present Operation: Finish location & road.

8-11-93 Present Operation: Install pit liner & haul water.
CC: $19,656

8-14-93 TD: 232' (232') Day 1
Formation: Uintah
Present Operation: Drilling surface.
SPUD @ 11:45 PM, 8/13/93. Move & rig up. Drill rat hole, drill & set conductor. Nipple up air head, drill surface hole.
DC: $14,553 CC: $34,209

8-15-93 TD: 275' (43') Day 2
Present Operation: Drill cement.
Finish drill surface hole. Nipple down air head. Pull conductor pipe & run 6 jts 8-5/8" casing. Cement with 150 sx Premium Plus cement with 2% CCL & 1/4# per sx Flocele. Good returns, approx 6 BBLS cement back. Plug down @ 11:15 AM, 8/14/93. Cement with Halliburton. WOC. Weld on head, nipple up. Test BOP & manifold to 2000# - OK. Had to run cup plug to test pipe to 1500#.
DC: $8,999 CC: $43,208

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

8-16-93 TD: 1,555' (1,280') Day 3
MW 8.4 Vis 27 pH 10
Formation: Green River
Present Opertion: Drilling.
Drill cement, survey, change air head rubber, drill.
DC: $16,555 CC: $59,763

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

8-16-93 TD: 1,555' (1,280') Day 3
MW 8.4 Vis 27 pH 10
Formation: Green River
Present Opertion: Drilling.
Drill cement, survey, change air head rubber, drill.
DC: $16,555 CC: $59,763

8-17-93 TD: 3,013' (1,458') Day 4
Formation: Green River
Present Operation: Drilling.
Drill, survey, clean on rig.
DC: $20,202 CC: $79,965

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

8-16-93 TD: 1,555' (1,280') Day 3
MW 8.4 Vis 27 pH 10
Formation: Green River
Present Opertion: Drilling.
Drill cement, survey, change air head rubber, drill.
DC: $16,555 CC: $59,763

8-17-93 TD: 3,013' (1,458') Day 4
Formation: Green River
Present Operation: Drilling.
Drill, survey, clean on rig.
DC: $20,202 CC: $79,965

TD: 4,062' (1,049') Day 5
MW 8.4 Vis 27 pH 10
Formation: Green River
Present Operation: Survey.
Drill, survey, clean on rig.
DC: $14,278 CC: $94,243

Post-it™ brand fax transmittal memo 7671 | # of pages ▸

To STATE OF UTAH	From JENNIE RAPETTO
Co. DIV. OIL, GAS & MINING	Co. BALCRON OIL
Dept.	Phone # 406-259-7860
Fax # 1-801-359-3940	Fax # 406-245-1361

EQUITABLE
ENERGY COMPANY

BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104

Office: (406) 259-7860
FAX: (406) 245-1365
FAX: (406) 245-1361

August 16, 1993

State of Utah
Division of Oil, Gas & Mining
355 West North Temple
Salt Lake City, UT 84180

Gentlemen:

RE:
Gentlemen:

RE: Balcron Federal #21-13Y
NE NW Section 13, T9S, R16E
Duchesne County, Utah

Enclosed is our Entity Action form along with a copy of the Federal sundry notice reporting spud of the referenced well.

Sincerely,

Bobbie Schuman
Coordinator of Operations,
Environmental and Regulatory Affairs

/rs

Enclosures

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

CONFIDENTIAL

5. Lease Designation and Serial No.
U-64805

6. If Indian, Allottee or Tribe Name
n/a

7. If Unit or CA, Agreement Designation
n/a

1. Type of Well
[X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.
Balcron Federal #21-13Y

2. Name of Operator
Equitable Resources Energy Company, Balcron Oil Division

9. API Well No.
43-013-31400

3. Address and Telephone No.
P.O. Box 21017; Billings, MT 59104 (406) 259-7860

10. Field and Pool, or Exploratory Area
Monument Butte/Grn.River

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NE NW Section 13, T9S, R16E
702.7' FNL, 1830.5' FWL

11. County or Parish, State
Duchesne County, UTAH

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other spud of well	[ ] Dispose Water
		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

This well was spud at 11:45 p.m. on 8/13/93.

AUG 18 1993

DIVISION OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct
Signed Bobbie Schuman Title Coordinator of Environmental and Regulatory Affairs Date

(This space for Federal or State office use)
Approved by Title Date
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

ATE OF UTAH
VISION OF OIL, GAS AND MINING

NTITY ACTION FORM - FORM 6

OPERATOR Equitable Resources Energy Company, Balcron Oil Division

OPERATOR ACCT. NO. N9890

ADDRESS ~~P.O. Box 21017~~
Billings, MT 59104

CTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE
A			43-013-31400	Balcron Federal #21-13Y	NE NW	13	9S	16E	Duchesne	8/13/93	8/13/93

LL 1 COMMENTS:
Spud of new well.

LL 2 COMMENTS:

LL 3 COMMENTS:

LL 4 COMMENTS:

AUG 18 1993

LL 5 COMMENTS:

TION CODES (See instructions on back of form)
A - Establish new entity for new well (single well only)
B - Add new well to existing entity (group or unit well)
C - Re-assign well from one existing entity to another existing entity
D - Re-assign well from one existing entity to a new entity
E - Other (explain in comments section)

Date: August 16, 1993

Signature
Coordinator of Environmental and Regulatory Affairs
Title Date

Phone No. (406) 259-7860

TE: Use COMMENT section to explain why each Action Code was selected.

/89)

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

8-16-93 TD: 1,555' (1,280') Day 3
MW 8.4 Vis 27 pH 10
Formation: Green River
Present Opertion: Drilling.
Drill cement, survey, change air head rubber, drill.
DC: $16,555 CC: $59,763

8-17-93 TD: 3,013' (1,458') Day 4
Formation: Green River
Present Operation: Drilling.
Drill, survey, clean on rig.
DC: $20,202 CC: $79,965

8-18-93 TD: 4,062' (1,049') Day 5
MW 8.4 Vis 27 pH 10
Formation: Green River
Present Operation: Survey.
Drill, survey, clean on rig.
DC: $14,278 CC: $94,243

8-19-93 TD: 4,550' (488') Day 6
MW 8.4 VIS 27 pH 10.3
Formation: Green River
Present Operation: Drilling.
Drill, survey, load hole with fluid, trip out for bit.
Trip in & drill with fluid.
DC: $7,776; CC: $102,019

Post-it™ brand fax transmittal memo 7671 | # of pages ▸

To STATE OF UTAH	From JENNIE RAPSTAD
Co. DIV. OIL, GAS & MINING	Co. BALCRON OIL
Dept.	Phone # 406-259-7860
Fax # 1-801-359-3940	Fax # 406-245-1361

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #22-10Y
Location: SE NW Section 10, T9S, R17E
Duchesne County, Utah **---TIGHT HOLE---**

8-17-93 Continued ->
Frac complete.
ISIP 2350, 5 minutes 2180, 10 minutes 2030, 15 minutes 1940. RU Cutter Wireline to set BP & perf. Set BP @ 4,750' KB. Perf 4,689'-99' KB w/2 SPF. TIH w/packer & tbg, set packer @ 4,630' KB. Press surface equipment to 4000 PSIG - OK. start breakdown, break @ 3,100 PSIG. Break back to 2100 PSIG @ 2.7 BPM; start 1 ball per BBLS water. Ball off to 3200 PSIG, surge ball back. Pump for rate 5.3 BPM @ 2300 PSIG, ISIP 1650. RU to frac. Pressure test surface equipment to 4200 psi - OK. Start pad 60 BBLS water, rate 20.5, maximum pressure 2250.

SAND	MAX. PRESSURE	MAXIMUM RATE	BBL. SLURRY
2# 16/30	2340	20.5	13
3# 16/30	2360	20.5	14
4# 16/30	2240	20.7	15
5# 16/30	2220	20.4	16
6# 16/30	2200	20.4	53
7# 16/30	2190	20.1	20
Flush	2290	20.0	111

Frac complete.
ISIP 1990, 5 minutes 1730, 10 minutes 1680, 15 minutes 1660. SWIFN. Total load used 809 BOW.
DC: $30,961 CC: $252,598

---PLEASE SEE ATTACHED TREATMENT SUMMARY (7 Pages)---

8-18-93 Present Operation: Swab.
Csg 960 PSIG. Flow back 40 bbls water, TIH w/retrieving tool and 2-7/8" tubing, tag sand @4,683', circulate sand out to BP (4,750'). Unseat BP, flow back 50 bbls water. TOOH w/tbg & BP. TIH w/retrieving tool, one jt tbg, HD packer & tbg tag fill @ 5,010'. POOH & set packer @4,629', end of tbg @4,664'. Made 24 swab runs. Swabbed back 144 bbls water. 10% oil cut on last 3 runs; still bringing sand back. SWIFN. Load recovered today 264 bbls water; load to be recovered 545 bbls water.
DC: $2,026 CC: $254,624

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

8-16-93 TD: 1,555' (1,280') Day 3
MW 8.4 Vis 27 pH 10
Formation: Green River
Present Opertion: Drilling.
Drill cement, survey, change air head rubber, drill.
DC: $16,555 CC: $59,763

8-17-93 TD: 3,013' (1,458') Day 4
Formation: Green River
Present Operation: Drilling.
Drill, survey, clean on rig.
DC: $20,202 CC: $79,965

8-18-93 TD: 4,062' (1,049') Day 5
MW 8.4 Vis 27 pH 10
Formation: Green River
Present Operation: Survey.
Drill, survey, clean on rig.
DC: $14,278 CC: $94,243

8-19-93 TD: 4,550' (488') Day 6
MW 8.4 VIS 27 pH 10.3
Formation: Green River
Present Operation: Drilling.
Drill, survey, load hole with fluid, trip out for bit.
Trip in & drill with fluid.
DC: $7,776; CC: $102,019

8-20-93 TD: 5,122' (572') Day 7
MW 8.4, VIS 27 pH 10.6
Formation: Green River
Present Operation: Drilling.
Drill, survey, clean on rig, repair lights.
DC: $9,451 CC: $111,470

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

8-16-93 TD: 1,555' (1,280') Day 3
MW 8.4 Vis 27 pH 10
Formation: Green River
Present Opertion: Drilling.
Drill cement, survey, change air head rubber, drill.
DC: $16,555 CC: $59,763

8-17-93 TD: 3,013' (1,458') Day 4
Formation: Green River
Present Operation: Drilling.
Drill, survey, clean on rig.
DC: $20,202 CC: $79,965

8-18-93 TD: 4,062' (1,049') Day 5
MW 8.4 Vis 27 pH 10
Formation: Green River
Present Operation: Survey.
Drill, survey, clean on rig.
DC: $14,278 CC: $94,243

8-19-93 TD: 4,550' (488') Day 6
MW 8.4 VIS 27 pH 10.3
Formation: Green River
Present Operation: Drilling.
Drill, survey, load hole with fluid, trip out for bit.
Trip in & drill with fluid.
DC: $7,776 CC: $102,019

8-20-93 TD: 5,122' (572') Day 7
MW 8.4, VIS 27 pH 10.6
Formation: Green River
Present Operation: Drilling.
Drill, survey, clean on rig, repair lights.
DC: $9,451 CC: $111,470

8-21-93 TD: 5,741' (619') Day 8
MW 8.4 VIS 27 pH 10.4
Formation: Green River
Present Operation: Drilling.
Drill, survey, clean on rig.
DC: $8,630 CC: $120,100

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

8-22-93 TD: 5,950' (199') Day 9
MW 8.4 VIS 27 pH 11.1
Formation: Green River
Present Operation: Lay down drill pipe.
Drill, circulate for logs, survey, trip out. Log well. TIH & circulate. Start to lay down drill pipe. Unload 139 jts 5-1/2" casing.
DC: $18,168 CC: $138,268

8-23-93: TD: 5,950 (-0-) Day 10
Formation: Green River
Prsent Operation: Move rig.
Lay down drill pipe & collars. Rig up casers & run 5-1/2" casing. Cement with Dowell. Set slips, ND BOP & clean tanks.

Guide shoe	.70'
1 jt 5-1/2", 15.50 K-55 shoe jt	44.86'
1 float collar	2.75'
138 jts 5-1/2", 15.50 csg w/20 centralizers	5,884.91'
landing joint	12.50'
	5,945.72'

Set @5,940.72'. PBTD 5,892'.

Cement with 145 sxs Hilift + additives & tail w/325 sxs Class "G" + additives. Good returns. Plug down 3:30 PM 8/22/93. **Release rig 7:30 PM 8/22/93.**
DC: $57,688 CC: $195,956

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

8-22-93 TD: 5,950' (199') Day 9
MW 8.4 VIS 27 pH 11.1
Formation: Green River
Present Operation: Lay down drill pipe.
Drill, circulate for logs, survey, trip out. Log well. TIH & circulate. Start to lay down drill pipe. Unload 139 jts 5-1/2" casing.
DC: $18,168 CC: $138,268

8-23-93: TD: 5,950 (-0-) Day 10
Formation: Green River
Prsent Operation: Move rig.
Lay down drill pipe & collars. Rig up casers & run 5-1/2" casing. Cement with Dowell. Set slips, ND BOP & clean tanks.

Guide shoe	.70'
1 jt 5-1/2", 15.50 K-55 shoe jt	44.86'
1 float collar	2.75'
138 jts 5-1/2", 15.50 csg w/20 centralizers	5,884.91'
landing joint	12.50'
	5,945.72'

Set @5,940.72'. PBTD 5,892'.

Cement with 145 sxs Hilift + additives & tail w/325 sxs Class "G" + additives. Good returns. Plug down 3:30 PM 8/22/93. **Release rig 7:30 PM 8/22/93.**
DC: $57,688 CC: $195,956

8-24-93 Dress up location w/grader. Set rig anchors; set tanks; move rig in.
DC: $2,304 CC: $2,304

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

8-22-93 TD: 5,950' (199') Day 9
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Drill, circulate for logs, survey, trip out. Log well. TIH & circulate. Start to lay down drill pipe. Unload 139 jts 5-1/2" casing.
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8-23-93: TD: 5,950 (-0-) Day 10
Formation: Green River
Prsent Operation: Move rig.
Lay down drill pipe & collars. Rig up casers & run 5-1/2" casing. Cement with Dowell. Set slips, ND BOP & clean tanks.

Guide shoe	.70'
1 jt 5-1/2", 15.50 K-55 shoe jt	44.86'
1 float collar	2.75'
138 jts 5-1/2", 15.50 csg w/20 centralizers	5,884.91'
landing joint	12.50'
	5,945.72'

Set @5,940.72'. PBTD 5,892'.

Cement with 145 sxs Hilift + additives & tail w/325 sxs Class "G" + additives. Good returns. Plug down 3:30 PM 8/22/93. **Release rig 7:30 PM 8/22/93.**
DC: $57,688 CC: $195,956

8-24-93 Dress up location w/grader. Set rig anchors; set tanks; move rig in.
DC: $2,304 CC: $2,304

8-25-93 Rig up AAA Well Service Rig #1. NU wellhead; NU BOP. TIH w/4-3/4" bit, 5-1/2" scraper, & 190 jts tbg. Tag PBTD @ 5,888'KB. Circulate well clean w/2% KCL water. TOOH w/tbg & scraper.
DC: $12,292 CC: $14,596

EQUITABLE RESOURCES
ENERGY COMPANY
BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104

Office: (406) 259-7860
FAX: (406) 245-1365
FAX: (406) 245-1361

August 23, 1993

Bureau of Land Management
170 South 500 East
Vernal, UT 84078

Gentlemen:

RE: Balcron Federal #21-13Y
NE NW Section 13, T9S, R16E
Duchesne County, Utah

Enclosed is our sundry notice reporting moving on of a "replacement" rig to complete this well.

Sincerely,

Bobbie Schuman

Bobbie Schuman
Coordinator of Operations,
Environmental and Regulatory Affairs

/rs

Enclosure

cc: Utah Division of Oil, Gas and Mining

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

CONFIDENTIAL

5. Lease Designation and Serial No.
U-64805

6. If Indian, Allottee or Tribe Name
n/a

7. If Unit or CA, Agreement Designation
n/a

1. Type of Well
[X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.
Balcron Federal #21-13Y

2. Name of Operator
Equitable Resources Energy Company, Balcron Oil Division

9. API Well No.
43-013-31400

3. Address and Telephone No.
P.O. Box 21017; Billings, MT 59104 (406) 259-7860

10. Field and Pool, or Exploratory Area
Monument Butte/Grn.River

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NE NW Section 13, T9S, R16E
702.7' FNL, 1830.5' FWL

11. County or Parish, State
Duchesne County, UTAH

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[x] Other replacement rig	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

We are moving on a completion rig to complete this well.

RECEIVED
AUG 27 1993
DIVISION OF
OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct
Signed Debbie Schuman Title Coordinator of Environmental and Regulatory Affairs Date August 25, 1993
Debbie Schuman

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

The Western Company—Treatment Report

Date 8-28-93 District VERNAL F. Receipt 262241 Operator CHEVRON OIL CO.
Lease FEDERAL Well No. 21-13Y Field MONUMENT BUTTES Location S13-T9S-R16E
County DUCHESNE State UT. Stage Number 1 This Zone ☒ This Well ☒

WELL DATA OG☐ NG☐ NO☒ OO☐ WD☐ IW☐ Misc.☐ Depth TD (PB) 5858 Formation GREEN RIVER
Tubing Size — WT. — Set at: — Type Packer — Set At —
Casing Size 5½ WT. 15.5# Set From SURFACE To TD Liner Size — Wt. —
Liner Set From — To — Open Hole: Size — From — To — Casing Perforations: Size 49" GUNS
Holes Per Foot 2 Intervals 4751 - 4765' (28 HOLES)
Previous Treatment N/A Prior Production N/A

TREATMENT DATA Pad Used: Yes☒ No☐ Pad Type VIKING I 35#
Treating Fluid Type: Foam☐ Water☒ Acid☐ Oil☐ Treat. Fluid Vol. 10,878 Gal.
Base Fluid Type VIKING I 35# Base Fluid Vol. 10,878 Gal.
Foam Qual.: ____ % Mitchell☐ Slurry☐ Surface☐ Downhole☐ Total Prop Qty. 37,980 Lbs.
Prop Type: Sand☒ WP-1☐ WP-3☐ Baux.☐ Other
Prop Mesh Sizes, Types and Quantities 20/40 - 22,600 16/30 - 15,380
Hole Loaded With KCL WATER Treat Via: Tubing☐ Casing☒ Anul.☐ Tubing & Anul.☐
Ball Sealers: — In — Stages of —
Types and Number of Pumps Used BJ 1000 - 3
Auxiliary Materials

PROCEDURE SUMMARY

LIQUID/GAS PUMPED / CAPACITIES IN BBLS

Tubing Cap.	—
Casing Cap.	113
Annular Cap.	—
Open Hole Cap.	—
Fluid to Load	30
Pad Volume	95
Treating Fluid	259
Flush	112
Overflush	—
Fluid to Recover	371
Total N²	—
Total CO_2	—

Time AM/PM	Treating Pressure-Psi STP	Annulus	Surface Slurry BBLS. Pumped Stage	Total	Slurry Rate BPM	Surface CO_2 BBLS. Pumped Stage	Total	CO_2 Rate BPM	Surface N² MSCF Pumped Stage	Total	N² Rate SCFM	Comments
6:55	—	—	—	—	—							TEST LINES @ 8000 psi
7:14	0	—	—	—	21.5							START PAD
7:20	2140	—	—	95	20.1							START 2.0# 20/40
7:20	2204	—	—	105	20.1							START 3.0# 20/40
7:21	2230	—	—	137	19.8							START 4.0# 20/40
7:22	2350	—	—	152	20.0							START 5.0# 20/40
7:24	2310	—	—	184	19.9							START 6.0# 20/40
7:27	2010	—	—	225	20.3							START 6.0# 16/30
7:29	1600	—	—	272	20.3							START 7.0# 16/30
7:30	1680	—	—	300	20.3							START FLUSH
7:34	1850	—	—	412	—							SHUTDOWN ALL FLUSHED
												1480 psi 5 MIN
												1450 psi 10 MIN
												1400 psi 15 MIN

Treating Pressure: Min. 1680 Max. 2350 Avg. 1900 Customer Representative MR. DALE GRIFFIN
Inj. Rate on Treating Fluid 20 Rate on Flush 20 Western Representative J. STEADLE
Avg. Inj. Rate 20 I.S.D.P. 1850 Flush Dens. lb/gal. 8.4 Distribution BAKERSFIELD
Final Shut-In Pressure 1400 in 15 Minutes
Operator's Maximum Pressure 3000 psi

Job Number Recommendation ID #

BALCRON OIL
DAILY OPERATING REPORT

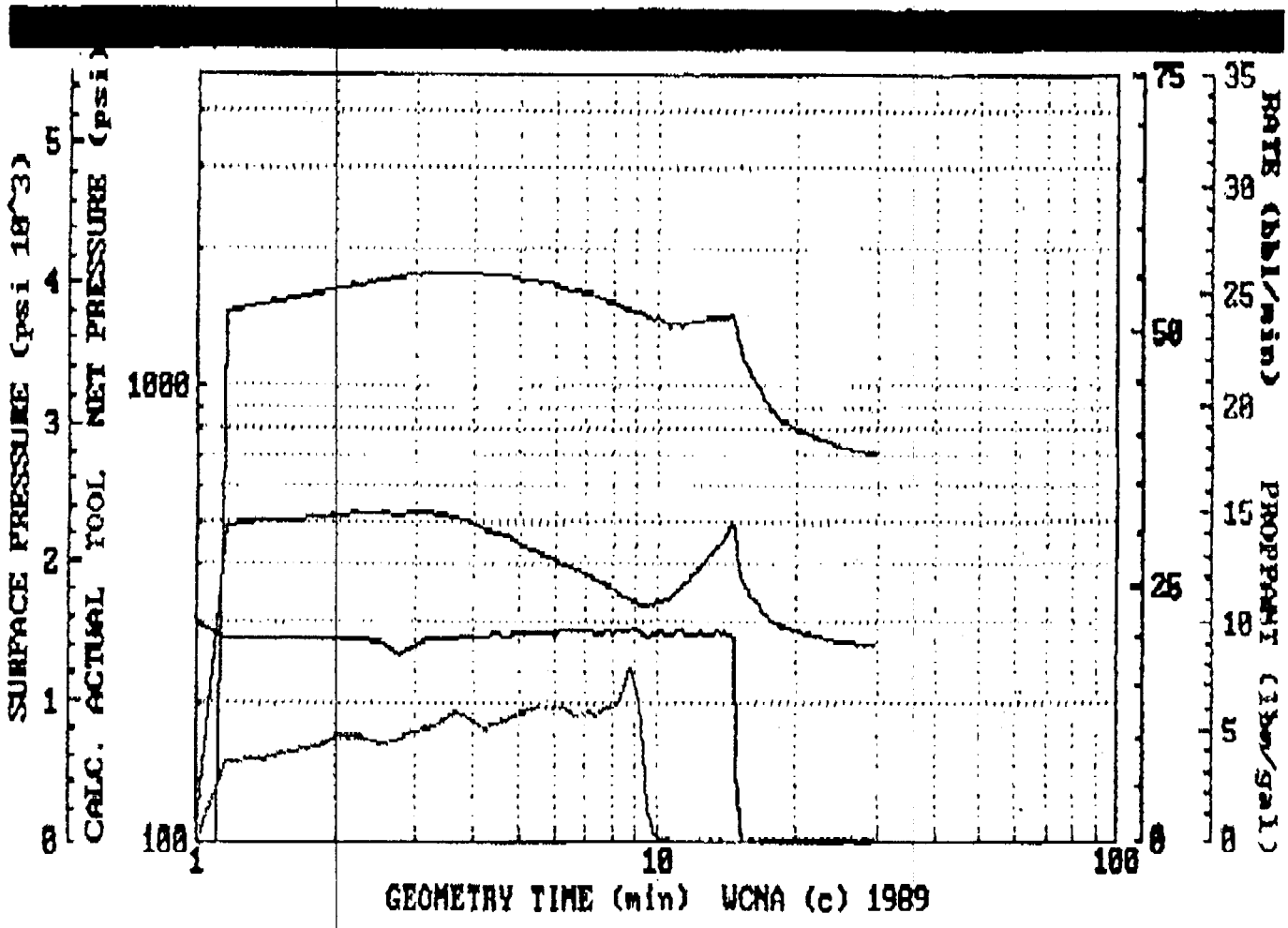
BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah

---TIGHT HOLE---

8-27-93 Cas "0" PSIG. RU Halliburton to do breakdown. Pressure test surface equipment to 4500 PSIG - OK. Pump 5 bbls water break @3400 PSI, break to 1500 @ 4 BPM. Pump 26 balls. No ball off at 4 BPM. Surge ball off perfs. Pump 18 bbls for rate, 6-1/4 BPM at 2500 PSIG. Made 5 swab runs. Swab back 22 bbls water, flow back 32 bbls water. ISIP 1550 PSIG, slight oil cut on swab. TOOH w/tbg & packer. SWIFN. Total load used - 125 bbls water; load recovered 54 bbls water; TOTAL LOAD TO RECOVER 71 bbls water.
DC: $2,464 CC: $218,854

8-28-93 Rig up Western to frac. Casing pressure "0" PSIG. Pressure test surface equipment to 5000 PSIG - OK. Frac well with 20,140 lbs of 20/40 & 15,380 lbs of 16/30 @ 20 BPM. Average treating pressure 1900 psi. Maximum treating pressure 2350 psi. ISIP 1850 psi, 5 minutes 1480 psi, 10 minutes 1450 psi, 15 minutes 1400 psi. SWIFN. Load used in frac 371 bbls water. Total load to recover 442 bbls water.
DC: $16,932 CC: $235,786

---SEE ATTACHED REPORT - 2 PAGES---


SURFACE PRESSURE (psi 10^3)
CALC. ACTUAL TOOL NET PRESSURE (psi)
RATE (bbl/min)
PROPPANT (lbm/gal)
GEOMETRY TIME (min) WCNA (c) 1989
0
1
2
3
4
5
1000
100
1
10
100
75
50
25
0
35
30
25
20
15
10
5
0

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

8-22-93 TD: 5,950' (199') Day 9
MW 8.4 VIS 27 pH 11.1
Formation: Green River
Present Operation: Lay down drill pipe.
Drill, circulate for logs, survey, trip out. Log well. TIH & circulate. Start to lay down drill pipe. Unload 139 jts 5-1/2" casing.
DC: $18,168 CC: $138,268

8-23-93: TD: 5,950 (-0-) Day 10
Formation: Green River
Prsent Operation: Move rig.
Lay down drill pipe & collars. Rig up casers & run 5-1/2" casing. Cement with Dowell. Set slips, ND BOP & clean tanks.

Guide shoe	.70'
1 jt 5-1/2", 15.50 K-55 shoe jt	44.86'
1 float collar	2.75'
138 jts 5-1/2", 15.50 csg w/20 centralizers	5,884.91'
landing joint	12.50'
	5,945.72'

Set @5,940.72'. PBTD 5,892'.

Cement with 145 sxs Hilift + additives & tail w/325 sxs Class "G" + additives. Good returns. Plug down 3:30 PM 8/22/93. Release rig 7:30 PM 8/22/93.
DC: $57,688 CC: $195,956

8-24-93 Dress up location w/grader. Set rig anchors; set tanks; move rig in.
DC: $2,304 CC: $2,304

8-25-93 Rig up AAA Well Service Rig #1. NU wellhead; NU BOP. TIH w/4-3/4" bit, 5-1/2" scraper, & 190 jts tbg. Tag PBTD @ 5,888'KB. Circulate well clean w/2% KCL water. TOOH w/tbg & scraper.
DC: $12,292 CC: $14,596

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

8-22-93 TD: 5,950' (199') Day 9
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Drill, circulate for logs, survey, trip out. Log well. TIH & circulate. Start to lay down drill pipe. Unload 139 jts 5-1/2" casing.
DC: $18,168 CC: $138,268

8-23-93: TD: 5,950 (-0-) Day 10
Formation: Green River
Present Operation: Move rig.
Lay down drill pipe & collars. Rig up casers & run 5-1/2" casing. Cement with Dowell. Set slips, ND BOP & clean tanks.

Guide shoe	.70'
1 jt 5-1/2", 15.50 K-55 shoe jt	44.86'
1 float collar	2.75'
138 jts 5-1/2", 15.50 csg W/20 centralizers	5,884.91'
landing joint	12.50'
	5,945.72'

Set @5,940.72'. PBTD 5,892'.

Cement with 145 sxs Hilift + additives & tail w/325 sxs Class "G" + additives. Good returns. Plug down 3:30 PM 8/22/93. **Release rig 7:30 PM 8/22/93.**
DC: $57,688 CC: $195,956

8-24-93 Dress up location w/grader. Set rig anchors; set tanks; move rig in.
DC: $2,304 CC: $198,260

8-25-93 Rig up AAA Well Service Rig #1. NU wellhead; NU BOP. TIH w/4-3/4" bit, 5-1/2" scraper, & 190 jts tbg. Tag PBTD @ 5,888'KB. Circulate well clean w/2% KCL water. TOOH w/tbg & scraper.
DC: $12,292 CC: $210,552

8-26-93 RU Schlumberger to Bond Log & perforate. Bond Log from PBTD to 3,500' and from 1650' to cement top at 1,040'KB. Perforate 4,751'-4,765'KB w/2 SPF. TIH w/hd packer & 150 jts of 2-7/8" tbg. Set packer @4,650'KB. SWIFN.
DC: $5,838 CC: $216,390

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

8-27-93 Cas "0" PSIG. RU Halliburton to do breakdown. Pressure test surface equipment to 4500 PSIG - OK. Pump 5 bbls water break @3400 PSI, break to 1500 @ 4 BPM. Pump 26 balls. No ball off at 4 BPM. Surge ball off perfs. Pump 18 bbls for rate, 6-1/4 BPM at 2500 PSIG. Made 5 swab runs. Swab back 22 bbls water, flow back 32 bbls water. ISIP 1550 PSIG, slight oil cut on swab. TOOH w/tbg & packer. SWIFN. Total load used - 125 bbls water; load recovered 54 bbls water; TOTAL LOAD TO RECOVER 71 bbls water.
DC: $2,464 CC: $218,854

8-28-93 Rig up Western to frac. Casing pressure "0" PSIG. Pressure test surface equipment to 5000 PSIG - OK. Frac well with 20,140 lbs of 20/40 & 15,380 lbs of 16/30 @ 20 BPM. Average treating pressure 1900 psi. Maximum treating pressure 2350 psi. ISIP 1850 psi, 5 minutes 1480 psi, 10 minutes 1450 psi, 15 minutes 1400 psi. SWIFN. Load used in frac 371 bbls water. Total load to recover 442 bbls water.
DC: $16,932 CC: $235,786

---SEE ATTACHED REPORT - 2 PAGES---

8-30-93 Casing PSIG "0", bleed well off. TIH w/5-1/2" packer & 2-7/8" tbg, tag fill @ 5,685'KB. POOH to 4,727'. Set packer. Made 18 swab runs. Flowed & swabbed 86 bbls fluid. Last three runs 30% oil, average oil % = 10. Last three runs - no sand. Release packer, tag fill @ 5,555'KB. Circulate down to PBTD. TOOH w/50 jts 2-7/8" tbg. SDFN.
DC: $2,531 CC: $238,317

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

8-27-93 Cas "0" PSIG. RU Halliburton to do breakdown. Pressure test surface equipment to 4500 PSIG - OK. Pump 5 bbls water break @3400 PSI, break to 1500 @ 4 BPM. Pump 26 balls. No ball off at 4 BPM. Surge ball off perfs. Pump 18 bbls for rate, 6-1/4 BPM at 2500 PSIG. Made 5 swab runs. Swab back 22 bbls water, flow back 32 bbls water. ISIP 1550 PSIG, slight oil cut on swab. TOOH w/tbg & packer. SWIFN. Total load used - 125 bbls water; load recovered 54 bbls water; TOTAL LOAD TO RECOVER 71 bbls water.
DC: $2,464 CC: $218,854

8-28-93 Rig up Western to frac. Casing pressure "0" PSIG. Pressure test surface equipment to 5000 PSIG - OK. Frac well with 20,140 lbs of 20/40 & 15,380 lbs of 16/30 @ 20 BPM. Average treating pressure 1900 psi. Maximum treating pressure 2350 psi. ISIP 1850 psi, 5 minutes 1480 psi, 10 minutes 1450 psi, 15 minutes 1400 psi. SWIFN. Load used in frac 371 bbls water. Total load to recover 442 bbls water.
DC: $16,932 CC: $235,786

---SEE ATTACHED REPORT - 2 PAGES---

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DC: $2,531 CC: $238,317

8-31-93 Cas "0" PSIG, tbg "0" PSIG. TOOH w/tbg & packer. RU Schlumberger to perf @ 4,309'-4,325', 2 SPM. RD Schlumberger. TIH w/5-1/2" retrievable bridge plug, right head, 1 jt 2-7/8" tbg, one 5-1/2" R-3 packer, seating nipple & 141 jts 2-7/8" tbg. Set bridge plug at 4,396'KB, pressure test bridge plug 1000 PSIG - OK 5 minutes. POOH w/7 jts 2-7/8" tbg, set packer @ 4,165'KB, bottom of tubing @ 4,196'KB. Pressure test surface equipment 4000 PSIG - OK. RU Western to break down perfs. Initial break @ 2500 PSIG, start 1 ball per bbl. Start break down, 37 bbls water, 6 balls total, no ball off. 3 & 4 BPM. Pump for rate 1350 PSIG at 6.0 BPM. Flow back 10 bbls water, made 4 swab runs, got trace of oil. Unseat packer. TOOH w/tbg & packer. Swabbed 30 bbls water. SWIFN.
DC: $5,039 CC: $243,356

EQUITABLE RESOURCES
ENERGY COMPANY

BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104

Office: (406) 259-7860
FAX: (406) 245-1365
FAX: (406) 245-1361

August 30, 1993

Bureau of Land Management
170 South 500 East
Vernal, UT 84078

Gentlemen:

Enclosed are sundry notices laying out the proposed site facility diagrams for the following wells:

Balcron Federal #21-13Y

Balcron Federal #41-21Y

Balcron Federal #44-14Y

Sincerely,

Bobbie Schuman

Bobbie Schuman
Coordinator of Operations,
Environmental and Regulatory Affairs

/rs

Enclosures

cc: Utah Division of Oil, Gas and Mining

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

CONFIDENTIAL

5. Lease Designation and Serial No.
U-64805

6. If Indian, Allottee or Tribe Name
n/a

7. If Unit or CA, Agreement Designation
n/a

1. Type of Well
[X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.
Balcron Federal #21-13Y

2. Name of Operator
Equitable Resources Energy Company, Balcron Oil Division

9. API Well No.
43-013-31400

3. Address and Telephone No.
P.O. Box 21017; Billings, MT 59104 (406) 259-7860

10. Field and Pool, or Exploratory Area
Monument Butte/Grn.River

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NE NW Section 13, T9S, R16E
702.7' FNL, 1830.5' FWL

11. County or Parish, State
Duchesne County, UTAH

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[X] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[ ] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other proposed production facilities	[ ] Dispose Water
		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Attached is our Proposed Production Facility Diagram for this well.

RECEIVED
SEP 0 1 1993
DIVISION OF
OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct
Signed Bobbie Schuman Title Coordinator of Environmental and Regulatory Affairs Date August 30, 1993
Bobbie Schuman
(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

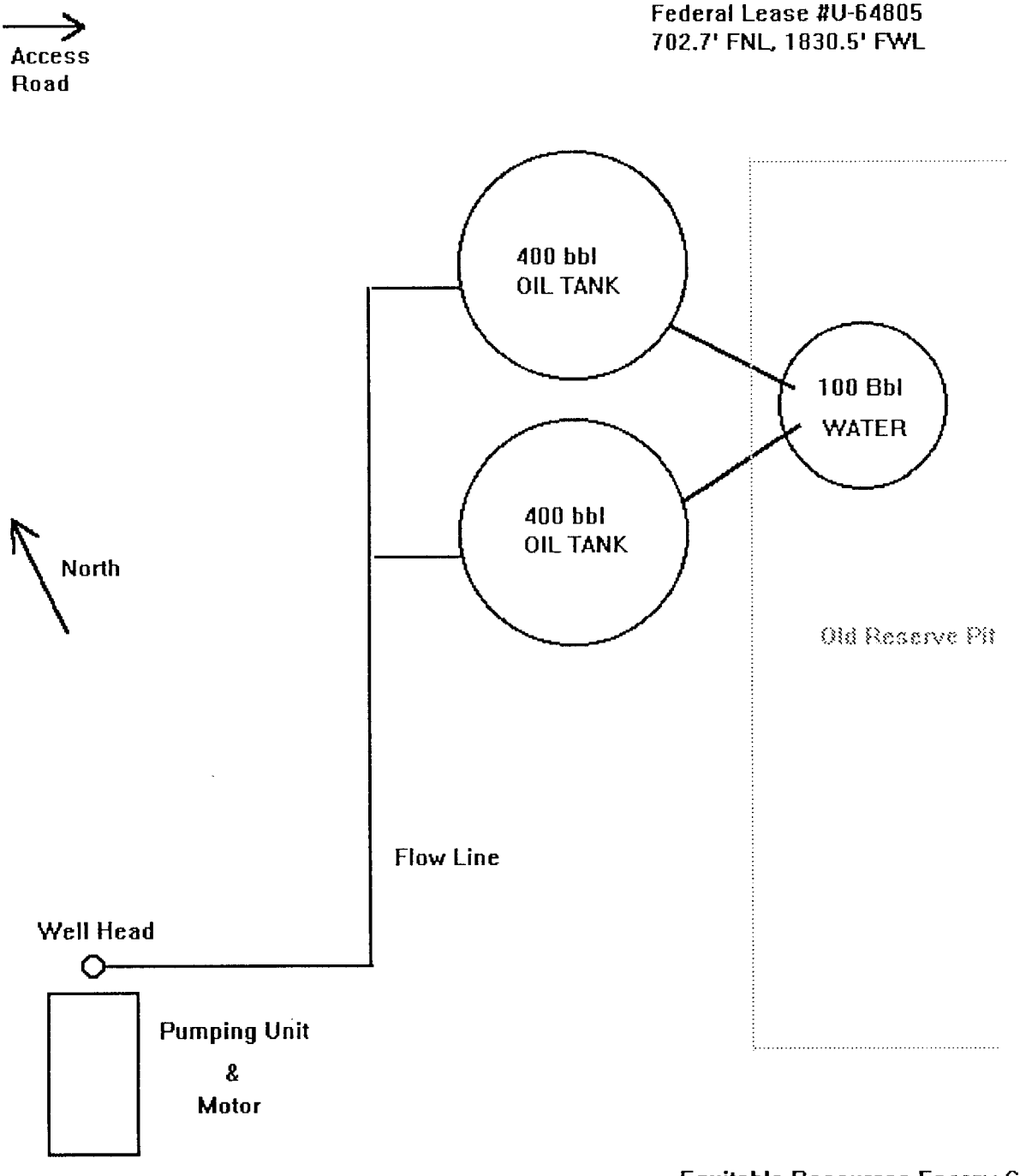
*See Instruction on Reverse Side

Equitable Resources Energy Company

Balcron Federal 21-13Y

Proposed Production Facility Diagram

Balcron Federal 21-13Y
NE NW Section 13, T9S, R16E
Duchesne County, Utah
Federal Lease #U-64805
702.7' FNL, 1830.5' FWL



Equitable Resources Energy Company
Balcron Oil Division
P.O. Box 21017
Billings, MT 59104
(406) 259-7860

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

9-1-93 RU Western & prepare to frac. Pressure test surface equipment to 4500 PSIG - OK. Frac well with 33,600# 16/30 sand. Max. treating pressure 2200 psi; average treating pressure 2050 psi; average rate 24.5 BPM. ISIP 1800 psi, 5 minutes 1550 psi, 10 minutes 1460 psi, 15 minutes 1360 psi. SWIFD. Load used 377 bbls water; total load to recover 820.
DC: $18,437 CC: $261,793

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

9-1-93 RU Western & prepare to frac. Pressure test surface equipment to 4500 PSIG - OK. Frac well with 33,600# 16/30 sand. Max. treating pressure 2200 psi; average treating pressure 2050 psi; average rate 24.5 BPM. ISIP 1800 psi, 5 minutes 1550 psi, 10 minutes 1460 psi, 15 minutes 1360 psi. SWIFD. Load used 377 bbls water; total load to recover 820.
DC: $18,437 CC: $261,793

9-2-93 Casing 100 PSIG. Flowed 5 bbls water. TIH w/1 bridge plug retrieving tool, 1 jt 2-7/8" tbg, one 5-1/2" packer & 125 jts 2-7/8" tbg. Tag fill @ 3,921' KB. RU to circulate sand out to 4,355'. Set packer @ 4,288'. Made 23 swab runs, swab fluid level down to 3,700'. Last 3 runs 30% oil. Still getting sand. SWIFN. Load recovered 65 bbls water. Total load to be recovered 755 bbls water.
DC: $2,235 CC: $264,028

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

9-1-93 RU Western & prepare to frac. Pressure test surface equipment to 4500 PSIG - OK. Frac well with 33,600# 16/30 sand. Max. treating pressure 2288 psi; average treating pressure 2050 psi; average rate 24.5 BPM. ISIP 1800 psi, 5 minutes 1550 psi, 10 minutes 1460 psi, 15 minutes 1360 psi. SWIFD. Load used 377 bbls water; total load to recover 820.
DC: $18,437 CC: $261,793

9-2-93 Casing 100 PSIG. Flowed 5 bbls water. TIH w/1 bridge plug retrieving tool, 1 jt 2-7/8" tbg, one 5-1/2" packer & 125 jts 2-7/8" tbg. Tag fill @ 3,921' KB. RU to circulate sand out to 4,355'. Set packer @ 4,288'. Made 23 swab runs, swab fluid level down to 3,700'. Last 3 runs 30% oil. Still getting sand. SWIFN. Load recovered 65 bbls water. Total load to be recovered 755 bbls water.
DC: $2,235 CC: $264,028

9-3-93 Completion
Csg - 9 psig, tbg - 230 psig. Flow back 1 BO. Made 8 swab runs. Recovered 42 BOF - 50% oil. Release packer, tag sand fill @ 4340', circ clean to 4396'. Release BP, TOOH w/tbg, BP & packer. TIH w/production string: 1 jt 2-7/8" tbg, EUE, J-55, 8RD, 6.5# set 4802' KB; 1 perf sub 2-7/8" x 3'; 1 seat nipple; 154 jts tbg 2-7/8" EUE, J-55, 8rd, 6/5#. Landed @ 4771' KB. Load recovered today 21 BOW. Total load to recover 734 BOW.
DC: $4,648 CC: $268,676

9-7-93 Completion.
TIH w/rods. TP - 0 psig; CP - Vac.

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

9-1-93 RU Western & prepare to frac. Pressure test surface equipment to 4500 PSIG - OK. Frac well with 33,600# 16/30 sand. Max. treating pressure 2200 psi; average treating pressure 2050 psi; average rate 24.5 BPM. ISIP 1800 psi, 5 minutes 1550 psi, 10 minutes 1460 psi, 15 minutes 1360 psi. SWIFD. Load used 377 bbls water; total load to recover 820.
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DC: $2,235 CC: $264,028

9-3-93 Completion
Csg - 9 psig, tbg - 230 psig. Flow back 1 BO. Made 8 swab runs. Recovered 42 BOF - 50% oil. Release packer, tag sand fill @ 4340', circ clean to 4396'. Release BP, TOOh w/tbg, BP & packer. TIH w/production string: 1 jt 2-7/8" tbg, EUE, J-55, 8RD, 6.5# set 4802' KB; 1 perf sub 2-7/8" x 3'; 1 seat nipple; 154 jts tbg 2-7/8" EUE, J-55, 8rd, 6/5#. Landed @ 4771' KB. Load recovered today 21 BOW. Total load to recover 734 BOW.
DC: $4,648 CC: $268,676

9-6-93 Completion.
TIH w/rods. TP - 0 psig; CP - Vac.

9-7-93 Completion
CP - 0 psig, TP - 0 psig. Flush tbg w/hot wtr. TIH w/1 BHP 2-1/2 x 1-1/2 x 16' ring plunger; one 3/4 x 2' pony; six 1" x 25' rods w/2-1/2" guides EL; 184 3/4" x 25' rods plain; one 3/4" x 6' pony; one 1/14" x 16' polish rod; spool out 4" off. Rig down & move off. Load to recover 734 BW.
DC: $23,103

BALCRON OIL COMPANY

BALCRON FEDERAL #21-13Y

NE NW SECTION 13, T9S, R16E

DUCHESNE COUNTY, UTAH

GEOLOGIC EVALUATION

The Balcron Federal #21-13Y was a development well drilled by Balcron Oil Company at Monument Butte Field. Located in the Uinta Basin of Utah, the field produces oil and gas from Tertiary age sediments in the Green River Formation. Numerous channel and deltaic sands in the Douglas Creek Member are the primary objectives. The #21-13Y attempts to establish production in the south central portion of Monument Butte Field.

The Balcron Federal #21-13Y was spudded on August 13, 1993 at a location in the NE NW of Section 13, T9S, R16E in Duchesne County, Utah. The well was drilled from under surface casing employing air and foam to a depth 4251', at which point the system was convert to KCL and fresh water. A total depth of 5950' was reached on August 21, 1993 and the #21-13Y was cased for completion on August 22, 1993. The well bore was evaluated by a well site geologist and two man mud logging unit in addition to a full suite of E-Logs.

Zones of Interest:

Sample and gas shows were noted from relatively shallow up hole sands beginning at 2660' through 2750'. A net total gas increase of 40 units occurred at 2660' to 2670', which chromatograph readings proved to contain methane, ethane, propane and traces of heavier gases. Abundant oil and tar were noted on the pits in association with this show. Samples were comprised of unconsolidated very fine grained sands with brown oil and asphaltic staining. Porosity logs indicate a 70' thick sand section from 2680' to 2750' averaging 17% cross-plotted porosity.

The Y-3 Sands were present at 4104' to 4116'. This interval was penetrated with a 40 unit total gas increase over a background of 40 units and was comprised entirely of methane. Samples indicated a fine to medium grained fairly consolidated Sandstone with brown uniform oil staining. Logs prove this zone to be silty or dirty with porosity ranging from 16 to 18% through the cleaner portions.

The Y-4 Sand occurred from 4308' to 4326' with porosity averaging 17% through this 18' thick section. A net total gas show of 546 units with the full range of gas components was recorded. Drill cuttings were comprised of fine to medium grained Sandstone with a trace of brown spotty oil stain.

The R-5 Sand was a 14' thick Sandstone section encountered from 4751' to 4765'. A significant gas increase of 820 units above a background of 10 units with C1 through NC4 gas components was detected from a poorly to fairly consolidated Sandstone with brown oil staining. Oil on the pits was also observed after penetrating this interval. Cross plotted porosity values range

from 14 to 16% through the R-5.

Drilling proceeded through the remainder of the Douglas Creek Member and Carbonate Marker to a total depth 116' below the Uteland Butte. No significant gas shows or porous Sandstone sections were encounter in either the Green or Blue zones. E-logs prove these intervals to be silty and/or tight.

Conclusions:

1.) Sample and gas shows indicate the R-5 and Y-4 zones have the best capacity for commercial oil production at the Balcron Federal #21-13Y. E-logs confirm the potential of these two Sandstone sections.

2.) Additional pay may be present in the Y-3 Sands and at 2680' to 2750'. Both intervals warrant further evaluation through production casing.

Respectfully submitted,

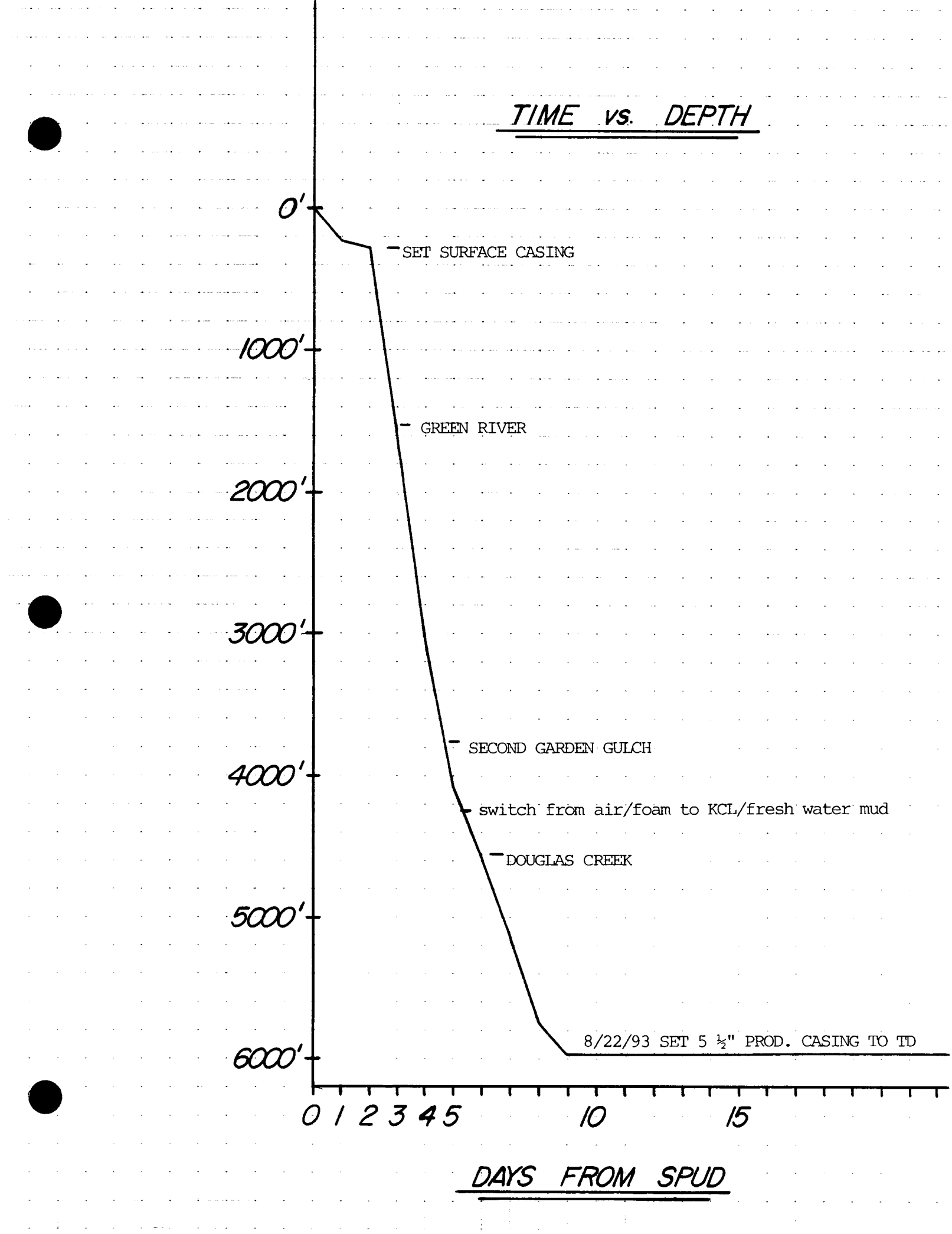
Roy L. Clement

Roy L. Clement
Wellsite Geologist

DAILY ACTIVITY

DAY	DATE	DEPTH	PROG	BIT	WOB	RPM	PP	WT*	VIS	WL	ACTIVITY	FORMATION
0	8/13/93	0'	0'	1	All	25	150	Air/Mist			Spud @ 1830 hours MDT	
1	8/14	231'	231'	1	6	10	200	8.4	27	n/c	Set Surface Casing	
2	8/15	275'	44'	2	45	45	150	8.4	27	n/c	Drill ahead	Uinta
3	8/16	1562'	1287'	2	45	50	200	8.3	27	n/c	Drill ahead	Green R.
4	8/17	3013'	1451'	2	50	50	250	8.4	27	n/c	Drill ahead	Green R.
5	8/18	4063'	1050'	2	40	55	260	8.4	27	n/c	Drill ahead	Green R.
6	8/19	4550'	487'	3	50	65	850	8.4	27	n/c	Trip for bit	Green R.
7	8/20	5122'	572'	3	50	65	875	8.4	27	n/c	Drill ahead	Douglas C.
8	8/21	5741'	619'	3	48	60	875	8.4	27	n/c	Drill to TD	Douglas C.
9	8/22	5950'	209'	-	--	--	---	Static	------		Run E-logs	Uteland B.

*Note: drilled with air and foam from under surface casing to 4251', switched to KCL and Fresh water from 4251' to TD.


TIME vs. DEPTH
0'
1000'
2000'
3000'
4000'
5000'
6000'
SET SURFACE CASING
GREEN RIVER
SECOND GARDEN GULCH
switch from air/foam to KCL/fresh water mud
DOUGLAS CREEK
8/22/93 SET 5 ½" PROD. CASING TO TD
0 1 2 3 4 5 10 15
DAYS FROM SPUD

BIT RECORD

CONTRACTOR: UNION DRILLING, RIG #17

SPUD: 8/13/93 **TOTAL DEPTH**: 8/21/93 **TOTAL ROTATING HOURS**: 150.00

BIT NO.	SIZE	TYPE/ MAKE	JETS SIZE	SERIAL #	DEPTH OUT	FEET	HOURS	ACCUM HOURS	WOB	RPM	DEV	PP	T	B	G
1	12 1/4	IR FB	open	9009391	275'	247'	8.5	8.5	6	10	-	200	-	-	-
2	7 7/8	HTC ATJ-44	24 24 24	X52PG	4251'	3976'	88.25	96.75	50	55	-	260	7	2	I
3	7 7/8	STC F-4H	13 13 13	KV8802	5950'	1699'	53.25	150.00	50	65	1.5^0	875	4	2	I

DEVIATION SURVEYS

DEPTH	DEVIATION
300'	3/4°
597'	1/2°
1050'	1 1/4°
1530'	1 1/4°
2030'	1 1/4°
2530'	1°
3030'	1 1/2°
3530'	1 3/4°
4063'	1 3/4°
4560'	2 1/2°
5059'	1 1/2°
5523'	2 1/4°
5950'	1 1/2°

FORMATION TOPS AND STRUCTURAL RELATIONSHIPS

SUBJECT WELL: Balcron Federal #21-13Y; NE NW Sec 13, T9S, R16E KB: 5543'
OFFSET #1: Gov't C&O #4; NE SW Sec 12, T9S, R16E KB: 5462'

AGE and FORMATION	PROG	SAMPLE	E-LOG	DATUM	THICK	DIP TO OFFSET #1
TERTIARY						
Uinta	Surface					
Green River	1456'	1465'	1492'	4051'	2274'	+ 67'
2nd Garden Gulch	3777'	3770'	3766'	1777'	338'	+103'
Y-3	4095	4084'	4104'	1439'	16'	+ 83'
Y-4	4315'	4304'	4308'	1235'	18'	+ 99'
Douglas Creek	4567'	4560'	4561'	982'	149'	+ 98'
R-5	4737'	4748'	4751'	792'	14'	+ 78'
G-1	4900'	Absent	----	----	----	----
G-4	5097'	Absent	----	----	----	----
Carbonate Mkr.	5412'	5410'	5410'	133'	430'	NDE
Uteland Butte	----	5836'	5840'	-297'	----	NDE

REFERENCE WELL

G. S. Cambell ETAL
GOVERNMENT C&O #4
NE SW SEC 12, T9S, R16E
KB: 5462'

AGE and FORMATION	DEPTH	DATUM	THICK
TERTIARY			
Uinta	Surface		
Green River	1478'	3984'	2310'
2nd Garden Gulch	3788'	1674'	318'
Y-3	4106'	1356'	10'
Y-4	4326'	1136'	13'
Douglas Creek	4578'	884'	170'
R-5	4748'	714'	28'
G-1	4911'	551'	15'
G-4	5108'	354'	30

LITHOLOGY

Sampling Program: 50' samples were taken beginning at 1400' with 30' samples were taken from 3800' to total depth. All samples were lagged and caught by mud loggers. Descriptions begin at 1400' in the lower Uinta formation. Sample quality was fair unless noted otherwise.

1400' - 1450'	Sandstone:	white, salt and peppered, fine to medium grained, angular, poorly sorted, predominantly unconsolidated, micaceous, interbedded with
	Shale:	light brown to graybrown, firm, blocky

Sample Top: Green River Formation @ 1450'

1450' - 1550'	Dolomite	tan to light graybrown, cryptocrystalline, firm, dense, calcareous in part, very argillaceous, grading to
	Shale:	light graybrown to brown, firm, blocky to sub platy, calcareous
1550' - 1750'	Dolomite:	light brown to graybrown, cryptocrystalline, firm, slightly hard and siliceous in part, dense to slightly chalky, calcareous in part, pyritic, very argillaceous, interbedded with
	Shale:	light gray to tan, firm, blocky to platy, calcareous to dolomitic, trace Pyrite
1750' - 1900'	Shale:	gray to graybrown, tan, firm, blocky to platy, calcareous to dolomitic, abundant Pyrite, grading to
	Dolomite:	tan to light graybrown, cryptocrystalline, firm, dense to slightly chalky, calcareous, argillaceous to shaly, siliceous in part
1900' - 2110'	Dolomite:	brown to graybrown, crypto to microcrystalline, firm, dense to micritic, calcareous in part, pyritic, argillaceous to shaly, trace white calcite and calcite healed fractures, interbedded with

	Shale:	gray to graybrown, tan, firm, blocky to platy, dolomitic to calcareous, trace Pyrite
2110' - 2150'	Limestone:	light gray to tan, microcrystalline, firm, chalky to fragmental, argillaceous, dolomitic, grading to
	Shale:	light brown to graybrown, firm, blocky to platy, calcareous
2150' - 2300'	Shale:	brown to graybrown, firm, blocky to platy, trace Pyrite, calcareous to marly, trace white to light orange calcite crystals
2300' - 2450'	Shale:	light to medium gray, graybrown, firm, platy to sub blocky, calcareous to dolomitic, trace Pyrite, grading to Dolomite in part
2450' - 2550'	Dolomite:	light gray to graybrown, cream in part, microcrystalline, firm, dense to slightly chalky, calcareous in part, argillaceous and grading to Shale: as above
2550' - 2660'	Sandstone:	white to light graywhite, very fine to medium grained, sub angular to sub rounded, poorly sorted, predominantly unconsolidated, Pyritic to Bituminous, trace brown spotty oil stain, scattered dull yellowgreen fluorescence, moderate yellowwhite streaming cut, interbedded with
	Shale:	light gray to graybrown, firm blocky to platy, calcareous, Pyritic
2660' - 2750'	Sandstone:	white to light brown, very fine grained, sub angular, fair sorting, unconsolidated, brown spotty oil stain and asphaltic residue, oil and tar on pits, dull gold fluorescence, immediate yellowgreen streaming to diffuse cut
2750' - 2840'	Shale:	medium to dark gray, graybrown, firm, platy, slightly calcareous, silty, Pyritic, interbeds of Sandstone: as above
2840' - 2940'	Sandstone:	light gray, salt & peppered, fine

		to medium gray, sub angular, poor sorting, fair consolidation and calcareous cemented, pyritic, interbeds of Shale: as above
2940' - 3000'	Dolomite:	tan to light graybrown, cream, crypto to microcrystalline, firm to slightly hard and siliceous, dense, argillaceous to shaly
3000' - 3050'	Limestone:	cream to buff, micro to very fine crystalline, firm, chalky, bioclastic to oolitic in part, dolomitic
3050' - 3100'	Sandstone:	white to light graywhite, very fine to fine grained, angular to sub angular, fair sorting, unconsolidated, calcareous cement in part, grading to Siltstone in part, trace brown spotty oil stain, dull gold fluorescence, moderate yellowgreen streaming cut
3100' - 3150'	Dolomite:	light to medium brown, graybrown, cryptocrystalline, firm to slightly hard and siliceous, dense, argillaceous, grading to Shale
3150' - 3250'	Limestone:	white to cream, microcrystalline, soft to firm, chalky to earthy, fragmental in part, interbedded with
	Shale:	light to medium gray, graybrown, firm, blocky to platy, calcareous
3250' - 3300'	Sandstone:	light gray, salt & peppered in part, fine to medium grained, sub angular, poorly sorted, fairly consolidated with calcareous to siliceous cement, grading to
	Siltstone:	light gray, firm, calcareous
3300' - 3365'	Limestone:	light brown, cream, crypto to microcrystalline, firm, dense to slightly chalky, argillaceous, interbeds of
	Shale:	gray to graybrown, soft to firm, blocky to platy, calcareous
3365' - 3400'	Sandstone:	white to light gray, very fine to fine grained, sub angular, fair sorting, unconsolidated

3400' - 3600'	Shale:	light to medium gray, graybrown, firm, blocky to platy, calcareous, grading to Siltstone in part, interbeds of
	Limestone:	tan to cream, microcrystalline, soft to firm, chalky to earthy, slightly argillaceous
3600' - 3700'	Dolomite:	tan to light graybrown, crypto to microcrystalline, firm, dense to chalky, argillaceous, calcareous in part, interbedded with
	Shale:	gray, brown to graybrown, firm, blocky to platy, calcareous to slightly silty
3700' - 3770'	Siltstone:	light to medium gray, firm, calcareous, grading to very fine grained Sandstone in part

Sample Top: Second Garden Gulch @ 3770'

3770' - 3806'	Limestone:	cream to buff, white in part, cryptocrystalline, soft to firm, chalky to earthy, dolomitic in part, argillaceous

Note: 30' samples beginning @ 3800'

3806' - 3880'	Siltstone:	light gray to graywhite, firm to slightly hard, calcareous, grading to
	Sandstone:	white to graywhite, very fine grained, sub angular, fair sorting, poor to fair consolidation with calcareous cement
3880' - 3930'	Shale:	light to medium gray, graybrown, firm, blocky, calcareous, silty to arenaceous, occasional interbeds of
	Limestone:	tan to cream, microcrystalline, firm, dense to chalky, argillaceous to dolomitic
3930' - 4050'	Siltstone:	light to medium gray, graywhite, firm to slightly hard, calcareous, grading to shale, occasional interbeds of Limestone: as above
4050' - 4084'	Siltstone:	gray to graywhite, firm to slightly hard, calcareous, grading to very fine grained sandstone in part, pyritic

Sample Top: Y-3 @ 4084'

4084' - 4092'	Sandstone:	light brown to white, fine to medium grained, angular, fair sorting, poor to fair consolidation, brown uniform oil stain through out, dull gold to yellowgreen fluorescence, immediate bright yellowgreen streaming to diffuse cut
4092' - 4251'	Siltstone:	light gray to graywhite, firm to slightly hard, calcareous, pyritic, grading to
	Shale:	gray to graybrown, firm, platy to blocky, calcareous

Note: Tripped for bit @ 4251' and switched from air & foam to KCL & fresh water drilling mud

4251' - 4320'	Shale:	light to medium gray, graybrown, firm, blocky to platy, calcareous, pyritic, grading to
	Siltstone:	light gray, firm, calcareous, sandy in part, very poor samples, abundant uphole cavings after trip

Note: 20' samples beginning @ 4300'

Sample Top: Y-4 @ 4304'

4304' - 4320'	Sandstone:	white, salt & peppered, fine to medium grained, angular to sub angular, poor sorting, fair consolidation, calcareous cement, trace brown spotty oil stain, bright yellowgreen fluorescence, immediate bright yellowgreen streaming cut
4320' - 4340'	Siltstone:	gray to graybrown, firm to slightly hard, calcareous
4340' - 4360'	Shale:	graybrown to brown, firm, blocky to platy, calcareous, silty, trace Pyrite
4360' - 4366'	Sandstone:	white to light gray, salt & peppered, fine to medium grained, angular to sub angular, poor sorting, fair consolidation, calcareous cement, tight
4366' - 4394'	Shale:	light to medium gray, firm, blocky,

		calcareous, trace Pyrite, silty and grading to siltstone
4394' - 4400'	Sandstone:	white to light gray, fine to medium grained, angular to sub angular, poor sorting, fair consolidation, calcareous cement, tight
4394' - 4436'	Shale:	graybrown to brown, firm, blocky to platy, calcareous to dolomitic, silty
4436' - 4446'	Sandstone:	gray to graywhite, brown in part, fine to medium grained, angular to sub rounded, poor sorting, fair consolidated, calcareous cement, brown spotty oil stain, dull gold fluorescence, moderate yellowgreen streaming cut
4446' - 4500'	Shale:	gray to graybrown, firm, blocky to platy, calcareous, silty in part, trace Pyrite
4500' - 4560'	Shale:	as above with occasional interbeds of
	Limestone:	tan to light gray brown, microcrystalline, firm, chalky to earthy, argillaceous

Sample Top: Douglas Creek @ 4560'

4560' - 4580'	Limestone:	cream to buff, tan, microcrystalline, soft, chalky to earthy, slightly argillaceous
4580' - 4636'	Shale:	light gray, graybrown to brown, firm, blocky to sub platy, slightly calcareous, silty
4636' - 4706'	Limestone:	tan to light gray, crypto to microcrystalline, firm, dense to chalky, slightly argillaceous, dolomitic in part, interbedded with
	Shale:	light gray to graybrown, firm, blocky to sub platy, calcareous to silty, pyritic
4706' - 4712'	Sandstone:	light gray to white, light brown in part, very fine to fine grained, sub angular, fair sorting, poorly consolidated to unconsolidated, calcareous cement in part, trace brown spotty oil stain & dull gold fluorescence, yellowwhite diffuse

		to streaming cut
4712' - 4748'	Shale:	light to medium gray, firm, platy to blocky, calcareous to silty

Sample Top: R-5 @ 4748'

4748' - 4762'	Sandstone:	light brown to white, very fine to fine grained, sub angular, fair sorting, poor to fair consolidation, calcareous cement, brown spotty oil stain and oil on pits, bright yellowgreen fluorescence, moderate yellowgreen streaming cut
4762' - 4798'	Shale:	light to medium gray, graybrown, firm, blocky to platy, calcareous, silty in part
4798' - 4812'	Shale:	as above, grading to Siltstone
4812' - 4910'	Shale:	light to medium gray, graybrown to brown, firm, blocky to sub platy, calcareous to marly in part, silty, trace Limestone: tan to light graybrown, microcrystalline, firm, chalky, argillaceous
4910' - 4944'	Shale:	dark brown to grayblack, soft, platy, calcareous, carbonaceous, no fluorescence, slow yellowwhite streaming cut, trace Sandstone: white to light brown, fine to medium grained, sub angular, poor sorting, fair consolidation, calcareous cement, trace brown spotty oil stain, moderate yellowgreen fluorescence, moderate yellowgreen streaming cut
4944' - 4970'	Siltstone:	light gray to graywhite, firm to slightly hard, calcareous, grading to Shale in part
4970' - 5028'	Shale:	light to medium gray, graybrown, firm, blocky to sub platy, calcareous, grading to
	Siltstone:	gray to graywhite, firm to slightly hard, calcareous
5028' - 5044'	Sandstone:	light brown to white, very fine to medium grained, sub angular, poor sorting, fairly consolidated,

		calcareous cement, brown spotty oil stain, moderate yellowgreen spotty fluorescence, moderate yellowgreen streaming cut
5044' - 5060'	Shale:	gray to graybrown, soft to firm, platy, calcareous to carbonaceous, silty in part
5060' - 5080'	Sandstone:	white to light brown, fine to medium grained, sub angular, poor to fair sorting, fair consolidation, brown spotty oil stain, moderate yellowgreen spotty fluorescence, yellowgreen streaming cut, grading to Siltstone in part
5080' - 5134'	Shale:	light to medium gray, graybrown, firm, platy to blocky, calcareous, grading to
	Siltstone:	gray to graywhite, firm, calcareous
5134' - 5184'	Shale:	light to medium gray, graybrown, firm, platy to blocky, calcareous to silty, trace Sandstone: light brown to white, very fine grained, sub angular, fair consolidation, fair sorting, trace brown spotty oil stain, moderate yellowgreen spotty fluorescence, yellowgreen streaming cut
5184' - 5216'	Shale:	gray to graybrown, becoming dark gray, firm, platy to blocky, calcareous to silty in part, trace Pyrite
5216' - 5244'	Shale:	dark gray to grayblack, soft to firm, calcareous to marly, carbonaceous to petroliferous, no fluorescence, slow yellowwhite streaming to diffuse cut
5244' - 5296'	Shale:	dark brown to black, soft to firm, platy, very slightly calcareous, carbonaceous to petroliferous trace white calcite and pyrite, no fluorescence, cut as above
5296' - 5338'	Shale:	black to blackbrown, soft to firm, platy to blocky in part, slightly calcareous in part, trace pyrite and white to brown calcite crystals, carbonaceous to

petroliferous, no fluorescence, slow yellowwhite streaming to diffuse cut

5338' - 5382' Shale: grayblack to black, soft, platy to fissile in part, calcareous, carbonaceous to petroliferous, trace pyrite, no fluorescence, cut as above

5382' - 5410' Shale: light to medium gray, grayblack, platy to blocky, firm, calcareous to marly, silty, interbeds of

Siltstone: light to medium gray, firm, calcareous

Sample Top: Carbonate Marker @ 5410'

5410' - 5420' Limestone: white to cream, tan, microcrystalline, soft, chalky to earthy, slightly argillaceous to arenaceous

5420' - 5456' Siltstone: light gray to graywhite, firm to slightly hard, calcareous, grading to very fine grained sandstone in part

5456' - 5482' Sandstone: light gray to white, fine to medium grained, sub angular, poor sorting, fair consolidation, calcareous cement, grading to Siltstone, trace brown oil stain, dull yellowgreen fluorescence, slow yellowwhite streaming cut

5482' - 5528' Siltstone: light to medium gray, firm, calcareous, interbeds of

Shale: gray to graybrown, firm, blocky, calcareous, trace pyrite

5528' - 5542' Shale: dark gray, blackbrown, soft, platy, calcareous to marly, carbonaceous, trace pyrite

5542' - 5596' Siltstone: light to medium gray, graywhite, firm to slightly hard, calcareous, grading to very fine grained sandstone in part, interbeds of Shale: as above

5596' - 5682' Sandstone: white to light gray, fine to medium grained, sub angular. poor sorting, fair consolidation, calcareous

		cement, tight, grading to
	Siltstone:	light to medium gray, firm to slightly hard, calcareous
5682' - 5710'	Siltstone:	gray to graywhite, firm to slightly hard, calcareous, interbeds of
	Shale:	light to medium gray, graybrown, firm, blocky to platy, calcareous to marly
5710' - 5772'	Sandstone:	white to light gray, fine to medium grained, sub angular to sub rounded, poor sorting, poorly consolidated to unconsolidated, grading to Siltstone
5772' - 5800'	Shale:	dark gray to black, platy to blocky, firm, slightly calcareous, carbonaceous, no fluorescence, dull yellowwhite streaming cut
5800' - 5836'	Limestone:	tan to buff, light graybrown, microcrystalline, firm, micritic to slightly chalky, dolomitic, interbeds of Shale: as above

Sample Top: Uteland Butte @ 5836'

5836' - 5858'	Limestone:	dark brown to black, microcrystalline, firm, dense to earthy, slightly argillaceous, abundant dark brown organic material
5858' - 5888'	Limestone:	as above, grading to
	Shale:	black to grayblack, firm, platy, calcareous to marly, carbonaceous
5888' - 5950'	Shale:	dark brown to graybrown, firm, platy, calcareous to marly, carbonaceous, grading to
	Limestone:	black to blackbrown, cryptocrystalline, firm to slightly hard and siliceous, dense to earthy, argillaceous to shaly, abundant dark brown organic material

Note: Driller's Total Depth @ 5950'

LOGGING REPORT

Logging Company: Schlumberger **Engineer**: Jeff Gebhart **Date**: 8/21/93

Witnessed by: Roy Clement and Al Plunkett

Driller's TD Depth: 5950' **Logger's TD Depth**: 5956'

Driller's Casing Depth: 259' **Logger's Casing Depth**: 260'

Elevation: **GL**: 5533' **Sub**: 10' **KB**: 5543'

Mud Conditions: **Wt**: 8.4 **Vis**: 27 **WL**: n/c
BHT: 144^0 F

Hole Conditions: Good

Logging Time: **Time Arrived**: 1800 hrs **First Tool in Hole**: 1930 hrs
Last Tool Out: 2400 hrs **Time of Departure**: 0300 hrs

Electric Logging Program: 1.) Dual Laterlog with Gamma Ray & Caliper from 5941' to 260'; Compensated Neutron-Litho Density Log with Gamma Ray and Caliper from 5941' to 2400' (tools were stacked, one logging run was made; due to tool failure, the MSFL was not run).

Log Tops: Green River Formation @ 1492'; Second Garden Gulch @ 3766'; Y-3 @ 4104'; Y-4 @ 4308'; Douglas Creek @ 4561'; R-5 @ 4751'; Carbonate Marker @ 5410'; Uteland Butte @ 5840'; Total Depth @ 5956'.

Zones of Interest: 2680' to 2750': 70' averaging 17% porosity

Y-3 @ 4104' to 4116': 9' with 16-18% porosity

4243' to 4252': 9' with 16-19% porosity

Y-4 @ 4308' to 4326': 18' with 16-18% porosity

4439' to 4443': 3' with 14% porosity

R-5 @ 4751' to 4765': 14' with 14-16% porosity;

Note: The following pages contain log excerpts over zones of interest.

Schlumberger

SIMULTANEOUS

COMPENSATED NEUTRON-LITHO-DENSITY

COMPANY	BALCRON OIL COMPANY
WELL	BALCRON FEDERAL 21-13Y
FIELD	MONUMENT BUTTE
COUNTY	DUCHESNE STATE UTAH

DUCHE SHE / COUNTY
MONUMENT BUTTE / FIELD
703'FNL & 1830'FWL / LOCATION
BALCRON FEDERAL 21-13Y / WELL
BALCRON OIL COMPANY / COMPANY

LOCATION: 703'FNL & 1830'FWL
NE NW

Other Services:
DLL
LDT
CNL

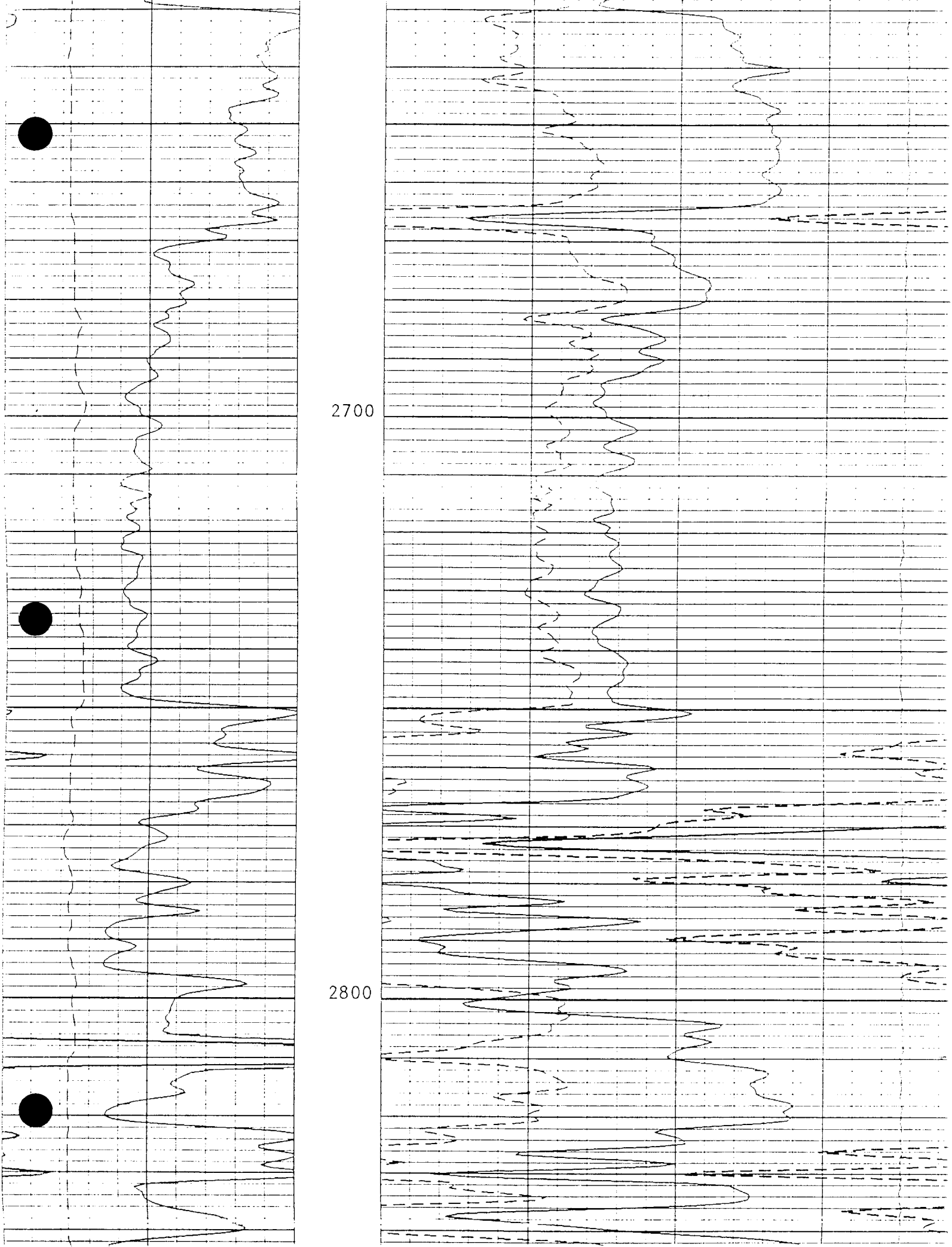
API SERIAL NO.	SECT.	TWP.	RANGE
43-013-31400	13	9S	16E

Permanent Datum	GROUND LEVEL	Elev.	5533.0 F
Log Measured From	KB	10.0 F	above Perm. Datum
Drilling Measured From	KB		

Elev.: K.B.5543.0 F
D.F.5542.0 F
G.L.5533.0 F

Date	21-AUG-1993		
Run No.	ONE		
Depth Driller	5950.0 F		
Depth Logger (Schl.)	5956.0 F		
Btm. Log Interval	5941.0 F		
Top Log Interval	2400.0 F		
Casing-Driller	8 5/8" @ 248.0 F	@	@
Casing-Logger	260.0 F		
Bit Size	7 7/8" @	@	@
Type Fluid in Hole	KCL WATER		
Dens. / Visc.	8.40 LB/G / 27.0 S		
pH / Fld. Loss	11.1		
Source of Sample	PIT		
Rm @ Meas. Temp.	.184 OHMM @ 84.0 DEGF	@	
Rmf @ Meas. Temp.	.184 OHMM @ 84.0 DEGF	@	
Rmc @ Meas. Temp.	@	@	
Source: Rmf / Rmc	MEAS / NA		
Rm @ BHT	.111 OHMM @ 144. DEGF	@	
TIME: Circulation Ended	8-21 @ 15:30		
TIME: Logger on Bottom	8-21 @ 20:01		
Max. Rec. Temp.	144. DEGF		
Equip. / Location	8264 / VERNAL,UT		
Recorded By	JEFF GEBHART		
Witnessed By	R.CLEMENT / A.PLUNKETT		

The well name, location and borehole reference data were furnished by the customer.


2700
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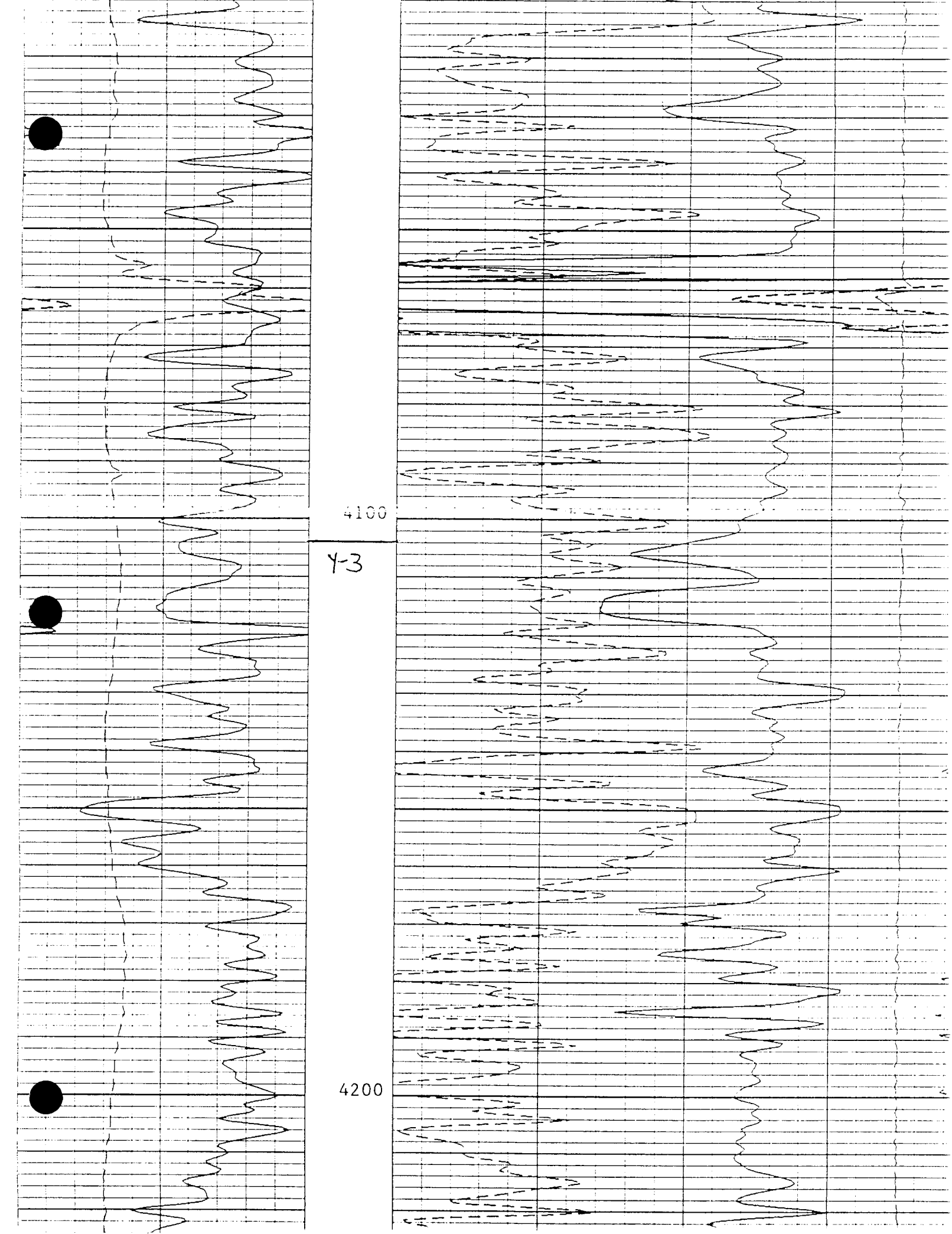
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Y-3
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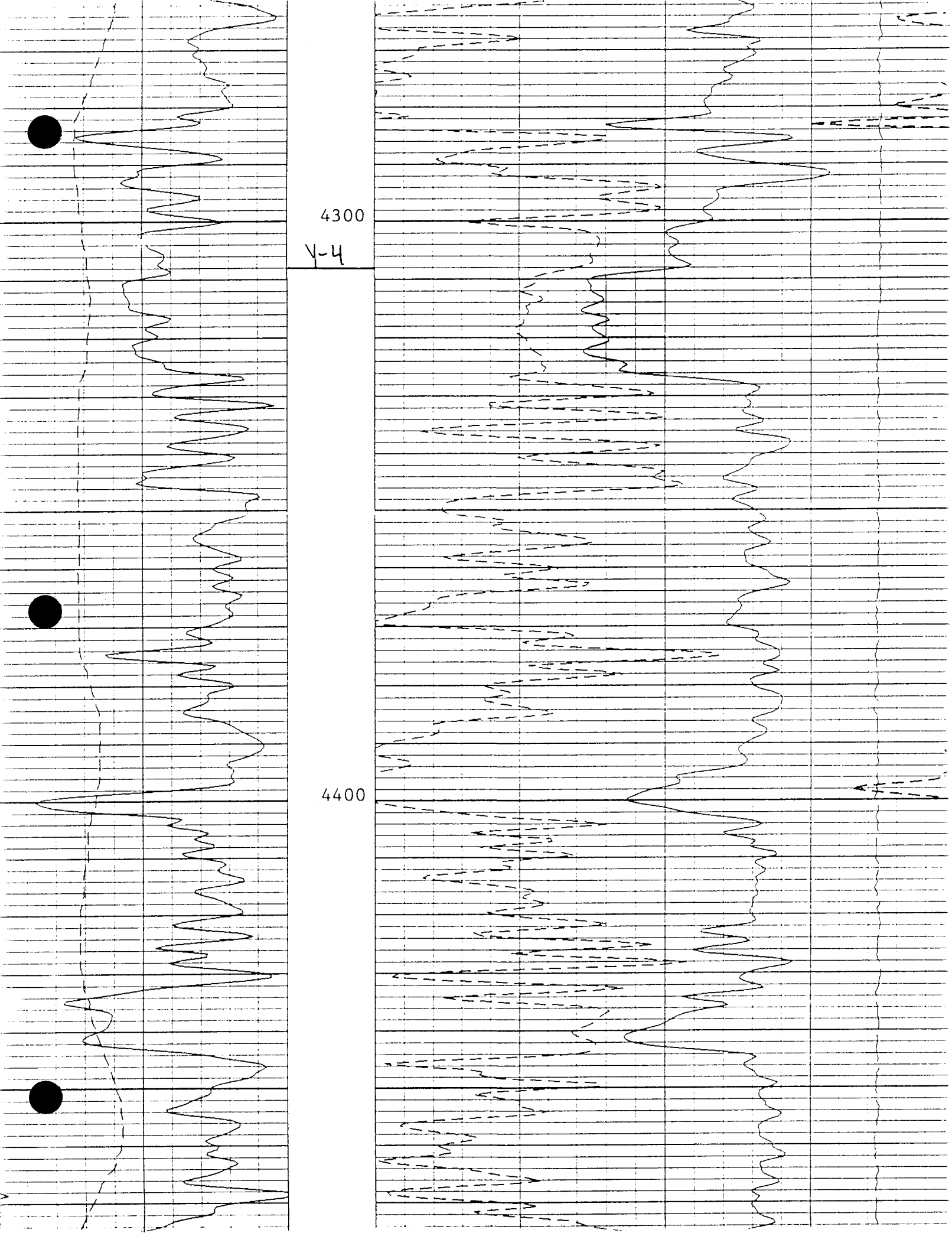
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Y-4
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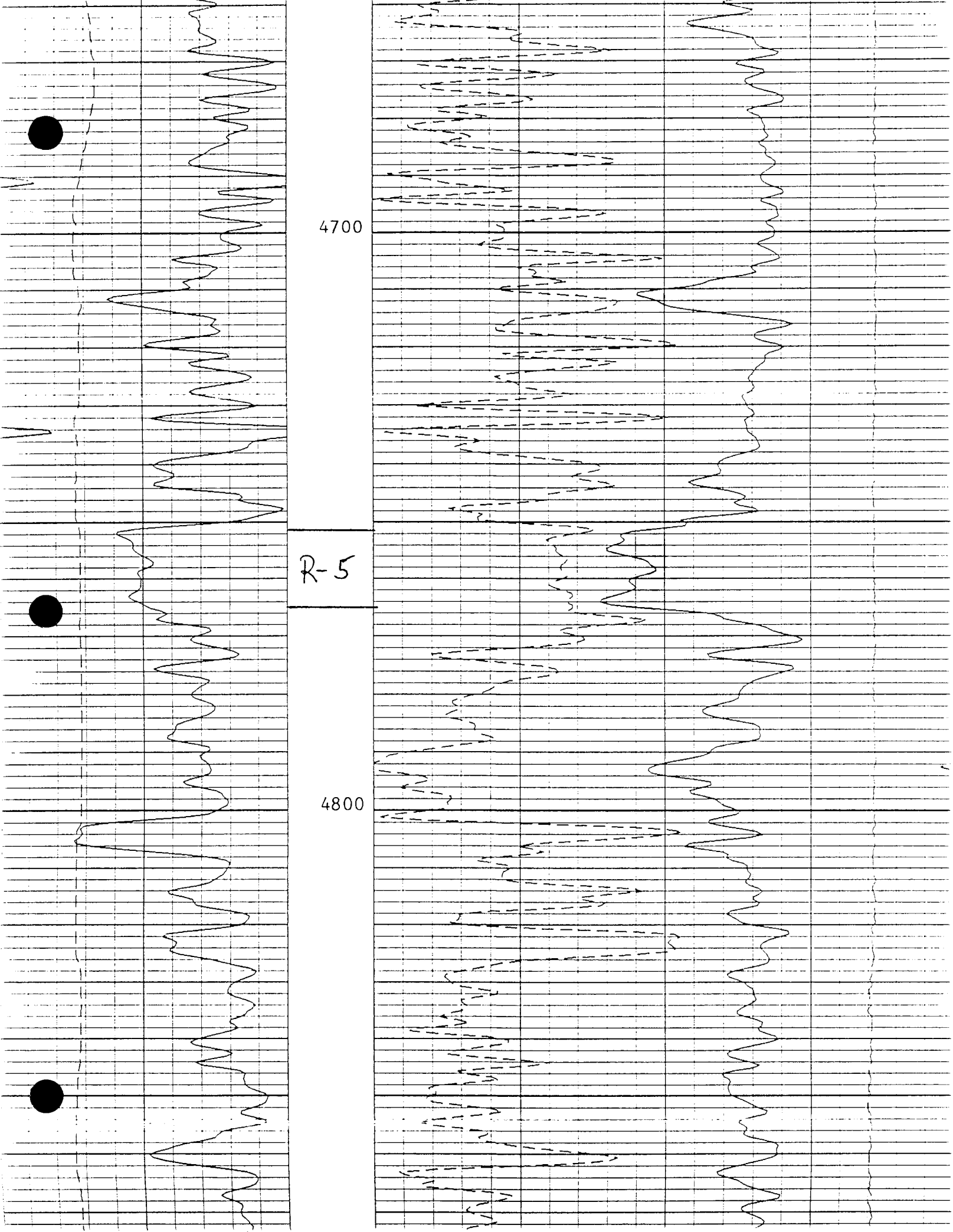

4700
R-5
4800

SEP 14

BALCRON OIL COMPANY

BALCRON FEDERAL #21-13Y

NE NW SECTION 13, T9S, R16E

DUCHESNE COUNTY, UTAH

Prepared by:

Roy L. Clement
c/o Clement Consulting
7703 Clark Avenue
Billings, Montana 59106
(406) 656-9514

Prepared for:

Keven K. Reinschmidt &
Steve VanDelinder
c/o Balcron Oil Company
Post Office Box 21017
Billings, MT 59104
(406) 259-7860

WELL DATA SUMMARY

OPERATOR:	BALCRON OIL COMPANY
ADDRESS:	Post Office Box 21017 Billings, Montana 59104
WELL NAME:	Balcron Federal #21-13Y
FIELD:	Monument Butte
LOCATION:	703' FNL & 1830' FWL NE NW SECTION 13, T9S, R16E
API#:	43-013-31400
COUNTY:	Duchesne
STATE:	Utah
BASIN:	Uinta
WELL TYPE:	Development Well and Potential Water Injection Well
BASIS OF PROSPECT:	Oil Production @ Monument Butte Field
ELEVATION:	**GL:** 5533' **SUB:** 10' **KB:** 5543'
SPUD DATE:	August 13, 1993 @ 1830 hrs MDT
TOTAL DEPTH/DATE:	5950' on August 21, 1993
TOTAL DRILLING DAYS:	8 **TOTAL ROTATING HOURS:** 150.00
STATUS OF WELL:	Cased for Completion on August 22, 1993
CONTRACTOR:	Union Drilling Company, Rig #17
TOOLPUSHER:	Dave Gray
FIELD SUPERVISOR:	Al Plunkett
MUD ENGINEER:	Craig Hart of Mustang Drilling Fluids
MUD TYPE:	Air/Foam from surface to 4251'; KCL/Fresh Water from 4251' to TD.
WELLSITE GEOLOGIST:	Roy L. Clement
PROSPECT GEOLOGISTS:	Keven K. Reinschmidt and Steve W. VanDelinder of Balcron Oil Company
MUDLOGGERS:	Larry Vodall and Scott Olson of Continental Labs
SAMPLING PROGRAM:	50' samples from 1400' to 3800'; 30' samples from

3800' to 4300'; 20' samples from 4300' to 5950' (TD). All samples lagged and caught by mud loggers. One dry set of samples sent to the state of Utah.

HOLE SIZE: 12 1/4" to 275'
7 7/8" to TD

CASING: 8 5/8" surface casing set at 259'
5 1/2" production casing to Total Depth

DRILL STEM TEST: None

CORE PROGRAM: None

ELECTRIC LOGGING PROGRAM:
1.) DLL//GR/CAL from 5941' - 260'
2.) LDT/CNL/GR/CAL from 5941' - 2400'

LOG TOPS: Green River @ 1492'; Second Garden Gulch @ 3766'; Y-3 @ 4104'; Y-4 @ 4308'; Douglas Creek @ 4561; R-5 @ 4751'; Carbonate Marker @ 5410'; Uteland Butte @ 5840; TD @ 5956'.

LOGGING COMPANY: Schlumberger
LOGGING ENGINEER: Jeff Gebhart

CORRELATION WELL: 1.) G. S. Campbell Et Al
Government C&O #4
Ne Sw Section 12, T9S, R16E

DISTRIBUTION LIST:

Balcron Oil Company
Attn: Keven K. Reinschmidt & Steve W. VanDelinder
Post Office Box 21017
Billings, MT 59104

Balcron Oil Company
Attn: Dale Griffen
275-CO.RD-120
Craig, CO 81625

Yates Petroleum Corporation
Attn: Mark Mauritsen
105 South Fourth Street
Artesia, NM 88210

Bureau of Land Management
Vernal District Office
170 South 500 East
Vernal, UT 84078

State of Utah
Division of Oil, Gas, and Mining
355 W. North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180

CLEMENT CONSULTING
7703 CLARK AVENUE
BILLINGS, MONTANA 59106
(406) 656-9514

SEP 14 1993

COMPANY: BALCRON OIL COMPANY
WELL: BALCRON FEDERAL NO. 21-13Y
LOCATION: NE NW (703' FNL & 1830' FWL) SEC. 13-T9S-R16E
DUCHESNE COUNTY, UTAH
DEPTH LOGGED: 1400' - 5950' DATE LOGGED: 16 AUG 93 - 21 AUG 93
KB: 5543' GL: 5533'
GEOLOGIST: ROY L. CLEMENT
CONTRACTOR: UNION DRILLING RIG 17
DRILLING FLUID: AIR/FOAM 0' - 4251'
KCL/WATER 4251' - TD

Porosity Oil Show

8 5/8" Surface Casing set at 259'

Drlg 7 7/8" Borehole w/ Bit 2 ATJ-44 in at 275'

LOG TOPS

API - GR

Sample Tops

DRILL RATE (min/ft)

0 1 2 3 4 5

1300

50' samples lagged & caught by mud loggers from 1400' to 3800'

1400

SS: wh, S & P, f-m gr, ang, p srt, pred unconsol mica, intbds of SH

Green River 1450'

GREEN RIVER
1492' (405')

DOL: tn-lt gybrn, crpxl, frm, dns, calc ip, v arg

1500

1 1/4°

SH: lt gybrn-brn, frm, blky-sub plty, calc

8/16/95

WOB 45
RPM 50
PP 200

P

1600

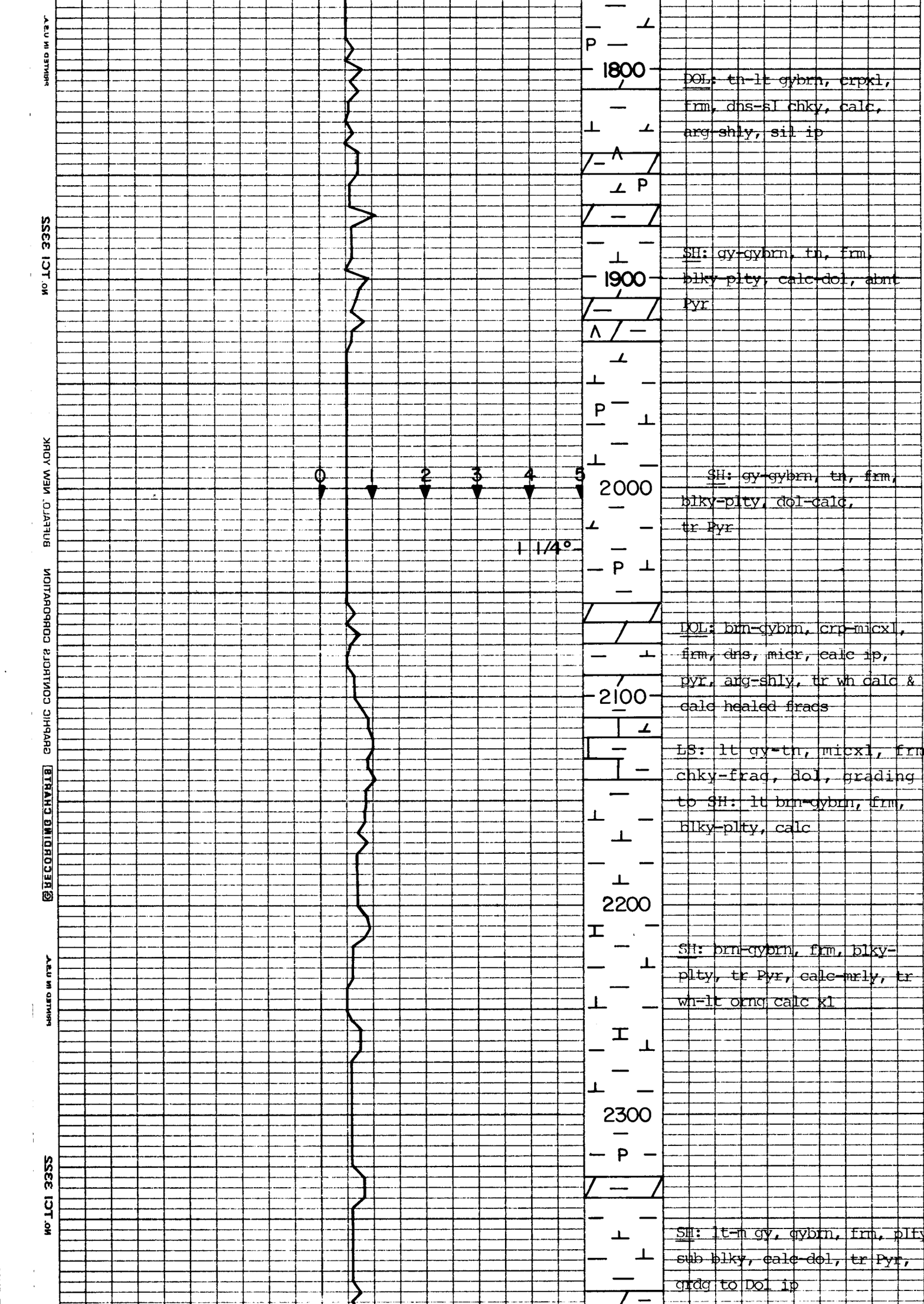
DOL: lt brn-gybrn, crpxl, frm, sl hd & sil ip, dns-sl chky, calc ip, Pyr, v arg

P

1700

SH: lt gy-tn, frm, blky-plty, calc-dol, tr Pyr

P



DOL: tn-lt gybrn, crpxl, frm, dns-sl chky, calc, arg-shly, sil ip

SH: gy-gybrn, tn, frm, blky-plty, calc-dol, abnt Pyr

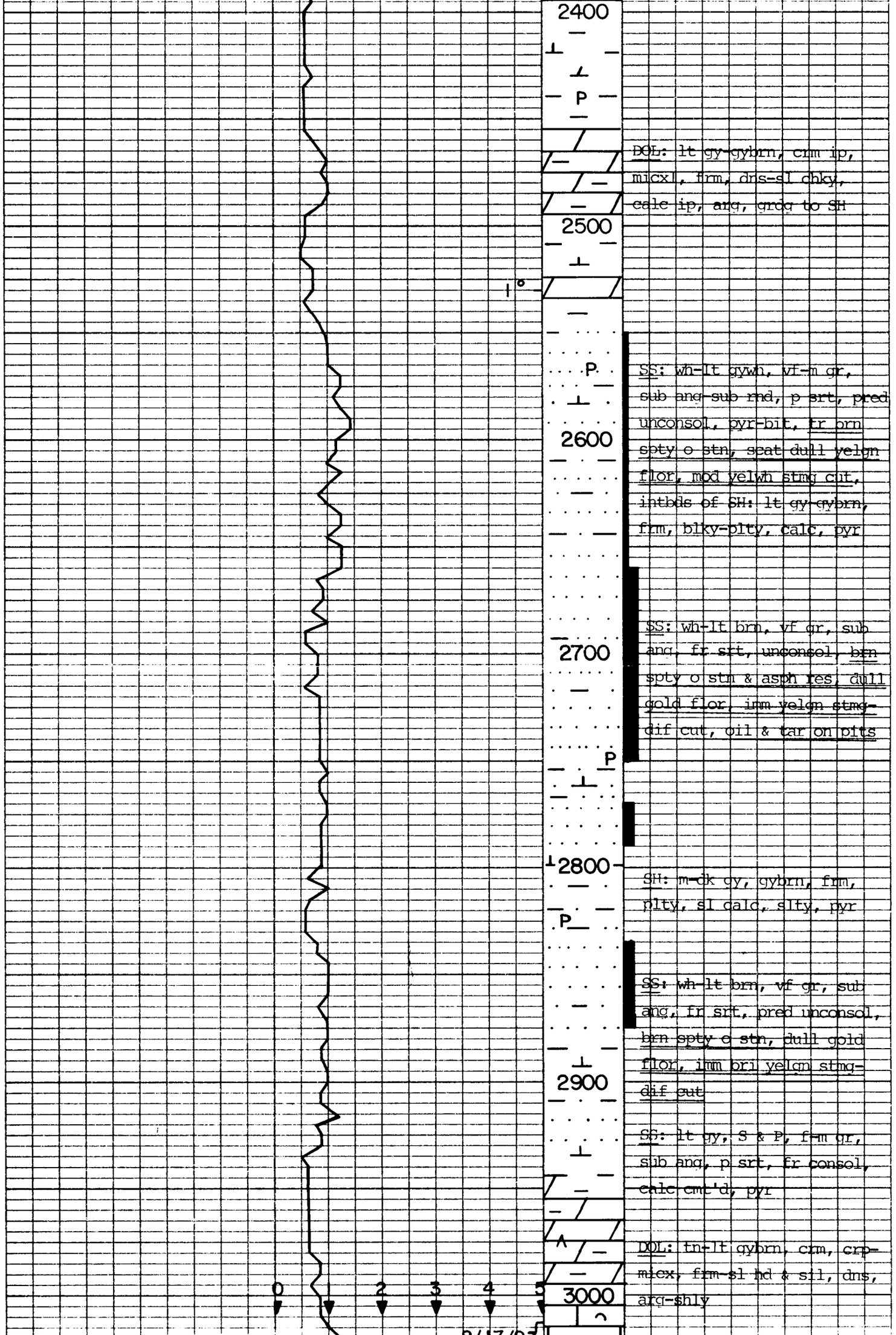
SH: gy-gybrn, tn, frm, blky-plty, dol-calc, tr Pyr

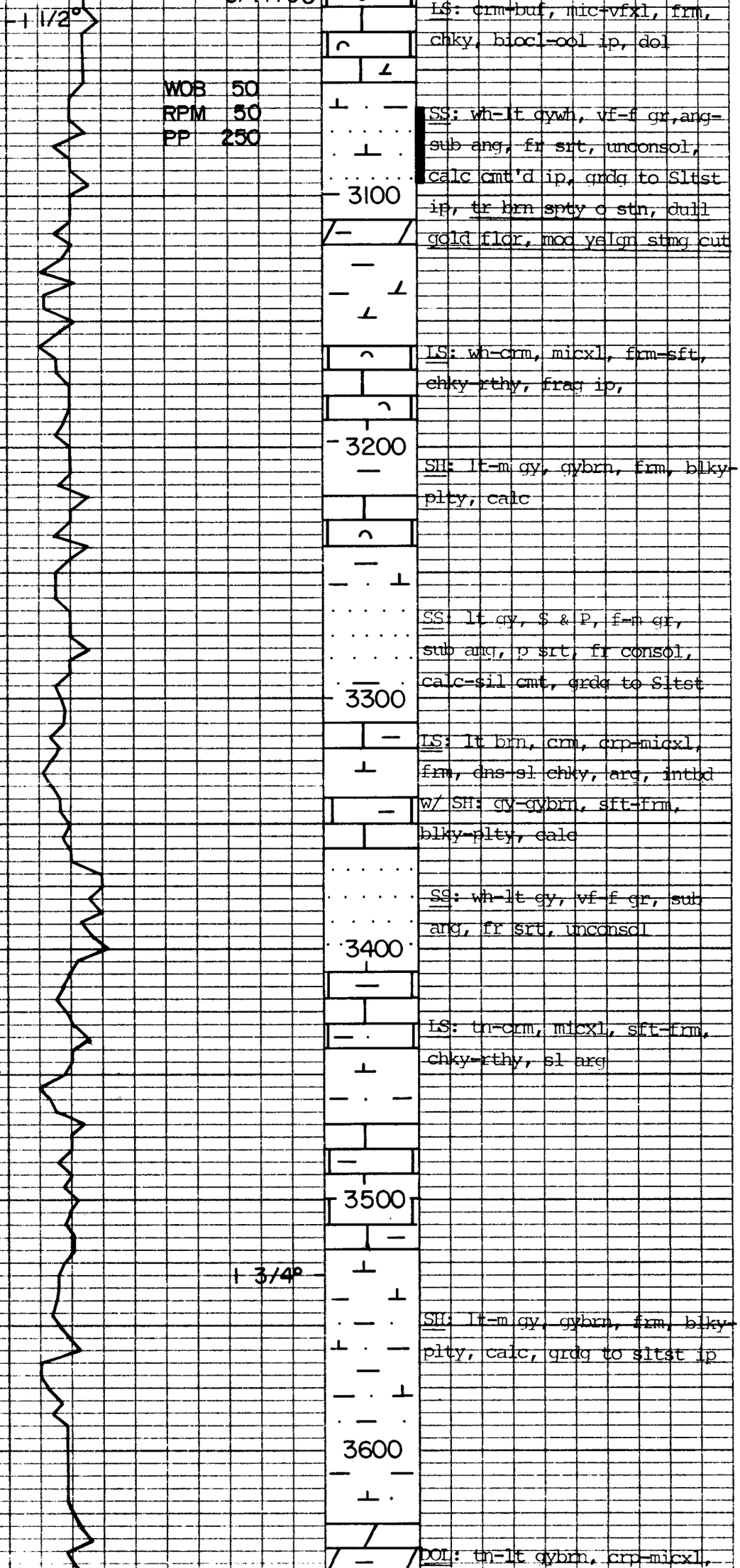
DOL: brn-gybrn, crp-micxl, frm, dns, micr, calc ip, pyr, arg-shly, tr wh calc & calc healed frads

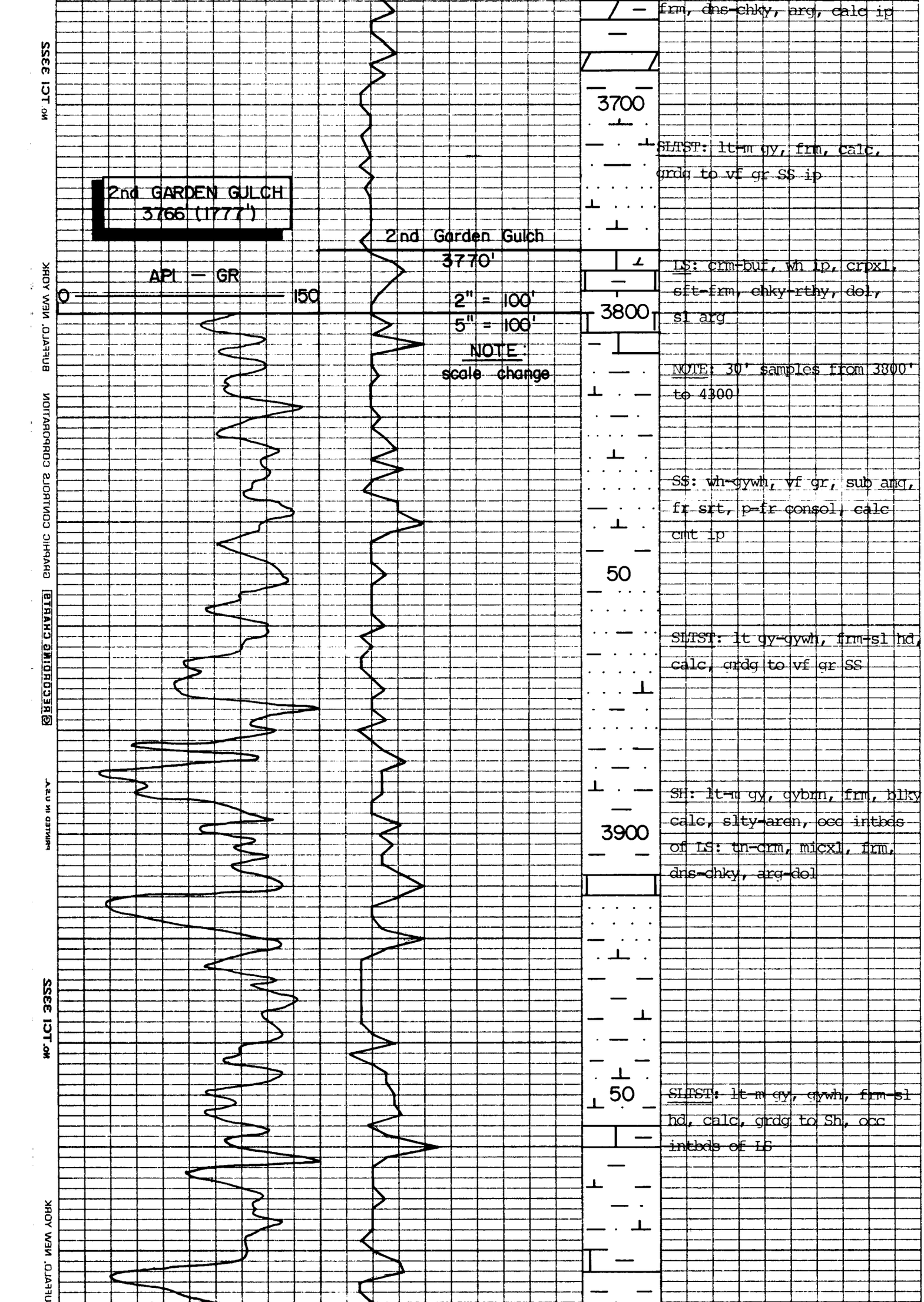
LS: lt gy-tn, micxl, frm, chky-frac, dol, grading to SH: lt brn-gybrn, frm, blky-plty, calc

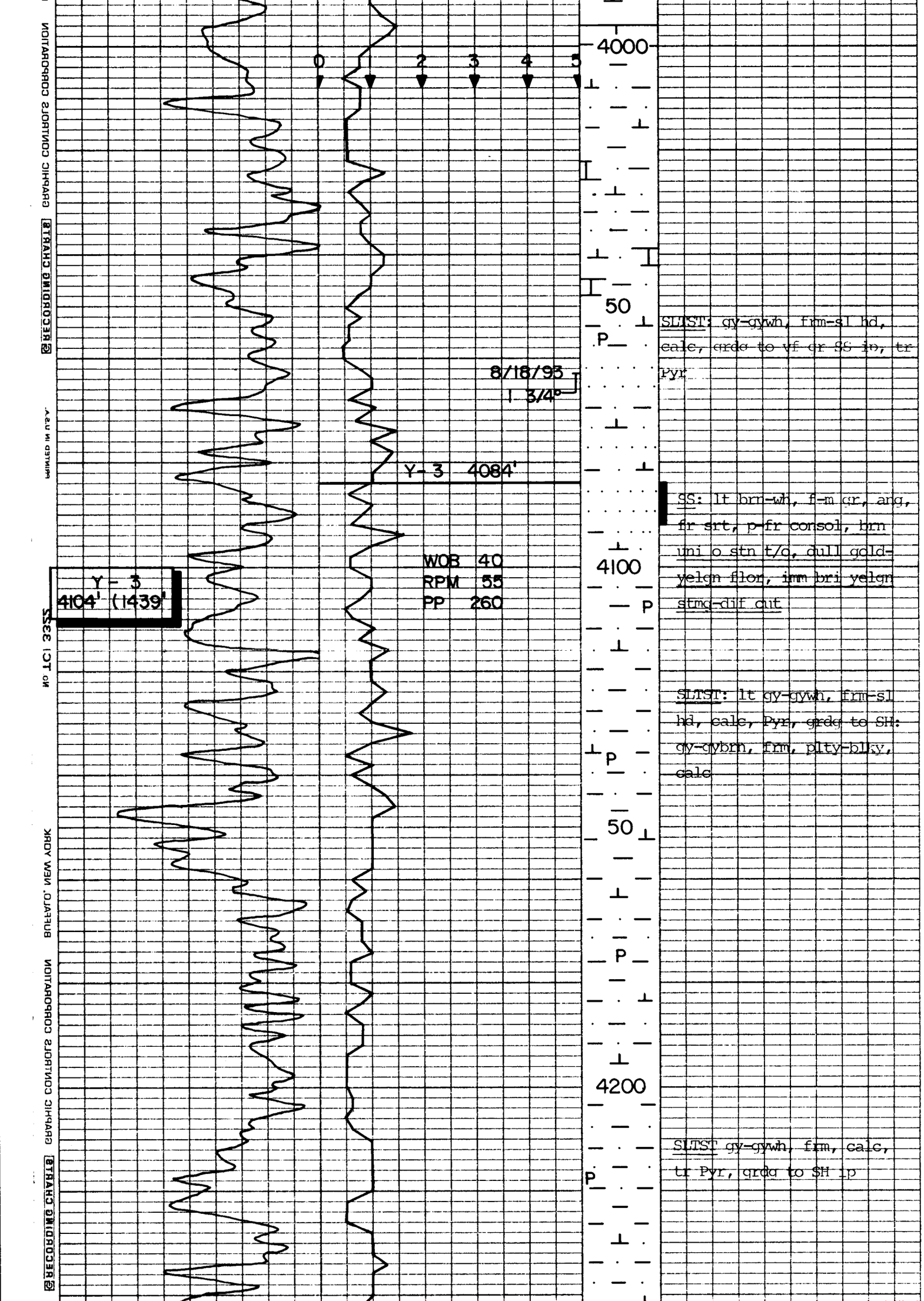
SH: brn-gybrn, frm, blky-plty, tr Pyr, calc-mrly, tr wh-lt orng calc xl

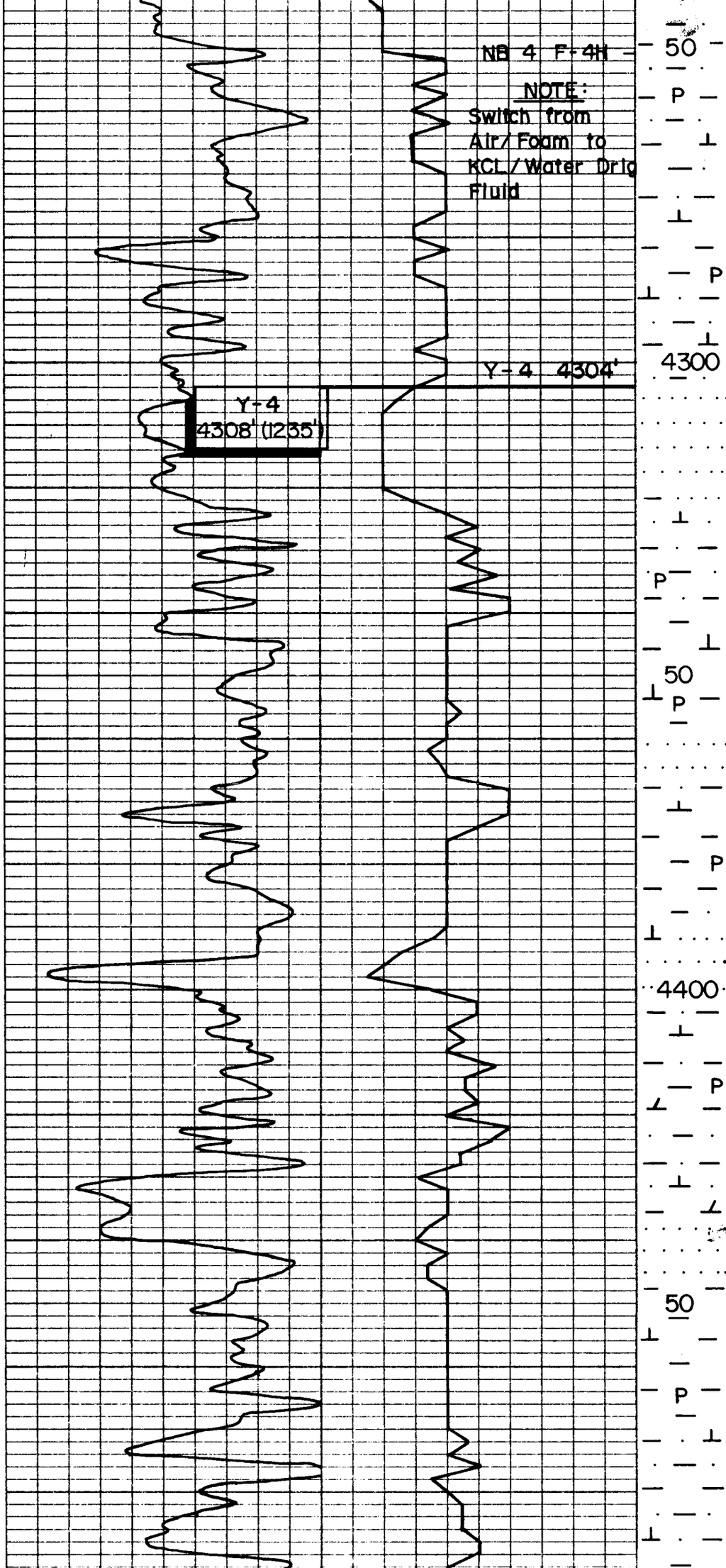
SH: lt-m gy, gybrn, frm, plty-sub blky, calc-dol, tr Pyr, grdg to Dol ip






2nd GARDEN GULCH
3766 (1777')
2nd Garden Gulch
3770'
API — GR
0
150
2" = 100'
5" = 100'
NOTE:
scale change
3700
3800
3900
50
50
frm, dns-chky, arg, calc ip
SLTST: lt-m gy, frm, calc, grdg to vf gr SS ip
LS: crm-buf, wh ip, crpxl, sft-frm, chky-rthy, dol, sl arg
NOTE: 30' samples from 3800' to 4300'
SS: wh-gywh, vf gr, sub ang, fr srt, p-fr consol, calc cmt ip
SLTST: lt gy-gywh, frm-sl hd, calc, grdg to vf gr SS
SH: lt-m gy, gybrn, frm, blky, calc, slty-aren, occ intbds of LS: tn-crm, micxl, frm, dns-chky, arg-dol
SLTST: lt-m gy, gywh, frm-sl hd, calc, grdg to Sh, occ intbds of LS


0
1
2
3
4
5
4000
50
4100
50
4200
8/18/93
1 3/4°
Y-3 4084'
WOB 40
RPM 55
PP 260
Y-3
4104' (1439'
SLTST: gy-gywh, frm-sl hd, calc, grdg to vf gr SS in, tr Pyr
SS: lt brn-wh, f-m gr, ang, fr srt, p-fr consol, brn uni o stn t/o, dull gold-yelgn flor, imm bri yelgn strmg-dif cut
SLTST: lt gy-gywh, frm-sl hd, calc, Pyr, grdg to SH: gy-gybrn, frm, plty-blky, calc
SLTST gy-gywh, frm, calc, tr Pyr, grdg to SH ip
P
RECORDED BY STRATA CHART
GRAPHIC CONTROLS CORPORATION BUFFALO, NEW YORK
MADE IN U.S.A.
No. ICI 3333



SH: lt-m gy, gybrn, frm, blky-plty, calc, pyr, grdg to SLTST: lt gy, frm, calc, sndy ip, very poor samples, abnt uphole cvgs after trip and mudding up

SS: wh, S & P, f-m gr, ang-sub ang, p srt, fr consol, calc cmt, tr brn spty o stn, bri yelgn flor, imm bri yelgn stmg cut

SH: gybrn-brn, frm, blky-plty, slty, tr pyr

SS: wh-lt gy, S & P, f-m gr, ang-sub ang, p srt, fr consol, calc cmt, tt

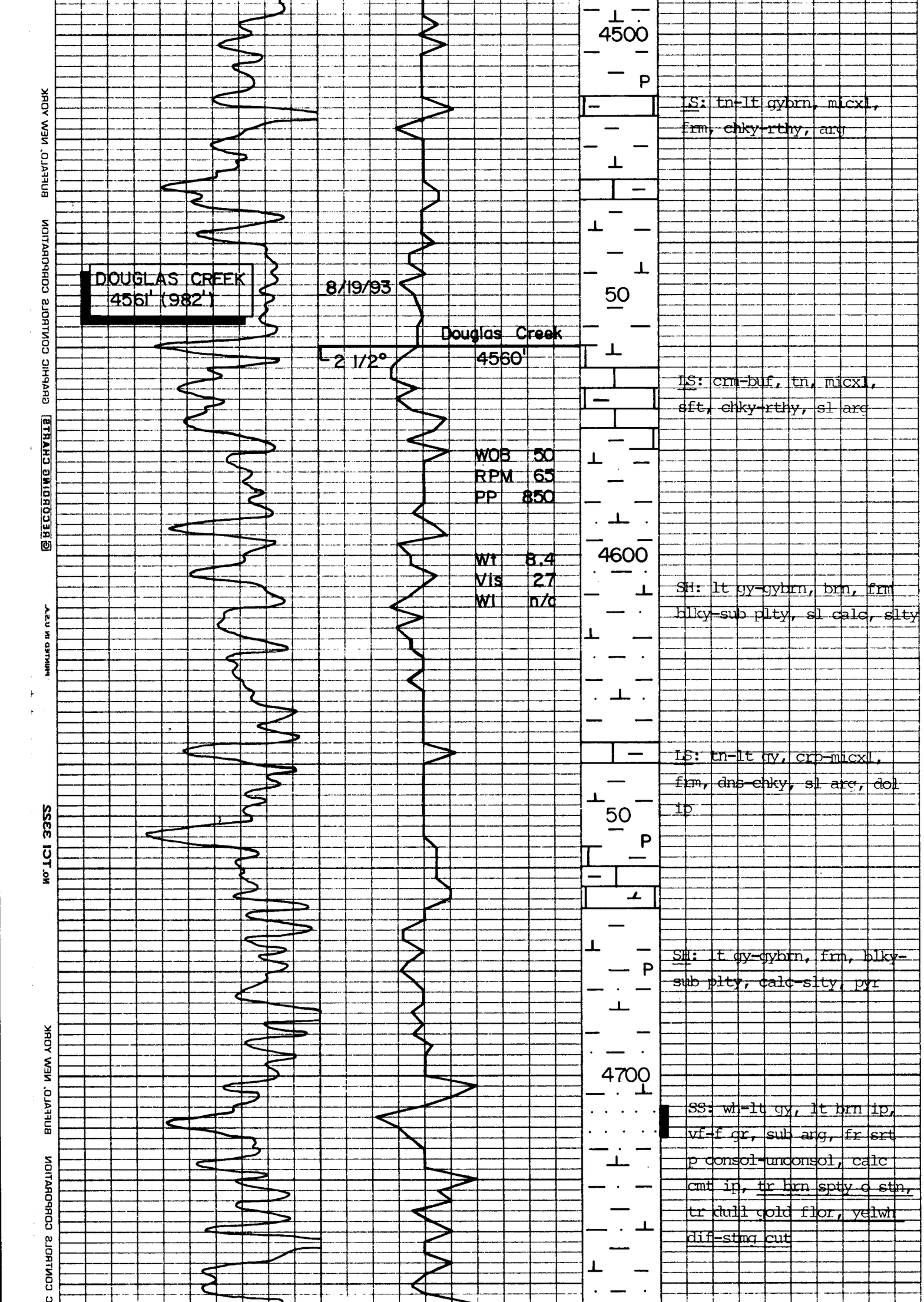
SH: lt-m gy, frm, blky, calc, tr Pyr, slty & grdg to SLTST

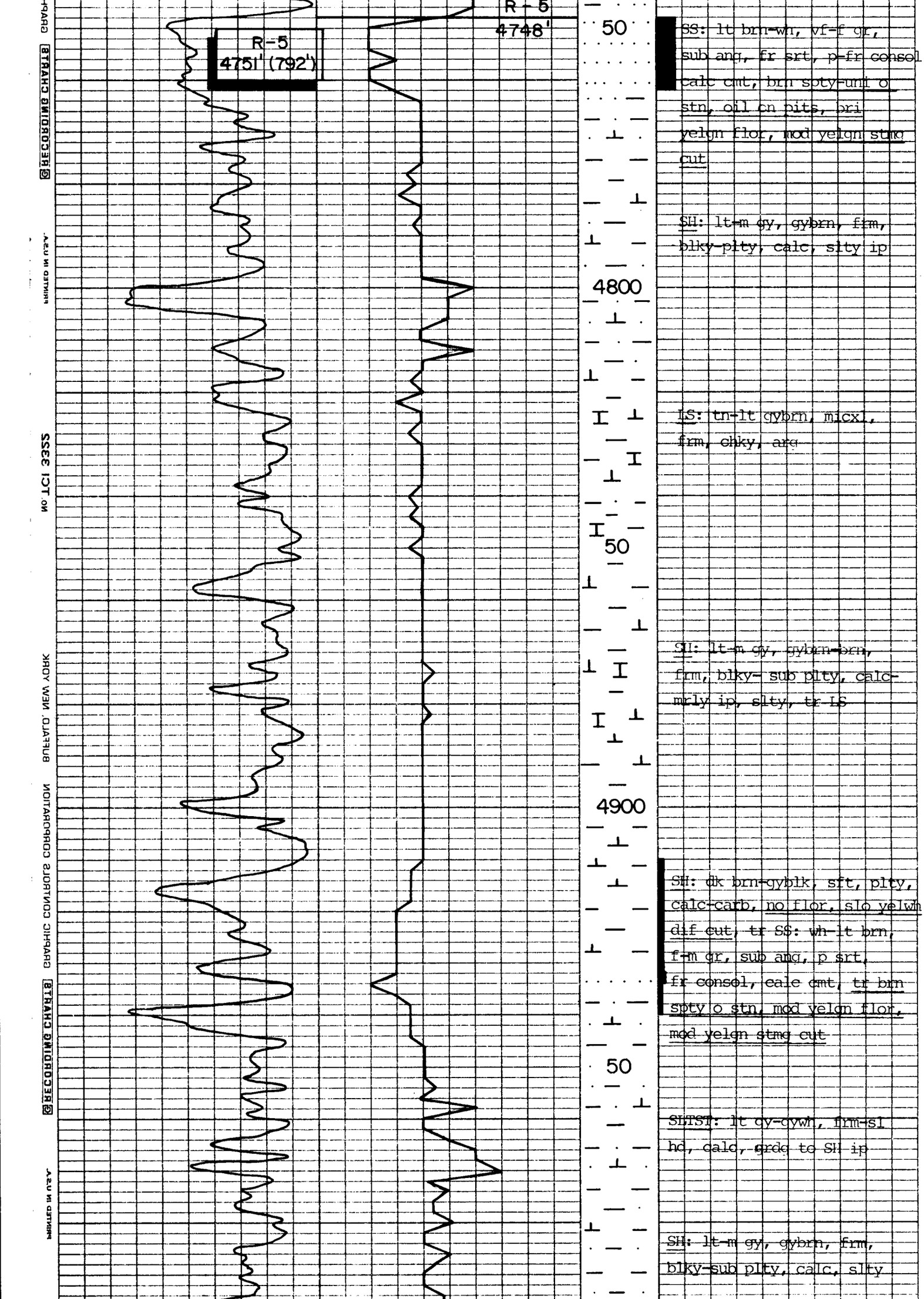
SS: wh-lt gy, f-m gr, ang-sub ang, p srt, fr consol, calc cmt, tt

SH: gybrn-brn, frm, blky-plty, calc-dol, slty

SS: gy-wh, brn ip, f-m gr, ang-sub ang, p srt, fr consol, calc cmt, brn spty o stn, dull gold flor, mod yelgn stmg cut

SH: gy-gybrn, frm, blky-plty, calc, slty ip, tr Pyr


DOUGLAS CREEK
4561' (982')
8/19/93
Douglas Creek
4560'
2 1/2°
WOB 50
RPM 65
PP 850
Wt 8.4
Vis 27
Wl n/c
4500
50
4600
50
4700
LS: tn-lt gybrn, micxl, frm, chky-rthy, arg
LS: crm-buf, tn, micxl, sft, chky-rthy, sl arg
SH: lt gy-gybrn, brn, frm blky-sub plty, sl calc, slty
LS: tn-lt gy, cpd-micxl, frm, dns-chky, sl arg, dol ip
SH: lt gy-gybrn, frm, blky-sub plty, calc-slty, pyr
SS: wh-lt gy, lt brn ip, vf-f gr, sub ang, fr srt p consol-unconsol, calc cmt ip, tr brn spty o stn, tr dull gold flor, yelwh dif-stmg cut
RECORDING CHART
GRAPHIC CONTROLS CORPORATION BUFFALO, NEW YORK
MOTCI 3SSE



SS: lt brn-wh, vf-f gr, sub ang, fr srt, p-fr consol, calc cmt, brn spty-unif o stn, oil cn pits, bri yelgn flor, mod yelgn stmg cut

SH: lt-m gy, gybrn, frm, blky-plty, calc, slty ip

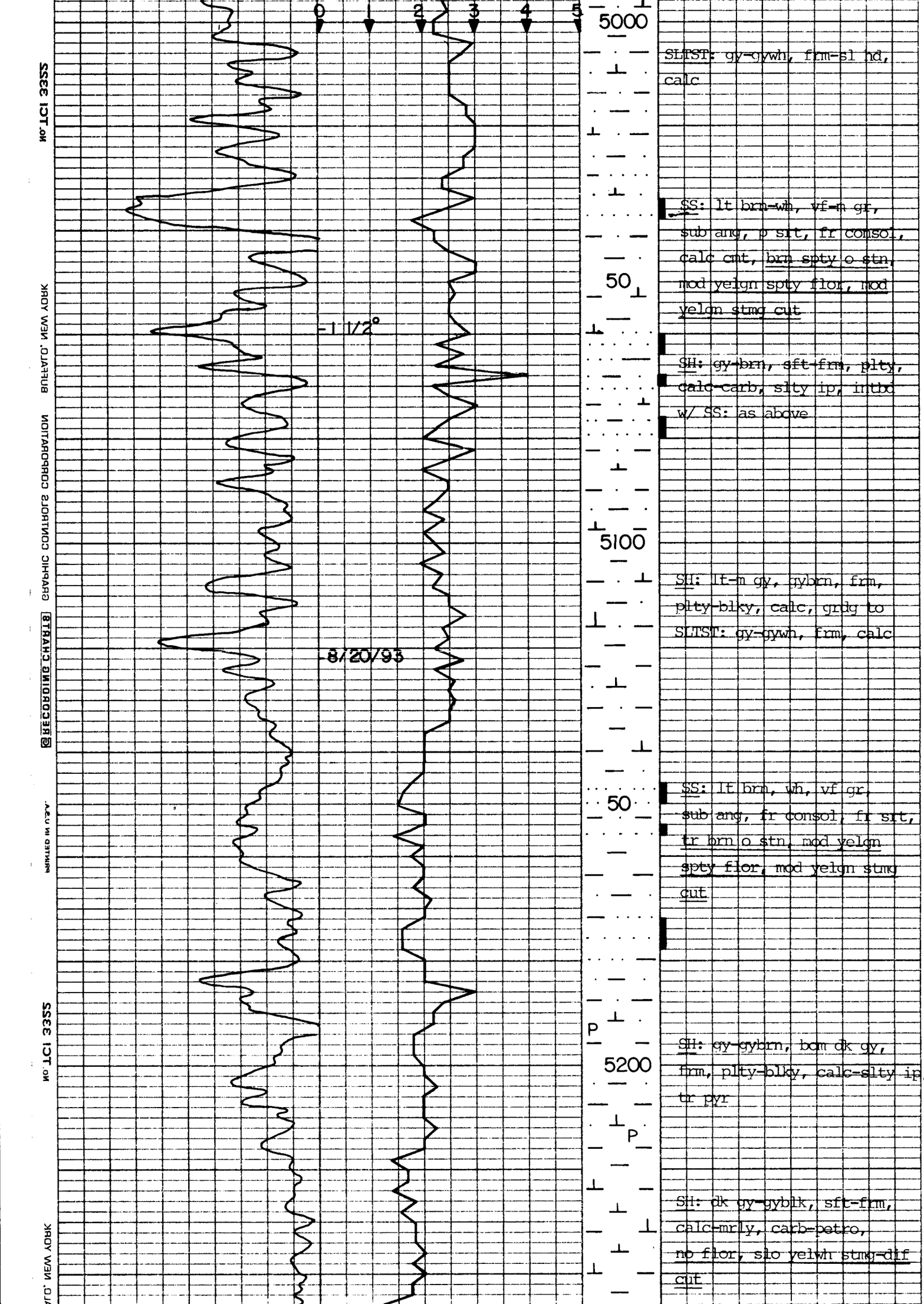
LS: tn-lt gybrn, micxl, frm, chky, arg

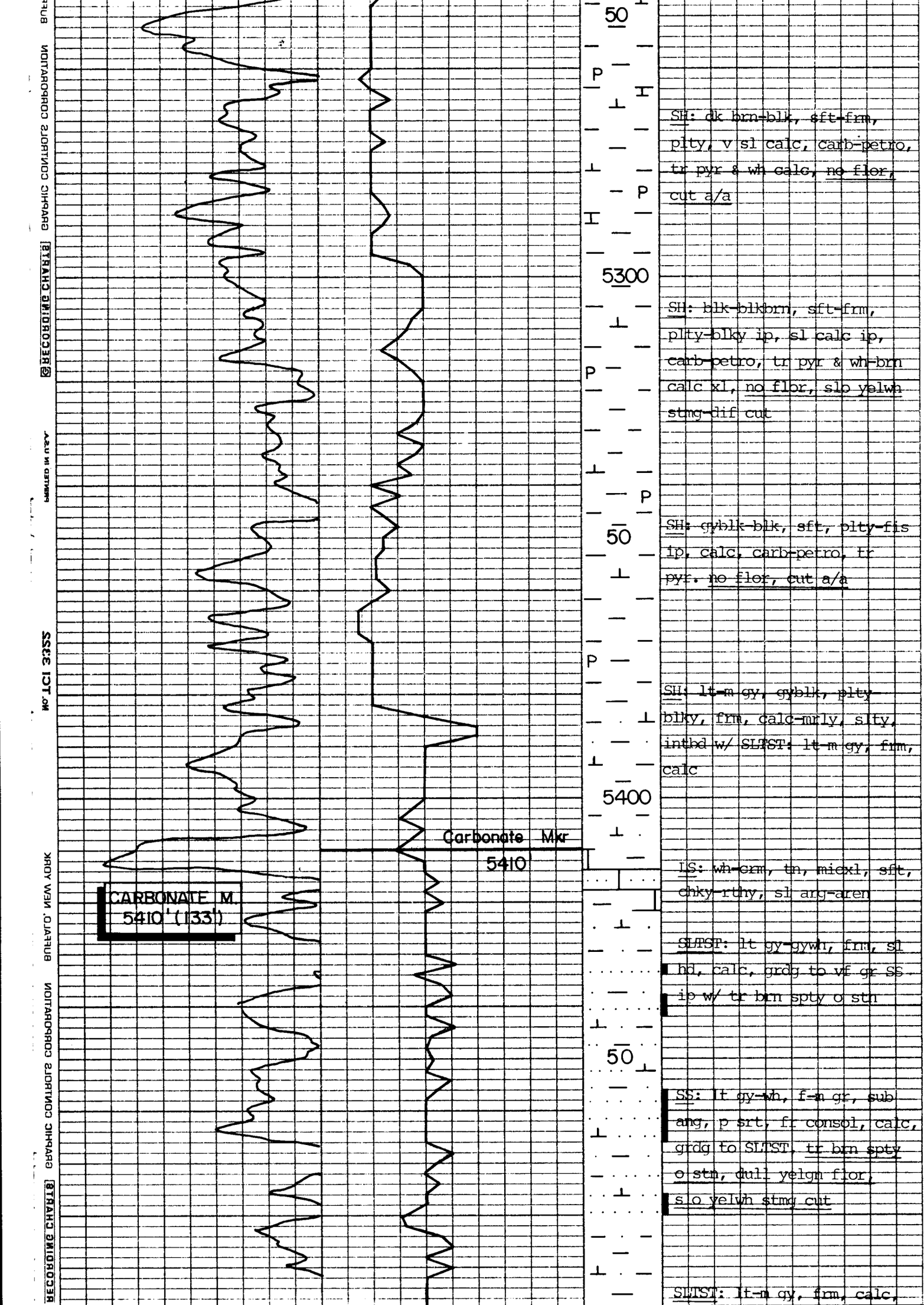
SH: lt-m gy, gybrn-brn, frm, blky- sub plty, calc-mrly ip, slty, tr LS

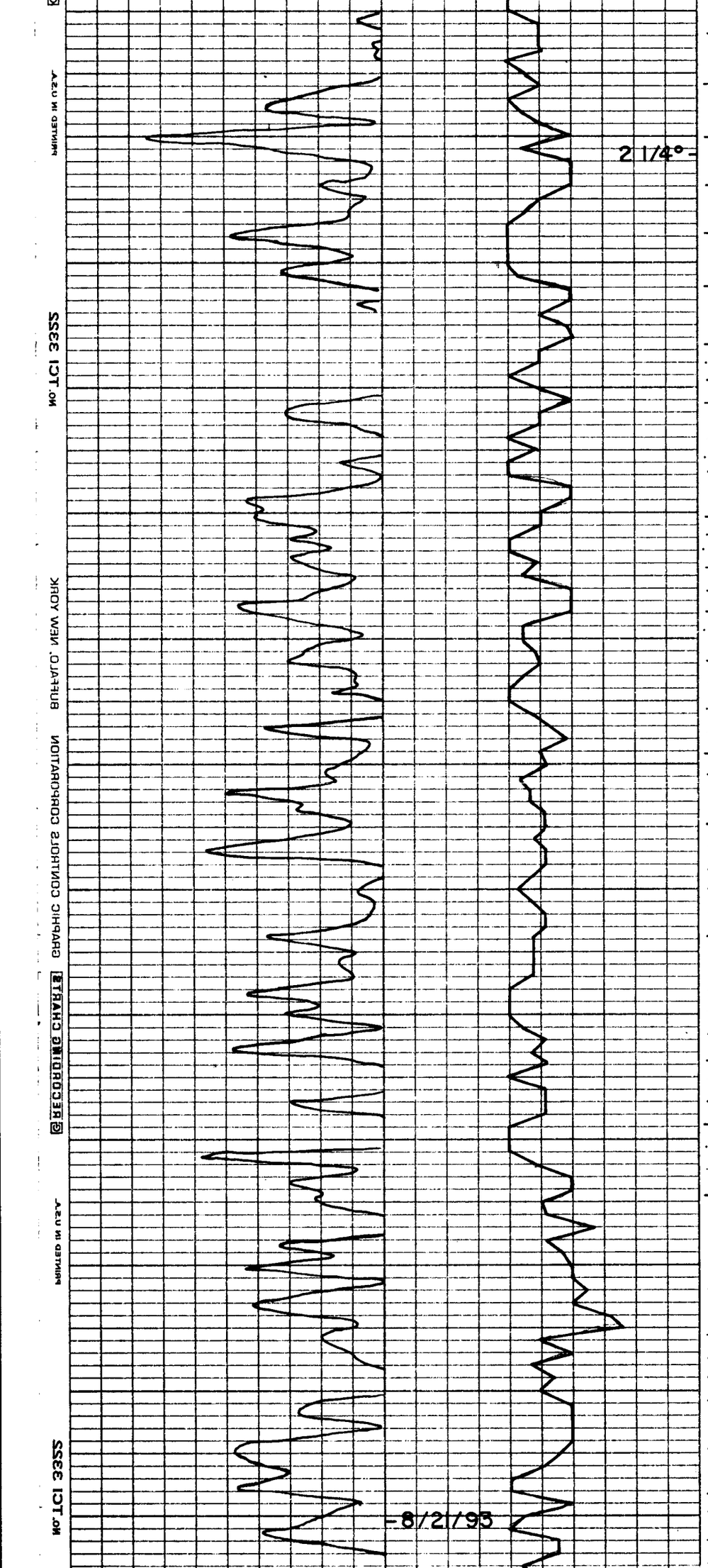
SH: dk brn-gyblk, sft, plty, calc-carb, no flor, slo yelwh dif cut, tr SS: wh-lt brn, f-m gr, sub ang, p srt, fr consol, calc cmt, tr brn spty o stn, mod yelgn flor, mod yelgn stmg cut

SLTST: lt gy-gywh, frm-sl hd, calc, grdg to SH ip

SH: lt-m gy, gybrn, frm, blky-sub plty, calc, slty


0
2
3
4
5
5000
50
-1 1/2°
5100
8/20/93
50
P
5200
P
SLTST: gy-gywh, frm-sl hd, calc
SS: lt brn-wh, vf-m gr, sub ang, p srt, fr consol, calc cmt, brn spty o stn, mod yelgn spty flor, mod yelgn stmg cut
SH: gy-brn, sft-frm, plty, calc-carb, slty ip, intbd w/ SS: as above
SH: lt-m gy, gybrn, frm, plty-blky, calc, grdg to SLTST: gy-gywh, frm, calc
SS: lt brn, wh, vf gr, sub ang, fr consol, fr srt, tr brn o stn, mod yelgn spty flor, mod yelgn stmg cut
SH: gy-gybrn, bcm dk gy, frm, plty-blky, calc-slty ip, tr pyr
SH: dk gy-gyblk, sft-frm, calc-mrly, carb-petro, no flor, slo yelwh stmg-dif cut
RECORDING CHART
GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
NO. 1C1 3SSE


CARBONATE M.
5410' (133')
Carbonate Mkr
5410'
50
P
H
5300
50
50
5400
SH: dk brn-blk, sft-frm, plty, v sl calc, carb-petro, tr pyr & wh calc, no flor, cut a/a
SH: blk-blkbrn, sft-frm, plty-blky ip, sl calc ip, carb-petro, tr pyr & wh-brn calc xl, no flor, slo yelwh stmg-dif cut
SH: gyblk-blk, sft, plty-fis ip, calc, carb-petro, tr pyr, no flor, cut a/a
SH: lt-m gy, gyblk, plty-blky, frm, calc-mrly, slty, inthd w/ SLTST: lt-m gy, frm, calc
LS: wh-crm, tn, micxl, sft, chky-rthy, sl arg-aren
SLTST: lt gy-gywh, frm, sl hd, calc, grdg to vf gr SS ip w/ tr brn spty o stn
SS: lt gy-wh, f-m gr, sub ang, p srt, fr consol, calc, grdg to SLTST, tr brn spty o stn, dull yelgn flor, slo yelwh stmg cut
SLTST: lt-m gy, frm, calc,



intbds of SH: gy-gybrn, frm, blky, calc, tr pyr

SH: dk gy-blkbrn, sft, plty, calc-nrly, carb, tr pyr

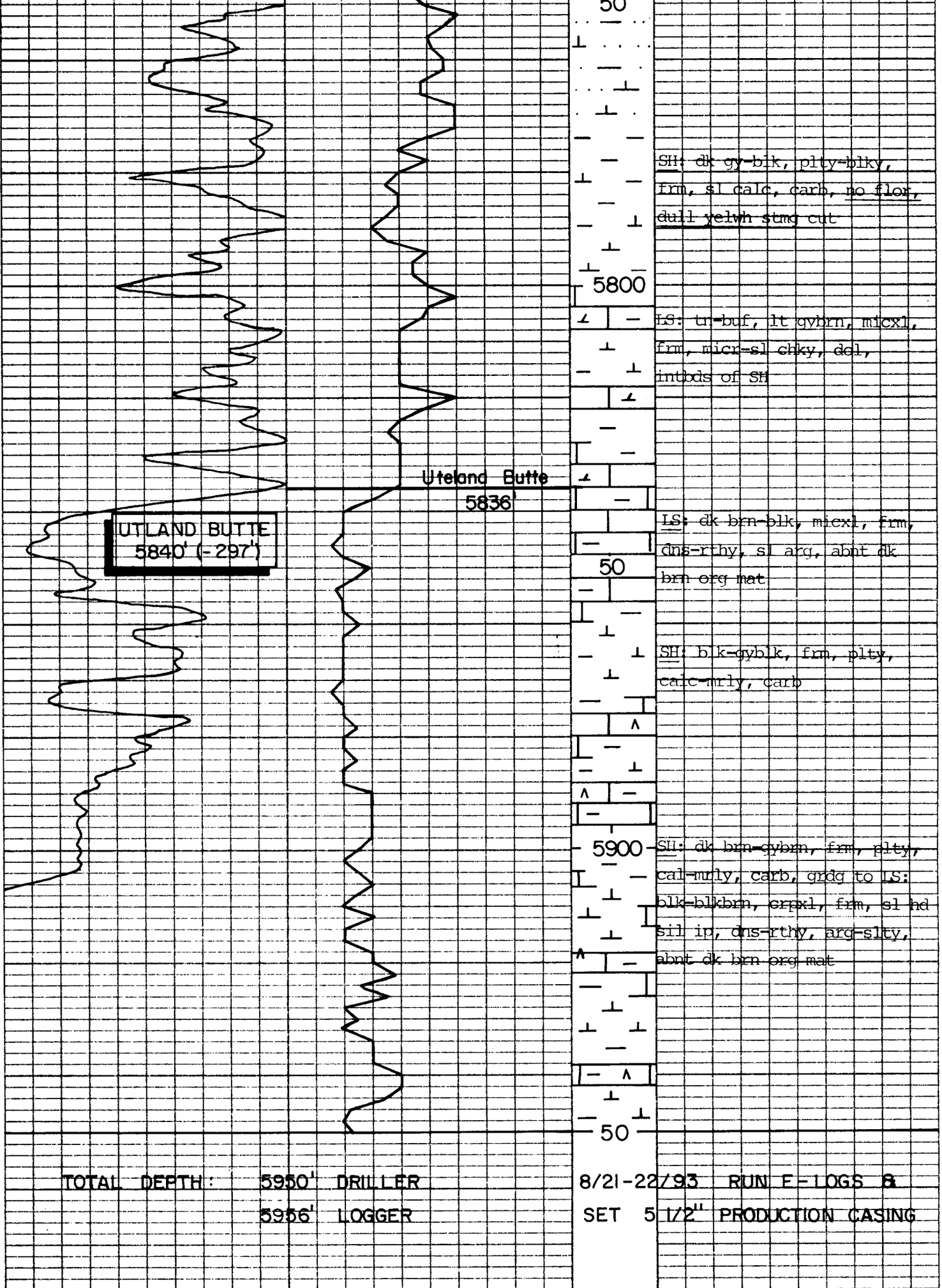
SLTST: lt-m gy, gywh, frm-sl hd, calc, grdg to vf gr SS

SS: wh-lt gy, f-m gr, sub ang, p srt, fr consol, calc cmt, tt

SLTST: lt-m gy, frm-sl hd, calc

SH: lt-m gy, gybrn, frm, blky-plty, calc-nrly, slty

SS: wh-lt gy, f-m gr, sub ang-sub rnd, p srt, p consol-unconsol, grdg to SLTST



TOTAL DEPTH: 5950' DRILLER
5956' LOGGER

8/21-22/93 RUN E-LOGS &
SET 5 1/2" PRODUCTION CASING

BALCRON OIL COMPANY

BALCRON FEDERAL #21-13Y

NE NW SECTION 13, T9S, R16E

DUCHESNE COUNTY, UTAH

BALCRON OIL COMPANY

BALCRON FEDERAL #21-13Y

NE NW SECTION 13, T9S, R16E

DUCHESNE COUNTY, UTAH

43-013-31400

CONFIDENTIAL

Prepared by:

Roy L. Clement
c/o Clement Consulting
7703 Clark Avenue
Billings, Montana 59106
(406) 656-9514

Prepared for:

Keven K. Reinschmidt &
Steve VanDelinder
c/o Balcron Oil Company
Post Office Box 21017
Billings, MT 59104
(406) 259-7860

3800' to 4300'; 20' samples from 4300' to 5950' (TD). All samples lagged and caught by mud loggers. One dry set of samples sent to the state of Utah.

HOLE SIZE: 12 1/4" to 275'
7 7/8" to TD

CASING: 8 5/8" surface casing set at 259'
5 1/2" production casing to Total Depth

DRILL STEM TEST: None

CORE PROGRAM: None

ELECTRIC LOGGING PROGRAM: 1.) DLL//GR/CAL from 5941' - 260'
2.) LDT/CNL/GR/CAL from 5941' - 2400'

LOG TOPS: Green River @ 1492'; Second Garden Gulch @ 3766'; Y-3 @ 4104'; Y-4 @ 4308'; Douglas Creek @ 4561; R-5 @ 4751'; Carbonate Marker @ 5410'; Uteland Butte @ 5840; TD @ 5956'.

LOGGING COMPANY: Schlumberger
LOGGING ENGINEER: Jeff Gebhart

CORRELATION WELL: 1.) G. S. Campbell Et Al
Government C&O #4
Ne Sw Section 12, T9S, R16E

DISTRIBUTION LIST: Balcron Oil Company
Attn: Keven K. Reinschmidt & Steve W. VanDelinder
Post Office Box 21017
Billings, MT 59104

Balcron Oil Company
Attn: Dale Griffen
275-CO.RD-120
Craig, CO 81625

Yates Petroleum Corporation
Attn: Mark Mauritsen
105 South Fourth Street
Artesia, NM 88210

Bureau of Land Management
Vernal District Office
170 South 500 East
Vernal, UT 84078

State of Utah
Division of Oil, Gas, and Mining
355 W. North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180

WELL DATA SUMMARY

OPERATOR:	BALCRON OIL COMPANY
ADDRESS:	Post Office Box 21017 Billings, Montana 59104
WELL NAME:	Balcron Federal #21-13Y
FIELD:	Monument Butte
LOCATION:	703' FNL & 1830' FWL NE NW SECTION 13, T9S, R16E
API#:	43-013-31400
COUNTY:	Duchesne
STATE:	Utah
BASIN:	Uinta
WELL TYPE:	Development Well and Potential Water Injection Well
BASIS OF PROSPECT:	Oil Production @ Monument Butte Field
ELEVATION:	**GL:** 5533' **SUB:** 10' **KB:** 5543'
SPUD DATE:	August 13, 1993 @ 1830 hrs MDT
TOTAL DEPTH/DATE:	5950' on August 21, 1993
TOTAL DRILLING DAYS:	8 **TOTAL ROTATING HOURS:** 150.00
STATUS OF WELL:	Cased for Completion on August 22, 1993
CONTRACTOR:	Union Drilling Company, Rig #17
TOOLPUSHER:	Dave Gray
FIELD SUPERVISOR:	Al Plunkett
MUD ENGINEER:	Craig Hart of Mustang Drilling Fluids
MUD TYPE:	Air/Foam from surface to 4251'; KCL/Fresh Water from 4251' to TD.
WELLSITE GEOLOGIST:	Roy L. Clement
PROSPECT GEOLOGISTS:	Keven K. Reinschmidt and Steve W. VanDelinder of Balcron Oil Company
MUDLOGGERS:	Larry Vodall and Scott Olson of Continental Labs
SAMPLING PROGRAM:	50' samples from 1400' to 3800'; 30' samples from

GEOLOGIC EVALUATION

The Balcron Federal #21-13Y was a development well drilled by Balcron Oil Company at Monument Butte Field. Located in the Uinta Basin of Utah, the field produces oil and gas from Tertiary age sediments in the Green River Formation. Numerous channel and deltaic sands in the Douglas Creek Member are the primary objectives. The #21-13Y attempts to establish production in the south central portion of Monument Butte Field.

The Balcron Federal #21-13Y was spudded on August 13, 1993 at a location in the NE NW of Section 13, T9S, R16E in Duchesne County, Utah. The well was drilled from under surface casing employing air and foam to a depth 4251', at which point the system was convert to KCL and fresh water. A total depth of 5950' was reached on August 21, 1993 and the #21-13Y was cased for completion on August 22, 1993. The well bore was evaluated by a well site geologist and two man mud logging unit in addition to a full suite of E-Logs.

Zones of Interest:

Sample and gas shows were noted from relatively shallow up hole sands beginning at 2660' through 2750'. A net total gas increase of 40 units occurred at 2660' to 2670', which chromatograph readings proved to contain methane, ethane, propane and traces of heavier gases. Abundant oil and tar were noted on the pits in association with this show. Samples were comprised of unconsolidated very fine grained sands with brown oil and asphaltic staining. Porosity logs indicate a 70' thick sand section from 2680' to 2750' averaging 17% cross-plotted porosity.

The Y-3 Sands were present at 4104' to 4116'. This interval was penetrated with a 40 unit total gas increase over a background of 40 units and was comprised entirely of methane. Samples indicated a fine to medium grained fairly consolidated Sandstone with brown uniform oil staining. Logs prove this zone to be silty or dirty with porosity ranging from 16 to 18% through the cleaner portions.

The Y-4 Sand occurred from 4308' to 4326' with porosity averaging 17% through this 18' thick section. A net total gas show of 546 units with the full range of gas components was recorded. Drill cuttings were comprised of fine to medium grained Sandstone with a trace of brown spotty oil stain.

The R-5 Sand was a 14' thick Sandstone section encountered from 4751' to 4765'. A significant gas increase of 820 units above a background of 10 units with C1 through NC4 gas components was detected from a poorly to fairly consolidated Sandstone with brown oil staining. Oil on the pits was also observed after penetrating this interval. Cross plotted porosity values range

from 14 to 16% through the R-5.

Drilling proceeded through the remainder of the Douglas Creek Member and Carbonate Marker to a total depth 116' below the Uteland Butte. No significant gas shows or porous Sandstone sections were encounter in either the Green or Blue zones. E-logs prove these intervals to be silty and/or tight.

Conclusions:

1.) Sample and gas shows indicate the R-5 and Y-4 zones have the best capacity for commercial oil production at the Balcron Federal #21-13Y. E-logs confirm the potential of these two Sandstone sections.

2.) Additional pay may be present in the Y-3 Sands and at 2680' to 2750'. Both intervals warrant further evaluation through production casing.

Respectfully submitted,

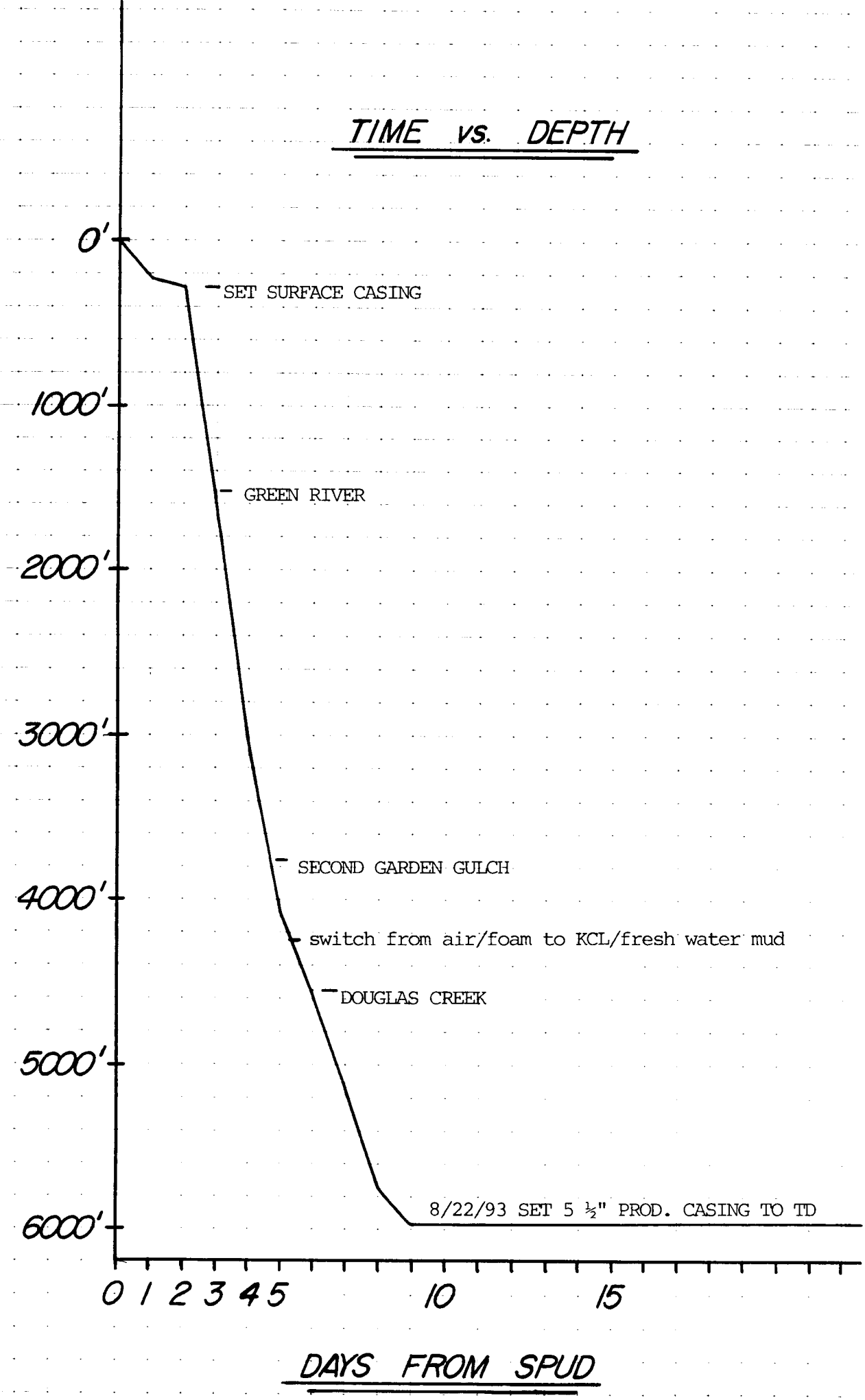
Roy L. Clement

Roy L. Clement
Wellsite Geologist

DAILY ACTIVITY

DAY	DATE	DEPTH	PROG	BIT	WOB	RPM	PP	WT*	VIS	WL	ACTIVITY	FORMATION
0	8/13/93	0'	0'	1	All	25	150	Air/Mist			Spud @ 1830 hours MDT	
1	8/14	231'	231'	1	6	10	200	8.4	27	n/c	Set Surface Casing	
2	8/15	275'	44'	2	45	45	150	8.4	27	n/c	Drill ahead	Uinta
3	8/16	1562'	1287'	2	45	50	200	8.3	27	n/c	Drill ahead	Green R.
4	8/17	3013'	1451'	2	50	50	250	8.4	27	n/c	Drill ahead	Green R.
5	8/18	4063'	1050'	2	40	55	260	8.4	27	n/c	Drill ahead	Green R.
6	8/19	4550'	487'	3	50	65	850	8.4	27	n/c	Trip for bit	Green R.
7	8/20	5122'	572'	3	50	65	875	8.4	27	n/c	Drill ahead	Douglas C.
8	8/21	5741'	619'	3	48	60	875	8.4	27	n/c	Drill to TD	Douglas C.
9	8/22	5950'	209'	-	--	--	---	Static	------		Run E-logs	Uteland B.

*Note: drilled with air and foam from under surface casing to 4251', switched to KCL and Fresh water from 4251' to TD.


TIME vs. DEPTH
0'
1000'
2000'
3000'
4000'
5000'
6000'
SET SURFACE CASING
GREEN RIVER
SECOND GARDEN GULCH
switch from air/foam to KCL/fresh water mud
DOUGLAS CREEK
8/22/93 SET 5 ½" PROD. CASING TO TD
0 1 2 3 4 5 10 15
DAYS FROM SPUD

BIT RECORD

CONTRACTOR: UNION DRILLING, RIG #17

SPUD: 8/13/93 **TOTAL DEPTH**: 8/21/93 **TOTAL ROTATING HOURS**: 150.00

BIT NO.	SIZE	TYPE/ MAKE	JETS SIZE	SERIAL #	DEPTH OUT	FEET	HOURS	ACCUM HOURS	WOB	RPM	DEV	PP	T	B	G
1	12 1/4	IR FB	open	9009391	275'	247'	8.5	8.5	6	10	-	200	-	-	-
2	7 7/8	HTC ATJ-44	24 24 24	X52PG	4251'	3976'	88.25	96.75	50	55	-	260	7	2	I
3	7 7/8	STC F-4H	13 13 13	KV8802	5950'	1699'	53.25	150.00	50	65	1.5^0	875	4	2	I

DEVIATION SURVEYS

DEPTH	DEVIATION
300'	3/4°
597'	1/2°
1050'	1 1/4°
1530'	1 1/4°
2030'	1 1/4°
2530'	1°
3030'	1 1/2°
3530'	1 3/4°
4063'	1 3/4°
4560'	2 1/2°
5059'	1 1/2°
5523'	2 1/4°
5950'	1 1/2°

FORMATION TOPS AND STRUCTURAL RELATIONSHIPS

SUBJECT WELL: Balcron Federal #21-13Y; NE NW Sec 13, T9S, R16E KB: 5543'
OFFSET #1: Gov't C&O #4; NE SW Sec 12, T9S, R16E KB: 5462'

AGE and FORMATION	PROG	SAMPLE	E-LOG	DATUM	THICK	DIP TO OFFSET #1
TERTIARY						
Uinta	Surface					
Green River	1456'	1465'	1492'	4051'	2274'	+ 67'
2nd Garden Gulch	3777'	3770'	3766'	1777'	338'	+103'
Y-3	4095	4084'	4104'	1439'	16'	+ 83'
Y-4	4315'	4304'	4308'	1235'	18'	+ 99'
Douglas Creek	4567'	4560'	4561'	982'	149'	+ 98'
R-5	4737'	4748'	4751'	792'	14'	+ 78'
G-1	4900'	Absent	----	----	----	----
G-4	5097'	Absent	----	----	----	----
Carbonate Mkr.	5412'	5410'	5410'	133'	430'	NDE
Uteland Butte	----	5836'	5840'	-297'	----	NDE

REFERENCE WELL

G. S. Cambell ETAL
GOVERNMENT C&O #4
NE SW SEC 12, T9S, R16E
KB: 5462'

AGE and FORMATION	DEPTH	DATUM	THICK
TERTIARY			
Uinta	Surface		
Green River	1478'	3984'	2310'
2nd Garden Gulch	3788'	1674'	318'
Y-3	4106'	1356'	10'
Y-4	4326'	1136'	13'
Douglas Creek	4578'	884'	170'
R-5	4748'	714'	28'
G-1	4911'	551'	15'
G-4	5108'	354'	30

LITHOLOGY

Sampling Program: 50' samples were taken beginning at 1400' with 30' samples were taken from 3800' to total depth. All samples were lagged and caught by mud loggers. Descriptions begin at 1400' in the lower Uinta formation. Sample quality was fair unless noted otherwise.

1400' - 1450'	Sandstone:	white, salt and peppered, fine to medium grained, angular, poorly sorted, predominantly unconsolidated, micaceous, interbedded with
	Shale:	light brown to graybrown, firm, blocky

Sample Top: Green River Formation @ 1450'

1450' - 1550'	Dolomite	tan to light graybrown, cryptocrystalline, firm, dense, calcareous in part, very argillaceous, grading to
	Shale:	light graybrown to brown, firm, blocky to sub platy, calcareous
1550' - 1750'	Dolomite:	light brown to graybrown, cryptocrystalline, firm, slightly hard and siliceous in part, dense to slightly chalky, calcareous in part, pyritic, very argillaceous, interbedded with
	Shale:	light gray to tan, firm, blocky to platy, calcareous to dolomitic, trace Pyrite
1750' - 1900'	Shale:	gray to graybrown, tan, firm, blocky to platy, calcareous to dolomitic, abundant Pyrite, grading to
	Dolomite:	tan to light graybrown, cryptocrystalline, firm, dense to slightly chalky, calcareous, argillaceous to shaly, siliceous in part
1900' - 2110'	Dolomite:	brown to graybrown, crypto to microcrystalline, firm, dense to micritic, calcareous in part, pyritic, argillaceous to shaly, trace white calcite and calcite healed fractures, interbedded with

	Shale:	gray to graybrown, tan, firm, blocky to platy, dolomitic to calcareous, trace Pyrite
2110' - 2150'	Limestone:	light gray to tan, microcrystalline, firm, chalky to fragmental, argillaceous, dolomitic, grading to
	Shale:	light brown to graybrown, firm, blocky to platy, calcareous
2150' - 2300'	Shale:	brown to graybrown, firm, blocky to platy, trace Pyrite, calcareous to marly, trace white to light orange calcite crystals
2300' - 2450'	Shale:	light to medium gray, graybrown, firm, platy to sub blocky, calcareous to dolomitic, trace Pyrite, grading to Dolomite in part
2450' - 2550'	Dolomite:	light gray to graybrown, cream in part, microcrystalline, firm, dense to slightly chalky, calcareous in part, argillaceous and grading to Shale: as above
2550' - 2660'	Sandstone:	white to light graywhite, very fine to medium grained, sub angular to sub rounded, poorly sorted, predominantly unconsolidated, Pyritic to Bituminous, trace brown spotty oil stain, scattered dull yellowgreen fluorescence, moderate yellowwhite streaming cut, interbedded with
	Shale:	light gray to graybrown, firm blocky to platy, calcareous, Pyritic
2660' - 2750'	Sandstone:	white to light brown, very fine grained, sub angular, fair sorting, unconsolidated, brown spotty oil stain and asphaltic residue, oil and tar on pits, dull gold fluorescence, immediate yellowgreen streaming to diffuse cut
2750' - 2840'	Shale:	medium to dark gray, graybrown, firm, platy, slightly calcareous, silty, Pyritic, interbeds of Sandstone: as above
2840' - 2940'	Sandstone:	light gray, salt & peppered, fine

		to medium gray, sub angular, poor sorting, fair consolidation and calcareous cemented, pyritic, interbeds of Shale: as above
2940' - 3000'	Dolomite:	tan to light graybrown, cream, crypto to microcrystalline, firm to slightly hard and siliceous, dense, argillaceous to shaly
3000' - 3050'	Limestone:	cream to buff, micro to very fine crystalline, firm, chalky, bioclastic to oolitic in part, dolomitic
3050' - 3100'	Sandstone:	white to light graywhite, very fine to fine grained, angular to sub angular, fair sorting, unconsolidated, calcareous cement in part, grading to Siltstone in part, trace brown spotty oil stain, dull gold fluorescence, moderate yellowgreen streaming cut
3100' - 3150'	Dolomite:	light to medium brown, graybrown, cryptocrystalline, firm to slightly hard and siliceous, dense, argillaceous, grading to Shale
3150' - 3250'	Limestone:	white to cream, microcrystalline, soft to firm, chalky to earthy, fragmental in part, interbedded with
	Shale:	light to medium gray, graybrown, firm, blocky to platy, calcareous
3250' - 3300'	Sandstone:	light gray, salt & peppered in part, fine to medium grained, sub angular, poorly sorted, fairly consolidated with calcareous to siliceous cement, grading to
	Siltstone:	light gray, firm, calcareous
3300' - 3365'	Limestone:	light brown, cream, crypto to microcrystalline, firm, dense to slightly chalky, argillaceous, interbeds of
	Shale:	gray to graybrown, soft to firm, blocky to platy, calcareous
3365' - 3400'	Sandstone:	white to light gray, very fine to fine grained, sub angular, fair sorting, unconsolidated

3400' - 3600'	Shale:	light to medium gray, graybrown, firm, blocky to platy, calcareous, grading to Siltstone in part, interbeds of
	Limestone:	tan to cream, microcrystalline, soft to firm, chalky to earthy, slightly argillaceous
3600' - 3700'	Dolomite:	tan to light graybrown, crypto to microcrystalline, firm, dense to chalky, argillaceous, calcareous in part, interbedded with
	Shale:	gray, brown to graybrown, firm, blocky to platy, calcareous to slightly silty
3700' - 3770'	Siltstone:	light to medium gray, firm, calcareous, grading to very fine grained Sandstone in part

Sample Top: Second Garden Gulch @ 3770'

3770' - 3806'	Limestone:	cream to buff, white in part, cryptocrystalline, soft to firm, chalky to earthy, dolomitic in part, argillaceous

Note: 30' samples beginning @ 3800'

3806' - 3880'	Siltstone:	light gray to graywhite, firm to slightly hard, calcareous, grading to
	Sandstone:	white to graywhite, very fine grained, sub angular, fair sorting, poor to fair consolidation with calcareous cement
3880' - 3930'	Shale:	light to medium gray, graybrown, firm, blocky, calcareous, silty to arenaceous, occasional interbeds of
	Limestone:	tan to cream, microcrystalline, firm, dense to chalky, argillaceous to dolomitic
3930' - 4050'	Siltstone:	light to medium gray, graywhite, firm to slightly hard, calcareous, grading to shale, occasional interbeds of Limestone: as above
4050' - 4084'	Siltstone:	gray to graywhite, firm to slightly hard, calcareous, grading to very fine grained sandstone in part, pyritic

Sample Top: Y-3 @ 4084'

4084' - 4092'	Sandstone:	light brown to white, fine to medium grained, angular, fair sorting, poor to fair consolidation, brown uniform oil stain through out, dull gold to yellowgreen fluorescence, immediate bright yellowgreen streaming to diffuse cut
4092' - 4251'	Siltstone:	light gray to graywhite, firm to slightly hard, calcareous, pyritic, grading to
	Shale:	gray to graybrown, firm, platy to blocky, calcareous

Note: Tripped for bit @ 4251' and switched from air & foam to KCL & fresh water drilling mud

4251' - 4320'	Shale:	light to medium gray, graybrown, firm, blocky to platy, calcareous, pyritic, grading to
	Siltstone:	light gray, firm, calcareous, sandy in part, very poor samples, abundant uphole cavings after trip

Note: 20' samples beginning @ 4300'

Sample Top: Y-4 @ 4304'

4304' - 4320'	Sandstone:	white, salt & peppered, fine to medium grained, angular to sub angular, poor sorting, fair consolidation, calcareous cement, trace brown spotty oil stain, bright yellowgreen fluorescence, immediate bright yellowgreen streaming cut
4320' - 4340'	Siltstone:	gray to graybrown, firm to slightly hard, calcareous
4340' - 4360'	Shale:	graybrown to brown, firm, blocky to platy, calcareous, silty, trace Pyrite
4360' - 4366'	Sandstone:	white to light gray, salt & peppered, fine to medium grained, angular to sub angular, poor sorting, fair consolidation, calcareous cement, tight
4366' - 4394'	Shale:	light to medium gray, firm, blocky,

		calcareous, trace Pyrite, silty and grading to siltstone
4394' - 4400'	Sandstone:	white to light gray, fine to medium grained, angular to sub angular, poor sorting, fair consolidation, calcareous cement, tight
4394' - 4436'	Shale:	graybrown to brown, firm, blocky to platy, calcareous to dolomitic, silty
4436' - 4446'	Sandstone:	gray to graywhite, brown in part, fine to medium grained, angular to sub rounded, poor sorting, fair consolidated, calcareous cement, brown spotty oil stain, dull gold fluorescence, moderate yellowgreen streaming cut
4446' - 4500'	Shale:	gray to graybrown, firm, blocky to platy, calcareous, silty in part, trace Pyrite
4500' - 4560'	Shale:	as above with occasional interbeds of
	Limestone:	tan to light gray brown, microcrystalline, firm, chalky to earthy, argillaceous

Sample Top: Douglas Creek @ 4560'

4560' - 4580'	Limestone:	cream to buff, tan, microcrystalline, soft, chalky to earthy, slightly argillaceous
4580' - 4636'	Shale:	light gray, graybrown to brown, firm, blocky to sub platy, slightly calcareous, silty
4636' - 4706'	Limestone:	tan to light gray, crypto to microcrystalline, firm, dense to chalky, slightly argillaceous, dolomitic in part, interbedded with
	Shale:	light gray to graybrown, firm, blocky to sub platy, calcareous to silty, pyritic
4706' - 4712'	Sandstone:	light gray to white, light brown in part, very fine to fine grained, sub angular, fair sorting, poorly consolidated to unconsolidated, calcareous cement in part, trace brown spotty oil stain & dull gold fluorescence, yellowwhite diffuse

		to streaming cut
4712' - 4748'	Shale:	light to medium gray, firm, platy to blocky, calcareous to silty
Sample Top: R-5 @ 4748'		
4748' - 4762'	Sandstone:	light brown to white, very fine to fine grained, sub angular, fair sorting, poor to fair consolidation, calcareous cement, brown spotty oil stain and oil on pits, bright yellowgreen fluorescence, moderate yellowgreen streaming cut
4762' - 4798'	Shale:	light to medium gray, graybrown, firm, blocky to platy, calcareous, silty in part
4798' - 4812'	Shale:	as above, grading to Siltstone
4812' - 4910'	Shale:	light to medium gray, graybrown to brown, firm, blocky to sub platy, calcareous to marly in part, silty, trace Limestone: tan to light graybrown, microcrystalline, firm, chalky, argillaceous
4910' - 4944'	Shale:	dark brown to grayblack, soft, platy, calcareous, carbonaceous, no fluorescence, slow yellowwhite streaming cut, trace Sandstone: white to light brown, fine to medium grained, sub angular, poor sorting, fair consolidation, calcareous cement, trace brown spotty oil stain, moderate yellowgreen fluorescence, moderate yellowgreen streaming cut
4944' - 4970'	Siltstone:	light gray to graywhite, firm to slightly hard, calcareous, grading to Shale in part
4970' - 5028'	Shale:	light to medium gray, graybrown, firm, blocky to sub platy, calcareous, grading to
	Siltstone:	gray to graywhite, firm to slightly hard, calcareous
5028' - 5044'	Sandstone:	light brown to white, very fine to medium grained, sub angular, poor sorting, fairly consolidated,

		calcareous cement, brown spotty oil stain, moderate yellowgreen spotty fluorescence, moderate yellowgreen streaming cut
5044' - 5060'	Shale:	gray to graybrown, soft to firm, platy, calcareous to carbonaceous, silty in part
5060' - 5080'	Sandstone:	white to light brown, fine to medium grained, sub angular, poor to fair sorting, fair consolidation, brown spotty oil stain, moderate yellowgreen spotty fluorescence, yellowgreen streaming cut, grading to Siltstone in part
5080' - 5134'	Shale:	light to medium gray, graybrown, firm, platy to blocky, calcareous, grading to
	Siltstone:	gray to graywhite, firm, calcareous
5134' - 5184'	Shale:	light to medium gray, graybrown, firm, platy to blocky, calcareous to silty, trace Sandstone: light brown to white, very fine grained, sub angular, fair consolidation, fair sorting, trace brown spotty oil stain, moderate yellowgreen spotty fluorescence, yellowgreen streaming cut
5184' - 5216'	Shale:	gray to graybrown, becoming dark gray, firm, platy to blocky, calcareous to silty in part, trace Pyrite
5216' - 5244'	Shale:	dark gray to grayblack, soft to firm, calcareous to marly, carbonaceous to petroliferous, no fluorescence, slow yellowwhite streaming to diffuse cut
5244' - 5296'	Shale:	dark brown to black, soft to firm, platy, very slightly calcareous, carbonaceous to petroliferous trace white calcite and pyrite, no fluorescence, cut as above
5296' - 5338'	Shale:	black to blackbrown, soft to firm, platy to blocky in part, slightly calcareous in part, trace pyrite and white to brown calcite crystals, carbonaceous to

		petroliferous, no fluorescence, slow yellowwhite streaming to diffuse cut
5338' - 5382'	Shale:	grayblack to black, soft, platy to fissile in part, calcareous, carbonaceous to petroliferous, trace pyrite, no fluorescence, cut as above
5382' - 5410'	Shale:	light to medium gray, grayblack, platy to blocky, firm, calcareous to marly, silty, interbeds of
	Siltstone:	light to medium gray, firm, calcareous

Sample Top: Carbonate Marker @ 5410'

5410' - 5420'	Limestone:	white to cream, tan, microcrystalline, soft, chalky to earthy, slightly argillaceous to arenaceous
5420' - 5456'	Siltstone:	light gray to graywhite, firm to slightly hard, calcareous, grading to very fine grained sandstone in part
5456' - 5482'	Sandstone:	light gray to white, fine to medium grained, sub angular, poor sorting, fair consolidation, calcareous cement, grading to Siltstone, trace brown oil stain, dull yellowgreen fluorescence, slow yellowwhite streaming cut
5482' - 5528'	Siltstone:	light to medium gray, firm, calcareous, interbeds of
	Shale:	gray to graybrown, firm, blocky, calcareous, trace pyrite
5528' - 5542'	Shale:	dark gray, blackbrown, soft, platy, calcareous to marly, carbonaceous, trace pyrite
5542' - 5596'	Siltstone:	light to medium gray, graywhite, firm to slightly hard, calcareous, grading to very fine grained sandstone in part, interbeds of Shale: as above
5596' - 5682'	Sandstone:	white to light gray, fine to medium grained, sub angular. poor sorting, fair consolidation, calcareous

		cement, tight, grading to
	Siltstone:	light to medium gray, firm to slightly hard, calcareous
5682' - 5710'	Siltstone:	gray to graywhite, firm to slightly hard, calcareous, interbeds of
	Shale:	light to medium gray, graybrown, firm, blocky to platy, calcareous to marly
5710' - 5772'	Sandstone:	white to light gray, fine to medium grained, sub angular to sub rounded, poor sorting, poorly consolidated to unconsolidated, grading to Siltstone
5772' - 5800'	Shale:	dark gray to black, platy to blocky, firm, slightly calcareous, carbonaceous, no fluorescence, dull yellowwhite streaming cut
5800' - 5836'	Limestone:	tan to buff, light graybrown, microcrystalline, firm, micritic to slightly chalky, dolomitic, interbeds of Shale: as above

Sample Top: Uteland Butte @ 5836'

5836' - 5858'	Limestone:	dark brown to black, microcrystalline, firm, dense to earthy, slightly argillaceous, abundant dark brown organic material
5858' - 5888'	Limestone:	as above, grading to
	Shale:	black to grayblack, firm, platy, calcareous to marly, carbonaceous
5888' - 5950'	Shale:	dark brown to graybrown, firm, platy, calcareous to marly, carbonaceous, grading to
	Limestone:	black to blackbrown, cryptocrystalline, firm to slightly hard and siliceous, dense to earthy, argillaceous to shaly, abundant dark brown organic material

Note: Driller's Total Depth @ 5950'

LOGGING REPORT

Logging Company: Schlumberger **Engineer**: Jeff Gebhart **Date**: 8/21/93

Witnessed by: Roy Clement and Al Plunkett

Driller's TD Depth: 5950' **Logger's TD Depth**: 5956'

Driller's Casing Depth: 259' **Logger's Casing Depth**: 260'

Elevation: **GL**: 5533' **Sub**: 10' **KB**: 5543'

Mud Conditions: **Wt**: 8.4 **Vis**: 27 **WL**: n/c
BHT: 144^0 F

Hole Conditions: Good

Logging Time: **Time Arrived**: 1800 hrs **First Tool in Hole**: 1930 hrs
Last Tool Out: 2400 hrs **Time of Departure**: 0300 hrs

Electric Logging Program: 1.) Dual Laterlog with Gamma Ray & Caliper from 5941' to 260'; Compensated Neutron-Litho Density Log with Gamma Ray and Caliper from 5941' to 2400' (tools were stacked, one logging run was made; due to tool failure, the MSFL was not run).

Log Tops: Green River Formation @ 1492'; Second Garden Gulch @ 3766'; Y-3 @ 4104'; Y-4 @ 4308'; Douglas Creek @ 4561'; R-5 @ 4751'; Carbonate Marker @ 5410'; Uteland Butte @ 5840'; Total Depth @ 5956'.

Zones of Interest: 2680' to 2750': 70' averaging 17% porosity

Y-3 @ 4104' to 4116': 9' with 16-18% porosity

4243' to 4252': 9' with 16-19% porosity

Y-4 @ 4308' to 4326': 18' with 16-18% porosity

4439' to 4443': 3' with 14% porosity

R-5 @ 4751' to 4765': 14' with 14-16% porosity;

Note: The following pages contain log excerpts over zones of interest.

Schlumberger

SIMULTANEOUS

COMPENSATED NEUTRON-LITHO-DENSITY

COMPANY BALCRON OIL COMPANY

WELL BALCRON FEDERAL 21-13Y

FIELD MONUMENT BUTTE

COUNTY DUCHESNE STATE UTAH

COUNTY	FIELD	LOCATION	WELL	COMPANY
DUCHESNE	MONUMENT BUTTE	703'FNL & 1830'FWL	BALCRON FEDERAL 21-13Y	BALCRON OIL COMPANY

LOCATION: 703'FNL & 1830'FWL
NE NW

Other Services:
DLL
LDT
CNL

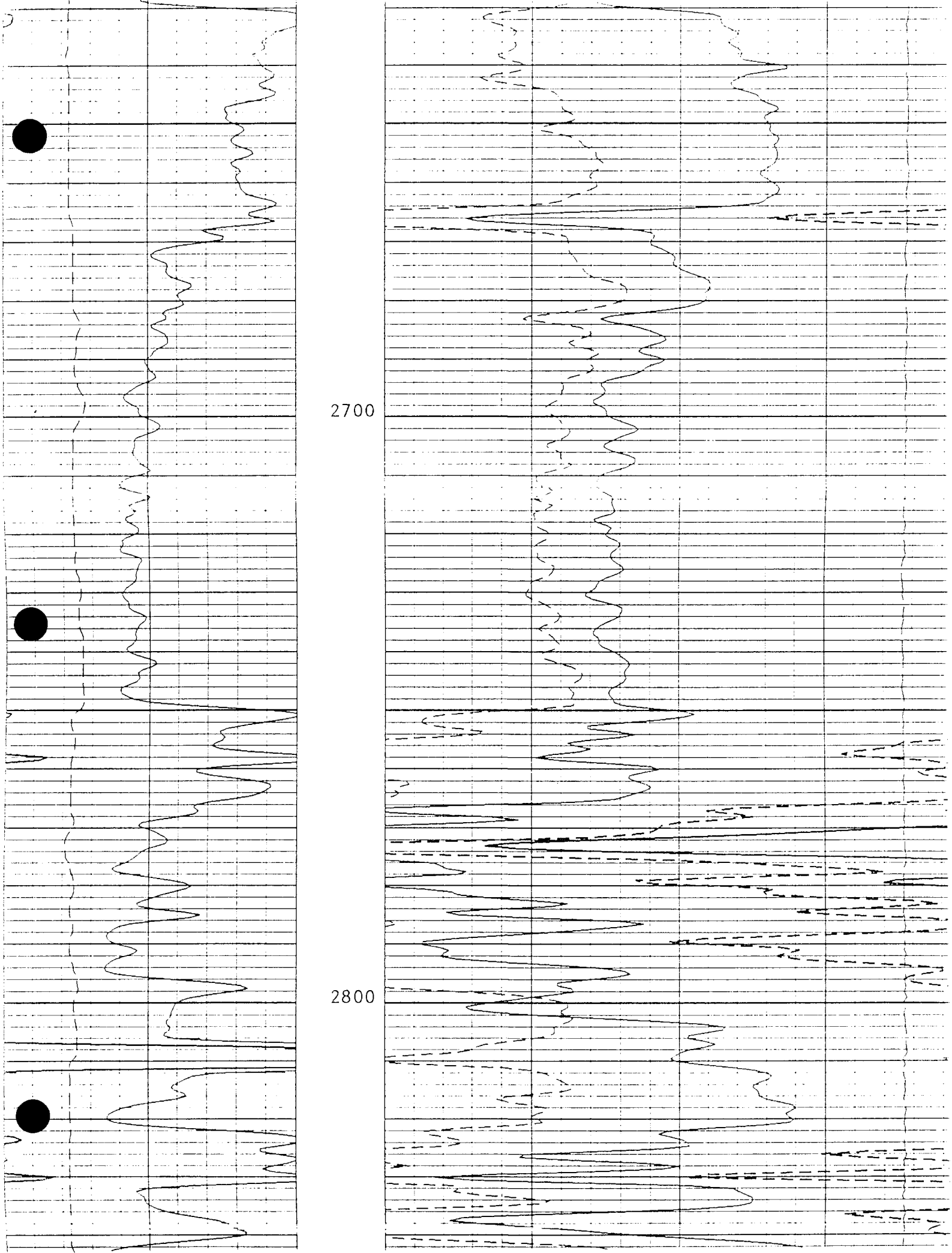
API SERIAL NO.	SECT.	TWP.	RANGE
43-013-31400	13	9S	16E

Permanent Datum	GROUND LEVEL	Elev.	5533.0 F
Log Measured From	KB	10.0 F	above Perm. Datum
Drilling Measured From	KB		

Elev.: K.B.5543.0 F
D.F.5542.0 F
G.L.5533.0 F

Date	21-AUG-1993		
Run No.	ONE		
Depth Driller	5950.0 F		
Depth Logger (Schl.)	5956.0 F		
Btm. Log Interval	5941.0 F		
Top Log Interval	2400.0 F		
Casing-Driller	8 5/8" @ 248.0 F	@	@
Casing-Logger	260.0 F		
Bit Size	7 7/8" @	@	@
Type Fluid in Hole	KCL WATER		
Dens. / Visc.	8.40 LB/G / 27.0 S		
pH / Fld. Loss	11.1		
Source of Sample	PIT		
Rm @ Meas. Temp.	.184 OHMM @ 84.0 DEGF	@	
Rmf @ Meas. Temp.	.184 OHMM @ 84.0 DEGF	@	
Rmc @ Meas. Temp.	@	@	
Source: Rmf / Rmc	MEAS / NA		
Rm @ BHT	.111 OHMM @ 144. DEGF	@	
TIME: Circulation Ended	8-21 @ 15:30		
TIME: Logger on Bottom	8-21 @ 20:01		
Max. Rec. Temp.	144. DEGF		
Equip. / Location	8264 / VERNAL,UT		
Recorded By	JEFF GEBHART		
Witnessed By	R.CLEMENT / A.PLUNKETT		

The well name, location and borehole reference data were furnished by the customer.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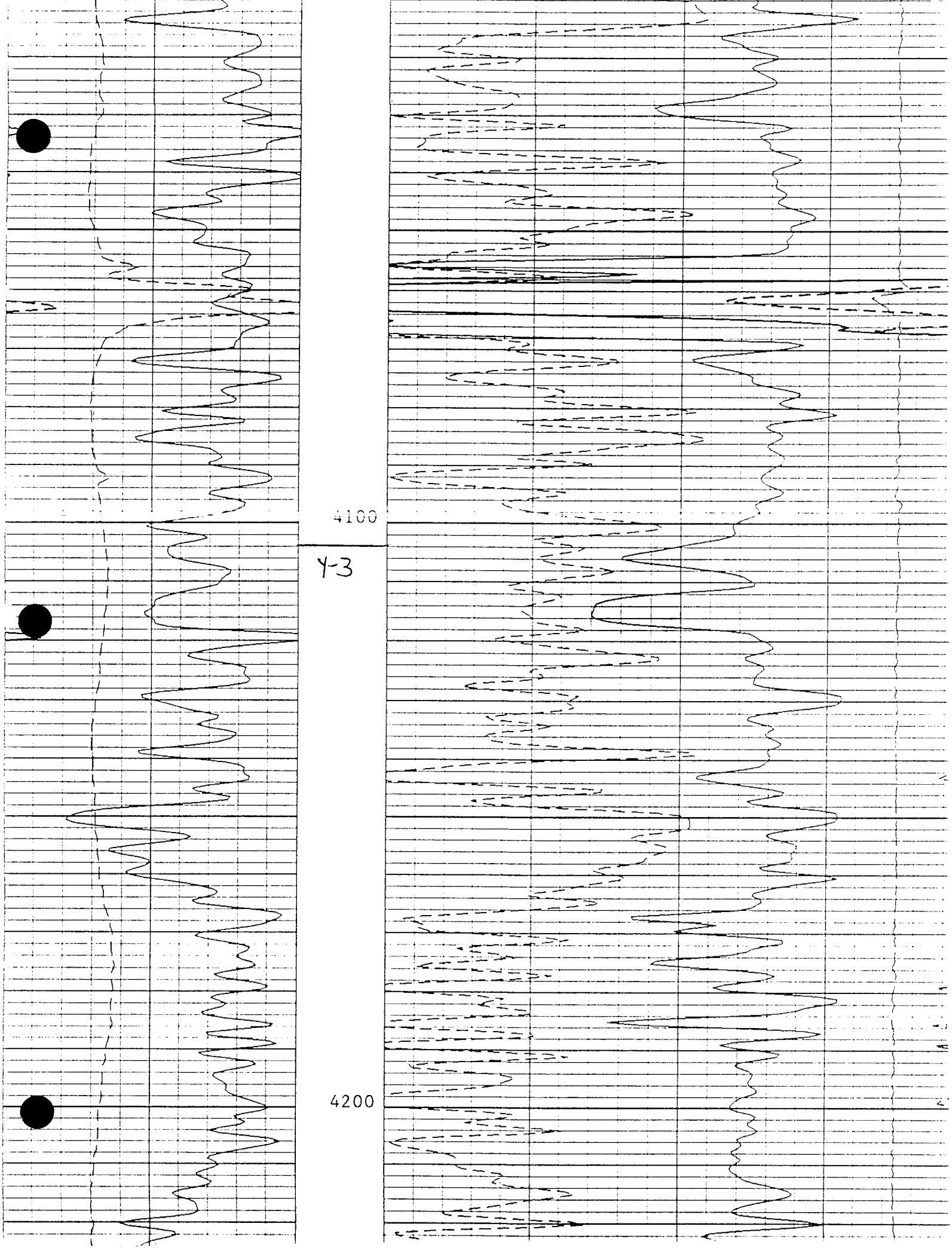
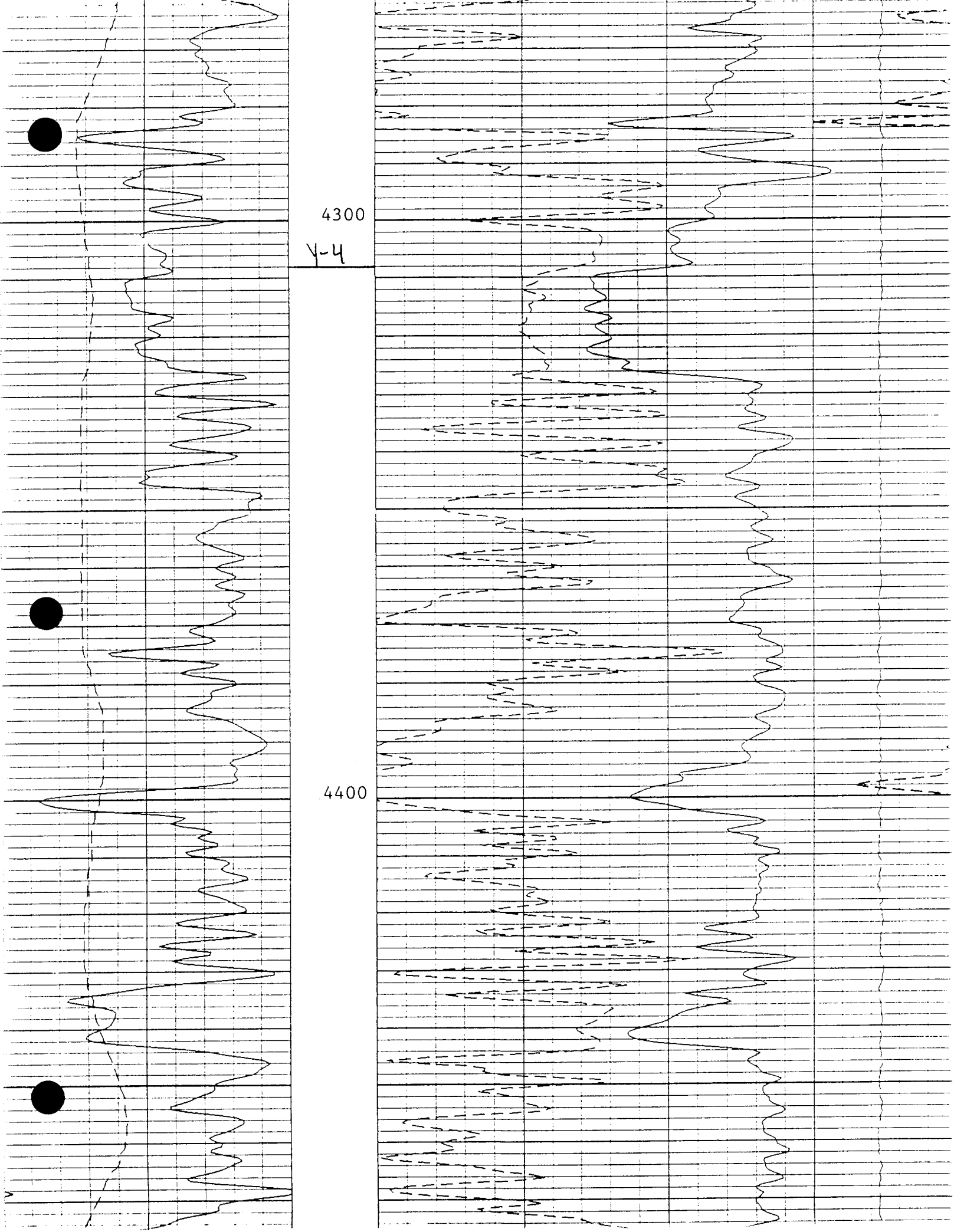

4100
Y-3
4200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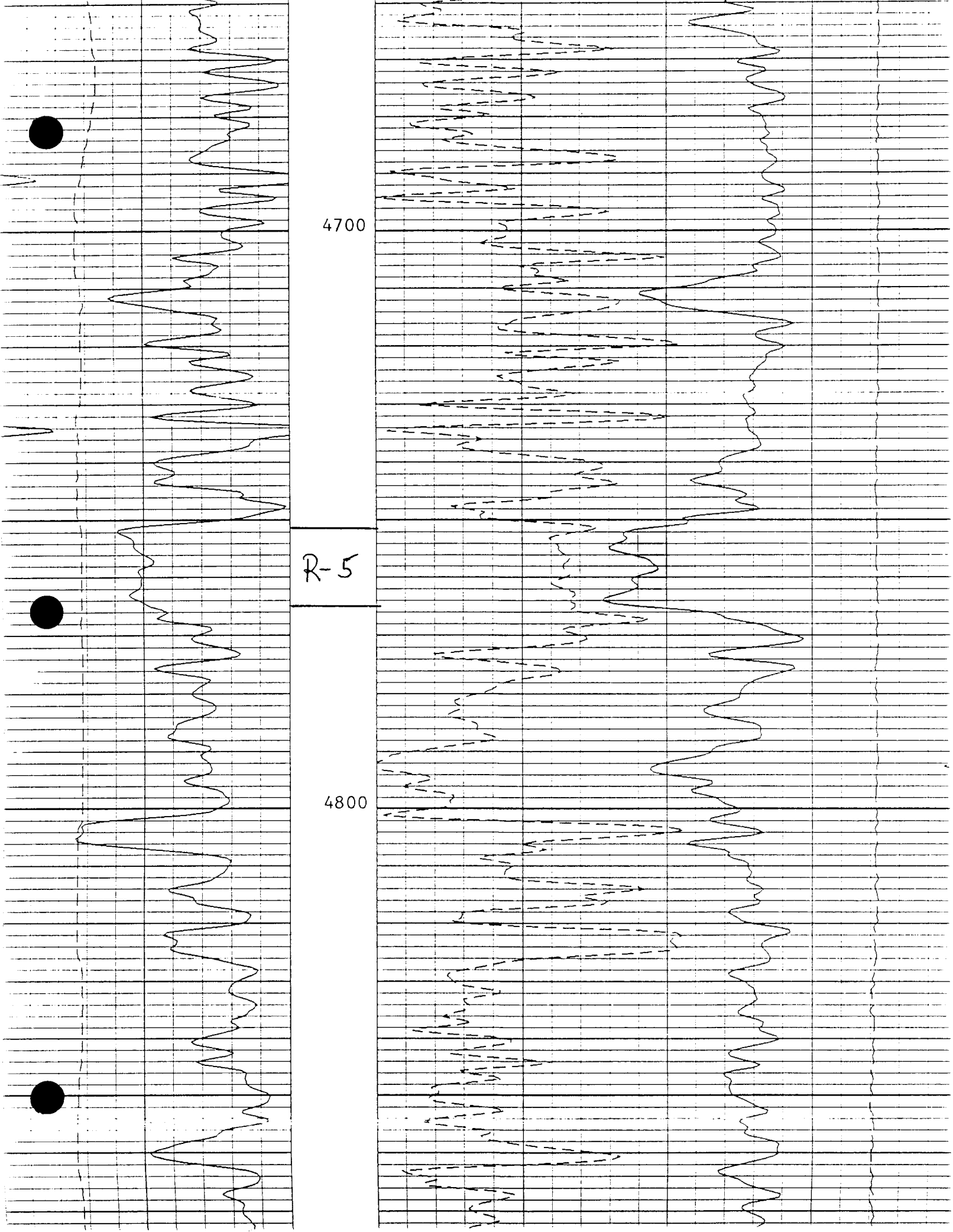
Y-4
4400


4700
R-5
4800

CLEMENT CONSULTING
7703 CLARK AVENUE
BILLINGS, MONTANA 59106
(406) 656-9514

COMPANY: BALCRON OIL COMPANY

WELL: BALCRON FEDERAL NO. 21-13Y 43-013-31400 dkl

LOCATION: NE NW (703' FNL & 1830' FWL) SEC. 13-T9S-R16E
DUCHESNE COUNTY, UTAH

DEPTH LOGGED: 1400' - 5950' DATE LOGGED: 16 AUG 93 - 21 AUG 93

KB: 5543' GL: 5533'

GEOLOGIST: ROY L. CLEMENT

CONTRACTOR: UNION DRILLING RIG 17

DRILLING FLUID: AIR/FOAM 0' - 4251'
KCL/WATER 4251' - TD

Porosity

Oil Show

8 5/8" Surface Casing set at 259'

Drlg 7 7/8" Borehole w/ Bit 2 ATJ-44 in at 275'

LOG TOPS

API - GR

Sample Tops

DRILL RATE (min/ft)

0 1 2 3 4 5

1300

1400

Green River 1450'

GREEN RIVER
1492' (405')

1500

1 1/4°

8/16/95

WOB 45
RPM 50
PP 200

1600

1700

50' samples lagged & caught by mud loggers from 1400' to 3800'

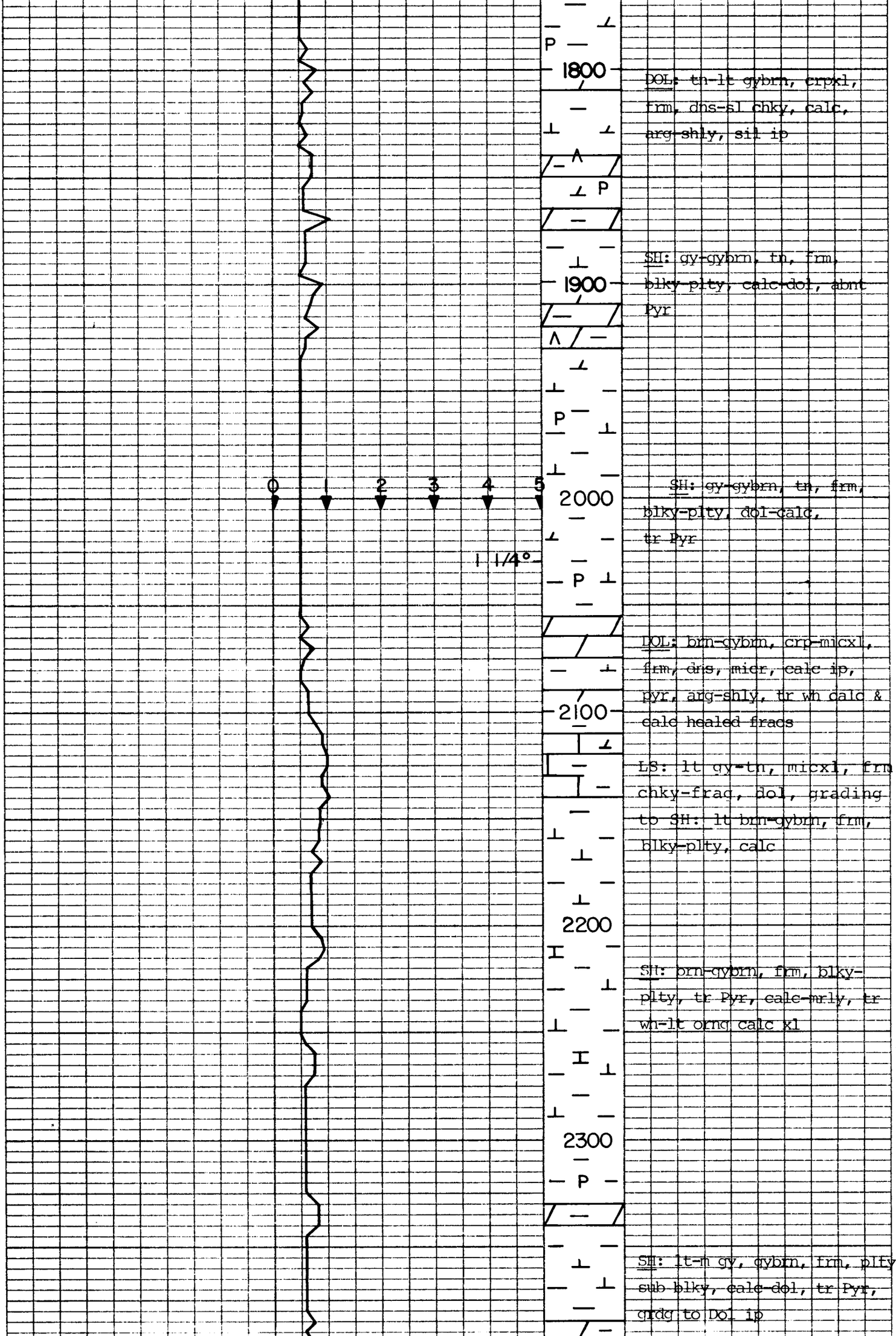
SS: wh, S & P, f-m gr, ang, p srt, prod unconsol mica, intbds of SH

DOL: tn-lt gybrn, crpxl, frm, dns, calc ip, v arg

SH: lt gybrn-brn, frm, blky-sub plty, calc

DOL: lt brn-gybrn, crpxl, frm, sl hd & sil ip, dns-sl chky, calc ip, Pyr, v arg

SH: lt gy-tn, frm, blky-plty, calc dol, tr Pyr



DOL: tn-lt gybrn, crpxl, frm, dns-sl chky, calc, arg-shly, sil ip

SH: gy-gybrn, tn, frm, blky-plty, calc-dol, abnt Pyr

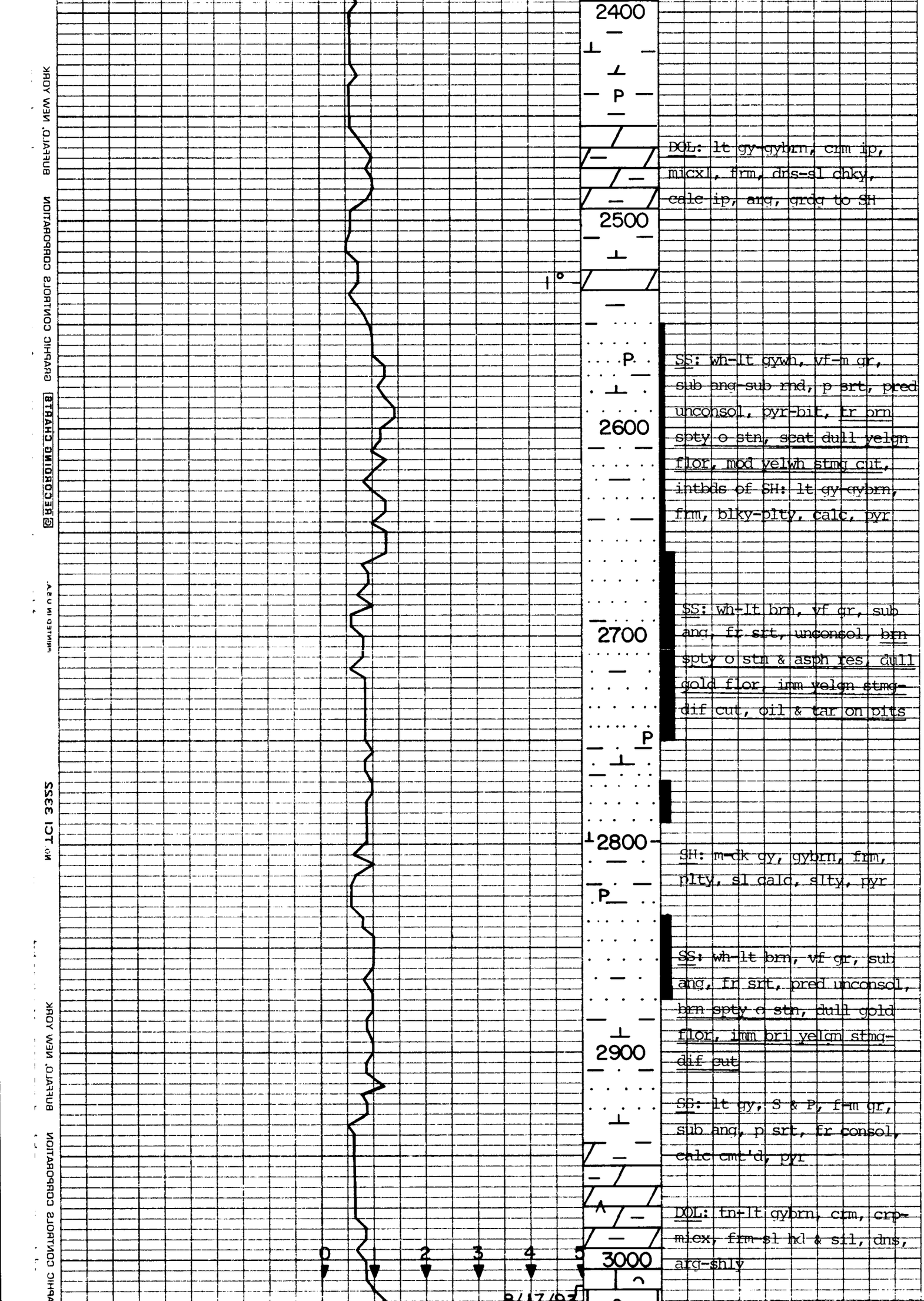
SH: gy-gybrn, tn, frm, blky-plty, dol-calc, tr Pyr

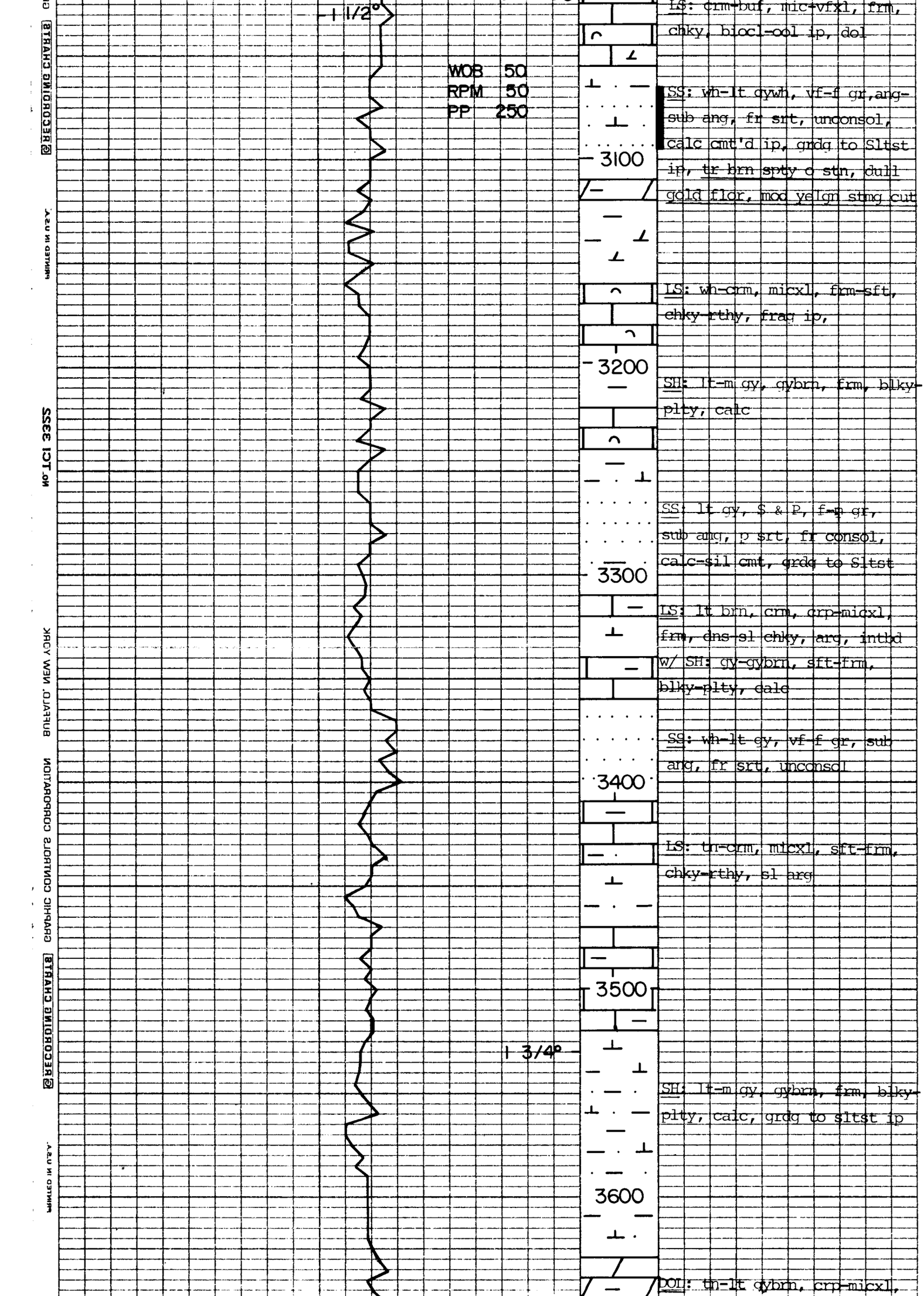
DOL: brn-gybrn, crp-micxl, frm, dns, micr, calc ip, pyr, arg-shly, tr wh calc & calc healed fracs

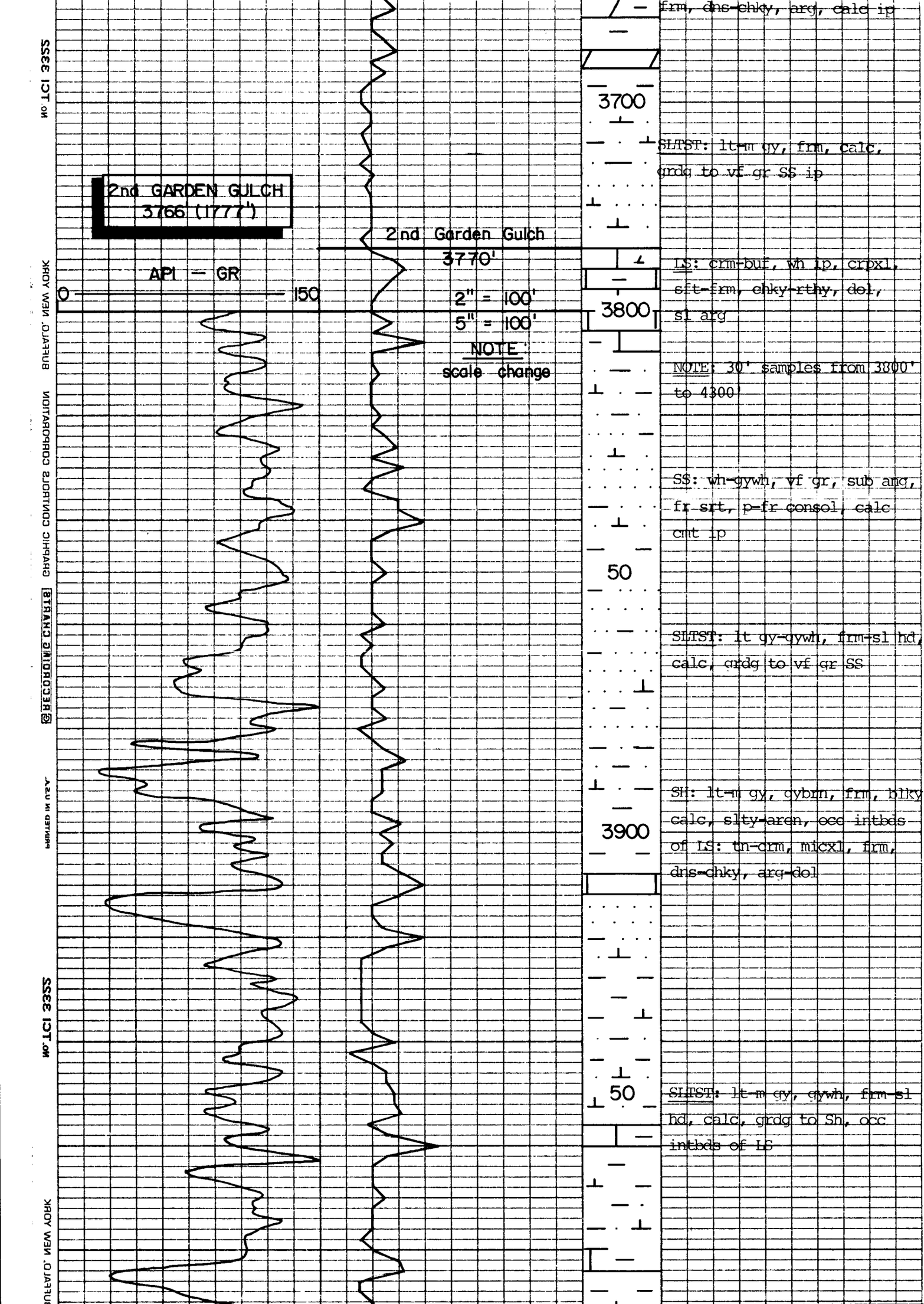
LS: lt gy-tn, micxl, frm, chky-fraq, dol, grading to SH: lt brn-gybrn, frm, blky-plty, calc

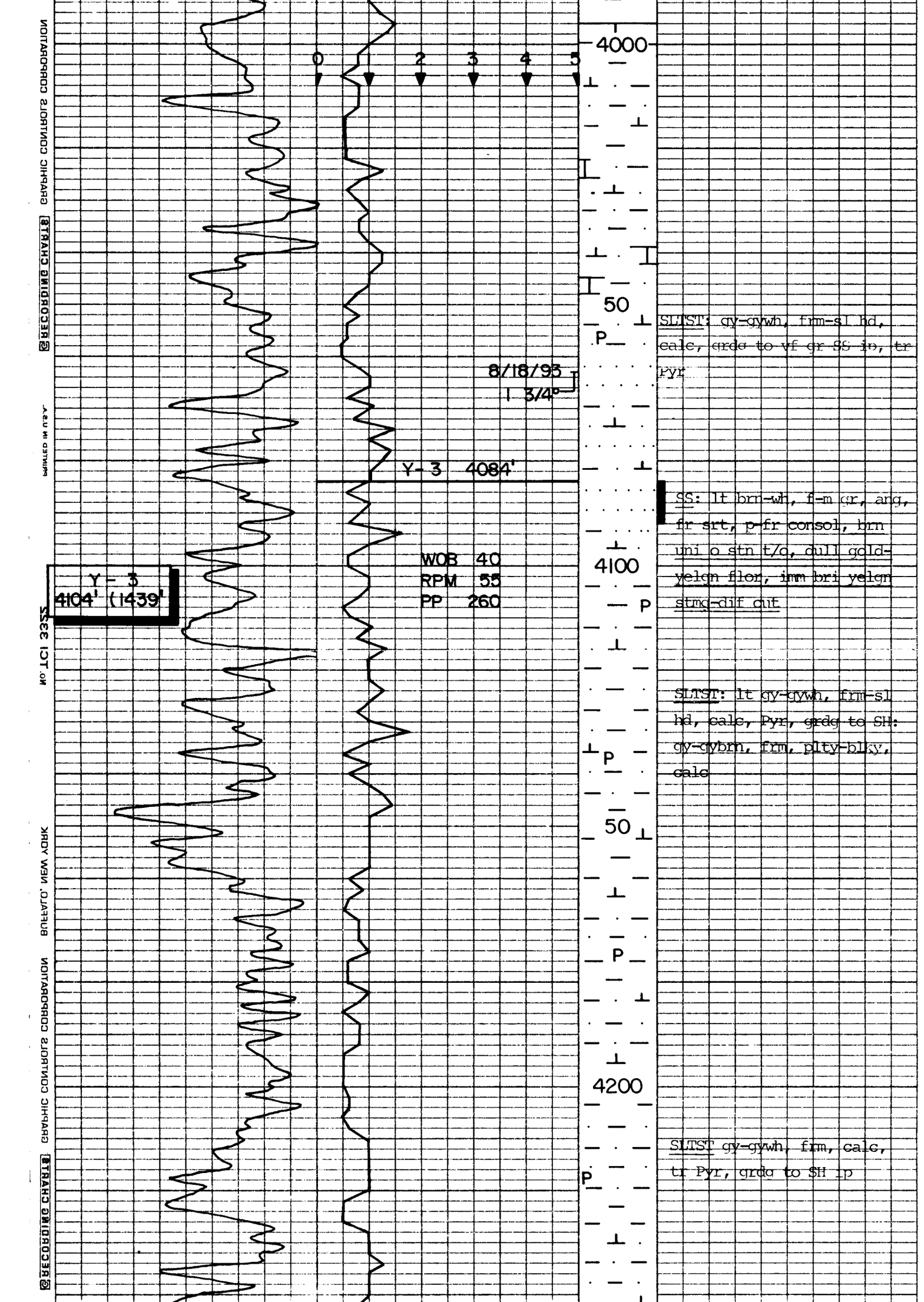
SH: brn-gybrn, frm, blky-plty, tr Pyr, calc-mrly, tr wh-lt orng calc xl

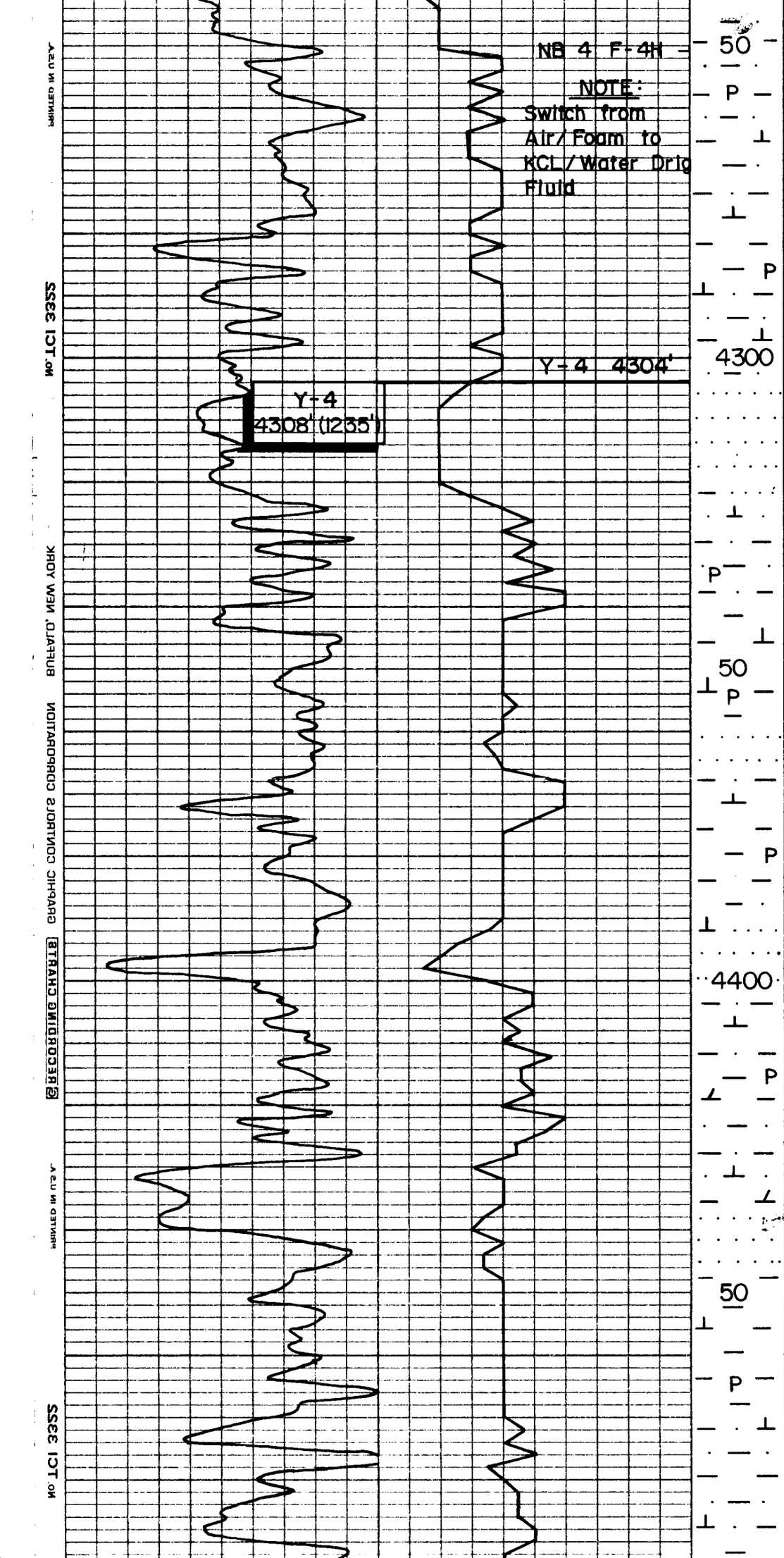
SH: lt-m gy, gybrn, frm, plty-sub blky, calc-dol, tr Pyr, grdg to Dol ip


2400
P
DOL: lt gy-gybrn, crm ip, micxl, frm, dns-sl chky, calc ip, arg, grdg to SH
2500
1°
P
SS: wh-lt gywh, vf-m gr, sub ang-sub rnd, p srt, pred unconsol, pyr-bit, tr orn spty o stn, scat dull yelgn flor, mod yelwh stmg cut, intbds of SH: lt gy-gybrn, frm, blky-plty, calc, pyr
2600
SS: wh-lt brn, vf gr, sub ang, fr srt, unconsol, brn spty o stn & asph res, dull gold flor, imm yelgn stmg-dif cut, oil & tar on pits
2700
P
P
2800
SH: m-dk gy, gybrn, frm, plty, sl calc, slty, pyr
P
SS: wh-lt brn, vf gr, sub ang, fr srt, pred unconsol, brn spty o stn, dull gold flor, imm bri yelgn stmg-dif cut
2900
SS: lt gy, S & P, f-m gr, sub ang, p srt, fr consol, calc cmt'd, pyr
DOL: tn-lt gybrn, crm, crp-micx, frm-sl hd & sil, dns, arg-shly
3000
0
2
3
4
5
8/17/93
RECORDING CHART
GRAPHIC CONTROLS CORPORATION BUFFALO, NEW YORK
MADE IN U.S.A.
GRAPHIC CONTROLS CORPORATION BUFFALO, NEW YORK
NO. TCI 3355


1 1/2°
WOB 50
RPM 50
PP 250
3100
3200
3300
3400
3500
1 3/4°
3600
LS: crm-buf, mic-vfxl, frm, chky, biocl-ool ip, dol
SS: wh-lt gywh, vf-f gr, ang-sub ang, fr srt, unconsol, calc cmt'd ip, grdg to Sltst ip, tr brn spty o stn, dull gold flor, mod yelgn strng cut
LS: wh-crm, micxl, frm-sft, chky-rthy, frag ip,
SH: lt-m gy, gybrn, frm, blky-plty, calc
SS: lt gy, S & P, f-m gr, sub ang, p srt, fr consol, calc-sil cmt, grdg to Sltst
LS: lt brn, crm, crp-micxl, frm, dns-sl chky, arg, intbd w/ SH: gy-gybrn, sft-frm, blky-plty, calc
SS: wh-lt gy, vf-f gr, sub ang, fr srt, unconsol
LS: tn-crm, micxl, sft-frm, chky-rthy, sl arg
SH: lt-m gy, gybrn, frm, blky-plty, calc, grdg to sltst ip
DOL: tn-lt gybrn, crp-micxl,


2nd GARDEN GULCH
3766' (1777')
2nd Garden Gulch
3770'
API — GR
0
150
2" = 100'
5" = 100'
NOTE:
scale change
3700
3800
50
3900
50
frm, dns-chky, arg, calc ip
SLTST: lt-m gy, frm, calc, grdg to vf gr SS ip
LS: crm-buf, wh ip, crpxl, sft-frm, chky-rthy, dol, sl arg
NOTE: 30' samples from 3800' to 4300'
SS: wh-gywh, vf gr, sub ang, fr srt, p-fr consol, calc cmt ip
SLTST: lt gy-gywh, frm-sl hd, calc, grdg to vf gr SS
SH: lt-m gy, gybrn, frm, blky, calc, slty-aren, occ intbds of LS: tn-crm, micxl, frm, dns-chky, arg-dol
SLTST: lt-m gy, gywh, frm-sl hd, calc, grdg to Sh, occ intbds of LS


0
1
2
3
4
5
4000
50
4100
50
4200
P
8/18/93
1 3/4°
Y-3 4084'
WOB 40
RPM 55
PP 260
Y-3
4104' (1439'
SLTST: gy-gywh, frm-sl hd, calc, grdg to vf gr SS in, tr Pyr
SS: lt brn-wh, f-m gr, ang, fr srt, p-fr consol, brn uni o stn t/o, dull gold-yelgn flor, imm bri yelgn strmg-dif cut
SLTST: lt gy-gywh, frm-sl hd, calc, Pyr, grdg to SH: gy-gybrn, frm, plty-blky, calc
SLTST gy-gywh, frm, calc, tr Pyr, grdg to SH ip
RECORDED CHART
GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
MADE IN U.S.A.



SH: lt-m gy, gybrn, frm, blky-plty, calc, pyr, grdg to SLTST: lt gy, frm, calc, sndy ip, very poor samples, abnt uphole cvgs after trip and mudding up

SS: wh, S & P, f-m gr, ang-sub ang, p srt, fr consol, calc cmt, tr brn spty o stn, bri yelgn flor, imm bri yelgn strmg cut

SH: gybrn-brn, frm, blky-plty, slty, tr pyr

SS: wh-lt gy, S & P, f-m gr, ang-sub ang, p srt, fr consol, calc cmt, tt

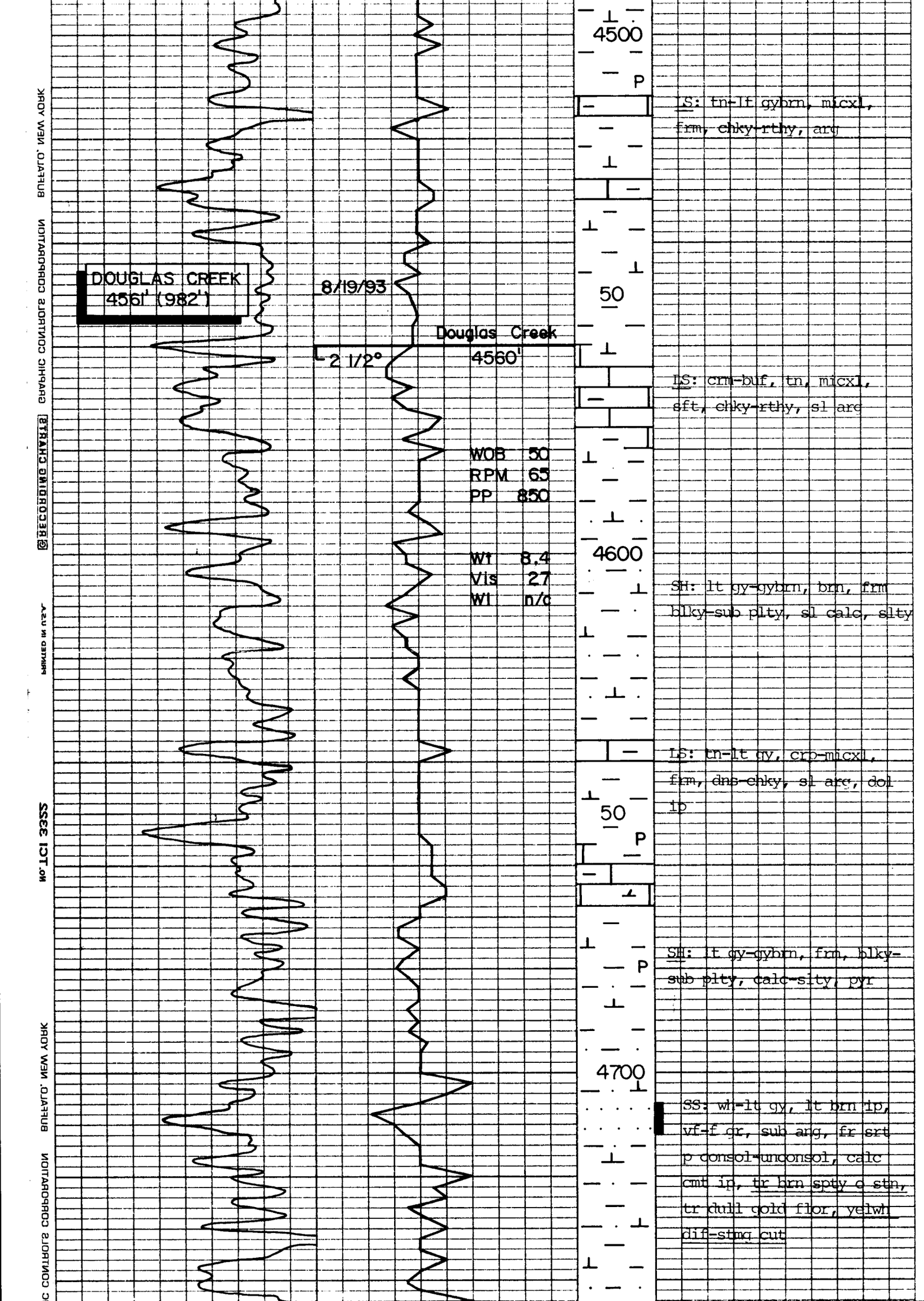
SH: lt-m gy, frm, blky, calc, tr Pyr, slty & grdg to SLTST

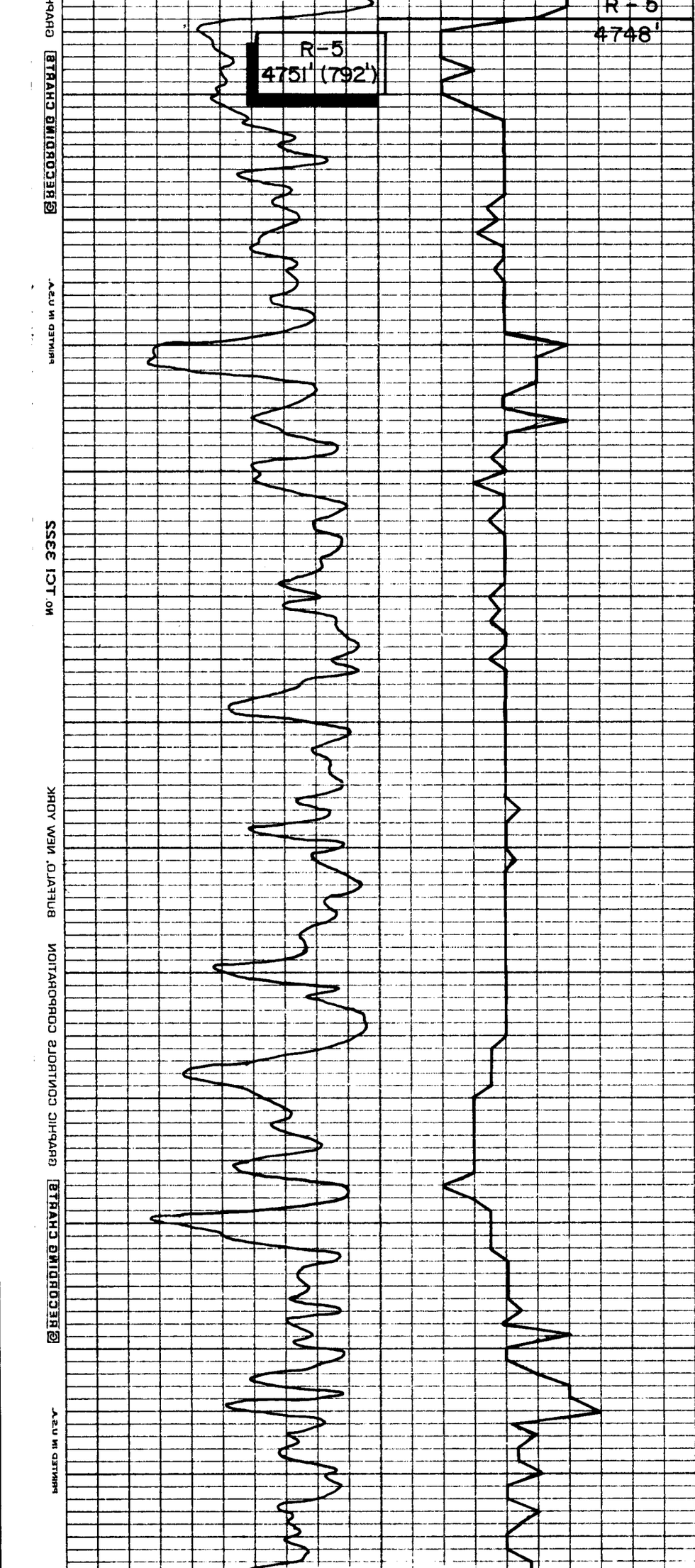
SS: wh-lt gy, f-m gr, ang-sub ang, p srt, fr consol, calc cmt, tt

SH: gybrn-brn, frm, blky-plty, calc-dol, slty

SS: gy-wh, brn ip, f-m gr, ang-sub ang, p srt, fr consol, calc cmt, brn spty o stn, dull gold flor, mod yelgn strmg cut

SH: gy-gybrn, frm, blky-plty, calc, slty ip, tr Pyr


DOUGLAS CREEK
4561' (982')
8/19/93
Douglas Creek
4560'
2 1/2°
WOB 50
RPM 65
PP 850
Wt 8.4
Vis 27
Wl n/c
4500
50
4600
50
4700
LS: tn-lt gybrn, micxl, frm, chky-rthy, arg
LS: crm-buf, tn, micxl, sft, chky-rthy, sl arg
SH: lt gy-gybrn, brn, frm blky-sub plty, sl calc, slty
LS: tn-lt gy, crp-micxl, frm, dns-chky, sl arg, dol ip
SH: lt gy-gybrn, frm, blky-sub plty, calc-slty, pyr
SS: wh-lt gy, lt brn ip, vf-f gr, sub ang, fr srt p consol-unconsol, calc cmt ip, tr brn spty o stn, tr dull gold flor, yelwh dif-stmg cut



SS: lt brn-wh, vf-f gr, sub ang, fr srt, p-fr consol, calc cmt, brn spty-unif o stn, oil cn pits, bri yelgn flor, mod yelgn stmg cut

SH: lt-m gy, gybrn, frm, blky-plty, calc, slty ip

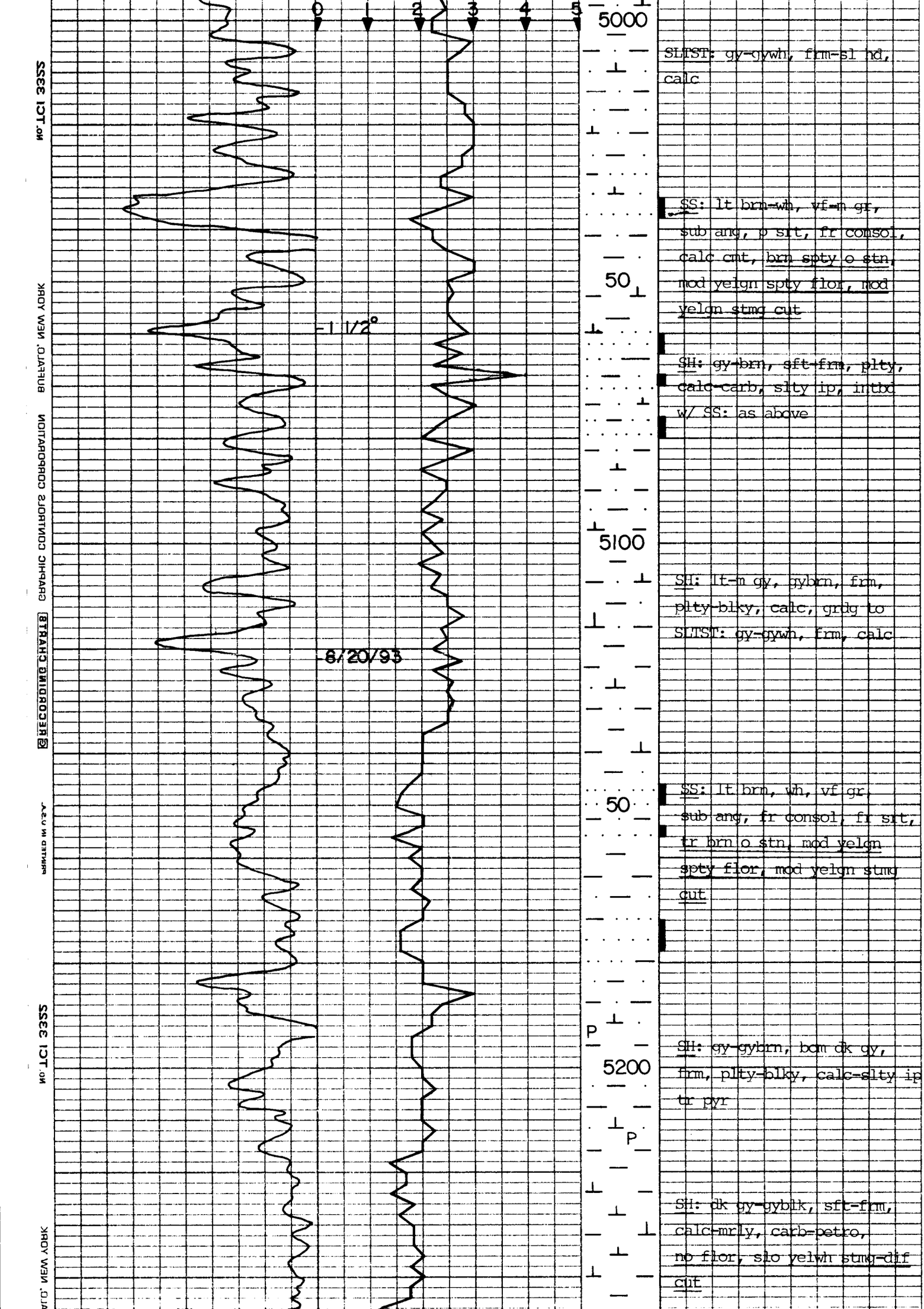
LS: tn-lt gybrn, micxl, frm, chky, arg

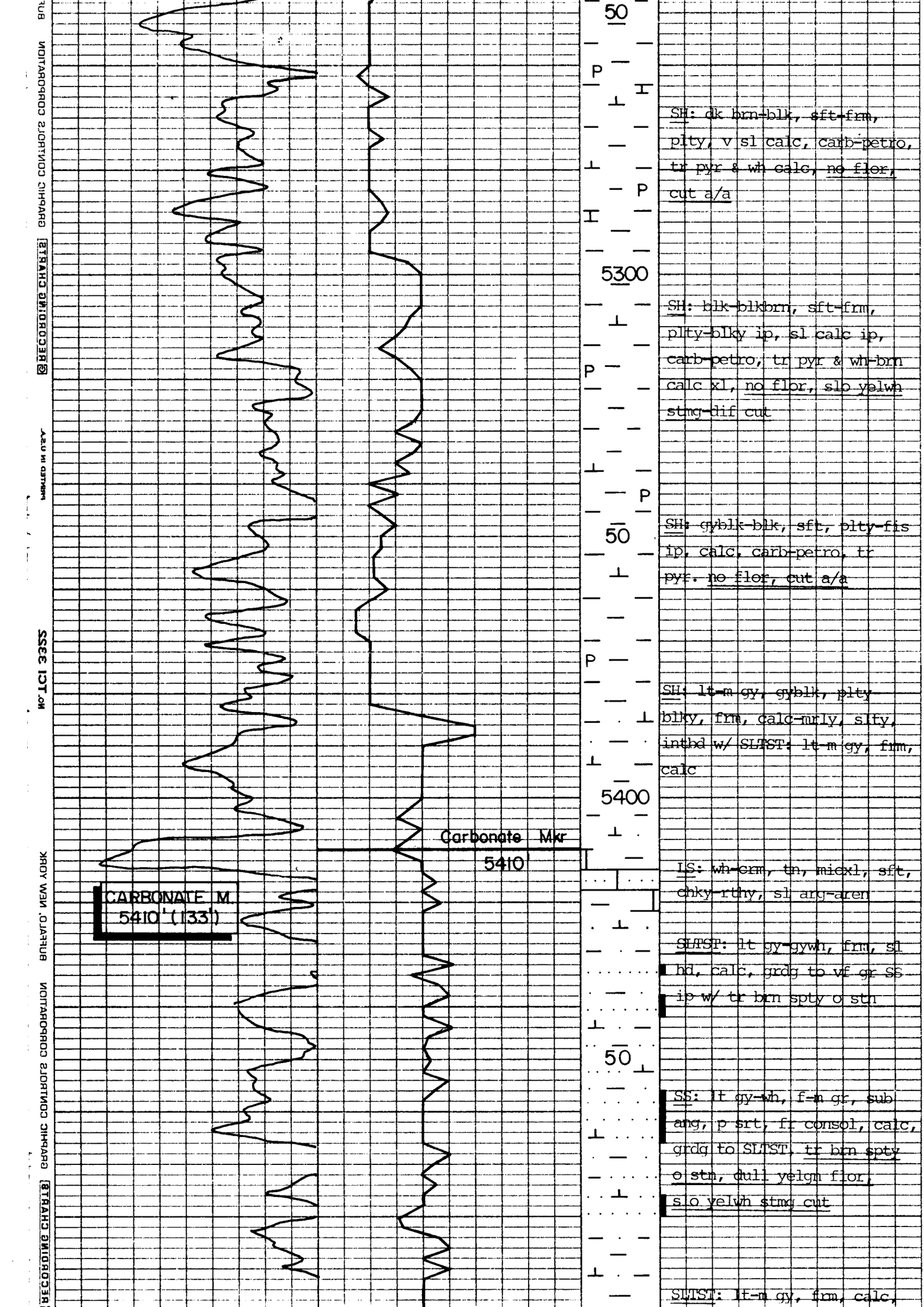
SH: lt-m gy, gybrn-brn, frm, blky- sub plty, calc-mrly ip, slty, tr LS

SH: dk brn-gyblk, sft, plty, calc-carb, no flor, slo yelwh dif cut, tr SS: wh-lt brn, f-m gr, sub ang, p srt, fr consol, calc cmt, tr brn spty o stn, mod yelgn flor, mod yelgn stmg cut

SH/ST: lt gy-gywh, frm-sl hd, calc, grdg to SH ip

SH: lt-m gy, gybrn, frm, blky-sub plty, calc, slty


0
1
2
3
4
5
5000
SLTST: gy-gywh, frm-sl hd, calc
SS: lt brn-wh, vf-m gr, sub ang, p srt, fr consol, calc cmt, brn spty o stn, mod yelgn spty flor, mod yelgn stmg cut
SH: gy-brn, sft-frm, plty, calc-carb, slty ip, intbd w/ SS: as above
-1 1/2°
50
5100
SH: lt-m gy, gybrn, frm, plty-blky, calc, grdg to SLTST: gy-gywh, frm, calc
-6/20/93
SS: lt brn, wh, vf gr, sub ang, fr consol, fr srt, tr brn o stn, mod yelgn spty flor, mod yelgn stmg cut
50
P
5200
SH: gy-gybrn, bcm dk gy, frm, plty-blky, calc-slty ip, tr pyr
P
SH: dk gy-gyblk, sft-frm, calc-mrly, carb-petro, no flor, slo yelwh stmg-dif cut
RECORDING CHART
GRAPHIC CONTROLS CORPORATION BUFFALO, NEW YORK
No. 1CI 3335
No. 1CI 3335



SH: dk brn-blk, sft-frm, plty, v sl calc, carb-petro, tr pyr & wh calc, no flor, cut a/a

SH: blk-blkbrn, sft-frm, plty-blky ip, sl calc ip, carb-petro, tr pyr & wh-brn calc xl, no flor, slo yelwh stmg-dif cut

SH: gyblk-blk, sft, plty-fis ip, calc, carb-petro, tr pyr. no flor, cut a/a

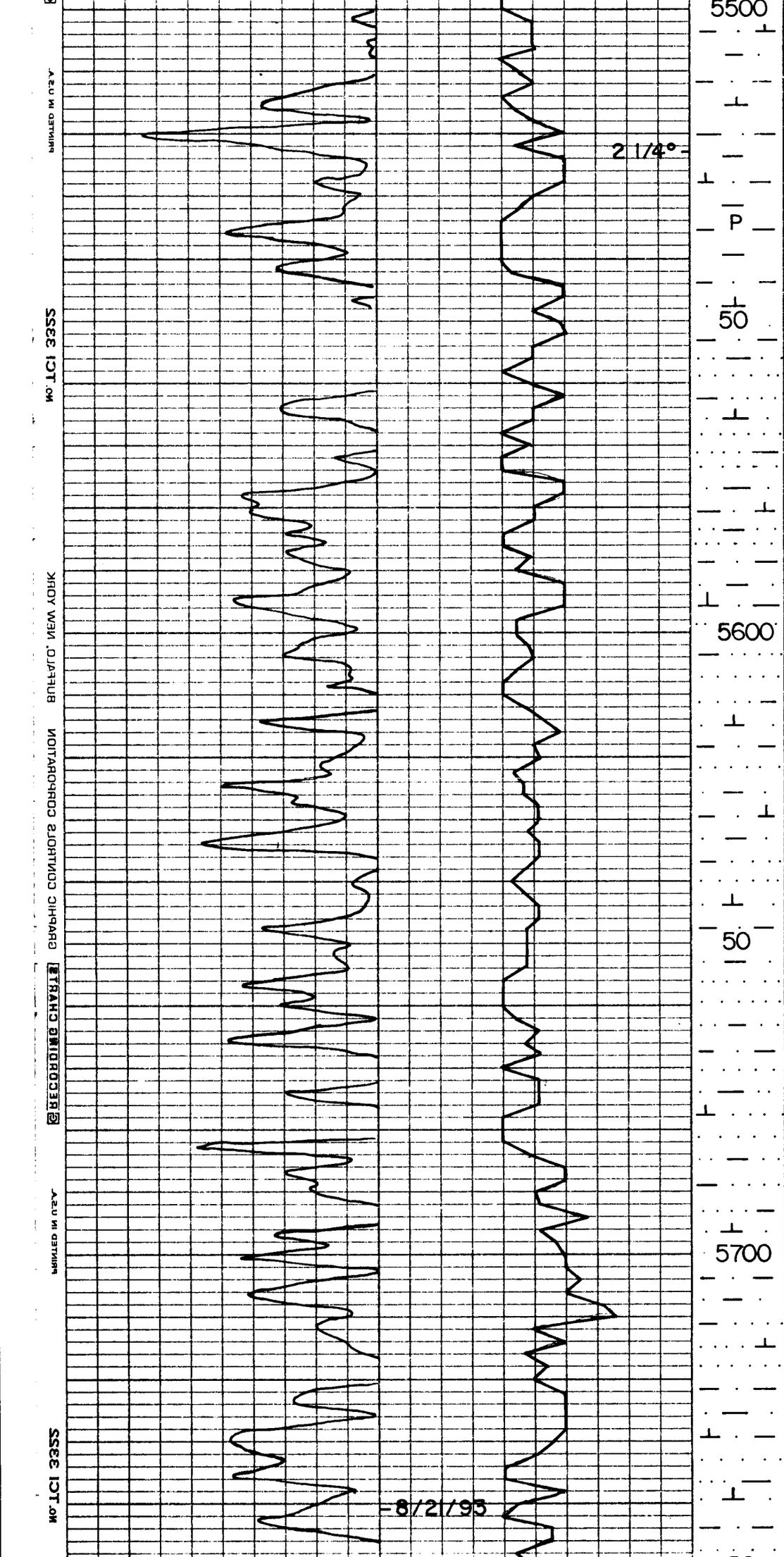
SH: lt-m gy, gyblk, plty blky, frm, calc-mrly, slty, intbd w/ SLTST: lt-m gy, frm, calc

LS: wh-crm, tn, micxl, sft, chky-rthy, sl arg-aren

SLTST: lt gy-gywh, frm, sl hd, calc, grdg to vf gr SS ip w/ tr brn spty o stn

SS: lt gy-wh, f-m gr, sub ang, p srt, fr consol, calc, grdg to SLTST, tr brn spty o stn, dull yelgn flor, slo yelwh stmg cut

SLTST: lt-m gy, frm, calc,



intbds of SH: gy-gybrn, frm, blky, calc, tr pyr

SH: dk gy-blkbrn, sft, plty, calc-mrly, carb, tr pyr

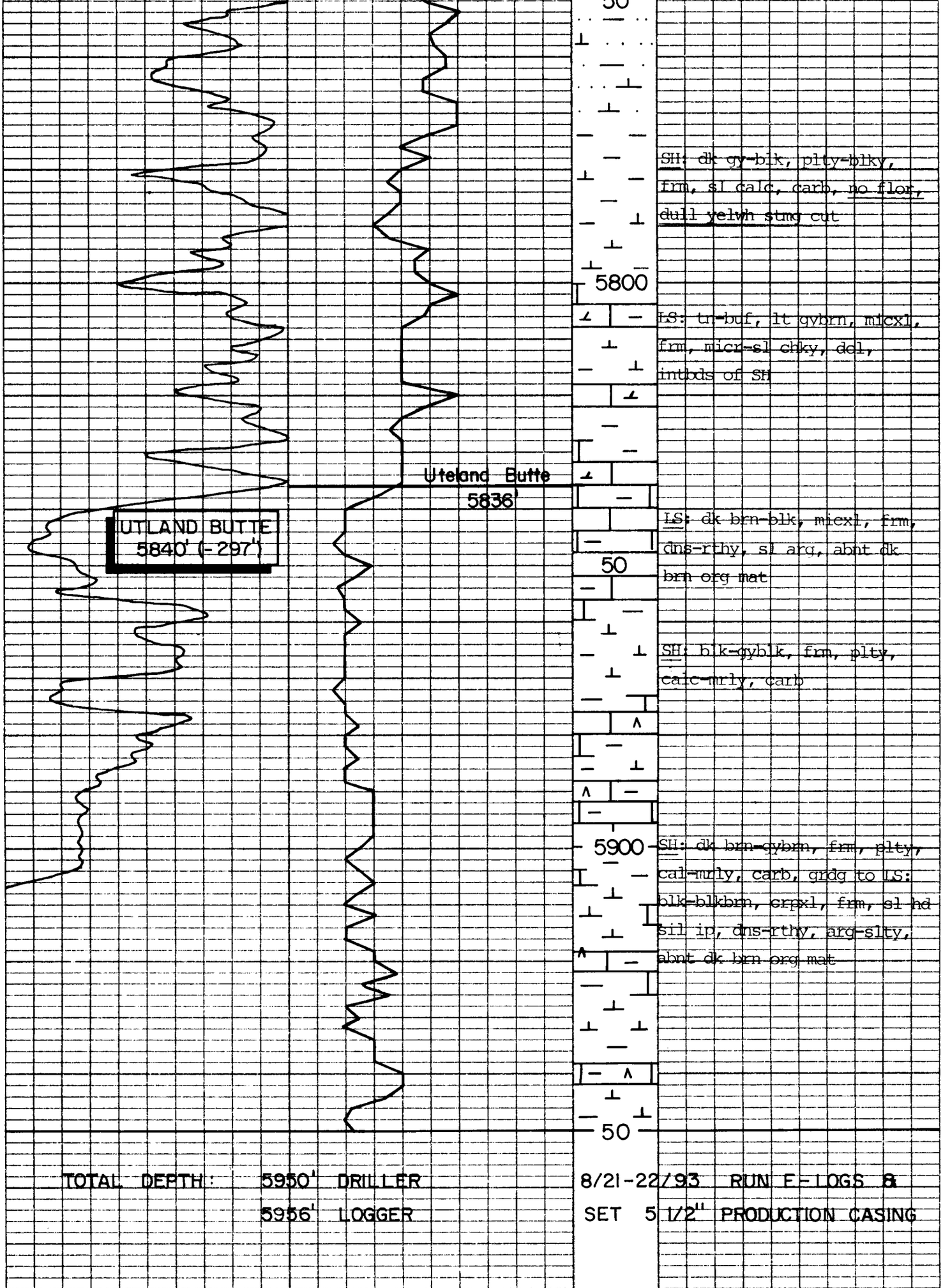
SLTST: lt-m gy, gywh, frm-sl hd, calc, grdg to vf gr SS

SS: wh-lt gy, f-m gr, sub ang, p srt, fr consol, calc cmt, tt

SLTST: lt-m gy, frm-sl hd, calc

SH: lt-m gy, gybrn, frm, blky-plty, calc-mrly, slty

SS: wh-lt gy, f-m gr, sub ang-sub rnd, p srt, p consol-unconsol, grdg to SLTST



TOTAL DEPTH: 5950' DRILLER
5956' LOGGER

8/21-22/93 RUN E-LOGS &
SET 5 1/2" PRODUCTION CASING

Balcron Oil
DAILY OPERATING REPORT

DATE: 9/17/93

****Yates Daily Operating Reports****

BALCRON FEDERAL #21-9Y
--TIGHT HOLE--

Operator: EREC/Balcron
Location: NE NW Section 9, T9S, R16E
Duchesne County, Utah
Prospect: Monument Butte

9-16-93 Completion
CP - 0. TP - 100 psig. Tag fluid @ 3000' from surface. made 3 swab runs, swabbed down to 4500', 30% swab back 12 bbls. Release packer. TIH, tag sand @ 5395' KB. Circ well clean to 6112', TOH w/tbg & pzcker. RU Schlumberger to perf, 4780'82', 4885'-96' KB 2 SPF. RD Schlumberger. TIH w/BP, 1 jt 2-7/8" tbg, 5-1/2" packer, seat nipple & 10 stds of 2-7/8" tbg. SWIFN.
DC: $5,056

BALCRON FEDERAL #21-13Y
---TIGHT HOLE---

Operator: Balcron/EREC
Location: NE NW Section 13, T9S, R16E
Duchesne County, Utah
Prospect: Green River

9-16-93 Completion
Start pumping, SPM 9, stroke length - 64".
DC: $975

EQUITABLE RESOURCES
ENERGY COMPANY

BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104

Office: (406) 259-7860
FAX: (406) 245-1365
FAX: (406) 245-1361

September 20, 1993

Bureau of Land Management
170 South 500 East
Vernal, UT 84078

Gentlemen:

RE: Balcron Federal #21-13Y
NE NW Section 13, T9S, R16E
Duchesne County, Utah

Enclosed is our report of first production on the referenced well. A site security diagram is also enclosed.

Sincerely,

Bobbie Schuman

Bobbie Schuman
Coordinator of Operations,
Environmental and Regulatory Affairs

/rs

Enclosures

cc: Utah Division of Oil, Gas and Mining

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.: U-64805

6. If Indian, Allottee or Tribe Name: n/a

7. If Unit or CA, Agreement Designation: n/a

1. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.: Balcron Federal #21-13Y

2. Name of Operator: Equitable Resources Energy Company, Balcron Oil Division

9. API Well No.: 43-013-31400

3. Address and Telephone No.: P.O. Box 21017; Billings, MT 59104 (406) 259-7860

10. Field and Pool, or Exploratory Area: Monument Butte/Grn. River

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NE NW Section 13, T9S, R16E
702.7' FNL, 1830.5' FWL

11. County or Parish, State: Duchesne County, UTAH

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other 1st production and site security diagram	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

First production on this well was on September 16, 1993.

A site security diagram is attached to this sundry notice.

RECEIVED
SEP 22 1993
DIVISION OF
OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct
Signed Bobbie Schuman Title Coordinator of Environmental and Regulatory Affairs Date 9-16-93
Bobbie Schuman

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

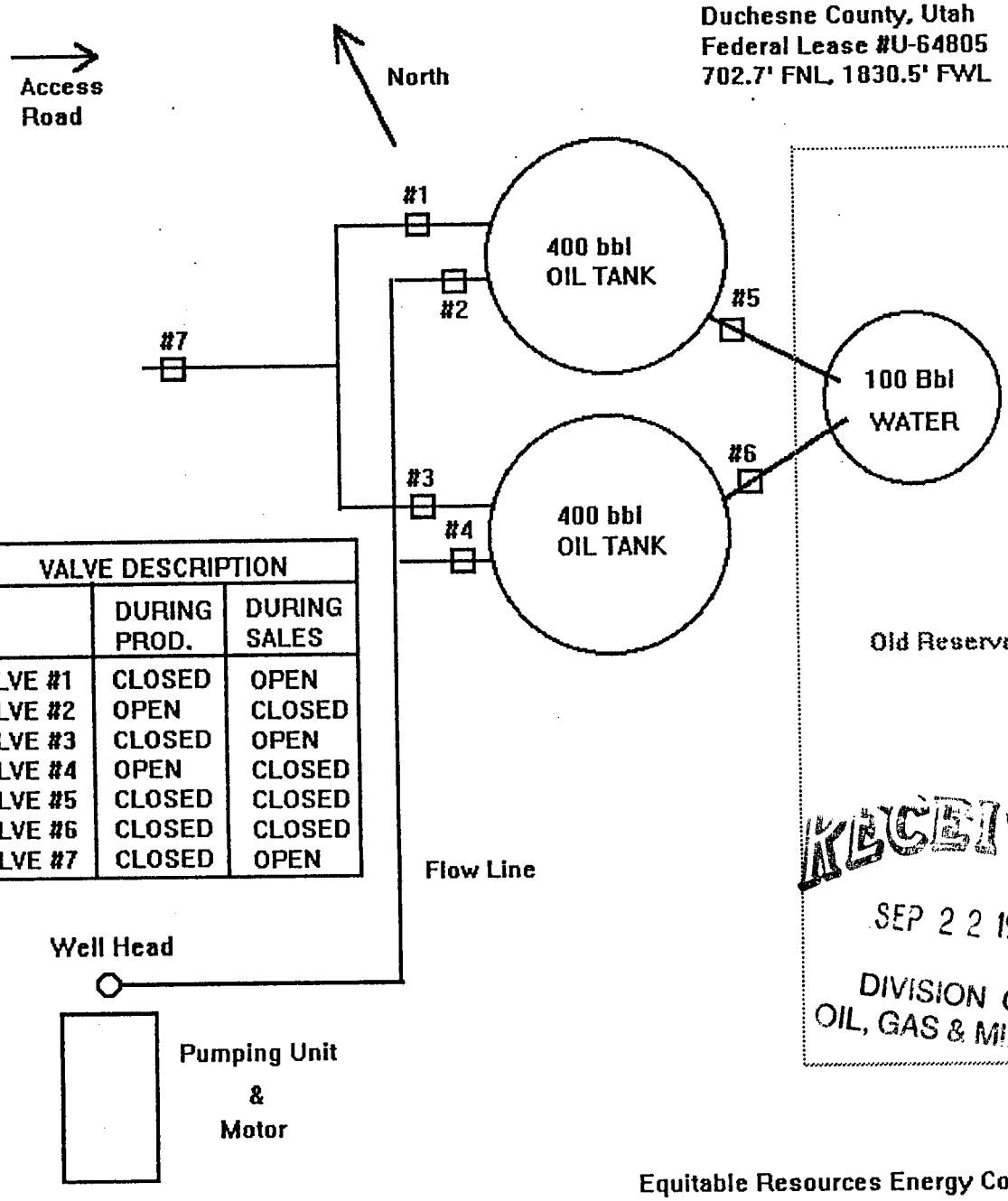
*See Instruction on Reverse Side

Equitable Resources Energy Company

Balcron Federal 21-13Y

Production Facility Diagram

Balcron Federal 21-13Y
NE NW Section 13, T9S, R16E
Duchesne County, Utah
Federal Lease #U-64805
702.7' FNL, 1830.5' FWL



VALVE DESCRIPTION		
	DURING PROD.	DURING SALES
VALVE #1	CLOSED	OPEN
VALVE #2	OPEN	CLOSED
VALVE #3	CLOSED	OPEN
VALVE #4	OPEN	CLOSED
VALVE #5	CLOSED	CLOSED
VALVE #6	CLOSED	CLOSED
VALVE #7	CLOSED	OPEN

Equitable Resources Energy Company
Balcron Oil Division
P.O. Box 21017
Billings, MT 59104
(406) 259-7860

DIAGRAM NOT TO SCALE

EQUITABLE RESOURCES
ENERGY COMPANY

BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104

Office: (406) 259-7860
FAX: (406) 245-1365
FAX: (406) 245-1361

October 25, 1994

Bureau of Land Management
170 South 500 East
Vernal, UT 84078

Gentlemen:

RE: Balcron Federal #21-13Y

Balcron Federal #41-21Y

Balcron Monument Fedeal #13-5

Balcron Monument Federal #22-5

Balcron Monument Federal #32-11J

Enclosed are the following items for the referenced wells:

Well Completion Report

The following items will follow under separate cover in a few days:

Site Security Diagram (Sundry Notice)
NTL2B Disposition of Produced Water (Sundry Notice)

Sincerely,

Molly Conrad

Molly Conrad
Operations Secretary

/mc

Enclosures

cc: Utah Division of Oil, Gas and Mining: Also enclosed is the Report of Water Encountered (Utah Form 7)

Form 3160-4
(November 1983)
(formerly 9-330)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

CONFIDENTIAL

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

2. NAME OF OPERATOR: Equitable Resources Energy Company, Balcron Oil Division

3. ADDRESS OF OPERATOR: P.O. Box 21017, Billings, MT 59104 (406) 259-7860

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: NE NW Section 13, T9S, R16E 702.7' FNL, 1830.5' FWL
At top prod. interval reported below
At total depth

5. LEASE DESIGNATION AND SERIAL NO.: U-64805
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: n/a
7. UNIT AGREEMENT NAME: n/a
8. FARM OR LEASE NAME: Balcron Federal
9. WELL NO.: #21-13Y
10. FIELD AND POOL, OR WILDCAT: Monument Butte/Green River
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Section 13, T9S, R16E

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
43-013-31400	6-21-93	Duchesne	Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
8-13-93	8-22-93	9-16-93	5535.5' GL	n/a

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
5950'	5892'	n/a	→	Sfc - TD	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
4751'-4765'
4309'-4325'
Green River

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: DLL - LDT - CNL - GR, CBL, CCL, mud log 8-24-93

27. WAS WELL CORED: No

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	259'	12-1/4"	150 sxs Premium + additives	n/a
5-1/2"	15.5#	5945.72'	7-7/8"	145 sxs Hilift + additives	n/a
				325 sxs Class "G" + additives	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)
n/a				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	4802'	n/a

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OCT 28 1993
DIVISION OF
OIL, GAS & MINING

31. PERFORATION RECORD (*Interval, size and number*)
4751'-4765' (2 SPF)
4309'-4325' (2 SPF)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4751'-4765'	20,140# 20/40 sand & 15,380# 16/30 sand w/371 bbls gelled 2% KCL water.
4309'-4325'	33,600# 16/30 sand w/377 bbls gelled 2% KCL water.

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
9-16-93	Pump - 1-1/2" Insert Pump	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
9-24-93	24	n/a		84	126	7	1500

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
n/a	n/a		84	126	7	34

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): Used for fuel.
TEST WITNESSED BY: Dale Griffin

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED [signature] TITLE Operations Manager DATE October 25, 1993

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RECEIVED

OCT 2 8 1993

DIVISION OF OIL, GAS & MINING

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries)

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
			No DST 's run.

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
See Geologic REport.		

REPORT OF WATER ENCOUNTERED DURING DRILLING - FORM 7 (1/89)

1. Well name and number: Balcron Federal #21-13Y
   API number: 43-013-31400

2. Well location: QQ NE NW section 13 township 9S range 16E county Duchesne

3. Well operator: Equitable Resources Energy Company, Balcron Oil Division
   Address: P.O. Box 21017 phone: (406) 259-7860
   Billings, MT 59104

4. Drilling contractor: Union Drilling Rig #18
   Address: Drawer 40 phone: (304)472-4610
   Buckhannon, WV 26201

5. Water encountered (continue on reverse side if necessary)

Depth		Volume (flow rate or head)	Quality (fresh or salty)
from	to		
		No water encountered.	

6. Formation tops: See Geologic Report.

If an analysis has been made of the water encountered, please attach a copy of the report to this form.

I certify that this report is true and complete to the best of my knowledge.

Name Dave McCoskery Signature
Title Operations Manager Date October 25, 1993

RECEIVED
OCT 28 1993
DIVISION OF OIL, GAS & MINING

Comments:

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIDENTIAL

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.: U-64805

6. If Indian, Allottee or Tribe Name: n/a

7. If Unit or CA, Agreement Designation: n/a

1. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.: Balcron Federal #21-13Y

2. Name of Operator: Equitable Resources Energy Company, Balcron Oil Division

9. API Well No.: 43-013-31400

3. Address and Telephone No.: P.O. Box 21017, Billings, MT 59104 (406) 259-7860

10. Field and Pool, or Exploratory Area: Monument Butte/Green River

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NE NW Section 13, T9S, R16E
702.7' FNL, 1830.5' FWL

11. County or Parish, State: Duchesne County, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[X] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other NTL2B	[ ] Dispose Water
		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

This sundry notice is to be considered as our NTL2B (Disposition of Produced Water) for this well.

Any water produced by this well will be held in a produced water tank and then hauled to a commercial disposal facility. See Site Security Diagram for location of water tank.

RECEIVED
NOV 02 1993
DIVISION OF
OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed [signature] Title Operations Manager Date October 25, 1993

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

EQUITABLE RESOURCES
ENERGY COMPANY

BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104

Office: (406) 259-7860
FAX: (406) 245-1365
FAX: (406) 245-1361

November 1, 1993

Bureau of Land Management
170 South 500 East
Vernal, UT 84078

Gentlemen:

RE: Balcron Federal #21-13Y

Balcron Federal #41-21Y

Balcron Monument Federal #13-5

Balcron Monument Federal #22-5

Balcron Monument Federal #32-11

Enclosed are our Site Security Diagrams and Sundries reporting Disposition of Produced Water for the referenced wells.

Please feel free to contact me if you need any additional information.

Sincerely,

Molly Conrad

Molly M. Conrad
Operations Secretary

/mc

cc: State of Utah, Division of Oil, Gas, & Mining

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

CONFIDENTIAL

5. Lease Designation and Serial No.: U-64805

6. If Indian, Allottee or Tribe Name: n/a

7. If Unit or CA, Agreement Designation: n/a

1. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.: Balcron Fedeal #21-13Y

2. Name of Operator: Equitable Resources Energy Company, Balcron Oil Division

9. API Well No.: 43-013-31400

3. Address and Telephone No.: P.O. Box 21017; Billings, MT 59104 (406) 259-7860

10. Field and Pool, or Exploratory Area: Monument Butte/Grn.River

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NE NW Section 13, T9S, R16E
702.7' FNL, 1830.5' FWL

11. County or Parish, State: Duchesne County, UTAH

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other Site Security Diagram	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Attached is the Site Security Diagram for this well.

CONFIDENTIAL

NOV 0 2 1993

DIVISION OF
OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed Bobbie Schuman Title Coordinator of Environmental and Regulatory Affairs Date 11-1-93

Bobbie Schuman

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

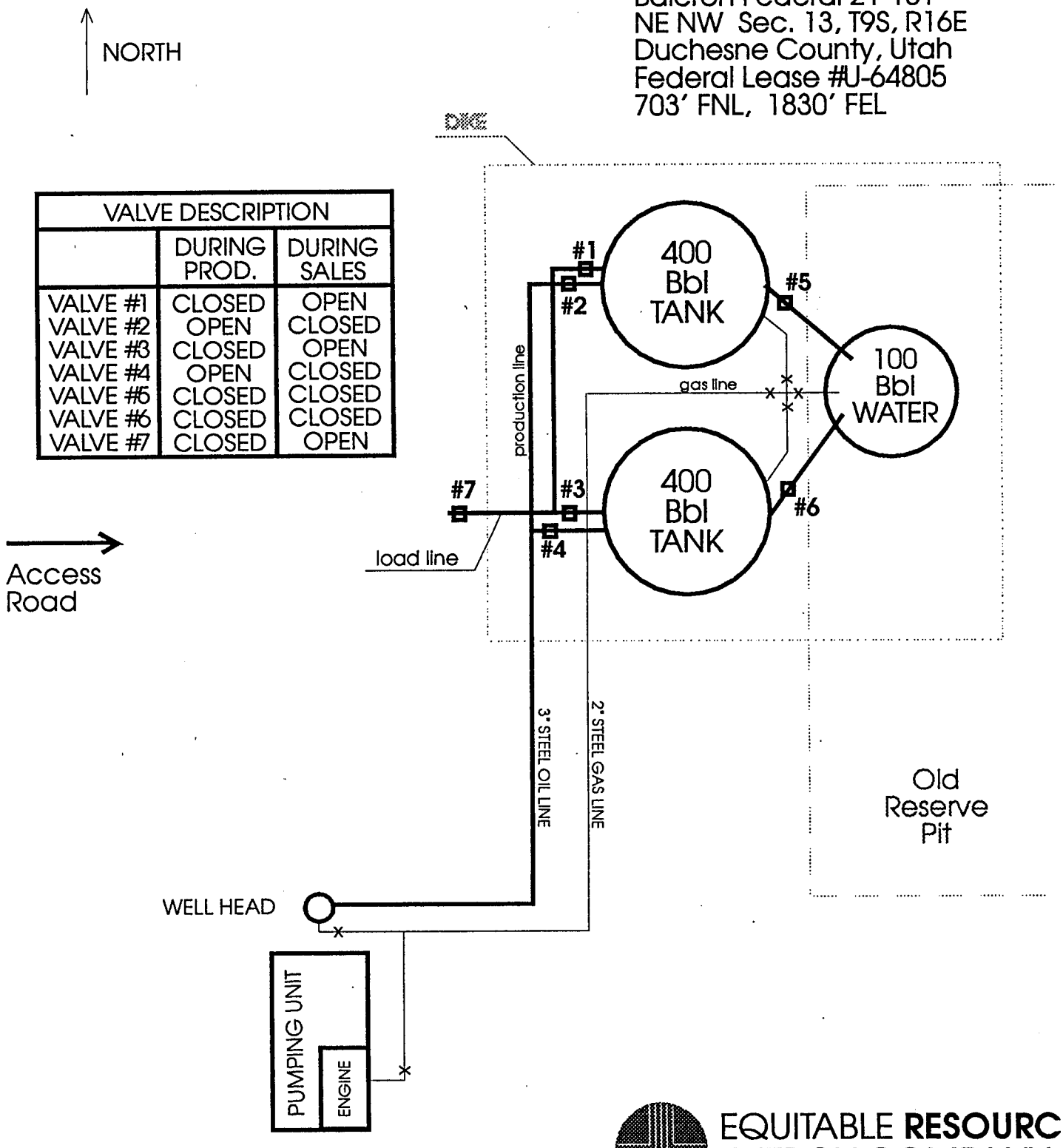
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

Equitable Resources Energy Company
Balcron Federal 21-13Y
Production Facility Diagram

Balcron Federal 21-13Y
NE NW Sec. 13, T9S, R16E
Duchesne County, Utah
Federal Lease #U-64805
703' FNL, 1830' FEL



VALVE DESCRIPTION		
	DURING PROD.	DURING SALES
VALVE #1	CLOSED	OPEN
VALVE #2	OPEN	CLOSED
VALVE #3	CLOSED	OPEN
VALVE #4	OPEN	CLOSED
VALVE #5	CLOSED	CLOSED
VALVE #6	CLOSED	CLOSED
VALVE #7	CLOSED	OPEN

DIAGRAM NOT TO SCALE

EQUITABLE **RESOURCES**
ENERGY COMPANY
BALCRON OIL DIVISION
1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104-1017
(406) 259-7860

EQUITABLE RESOURCES
ENERGY COMPANY

BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104

Office: (406) 259-7860
FAX: (406) 245-1365 ☐
FAX: (406) 245-1361 ☒

November 30, 1993

Bureau of Land Management
170 South 500 East
Vernal, UT 84078

Gentlemen:

As requested, enclosed are sundry notices which are being resubmitted to comply with Onshore Order #7 which covers disposition of produced waters. These are being resubmitted for the following wells:

Balcron Monument Federal #32-11
Balcron Monument Federal #22-5
Balcron Monument Federal #13-5
Balcron Federal #41-21Y
Balcron Federal #21-13Y
Balcron Federal #21-9Y
Balcron Monument Federal #23-5
Balcron Monument Federal #23-11
Balcron Federal #22-10Y
Balcron Federal #44-14Y
Balcron Federal #24-3Y

These are to replace the sundry notices which were filed as NTL2B.

Also enclosed for your information is a copy of the State approval of the primary facility at which we dispose of our produced water.

Sincerely,

Bobbie Schuman

Bobbie Schuman
Coordinator of Operations,
Environmental and Regulatory Affairs

/rs

Enclosures

cc: Utah Division of Oil, Gas and Mining

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

CONFIDENTIAL

5. Lease Designation and Serial No.: U-64805

6. If Indian, Allottee or Tribe Name: n/a

7. If Unit or CA, Agreement Designation: n/a

1. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.: Balcron Federal #21-13Y

2. Name of Operator: Equitable Resources Energy Company, Balcron Oil Division

9. API Well No.: 43-013-31400

3. Address and Telephone No.: P.O. Box 21017; Billings, MT 59104 (406) 259-7860

10. Field and Pool, or Exploratory Area: Monument Butte/Grn.River

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NE NW Section 13, T9S, R16E
702.7' FNL, 1830.5' FWL

11. County or Parish, State: Duchesne County, UTAH

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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[X] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[XX] Other Onshore Order #7	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

DEC 01 1993

DIVISION OF
OIL, GAS & MINING

Any water produced by this well will be held in a produced water tank and trucked to a commercial disposal facility. The primary facility to be used is the R.N. Industries produced water disposal facility located in Section 9, T2S, R2W in Duchesne County, Utah. A copy of the State-issued permit for that facility is on file at the Vernal Bureau of Land Management. If for some reason the operator is unable to use this primary disposal facility, the produced water will be trucked to another State-approved disposal facility. If applicable, Operator has received approved Right-of-Way access to this well location from the Vernal Bureau of Land Management.

14. I hereby certify that the foregoing is true and correct

Signed Bobbie Schuman (Bobbie Schuman) Title Coordinator of Environmental and Regulatory Affairs Date November 30, 1993

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any: Federal Approval of this Action is Necessary

Accepted by the State of Utah Division of Oil, Gas and Mining

Date: 12-3-93

By: [signature]

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

UTAH DIVISION OF OIL, GAS AND MINING
EQUIPMENT INVENTORY

Operator: EQUITABLE RESOURCES COMPANY Lease: State: ____ Federal: Y
Indian: ____ Fee: ____

Well Name: BALCRON FEDERAL # 21-13Y API Number: 43-013-31400
Section: 13 Township: 9S Range: 16E County: DUCHESNE Field:
MONUMENT BUTTES
Well Status: POW Well Type: Oil: Y Gas: ____

PRODUCTION LEASE EQUIPMENT: Y CENTRAL BATTERY: ____

Y Well head ____ Boiler(s) ____ Compressor ____ Separator(s)
____ Dehydrator(s) ____ Shed(s) ____ Line Heater(s) ____ Heated Separator
____ VRU ____ Heater Treater(s)

PUMPS:
____ Triplex ____ Chemical (1) Centrifugal

LIFT METHOD:
Y Pumpjack ____ Hydraulic ____ Submersible ____ Flowing

GAS EQUIPMENT:

N Gas Meters N Purchase Meter N Sales Meter

TANKS:	NUMBER		SIZE
	Y	Oil Storage Tank(s)	2-400 BARREL OIL TANKS BBLS
	Y	Water Tank(s)	1-130 BARREL PIT TANK BBLS
	____	Power Water Tank	____ BBLS
	____	Condensate Tank(s)	____ BBLS
	(1)	Propane Tank	

REMARKS: VENTING SMALL AMOUNT OF GAS AT PIT (NO SALES LINE AT PRESENT TIME). PIT TANK IS OPEN-TOP, SUBSURFACE WITH OPEN AREA AROUND SAME FOR LEAK DETECTION. CENTRIFUGAL IS GLYCOL TRACE PUMP.

Location central battery: Qtr/Qtr: ____ Section: ____ Township: ____
Range: ____

Inspector: DENNIS INGRAM Date: 1/20/94

EQUITABLE **RESOURCES**
ENERGY COMPANY

BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104

Office: (406) 259-7860
FAX: (406) 245-1365
FAX: (406) 245-1361

CONFIDENTIAL

RECEIVED
FEB 11 1994

DIVISION OF
OIL GAS & MINING

February 9, 1994

Bureau of Land Management
170 South 500 East
Vernal, UT 84078

Gentlemen:

RE: Balcron Federal #21-9Y
Balcron Federal #22-10Y
Balcron Federal #21-13Y 43-013-31400
Balcron Federal #44-14Y

Enclosed for your files is a copy of the daily operating reports for the referenced well.

Please feel free to contact me if you need any additional information.

Sincerely,

Molly Conrad

Molly M. Conrad
Operations Secretary

/mc

Enclosures

cc: State of Utah, Division of Oil, Gas, & Mining

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**
702.7' FNL, 1830.5' FWL
PTD: 5900' Formation: Green River
Green River Prospect/Monument Butte Field
Elevations: 5535.5' GL
Contractor: Union Drilling Rig #18
Operator: Balcron/EREC
Spud: 8/13/93 @ 11:45 p.m.
Casing: 8-5/8" @ 259
5-1/2" @ 5940.72'
Tubing: 2-7/8" @ 4820'

8-5-93 Present Operation: Building location.
Start location, move rock and dirt.

8-6-93 Present Operation: Build location.

8-7-93 Present Operation: Work on pit.
Had to drill 35 holes & shoot.

8-8-93 Present Operation: Shut down.

8-9-93 Present Operation: Finish location & road.

8-11-93 Present Operation: Install pit liner & haul water.
CC: $19,656

8-14-93 TD: 232' (232') Day 1
Formation: Uintah
Present Operation: Drilling surface.
SPUD @ 11:45 PM, 8/13/93. Move & rig up. Drill rat hole, drill & set conductor. Nipple up air head, drill surface hole.
DC: $14,553 CC: $34,209

8-15-93 TD: 275' (43') Day 2
Present Operation: Drill cement.
Finish drill surface hole. Nipple down air head. Pull conductor pipe & run 6 jts 8-5/8" casing. Cement with 150 sx Premium Plus cement with 2% CCL & 1/4# per sx Flocele. Good returns, approx 6 BBLS cement back. Plug down @ 11:15 AM, 8/14/93. Cement with Halliburton. WOC. Weld on head, nipple up. Test BOP & manifold to 2000# - OK. Had to run cup plug to test pipe to 1500#.
DC: $8,999 CC: $43,208

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

8-16-93 TD: 1,555' (1,280') Day 3
MW 8.4 Vis 27 pH 10
Formation: Green River
Present Opertion: Drilling.
Drill cement, survey, change air head rubber, drill.
DC: $16,555 CC: $59,763

8-17-93 TD: 3,013' (1,458') Day 4
Formation: Green River
Present Operation: Drilling.
Drill, survey, clean on rig.
DC: $20,202 CC: $79,965

8-18-93 TD: 4,062' (1,049') Day 5
MW 8.4 Vis 27 pH 10
Formation: Green River
Present Operation: Survey.
Drill, survey, clean on rig.
DC: $14,278 CC: $94,243

8-19-93 TD: 4,550' (488') Day 6
MW 8.4 VIS 27 pH 10.3
Formation: Green River
Present Operation: Drilling.
Drill, survey, load hole with fluid, trip out for bit.
Trip in & drill with fluid.
DC: $7,776; CC: $102,019

8-20-93 TD: 5,122' (572') Day 7
MW 8.4, VIS 27 pH 10.6
Formation: Green River
Present Operation: Drilling.
Drill, survey, clean on rig, repair lights.
DC: $9,451 CC: $111,470

8-21-93 TD: 5,741' (619') Day 8
MW 8.4 VIS 27 pH 10.4
Formation: Green River
Present Operation: Drilling.
Drill, survey, clean on rig.
DC: $8,630; CC: $120,100

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

8-22-93 TD: 5,950' (199') Day 9
MW 8.4 VIS 27 pH 11.1
Formation: Green River
Present Operation: Lay down drill pipe.
Drill, circulate for logs, survey, trip out. Log well. TIH & circulate. Start to lay down drill pipe. Unload 139 jts 5-1/2" casing.
DC: $18,168 CC: $138,268

8-23-93: TD: 5,950 (-0-) Day 10
Formation: Green River
Prsent Operation: Move rig.
Lay down drill pipe & collars. Rig up casers & run 5-1/2" casing. Cement with Dowell. Set slips, ND BOP & clean tanks.

Guide shoe	.70'
1 jt 5-1/2", 15.50 K-55 shoe jt	44.86'
1 float collar	2.75'
138 jts 5-1/2", 15.50 csg w/20 centralizers	5,884.91'
landing joint	12.50'
	5,945.72'

Set @5,940.72'. PBTD 5,892'.

Cement with 145 sxs Hilift + additives & tail w/325 sxs Class "G" + additives. Good returns. Plug down 3:30 PM 8/22/93. **Release rig 7:30 PM 8/22/93.**
DC: $57,688 CC: $195,956

8-24-93 Dress up location w/grader. Set rig anchors; set tanks; move rig in.
DC: $2,304 CC: $198,260

8-25-93 Rig up AAA Well Service Rig #1. NU wellhead; NU BOP. TIH w/4-3/4" bit, 5-1/2" scraper, & 190 jts tbg. Tag PBTD @ 5,888'KB. Circulate well clean w/2% KCL water. TOOH w/tbg & scraper.
DC: $12,292 CC: $210,552

8-26-93 RU Schlumberger to Bond Log & perforate. Bond Log from PBTD to 3,500' and from 1650' to cement top at 1,040'KB. Perforate 4,751'-4,765'KB w/2 SPF. TIH w/hd packer & 150 jts of 2-7/8" tbg. Set packer @4,650'KB. SWIFN.
DC: $5,838 CC: $216,390

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

8-27-93 Cas "0" PSIG. RU Halliburton to do breakdown. Pressure test surface equipment to 4500 PSIG - OK. Pump 5 bbls water break @3400 PSI, break to 1500 @ 4 BPM. Pump 26 balls. No ball off at 4 BPM. Surge ball off perfs. Pump 18 bbls for rate, 6-1/4 BPM at 2500 PSIG. Made 5 swab runs. Swab back 22 bbls water, flow back 32 bbls water. ISIP 1550 PSIG, slight oil cut on swab. TOOH w/tbg & packer. SWIFN. Total load used - 125 bbls water; load recovered 54 bbls water; TOTAL LOAD TO RECOVER 71 bbls water.
DC: $2,464 CC: $218,854

8-28-93 Rig up Western to frac. Casing pressure "0" PSIG. Pressure test surface equipment to 5000 PSIG - OK. Frac well with 20,140 lbs of 20/40 & 15,380 lbs of 16/30 @ 20 BPM. Average treating pressure 1900 psi. Maximum treating pressure 2350 psi. ISIP 1850 psi, 5 minutes 1480 psi, 10 minutes 1450 psi, 15 minutes 1400 psi. SWIFN. Load used in frac 371 bbls water. Total load to recover 442 bbls water.
DC: $16,932 CC: $235,786

---SEE ATTACHED REPORT - 2 PAGES---

8-30-93 Casing PSIG "0", bleed well off. TIH w/5-1/2" packer & 2-7/8" tbg, tag fill @ 5,685'KB. POOH to 4,727'. Set packer. Made 18 swab runs. Flowed & swabbed 86 bbls fluid. Last three runs 30% oil, average oil % = 10. Last three runs - no sand. Release packer, tag fill @ 5,555'KB. Circulate down to PBTD. TOOH w/50 jts 2-7/8" tbg. SDFN.
DC: $2,531 CC: $238,317

8-31-93 Cas "0" PSIG, tbg "0" PSIG. TOOH w/tbg & packer. RU Schlumberger to perf @ 4,309'-4,325', 2 SPM. RD Schlumberger. TIH w/5-1/2" retrievable bridge plug, right head, 1 jt 2-7/8" tbg, one 5-1/2" R-3 packer, seating nipple & 141 jts 2-7/8" tbg. Set bridge plug at 4,396'KB, pressure test bridge plug 1000 PSIG - OK 5 minutes. POOH w/7 jts 2-7/8" tbg, set packer @ 4,165'KB, bottom of tubing @ 4,196'KB. Pressure test surface equipment 4000 PSIG - OK. RU Western to break down perfs. Initial break @ 2500 PSIG, start 1 ball per bbl. Start break down, 37 bbls water, 6 balls total, no ball off. 3 & 4 BPM. Pump for rate 1350 PSIG at 6.0 BPM. Flow back 10 bbls water, made 4 swab runs, got trace of oil. Unseat packer. TOOH w/tbg & packer. Swabbed 30 bbls water. SWIFN.
DC: $5,039 CC: $243,356

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

9-1-93 RU Western & prepare to frac. Pressure test surface equipment to 4500 PSIG - OK. Frac well with 33,600# 16/30 sand. Max. treating pressure 2200 psi; average treating pressure 2050 psi; average rate 24.5 BPM. ISIP 1800 psi, 5 minutes 1550 psi, 10 minutes 1460 psi, 15 minutes 1360 psi. SWIFD. Load used 377 bbls water; total load to recover 820.
DC: $18,437 CC: $261,793

9-2-93 Casing 100 PSIG. Flowed 5 bbls water. TIH w/1 bridge plug retrieving tool, 1 jt 2-7/8" tbg, one 5-1/2" packer & 125 jts 2-7/8" tbg. Tag fill @ 3,921' KB. RU to circulate sand out to 4,355'. Set packer @ 4,288'. Made 23 swab runs, swab fluid level down to 3,700'. Last 3 runs 30% oil. Still getting sand. SWIFN. Load recovered 65 bbls water. Total load to be recovered 755 bbls water.
DC: $2,235 CC: $264,028

9-3-93 Completion
Csg - 9 psig, tbg - 230 psig. Flow back 1 BO. Made 8 swab runs. Recovered 42 BOF - 50% oil. Release packer, tag sand fill @ 4340', circ clean to 4396'. Release BP, TOOh w/tbg, BP & packer. TIH w/production string: 1 jt 2-7/8" tbg, EUE, J-55, 8RD, 6.5# set 4802' KB; 1 perf sub 2-7/8" x 3'; 1 seat nipple; 154 jts tbg 2-7/8" EUE, J-55, 8rd, 6/5#. Landed @ 4771' KB. Load recovered today 21 BOW. Total load to recover 734 BOW.
DC: $4,648 CC: $268,676

9-6-93 Completion.
TIH w/rods. TP - 0 psig; CP - Vac.

9-7-93 Completion
CP - 0 psig, TP - 0 psig. Flush tbg w/hot wtr. TIH w/1 BHP 2-1/2 x 1-1/2 x 16' ring plunger; one 3/4 x 2' pony; six 1" x 25' rods w/2-1/2" guides EL; 184 3/4" x 25' rods plain; one 3/4" x 6' pony; one 1/14" x 16' polish rod; spool out 4" off. Rig down & move off. Load to recover 734 BW.
DC: $23,103

9-16-93 Completion
Start pumping, SPM 9, stroke length - 64".
DC: $975

The Western Company—Treatment Report

Date 8-28-93 District VERNAL F. Receipt 262241 Operator BALCRON OIL CO.
Lease FEDERAL Well No. 21-134 Field MONUMENT BUTTES Location S13-T9S-R16E
County DUCHESNE State UT. Stage Number 1 This Zone X This Well X

WELL DATA OG☐ NG☐ NO☒ OO☐ WD☐ IW☐ Misc.☐ Depth TD (PB) 5888 Formation GREEN RIVER
Tubing Size — WT. — Set at: — Type Packer — Set At —
Casing Size 5½ WT. 15.5# Set From SURFACE To TD Liner Size — Wt. —
Liner Set From — To — Open Hole: Size — From — To — Casing Perforations: Size 49
Holes Per Foot 2 Intervals 4751 - 4765' (28 HOLES)
Previous Treatment N/A Prior Production N/A

TREATMENT DATA Pad Used: Yes☒ No☐ Pad Type VIKING I 35#
Treating Fluid Type: Foam☐ Water☐ Acid☒ Oil☐ Treat. Fluid Vol. 10,878 Gal.
Base Fluid Type VIKING I 35# Base Fluid Vol. 10,878 Gal.
Foam Qual.: ____ % Mitchell☐ Slurry☐ Surface☐ Downhole☐ Total Prop Qty. 37,980 Lbs.
Prop Type: Sand☒ WP-1☐ WP-3☐ Baux.☐ Other
Prop Mesh Sizes, Types and Quantities 20/40 - 22,600 16/30 - 15,380
Hole Loaded With KCL WATER Treat Via: Tubing☐ Casing☒ Anul.☐ Tubing & Anul.☐
Ball Sealers: — In — Stages of —
Types and Number of Pumps Used BJ 1000 - 3
Auxiliary Materials

PROCEDURE SUMMARY

LIQUID/GAS PUMPED A CAPACITIES IN BBLS

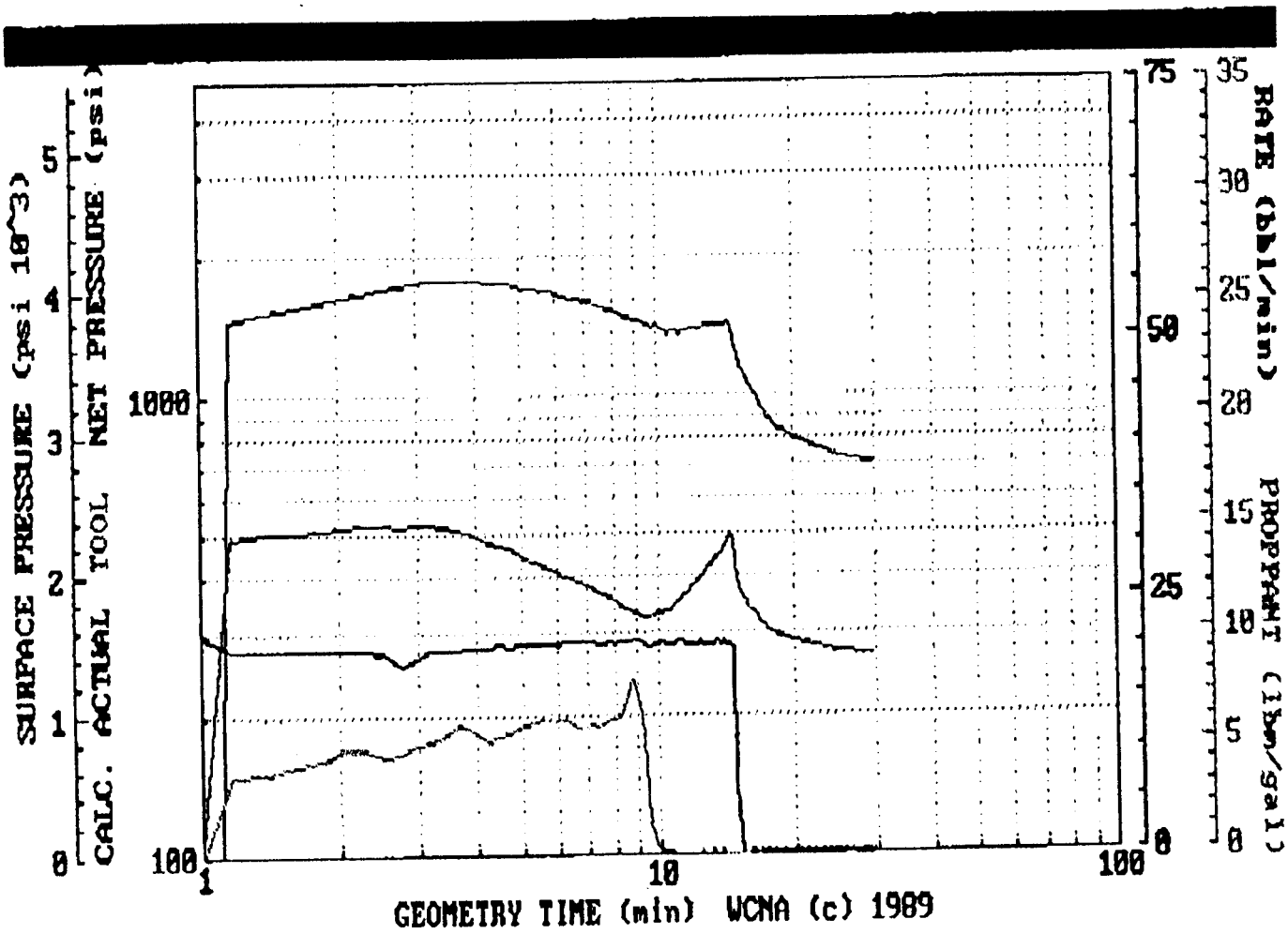
Tubing Cap.	—
Casing Cap.	113
Annular Cap.	—
Open Hole Cap.	—
Fluid to Load	30
Pad Volume	95
Treating Fluid	259
Flush	112
Overflush	—
Fluid to Recover	371
Total N^2	—
Total CO_2	—

Time AM/PM	Treating Pressure-Psi STP	Annulus	Surface Slurry BBLS. Pumped Stage	Total	Slurry Rate BPM	Surface CO_2 BBLS. Pumped Stage	Total	CO_2 Rate BPM	Surface N^2 MSCF Pumped Stage	Total	N^2 Rate SCFM	Comments
6:58	—	—	—	—	—							TEST LINES @ 5000 psi
7:14	@	—	—	—	21.5							START PAD
7:20	2140	—	—	95	20.1							START 2.0# 20/40
7:20	2200	—	—	105	20.1							START 3.0# 20/40
7:21	2230	—	—	127	19.8							START 4.0# 20/40
7:23	2350	—	—	152	20.0							START 5.0# 20/40
7:24	2310	—	—	184	19.9							START 6.0# 20/40
7:27	2010	—	—	228	20.3							START 6.0# 16/30
7:29	1800	—	—	272	20.3							START 7.0# 16/30
7:30	1680	—	—	300	20.3							START FLUSH
7:31	1850	—	—	412	—							SHUTDOWN ALL FLUSH
												1480 psi 5 MIN
												1450 psi 10 MIN
												1400 psi 15 MIN

Treating Pressure: Min. 1680 Max. 2350 Avg. 1900 Customer Representative MR. DALE GRIFFIN
Inj. Rate on Treating Fluid 20 Rate on Flush 20 Western Representative J. STEANLE
Avg. Inj. Rate 20 I.S.D.P. 1850 Flush Dens. lb./gal. 8.4 Distribution BALCRON
Final Shut-In Pressure 1400 in 15 Minutes
Operator's Maximum Pressure 3000 psi

Job Number Recommendation ID #

CNA 1210 1300


SURFACE PRESSURE (psi 10^3)
CALC. ACTUAL TOOL NET PRESSURE (psi)
RATE (bbl/min)
PROPPANT (lbm/gal)
GEOMETRY TIME (min) WCNA (c) 1989
0
1
2
3
4
5
1000
100
1
10
100
75
50
25
0
35
30
25
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une 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.: U-64805

6. If Indian, Allonee or Tribe Name: n/a

7. If Unit or CA, Agreement Designation: n/a

1. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.: Balcron Federal #21-13Y

2. Name of Operator: Equitable Resources Energy Company, Balcron Oil Division

9. API Well No.: 43-013- 31400

3. Address and Telephone No.: P.O. Box 21017; Billings, MT 59104 (406) 259-7860

10. Field and Pool, or Exploratory Area: Monument Butte/Green River

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NE NW Section 13, T9S, R16E
703' FNL, 1831' FWL

11. County or Parish, State: Duchesne County, UTAH

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[X] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other off-lease meter	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Operator requests approval for off-lease measurement of gas on this well. A map showing the location of the meter is attached.

The location of the meter is shown on Federal Right-of-Way #UTU-71256.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORDS ONLY

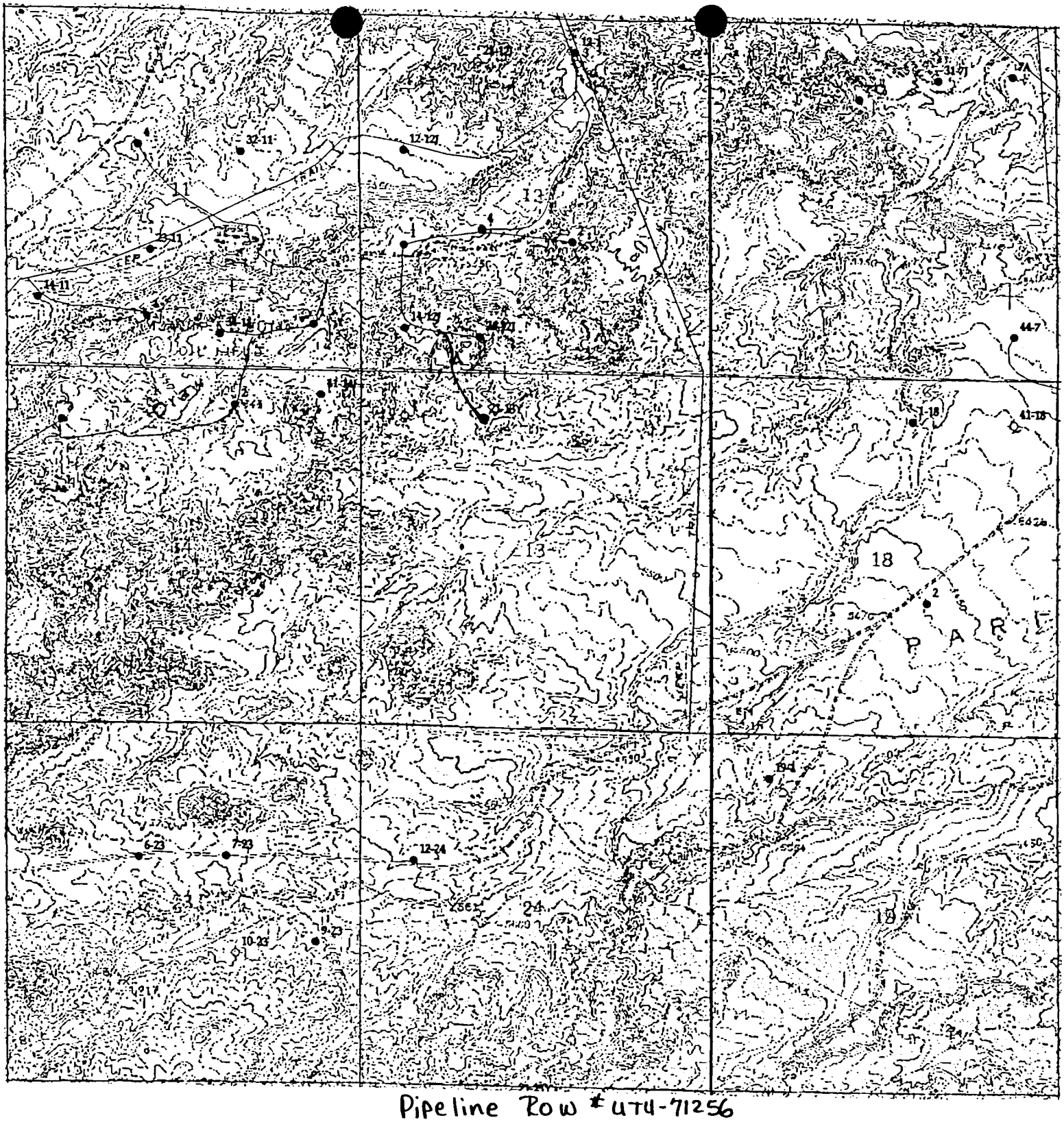
RECEIVED
JAN 13 1995
DIV OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct
Signed Bobbie Schuman Title Regulatory and Environmental Specialist Date January 13, 1995
Bobbie Schuman
(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side



Pipeline Row # UTU-71256

Existing Gas Lines

Proposed 2" Poly Lines (ROW)

▲ Proposed Gas Meter

Equitable Resources Energy Company
Balcron Oil Division

Monument Butte Gas Plant
Gas Gathering System

5-1-94 IZ

21-13J

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
JUL 17 1995
DIV OF OIL, GAS & MINING

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.: U-64805

6. If Indian, Allottee or Tribe Name: n/a

7. If Unit or CA, Agreement Designation: n/a

1. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.: Balcron Federal #21-13Y

2. Name of Operator: Equitable Resources Energy Company, Balcron Oil Division

9. API Well No.: 43-013-31400

3. Address and Telephone No.: 1601 Lewis Avenue; Billings, MT 59102 (406) 259-7860

10. Field and Pool, or Exploratory Area: Monument Butte/Green River

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NE NW Section 13, T9S, R16E
703' FNL, 1831' FWL

11. County or Parish, State: Duchesne County, UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[X] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other off-lease meter	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Operator requests approval for off-lease natural gas measurement for this well. It is desired to place the gas meter off-lease to reduce the distance that our gas plant operator must travel each day. The operator must check the meter daily. Due to rocky terrain this necessitates driving several each additional miles each day if the meter were located on lease. Less driving also aids with dust control. See attached map for the meter location.

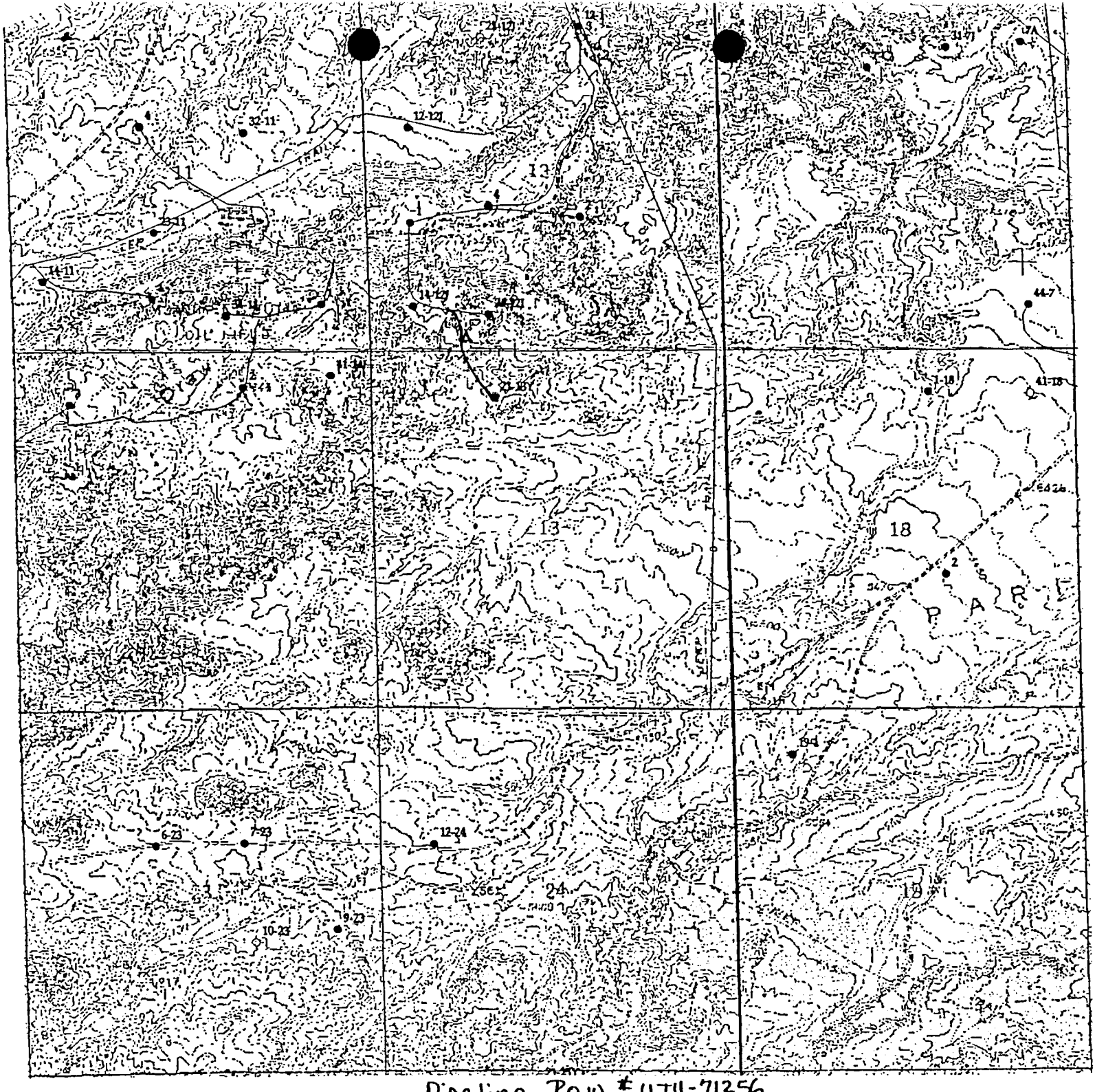
14. I hereby certify that the foregoing is true and correct
Signed Bobbie Schuman Title Regulatory and Environmental Specialist Date July 13, 1995
Bobbie Schuman

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side



Pipeline ROW # UTU-71256

Existing Gas Lines

Proposed 2" Poly Lines (ROW)

Proposed Gas Meter

Equitable Resources Energy Company
Balcron Oil Division

Monument Butte Gas Plant
Gas Gathering System

21-13J

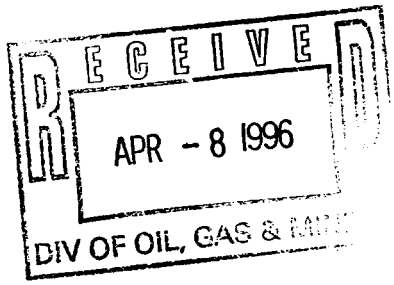
5-1-94 IZ

EQUITABLE RESOURCES
ENERGY COMPANY

BALCRON OIL DIVISION

1601 Lewis Avenue
Billings, MT 59102

Office: (406) 259-7860
FAX: (406) 245-1365 ☐
FAX: (406) 245-1361 ☒



March 22, 1996

Utah Division of Oil, Gas and Mining
355 West North Temple
Salt Lake City, UT 84180

Gentlemen:

Effective April 1, 1996, our name will change from Equitable Resources Energy Company, Balcron Oil Division to Equitable Resources Energy Company. Attached is a sundry notice reflecting that change. To simplify paperwork, I have done one sundry notice with copies for each of the wells. To this letter I have attached a list of our wells for your ease in filing the sundry notices in the well files. This should be sufficient for your purposes.

I have the listings on a spreadsheet so if it would be easier for you to have them sorted differently (for example, the Montana Board of Oil and Gas prefers them sorted by API number), please give me a call at (406) 259-7860, extension 240 and I would be glad to provide a list to your specifications.

This change affects only our company name. The physical locations of our offices and the personnel remain the same. We will be changing our well signs and ask for your patience and cooperation as this will be done as soon as possible but may take some time since we do have so many properties at which to make the change.

If you have any questions, please do not hesitate to give me a call.

Sincerely,

Bobbie Schuman

Bobbie Schuman
Regulatory and
Environmental Specialist

/hs

Enclosures

FORM 9

STATE OF UTAH

DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:	See attached listing
6. If Indian, Allottee or Tribe Name:	n/a
7. Unit Agreement Name:	See attached listing
8. Well Name and Number:	See attached listing
9. API Well Number:	See attached listing
10. Field and Pool, or Wildcat:	See attached listing

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL ☐ GAS ☐ OTHER: See attached listing

2. Name of Operator: Equitable Resources Energy Company, Balcron Oil Division

3. Address and Telephone Number: 1601 Lewis Avenue Avenue; Billings, MT 59102 (406) 259-7860

4. Location of Well

Footages: See attached listing County: See attached list

QQ, Sec.,T.,R.,M.: State: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
☐ Abandon	☐ New Construction	☐ Abandon *	☐ New Construction
☐ Repair Casing	☐ Pull or Alter Casing	☐ Repair Casing	☐ Pull or Alter Casing
☐ Change of Plans	☐ Recomplete	☐ Change of Plans	☐ Reperforate
☐ Convert to Injection	☐ Reperforate	☐ Convert to Injection	☐ Vent or Flare
☐ Fracture Treat or Acidize	☐ Vent or Flare	☐ Fracture Treat or Acidize	☐ Water Shut-Off
☐ Multiple Completion	☐ Water Shut-Off	☒ Other Operator name change	
☐ Other _____			

Approximate date work will start _____

Date of work completion _____

Report results of **Multiple Completions** and **Recompletions** to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Effective April 1, 1996, operator will change its name from Equitable Resources Energy Company, Balcron Oil Division TO: Equitable Resources Energy Company. Physical location of the operator remains as: 1601 Lewis Avenue; Billings, MT 59102 (406) 259-7860, FAX: (406) 145-1361. This is to report the operator name change only. It affects the wells on the attached listing.

13.

Name & Signature: Bobbie Schuman
Bobbie Schuman

Title: Regulatory and Environmental Specialist Date: March 27, 1996

(This space for State use only)

(4\94)

(See Instructions on Reverse Side)

FORM 10

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
355 West North Temple, 3 Triad, Suite 350, Salt Lake City, UT 84180-1203

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

BALCRON OIL DIVISION
EQUITABLE RESOURCES ENERGY
1601 LEWIS AVE
BILLINGS MT 59102-4126

UTAH ACCOUNT NUMBER: N9890

REPORT PERIOD (MONTH/YEAR): 3 / 96

AMENDED REPORT ☐ **(Highlight Changes)**

Well Name / API Number / Entity / Location	Producing Zone	Well Status	Days Oper	Production Volumes OIL(BBL)	GAS(MCF)	WATER(BBL)
COYOTE FEDERAL 21-5 4304732260 11500 08S 25E 5	GRRV					
COYOTE FEDERAL 13-5 4304732261 11500 08S 25E 5	GRRV					
FEDERAL 22-10Y 4301331395 11501 09S 17E 10	GRRV					
FEDERAL 41-21Y 4301331392 11505 09S 16E 21	GRRV					
FEDERAL 44-14Y 4304732438 11506 09S 17E 14	GRRV					
FEDERAL 21-13Y 91331400 11510 09S 16E 13	GRRV					
FEDERAL 21-9Y 4301331396 11513 09S 16E 9	GRRV					
FEDERAL 21-25Y 4301331394 11530 09S 16E 25	GRRV					
MONUMENT FEDERAL 11-25 4304732455 11625 08S 17E 25	GRRV					
ALLEN FEDERAL 31-6G 4301331442 11642 09S 17E 6	GRRV					
BALCRON FEDERAL 41-19Y 4304732504 11651 09S 18E 19	GRRV					
BALCRON MONUMENT STATE 14-2 4301331425 11656 09S 17E 2	GRRV					
FEDERAL 44-4Y 4301331452 11679 09S 17E 4	GRRV					
			TOTALS			

COMMENTS:

I hereby certify that this report is true and complete to the best of my knowledge. Date:

Name and Signature: Telephone Number:

(12/93)

Balcron Coyote Fed. #42-6X	Coyote Basin	SE NE	6	8S	25E	Uintah	UT	OSI	Green River	U-017439-B	43-047-32346	1987' FNL, 682' FEL	Vernal	Coyote Basin
Balcron Coyote Fed. #44-6	Coyote Basin	SE SE	6	8S	25E	Uintah	UT	PND	Green River	U-017439B	43-047-32421	560' FSL, 760' FEL	Vernal	Coyote Basin
Balcron Federal #12-20Y	8 Mile Flat N.	SW NW	20	9S	18E	Uintah	UT	Oil	Green River	U-64917	43-047-32617	1980' FNL, 660' FWL	Vernal	
Balcron Federal #12-22Y	8 Mile Flat N.	SW NW	22	8S	17E	Duchense	UT	Oil	Green River	U-66191	43-013-31476	2105' FNL, 660' FWL	Vernal/Priv.sfc.	
Balcron Federal #21-13Y	Monument Butte	NE NW	13	9S	16E	Duchesne	UT	Oil	Green River	U-64805	43-013-31400	703' FNL, 1831' FWL	Vernal	
Balcron Federal #21-25Y	Monument Butte	NE NW	25	9S	16E	Duchesne	UT	Oil	Green River	U-64380	43-013-31994	500' FNL, 1980' FWL	Vernal	
Balcron Federal #21-9Y	Monument Butte	NE NW	9	9S	16E	Duchesne	UT	Oil	Green River	U-65207	43-013-31396	476' FNL, 2051' FWL	Vernal	
Balcron Federal #22-10Y	Monument Butte	SE NW	10	9S	17E	Duchesne	UT	Oil	Green River	U-65210	43-013-31395	1980' FNL, 1980' FWL	Vernal	
Balcron Federal #24-3Y	Monument Butte	SE SW	3	9S	17E	Duchesne	UT	Oil	Green River	U-64381	43-013-31397	562' FSL, 1887' FWL	Vernal	
Balcron Federal #31-14Y	Undesignated	NW NE	14	9S	19E	Uintah	UT	PND	WASATCH	U-66193		500' FNL, 2740' FWL	Vernal/Priv.sfc.	
Balcron Federal #31-19Y	8 Mile Flat N.	NW NE	19	9S	18E	Duchesne	UT	Oil	Green River	U-65635	43-047-32614	660' FNL, 1880' FEL	Vernal	
Balcron Federal #31-5Y	8 Mile Flat N.	NW NE	5	9S	18E	Uintah	UT	Oil	Green River	U-65970	43-047-32503	660' FNL, 1980' FEL	Vernal	
Balcron Federal #32-19Y	8 Mile Flat N.	SW NE	19	9S	18E	Uintah	UT	Oil	Green River	U-65635	43-047-32615	1980' FNL, 1980' FEL	Vernal	
Balcron Federal #41-19Y	Monument Butte	NE NE	19	9S	17E	Duchesne	UT	Oil	Green River	U-65967	43-047-32504	660' FSL, 660' FEL	Vernal	
Balcron Federal #41-21Y	Monument Butte	NE NE	21	9S	16E	Duchesne	UT	Oil	Green River	U-64379	43-013-31392	970' FNL, 894' FEL	Vernal	
Balcron Federal #42-19Y	8 Mile Flat N.	SE NE	19	9S	18E	Uintah	UT	Oil	Green River	U-65635	43-047-32616	2100' FNL, 500' FEL	Vernal	
Balcron Federal #44-14Y	Monument Butte	SE SE	14	9S	17E	Uintah	UT	Oil	Green River	U-64806	43-047-32438	1008' FSL, 832' FEL	Vernal	
Balcron Federal #44-4Y	8 Mile Flat N.	SE SE	4	9S	17E	Duchesne	UT	Oil	Green River	U-65635	43-013-31452	660' FNL, 660' FEL	Vernal	
Balcron Monument Fed. #11-10-9-17Y		NW NW	10	9S	17E	Duchesne	UT	PND	Green River				Vernal	
Balcron Monument Fed. #11-20-9-18Y	Monument Butte	NW NW	20	9S	18E	Uintah	UT	OIL	Green River	U-64917	43-047-32712	500' FNl, 500' FWL	Vernal	
Balcron Monument Fed. #11-22-8-17Y	Monument Butte	NW NW	22	8S	17E	Duchesne	UT	OIL	Green River	U-66191	43-013-31539	635' FNL, 658' FWL	Vernal	
Balcron Monument Fed. #11-25	Monument Butte	NW NW	25	8S	17E	Uintah	UT	Oil	Green River	U-67845	43-047-32455	739' FNL, 648' FWL	Vernal	
Balcron Monument Fed. #11-6	Monument Butte	NW NW	6	9S	17E	Duchesne	UT	WIW	Green River	U-020252-A	43-013-31362	804' FNL, 696' FWL	Vernal	Jonah
Balcron Monument Fed. #11-7J	Monument Butte	NW NW	7	9S	17E	Duchesne	UT	COMPL-WIW	Green River	U-44426	43-013-31492	681' FNL, 447' FWL	Vernal	Jonah
Balcron Monument Fed. #12-10-9-17Y	Monument Butte	SW NW	10	9S	17E	Duchesne	UT	COMPL	Green River	U-65210	43-013-31536	1994' FNL, 618' FWL	Vernal	
Balcron Monument Fed. #12-11J	Monument Butte	SW NW	11	9S	16E	Duchesne	UT	WIW	Green River	U-096550	43-013-31417	2128' FNL, 689' FWL	Vernal	Jonah
Balcron Monument Fed. #12-12J	Monument Butte	SW NW	12	9S	16E	Duchesne	UT	WIW	Green River	U-096550	43-013-31410	739' FNL, 648' FWL	Vernal	Jonah
Balcron Monument Fed. #12-14J	Monument Butte	SW NW	14	9S	16E	Duchesne	UT	PND	Green River	U-096547	43-013-31488	2004' FNL, 658' FWL	Vernal	Jonah
Balcron Monument Fed. #12-17	Monument Butte	SW NW	17	9S	17E	Duchesne	UT	Oil	Green River	UTU-72106	43-013-31431	1980' FNL, 660' FWL	Vernal	Beluga
Balcron Monument Fed. #12-25	Undesignated	SW NW	25	8S	17E	Uintah	UT	Oil	Green River	U-67845	43-047-32526	1486' FNL, 875.7' FWL	Vernal	
Balcron Monument Fed. #12-7J	Monument Butte	SW NW	7	9S	17E	Duchesne	UT	Oil	Green River	U-44426	43-013-31493	1965' FNL, 620' FWL	Vernal	Jonah
Balcron Monument Fed. #13-11J	Monument Butte	NW SW	11	9S	16E	Duchesne	UT	Oil	Green River	U-096547	43-013-15790	1819' FSL, 658' FWL	Vernal	Jonah
Balcron Monument Fed. #13-5	Monument Butte	NW SW	5	9S	17E	Duchesne	UT	WIW	Green River	U-020252	43-013-31370	1980' FSL, 660' FWL	Vernal	Jonah
Balcron Monument Fed. #13-8	Monument Butte	NW SW	8	9S	17E	Duchesne	UT	Oil	Green River	UTU-74108	43-013-31382	2060' FSL, 694' FWL	Vernal	Beluga
Balcron Monument Fed. #14-11	Monument Butte	SW SW	11	9S	16E	Duchesne	UT	WIW	Green River	U-096547	43-013-31374	1048' FSL, 446' FWL	Vernal	Jonah

Inland Resources Change of Operator

WELL NAME	LOCATION	COUNTY	ST	FIELD NAME	API NUMBER	LEASE NO.	AGEEMENT
WALTON FEDERAL #1	SESE 119S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-15792-00	UTU096550	UTU72086A
WALTON FEDERAL #2	NWNE 149S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-15793-00	UTU096550	UTU72086A
WALTON FEDERAL #34-11	SWSE 119S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31003-00	UTU096550	UTU72086A
WALTON FEDERAL #4	SENW 119S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-15795-00	UTU096550	UTU72086A
ALLEN FEDERAL #31-6G	NWNE 6 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (U)	43-013-31442-00	UTU020252A	
BALCRON FEDERAL #21-13Y	NENW 139S 16E	DUCHESNE	UT	MONUMENT BUTTE (U)	43-013-31400-00	UTU64805	
BALCRON FEDERAL #21-25Y	NENW 259S 16E	DUCHESNE	UT	MONUMENT BUTTE (U)	43-013-31394-00	UTU64380	
BALCRON FEDERAL #44-14Y	SESE 149S 17E	UINTAH	UT	MONUMENT BUTTE (U)	43-047-32438-00	UTU64806	
CASTLE PEAK FEDERAL #24-10A	SESW 169S 16E	DUCHESNE	UT	MONUMENT BUTTE (U)	43-013-30555-00	UTU72107	
CASTLE PEAK STATE #43-16	NESE 169S 16E	DUCHESNE	UT	MONUMENT BUTTE (U)	43-013-30594-00		891008243C
K. JORGENSON STATE #16-4	NESE 169S 17E	DUCHESNE	UT	MONUMENT BUTTE (U)	43-013-30572-00	ML-3453-B	
STATE #16-2	NENE 169S 17E	DUCHESNE	UT	MONUMENT BUTTE (U)	43-013-30552-00	ML-3453-B	
BALCRON FEDERAL #21-9Y	NENW 9 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31396-00	UTU65207	
BALCRON FEDERAL #41-21Y	NENE 219S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31392-00	UTU64379	
MONUMENT FEDERAL #31-6-9-16	NWNE 6 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31717-00	UTU74390	
MONUMENT FEDERAL #32-6-9-16Y	SW NE 6 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31300-00	UTU74390	
MONUMENT FEDERAL #42-6-9-16Y	SE NW 6 9S 15E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31645-00	UTU74390	
MONUMENT FEDERAL #41-6-9-16	NENE 6 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31718-00	UTU74390	
MONUMENT FEDERAL #31-8-9-16	NW NE 8 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31721-00	UTU020255	
MONUMENT FEDERAL #41-8-9-16	NENE 8 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31619-00	UTU020255	
MONUMENT FEDERAL #11-9-9-16	NW NW 9 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31618-00	UTU020254	
MONUMENT FEDERAL #33-6-9-16Y	NW SE 6 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31589-00	UTU74390	
MONUMENT FEDERAL #43-6-9-16Y	NE SE 6 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31644-00	UTU74390	
MONUMENT FEDERAL #44-6-9-16Y	SE SE 6 9S 15E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31720-00	UTU74390	
MONUMENT FEDERAL #31-18-9-16	NW NE 189S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31725-00	UTU74390	
MONUMENT FEDERAL #41-18Y	NE NE 189S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31646-00	UTU74390	
MONUMENT FEDERAL #42-18Y	SE NE 189S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31724-00	UTU74390	
MONUMENT FEDERAL #31-21-9-16	NW NE 219S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31726-00	UTU64379	
MONUMENT FEDERAL #11-22Y	NW NW 229S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31647-00	UTU64379	
MONUMENT FEDERAL #13-4-9-16	NW SW 4 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31716-00	UTU73086	
MONUMENT FEDERAL #14-4	SWSW 4 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31666-00	UTU73086	
MONUMENT FEDERAL #22-20-9-16	SE NW 209S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31681-00	UTU52018	
MONUMENT FEDERAL #23-7-9-16	NESW 7 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31694-00	UTU74390	
MONUMENT FEDERAL #24-17-9-16	SESW 179S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31682-00	UTU52018	
MONUMENT BUTTE #34-31-8-16	SW SE 318S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31715-00	UTU74389	
MONUMENT FEDERAL #33-10-9-16	NW SE 109S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31722-00	UTU72107	
MONUMENT BUTTE #43-10-9-16	NE SE 109S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31723-00	UTU72107	
CHORNEY FEDERAL #1-9	SWSE 9 9S 19E	UINTA	UT	PARIETTE BENCH	43-047-30070-00	UTU5843	
HENDEL FEDERAL #1	SWSW 9 9S 19E	UINTA	UT	PARIETTE BENCH	43-047-20011-00	UTU058149	

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:

1-LEC	7-SJ ✓
2-DTS	8-FILE
3-VLD	GIL
4-RJF	
5-LEC	
6-FILM	

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

☐ Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator ☐ ~~Operator Name Change Only~~

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 4-1-96)

TO (new operator)	EQUITABLE RESOURCES ENERGY COEROM
(address)	1601 LEWIS AVE
	BILLINGS MT 59102-4126
	phone (406) 259-7860
	account no. N9890
FROM (former operator)	EQUITABLE RESOURCES ENERGY CO
(address)	BALCRON OIL DIVISION
	1601 LEWIS AVE
	BILLINGS MT 59102-4126
	phone (406) 259-7860
	account no. N9890

Well(s) (attach additional page if needed):

Name: **SEE ATTACHED**	API: 043-31400	Entity:	Sec Twp Rng	Lease Type:	
Name:	API:	Entity:	Sec Twp Rng	Lease Type:	
Name:	API:	Entity:	Sec Twp Rng	Lease Type:	
Name:	API:	Entity:	Sec Twp Rng	Lease Type:	
Name:	API:	Entity:	Sec Twp Rng	Lease Type:	
Name:	API:	Entity:	Sec Twp Rng	Lease Type:	
Name:	API:	Entity:	Sec Twp Rng	Lease Type:	

OPERATOR CHANGE DOCUMENTATION

Yes 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Rec'd 4-4-96 & 4-8-96)

N/A 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).

N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) _____ If yes, show company file number: _____.

* 4. **(For Indian and Federal Wells ONLY)** The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.

Yes 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) ~~for each well listed above~~. (4-10-96)

Yes 6. Cardex file has been updated for each well listed above. (4-11-96)

Yes 7. Well file labels have been updated for each well listed above. (4-11-96)

Yes 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (4-10-96)

Yes 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

– OVER –

OPERATOR CHANGE WORKSHEET (CONTINUED) Initial each item when completed. Write N/A if item is not applicable.

ENTITY REVIEW

Lec 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) ____ (If entity assignments were changed, attach copies of Form 6, Entity Action Form).

N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only) #5578314 ($80,000) Seltco Ins. Co. (Bond Rider In Progress)

Lec 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.

___ 2. A copy of this form has been placed in the new and former operators' bond files.

N/A 3. The former operator has requested a release of liability from their bond (yes/no) ___. Today's date _____ 19___. If yes, division response was made by letter dated _____ 19___.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

N/A 1. (Rule R615-2-10) The former operator/lessee of any **fee lease** well listed above has been notified by letter dated _____ 19___, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested. 4/22/96

DTS 2. Copies of documents have been sent to State Lands for changes involving **State leases.** Sent to Ed Bonner — Trust Lands

FILMING

VDR 1. All attachments to this form have been microfilmed. Date: May 20 1996.

FILING

___ 1. Copies of all attachments to this form have been filed in each well file.

___ 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

9/6/96 Blm/BIA "Formal approval not necessary".

FORM 9

STATE OF UTAH

DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

5. Lease Designation and Serial Number:	See Attached
6. If Indian, Allottee or Tribe Name:	n/a
7. Unit Agreement Name:	See Attached
8. Well Name and Number:	See Attached
9. API Well Number:	See Attached
10. Field and Pool, or Wildcat:	See Attached

1. Type of Well: OIL ☒ GAS ☐ OTHER:

2. Name of Operator: Inland Production Company

3. Address and Telephone Number: 475 - 17th Street, Suite 1500, Denver, CO 80202

4. Location of Well

Footages: See Attached Exhibit

QQ, Sec., T., R., M.:

County:

State:

RECEIVED
OCT 13 1997

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
☐ Abandon	☐ New Construction	☐ Abandon *	☐ New Construction
☐ Repair Casing	☐ Pull or Alter Casing	☐ Repair Casing	☐ Pull or Alter Casing
☐ Change of Plans	☐ Recomplete	☐ Change of Plans	☐ Reperforate
☐ Convert to Injection	☐ Reperforate	☐ Convert to Injection	☐ Vent or Flare
☐ Fracture Treat or Acidize	☐ Vent or Flare	☐ Fracture Treat or Acidize	☐ Water Shut-Off
☐ Multiple Completion	☐ Water Shut-Off	☒ Other Change of Operator	
☒ Other Change of Operator			

Approximate date work will start: _____

Date of work completion: 9-30-97

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Effective September 30, 1997, Inland Production Company will take over operations of the wells on the attached list. The previous operator was :

Equitable Resources Energy Company
1601 Lewis Avenue
Billings, MT 59102

Effective September 30, 1997, Inland Production Company is responsible under the terms and conditions of the leases for operations conducted on the leased lands or a portion thereof under State of Utah Statewide Bond No. 4471291.

OCT 16 1997

13. Name & Signature: Chris A. Potter Title: CHRIS A. POTTER, ATTORNEY-IN-FACT Date: 9/30/97

(This space for State use only)

(See Instructions on Reverse Side)

Inland
RESOURCES INC.

October 7, 1997

Bureau of Land Management
Vernal District Office
170 South 500 East
Vernal, UT 84078

RE: Change of Operator
Duchesne & Vernal Counties, Utah

Dear Mr. Forsman:

Please find attached Sundry Notices and Reports on Wells for Change of Operator, previously operated by Equitable Resources Energy Company for approval.

If you should have questions regarding this matter, please do not hesitate to contact me at the number listed below.

Sincerely,

INLAND PRODUCTION COMPANY

Patsy Barreau

Patsy Barreau

/pb
encls.

475 Seventeenth Street, Suite 1500, Denver, CO 80202 • 303-292-0900 • FAX 303-296-4070

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Vernal District Office
170 South 500 East
Vernal, Utah 84078-2799

Phone: (801) 781-4400
Fax: (801) 781-4410

IN REPLY REFER TO:
3162.3
UT08438

December 5, 1997

Inland Production Company
475 17th Street, Suite 1500
Denver, CO 80202

43-013-31400

Re: Well No. Balcron Federal 21-13Y
NENW, Sec. 13, T9S, R16E
Lease U-64805
Duchesne County, Utah

Dear Sir:

This correspondence is in regard to the self-certification statement submitted requesting a change in operator for the referenced well. After a review by this office, the change in operator request is approved. Effective immediately, Inland Production Company is responsible for all operations performed on the referenced well. All liability will now fall under your bond, BLM Bond No. UT0056, for all operations conducted on the referenced well on the leased land.

If you have any other questions concerning this matter, please contact Margie Herrmann or Pat Sutton of this office at (435) 781-4400.

Sincerely,

Howard B. Cleavinger II
Assistant Field Manager,
Minerals Resources

cc: Division of Oil, Gas & Mining
Equitable Resources Energy Company
ABO Petroleum Corp.
Myco Industries Inc.
Yates Drilling Company
Yates Petroleum Corp.

Crazy Mountain Oil & Gas Services
P.O. Box 577
Laurel, MT 59044
(406) 628-4164
(406) 628-4165

TO: Lisha
St of Utah.

FROM. Molly Conrad
Crazy Mountain Oil & Gas Services
(406) 628-4164

Pages Attached - Including Cover Sheet 2.

NOTE: Here is the letter you requested. Call if you need anything further.

EQUITABLE RESOURCES
ENERGY COMPANY
WESTERN REGION
(406) 259-7860 Telephone
(406) 245-1361 Fax

December 10, 1997

Lisha
State of Utah
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, UT 84114-5801

Dear Lisha:

RE: Equitable Sale of Utah Properties

Effective September 30, 1997, Equitable Resources Energy Company sold all of its Utah properties to Inland Production Company.

Please feel free to contact me if you require additional information.

Sincerely,

Molly Conrad

Molly Conrad
Agent for Equitable Resources
Energy Company

/mc

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

Routing:	
1-LEC	6-LEC
2-GLH	7-KAS
3-DTS/SLS	8-SI
4-VLD	9-FILE
5-JRB	

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

☒ Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator ☐ Operator Name Change Only

The operator of the well(s) listed below has changed, **effective:** 9-30-97

TO: (new operator)	INLAND PRODUCTION COMPANY	**FROM:** (old operator)	EQUITABLE RESOURCES ENERGY
(address)	PO BOX 1446	(address)	PO BOX 577
	ROOSEVELT UT 84066		LAUREL MT 59044
			C/O CRAZY MTN O&G SERVICES
	Phone: (801)722-5103		Phone: (406)628-4164
	Account no. N5160		Account no. N9890

WELL(S) attach additional page if needed:

Name:	**SEE ATTACHED**	API:	43-013-31400	Entity:		S		T		R		Lease:	
Name:		API:		Entity:		S		T		R		Lease:	
Name:		API:		Entity:		S		T		R		Lease:	
Name:		API:		Entity:		S		T		R		Lease:	
Name:		API:		Entity:		S		T		R		Lease:	
Name:		API:		Entity:		S		T		R		Lease:	
Name:		API:		Entity:		S		T		R		Lease:	

OPERATOR CHANGE DOCUMENTATION

LEC 1. (r649-8-10) Sundry or other legal documentation has been received from the **FORMER** operator (attach to this form). (Rec'd 12-10-97)

LEC 2. (r649-8-10) Sundry or other legal documentation has been received from the **NEW** operator (Attach to this form). (Rec'd 10-20-97)

N/A 3. The **Department of Commerce** has been contacted if the new operator above is not currently operating any wells in Utah. Is the company **registered with the state?** (yes/no) _____ If yes, show company file number: _____.

LEC 4. **FOR INDIAN AND FEDERAL WELLS ONLY.** The BLM has been contacted regarding this change. Make note of BLM status in comments section of this form. BLM approval of **Federal** and **Indian** well operator changes should ordinarily take place prior to the division's approval, and before the completion of steps 5 **through** 9 below.

LEC 5. Changes have been entered in the **Oil and Gas Information System** (3270) for each well listed above. (12-9-97)

LC 6. **Cardex** file has been updated for each well listed above. (12-10-97)

LC 7. Well **file labels** have been updated for each well listed above. (12-10-97)

LEC 8. Changes have been included on the monthly "Operator, Address, and Account Changes" **memo** for distribution to Trust Lands, Sovereign Lands, UGS, Tax Commission, etc. (12-9-97)

LC 9. A folder has been set up for the **Operator Change file**, and a copy of this page has been placed there for reference during routing and processing of the original documents.

OPERATOR CHANGE WORKSHEET (continued) - Initial each item when completed. Write N/A if item is not applicable.

ENTITY REVIEW

LC 1. (r649-8-7) **Entity assignments have been reviewed** for all wells listed above. Were entity changes made? (yes/no) ____ If entity assignments were changed, attach copies of Form 6, Entity Action Form.

N/A 2. Trust Lands, Sovereign Lands, Tax Commission, etc., have been **notified** through normal procedures of entity changes.

BOND VERIFICATION - (FEE WELLS ONLY)

N/A/LC 1. (r649-3-1) The **NEW** operator of any fee lease well listed above has furnished a proper bond.

__ 2. A **copy of this form** has been placed in the new and former operator's bond files.

__ 3. The **FORMER** operator has requested a release of liability from their bond (yes/no) ____, as of today's date ____. If yes, division response was made to this request by letter dated ____.

LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY

N/A 1. Copies of documents have been sent on ____ to ____ at Trust Lands for changes involving State leases, in order to remind that agency of their responsibility to review for proper bonding.
DTS 12/16/97

N/A 2. (r649-2-10) The former operator of any fee lease wells listed above has been contacted and informed by letter dated ____ 19 __, of their responsibility to notify all interest owners of this change.

FILMING

1. All attachments to this form have been **microfilmed**. Today's date: 1/6/98.

FILING

__ 1. **Copies** of all attachments to this form have been filed in each **well file**.

__ 2. The **original of this form**, and the **original attachments** are now being filed in the Operator Change file.

COMMENTS

971209 BLM / Vernal Aprv 12-4-97.

FORM 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.
Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.
U-64805

6. If Indian, Allottee or Tribe Name
NA

7. If Unit or CA, Agreement Designation
NA

1. Type of Well
[X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.
FEDERAL 21-13Y

9. API Well No.
43-013-31400

2. Name of Operator
INLAND PRODUCTION COMPANY

10. Field and Pool, or Exploratory Area
MONUMENT BUTTE

3. Address and Telephone No.
475 17TH STREET, SUITE 1500, DENVER, COLORADO 80202 (303) 292-0900

11. County or Parish, State
DUCHESNE COUNTY, UTAH

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)
0703 FNL 1830 FWL NE/NW Section 13, T09S R16E

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other **Site Security**	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Attached please find the site security diagram for the above referenced well.

RECEIVED
NOV 02 1998
DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct
Signed Debbie E. Knight Title Manager, Regulatory Compliance Date 10/28/98

(This space for Federal or State office use)
Approved by _____ Title _____ Date _____
Conditions of approval, if any:
CC: UTAH DOGM

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fradulent statements or representations as to any matter within its jurisdiction.

Inland Production Company
Site Facility Diagram

Federal 21-13Y

NE/NW Sec. 13, T9S, 16E

Duchesne County

May 12, 1998

Site Security Plan is held at the Roosevelt Office, Roosevelt Utah

Production Phase:

1) Valves 1 and 3 sealed closed

2) Valves 2 and 4 sealed open

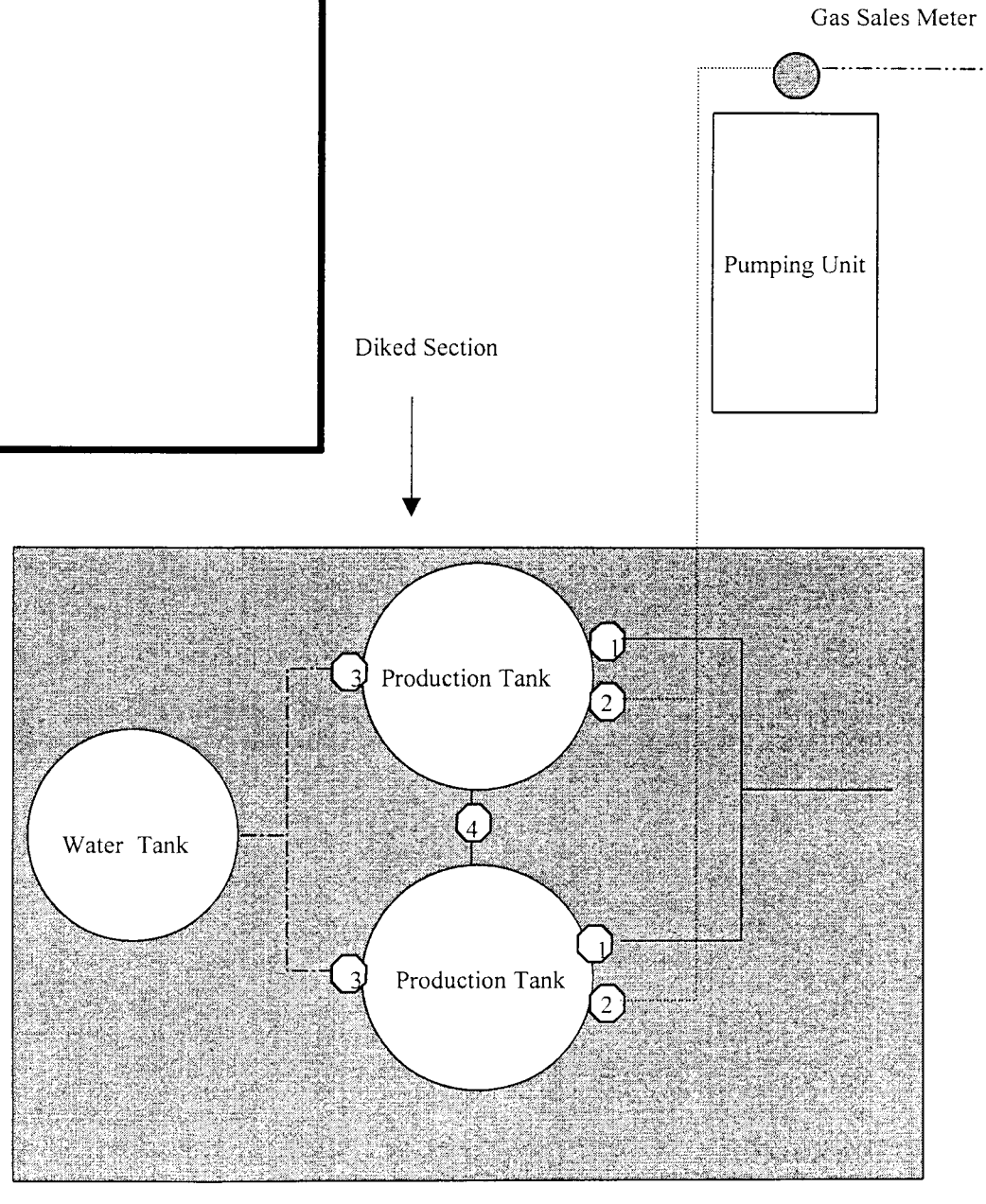
Sales Phase:

1) Valves 1, 2, 4, 5 sealed closed

2) Valves 1 open

Draining Phase:

1) Valve 3 open



Emulsion Line

Load Line

Water Line

Gas Sales

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155
http://www.blm.gov

TAKE PRIDE IN AMERICA

IN REPLY REFER TO:
3106
(UT-924)

September 16, 2004

Memorandum

To: Vernal Field Office

From: Acting Chief, Branch of Fluid Minerals

Subject: Merger Approval

Attached is an approved copy of the name change recognized by the Utah State Office. We have updated our records to reflect the merger from Inland Production Company into Newfield Production Company on September 2, 2004.

Michael L Coulthard

Michael Coulthard
Acting Chief, Branch of
Fluid Minerals

Enclosure
1. State of Texas Certificate of Registration

cc: MMS, Reference Data Branch, James Sykes, PO Box 25165, Denver CO 80225
State of Utah, DOGM, Attn: Earlene Russell, PO Box 145801, SLC UT 84114
Teresa Thompson
Joe Incardine
Connie Seare

Corporations Section
P.O.Box 13697
Austin, Texas 78711-3697

Geoffrey S. Connor
Secretary of State

Office of the Secretary of State

The undersigned, as Secretary of State of Texas, does hereby certify that the attached is a true and correct copy of each document on file in this office as described below:

Newfield Production Company
Filing Number: 41530400

Articles of Amendment September 02, 2004

In testimony whereof, I have hereunto signed my name officially and caused to be impressed hereon the Seal of State at my office in Austin, Texas on September 10, 2004.

Secretary of State

ARTICLES OF AMENDMENT
TO THE
ARTICLES OF INCORPORATION
OF
INLAND PRODUCTION COMPANY

FILED
In the Office of the
Secretary of State of Texas
SEP 02 2004
Corporations Section

Pursuant to the provisions of Article 4.04 of the Texas Business Corporation Act (the "TBCA"), the undersigned corporation adopts the following articles of amendment to the articles of incorporation:

ARTICLE 1 – Name

The name of the corporation is Inland Production Company.

ARTICLE 2 – Amended Name

The following amendment to the Articles of Incorporation was approved by the Board of Directors and adopted by the shareholders of the corporation on August 27, 2004.

The amendment alters or changes Article One of the Articles of Incorporation to change the name of the corporation so that, as amended, Article One shall read in its entirety as follows:

"ARTICLE ONE – The name of the corporation is Newfield Production Company."

ARTICLE 3 – Effective Date of Filing

This document will become effective upon filing.

The holder of all of the shares outstanding and entitled to vote on said amendment has signed a consent in writing pursuant to Article 9.10 of the TBCA, adopting said amendment, and any written notice required has been given.

IN WITNESS WHEREOF, the undersigned corporation has executed these Articles of Amendment as of the 1st day of September, 2004.

INLAND RESOURCES INC.

By: Susan G. Riggs
Susan G. Riggs, Treasurer

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065914

UTU-

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022684A
027345
034217A
035521
035521A
038797
058149
063597A
075174
096547
096550

10760
11385
13905
15392
15855
16535
16539
16544
17036
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63098A
68528A
72086A
72613A
73520X
74477X
75023X
76189X
76331X
76788X
77098X
77107X
77236X
77376X
78560X
79485X
79641X
80207X
81307X

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING
1. GLH
2. CDW
3. FILE

Change of Operator (Well Sold) | Designation of Agent/Operator

X Operator Name Change | **Merger**

The operator of the well(s) listed below has changed, effective: **9/1/2004**

FROM: (Old Operator):	**TO:** (New Operator):
N5160-Inland Production Company	N2695-Newfield Production Company
Route 3 Box 3630	Route 3 Box 3630
Myton, UT 84052	Myton, UT 84052
Phone: 1-(435) 646-3721	Phone: 1-(435) 646-3721

CA No. **Unit:**

WELL(S)

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
WALKER/SAND PASS 14-21R-4-1(REEN	21	040S	010W	4301331069	14300	Fee	NA	P
CODY FEDERAL 2-35 (REENTRY)	35	080S	150E	4301331525	11794	Federal	OW	P
MONUMENT BUTTE FED 14-25	25	080S	160E	4301331531	11805	Federal	OW	P
MONUMENT BUTTE FED 12-25	25	080S	160E	4301331554	11840	Federal	OW	P
MONUMENT BUTTE FED 10-25	25	080S	160E	4301331562	11874	Federal	OW	P
MONUMENT BUTTE FED 16-26	26	080S	160E	4301331517	11814	Federal	OW	P
MONUMENT BUTTE ST 14-36	36	080S	160E	4301331508	11774	State	OW	P
MONUMENT BUTTE ST 10-36	36	080S	160E	4301331551	11822	State	OW	P
MONUMENT BUTTE ST 2-36	36	080S	160E	4301331556	11855	State	OW	P
ASHLEY FEDERAL 10-23	23	090S	150E	4301331519	11775	Federal	OW	P
FEDERAL 41-10Y	10	090S	160E	4301331478	11764	Federal	NA	PA
FEDERAL 21-13Y	13	090S	160E	4301331400	11510	Federal	OW	P
NOVA 31-20 G NGC FEDERAL	20	090S	160E	4301331071	10185	Federal	OW	S
FEDERAL 41-21Y	21	090S	160E	4301331392	11505	Federal	OW	S
FEDERAL 21-25Y	25	090S	160E	4301331394	11530	Federal	OW	S
ALLEN FEDERAL 31-6G	06	090S	170E	4301331442	11642	Federal	GW	S
FEDERAL 41-18	18	090S	170E	4301331399	11536	Federal	NA	PA

K

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 9/15/2004
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 9/15/2004

3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 2/23/2005
4. Is the new operator registered in the State of Utah: YES Business Number: 755627-0143
5. If **NO**, the operator was contacted contacted on:

6a. (R649-9-2)Waste Management Plan has been received on: IN PLACE

6b. Inspections of LA PA state/fee well sites complete on: waived

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM BIA

8. **Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: na/

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 2/23/2005

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 2/28/2005
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 2/28/2005
3. Bond information entered in RBDMS on: 2/28/2005
4. Fee/State wells attached to bond in RBDMS on: 2/28/2005
5. Injection Projects to new operator in RBDMS on: 2/28/2005
6. Receipt of Acceptance of Drilling Procedures for APD/New on: waived

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: UT 0056

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: 61BSBDH2912

FEE & STATE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 61BSBDH2919

2. The **FORMER** operator has requested a release of liability from their bond on: n/a*
The Division sent response by letter on: n/a

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

*Bond rider changed operator name from Inland Production Company to Newfield Production Company - **received 2/23/05**

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:
UTU64805
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME:

SUNDRY NOTICES AND REPORTS ON WELLS

› not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ OTHER				8. WELL NAME and NUMBER: FEDERAL 21-13Y
2. NAME OF OPERATOR: Newfield Production Company				9. API NUMBER: 4301331400
3. ADDRESS OF OPERATOR: Route 3 Box 3630	CITY Myton	STATE UT	ZIP 84052	PHONE NUMBER 435.646.3721
10. FIELD AND POOL, OR WILDCAT: Monument Butte				

4. LOCATION OF WELL:

FOOTAGES AT SURFACE: 0703 FNL 1830 FWL — COUNTY: Duchesne

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NE/NW, 13, T9S, R16E — STATE: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION SubDate		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARITLY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLAIR
☒ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of Work Completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/STOP)	☐ WATER SHUT-OFF
12/27/2005	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER: -
	☐ CONVERT WELL TYPE	☒ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Subject well had recompletion procedures initiated in the Green River formation. Existing production equipment was pulled from well. A bit and scraper were run in well. One new interval was perforated and hydraulically fracture treated as follows: GR6 sands 4103-4118', w/4 JSPF, w/55211#'s of 20/40 sand in 439 bbls of Lightning 17 frac fluid, Sand was cleaned from wellbore. New intervals were swab tested for sand cleanup. BHA & revised production tbg string were run and anchored in well w/tubing @4748', pump seating nipple @ 4782', and end of tubing string @ 4817'. A 1 1/2" rod pump was run in well on sucker rods. Well returned to production via rod pump on 11-22-05.

NAME (PLEASE PRINT) Kathy Chapman — TITLE Office Manager

SIGNATURE Kathy Chapman — DATE 12/27/2005

(This space for State use only)

JAN 2 5 2006

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-64805

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL: OIL WELL [x] GAS WELL [ ] OTHER

8. WELL NAME and NUMBER: FEDERAL 21-13Y

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

9. API NUMBER: 4301331400

3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052

PHONE NUMBER: 435.646.3721

10. FIELD AND POOL, OR WILDCAT: MONUMENT BUTTE

4. LOCATION OF WELL:

FOOTAGES AT SURFACE: 703 FNL 1830 FWL

COUNTY: DUCHESNE

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NENW, 13, T9S, R16E

STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
[ ] NOTICE OF INTENT (Submit in Duplicate)	[ ] ACIDIZE	[ ] DEEPEN	[ ] REPERFORATE CURRENT FORMATION
Approximate date work will	[ ] ALTER CASING	[ ] FRACTURE TREAT	[ ] SIDETRACK TO REPAIR WELL
	[ ] CASING REPAIR	[ ] NEW CONSTRUCTION	[ ] TEMPORARITLY ABANDON
	[ ] CHANGE TO PREVIOUS PLANS	[ ] OPERATOR CHANGE	[ ] TUBING REPAIR
	[ ] CHANGE TUBING	[ ] PLUG AND ABANDON	[ ] VENT OR FLAIR
[x] SUBSEQUENT REPORT (Submit Original Form Only)	[ ] CHANGE WELL NAME	[ ] PLUG BACK	[ ] WATER DISPOSAL
Date of Work Completion:	[ ] CHANGE WELL STATUS	[ ] PRODUCTION (START/STOP)	[ ] WATER SHUT-OFF
10/02/2008	[ ] COMMINGLE PRODUCING FORMATIONS	[ ] RECLAMATION OF WELL SITE	[ ] OTHER: -
	[ ] CONVERT WELL TYPE	[X] RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above subject well was recompleted on 09-04-08, and then placed back on production, attached is a daily recompletion status report. The following perforations were added in the Green River formation:
A1 5036'-5042' 4 JPSF 24 holes

NAME (PLEASE PRINT) Jentri Park TITLE Production Tech

SIGNATURE DATE 10/02/2008

(This space for State use only)

RECEIVED
OCT 09 2008
DIV. OF OIL, GAS & MINING

Daily Activity Report

Format For Sundry

FEDERAL 21-13Y-9-16

7/1/2008 To 11/30/2008

8/30/2008 Day: 1 **Recompletion**

Western #2 on 8/29/2008 - MIRU Western #2. Pump 70 bbls 250° water down csg. RD pumping unit. Unseat pump w/ 10,000# over string. Flush rods w/ 30 bbls 250° water. Softseat pump. Attempt to fill & test tbg. w/ no success. POOH w/ rods, stopping once to flush rods w/ 30 bbls 250° water. LD pump. X-over for tbg. ND wellhead. Release TAC. NU BOP. RIH w/ tbg. to 5426' (did not tag fill). POOH w/ tbg., stopping once to flush tbg. w/ 25 bbls 250° water. RU wireline truck. Perforate A1 sds @ 5036-42' w/ 3 1/8" slick guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 24 shots. RD wireline truck. SWIFN.

9/3/2008 Day: 2 **Recompletion**

Western #2 on 9/2/2008 - Talley, PU & RIH w/ 5 1/2" plug, Pkr & 154- jts of 2 7/8" N-80 tbg. Set plug @ 5090'. Set pkr @ 4990'. Break down A1 sds. Broke @ 2500 psi. Release pkr. SWIFN.

9/4/2008 Day: 3 **Recompletion**

Western #2 on 9/3/2008 - Stage 1, Tbg frac A3 sds. 2 psi on well. RU BJ services to tbg. Fill & hold pressure on annulus during frac. 2 psi on tbg. Fill tbg w/ 15 BW. Frac A1 sds w/ 16,591#'s of 20/40 sand in 238 bbls of Lightning 17 fluid. Broke @ 3689 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 3442 psi @ ave rate of 13.1BPM. ISIP 1962 psi. Begin immediate flowback on 20/64 choke @ 3 BPM. Flowed back for 1 Hr 10 mins, 130 BTF & died. Pressure up on annulus. Release pkr. Circulate clean down to plug @ 5090' (20' of fill). Release plug. LD 2 7/8" N-80 workstring. PU & RIH w/ production tbg, Pressure testing to 3000 psi. Final test good. RU sandline & fish SV. RU swab equipment. SWIFN w/ 319 BWTR..

9/5/2008 Day: 4 **Recompletion**

Western #2 on 9/4/2008 - 0 psi on well. RIH w/ swab. IFL @ 1200'. Made 10 runs, Rec 54 BTF, FFL @ 3200'. No oil, No sand. RD swab equipment. TIH w/ 5 jts of tbg. EOT @ 5418'. Circulate well clean. LD 8 jts of tbg. ND BOP. Set TA @ 5059' w/ 16,000#'s of tension, SN @ 5124', EOT @ 5187'. NU WH. Flush tbg w/ 60 BW. PU & prime up rod pump. RIH w/ rods as follows: 2 1/2" X 1 1/2" X 20' RHAC (179" Max SL), 6- 1 1/2" wt bars, 99- 3/4" guided rods, 98- 7/8" guided rods (A grade), 1-8', 1-6', 1-4', 1-2' X 7/8" pony rods (A grade), 1 1/2" X 26' Polish rod (A grade). Hang head, Space out rods. Fill tbg w/ 5 bbls of wtr. Pressure test to 800 psi w/ unit. RDMOSU. POP @ 3:30 PM w/ 56" SL @ 4 SPM. 325 BWTR. FINAL REPORT!!

Pertinent Files: Go to File List

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-64805

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: FEDERAL 21-13Y

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

9. API NUMBER: 43013314000000

3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052

PHONE NUMBER: 435 646-4825 Ext

9. FIELD and POOL or WILDCAT: MONUMENT BUTTE

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0703 FNL 1830 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 13 Township: 09.0S Range: 16.0E Meridian: S

COUNTY: DUCHESNE

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
✓ SUBSEQUENT REPORT Date of Work Completion: 4/11/2012	✓ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	✓ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The subject well has been converted from a producing oil well to an injection well on 04/09/2012. On 4/10/2012 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 04/11/2012 the casing was pressured up to 1250 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not a State representative available to witness the test.

Accepted by the Utah Division of Oil, Gas and Mining

Date: May 03, 2012

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Lucy Chavez-Naupoto	435 646-4874	Water Services Technician
SIGNATURE N/A		**DATE** 4/12/2012

Mechanical Integrity Test
Casing or Annulus Pressure Test

Newfield Production Company
Rt. 3 Box 3630
Myton, UT 84052
435-646-3721

Witness: _____ **Date** 4 / 11 / 12 **Time** 9 (am) pm
Test Conducted by: Jared Robison
Others Present: _____

Well: Federal 21-13Y-9-16 **Field:** Monument Butte
Well Location: NE/NW Sec. 13, T9S R16E **API No:** 4301-13-31400
Duchesne, Ut

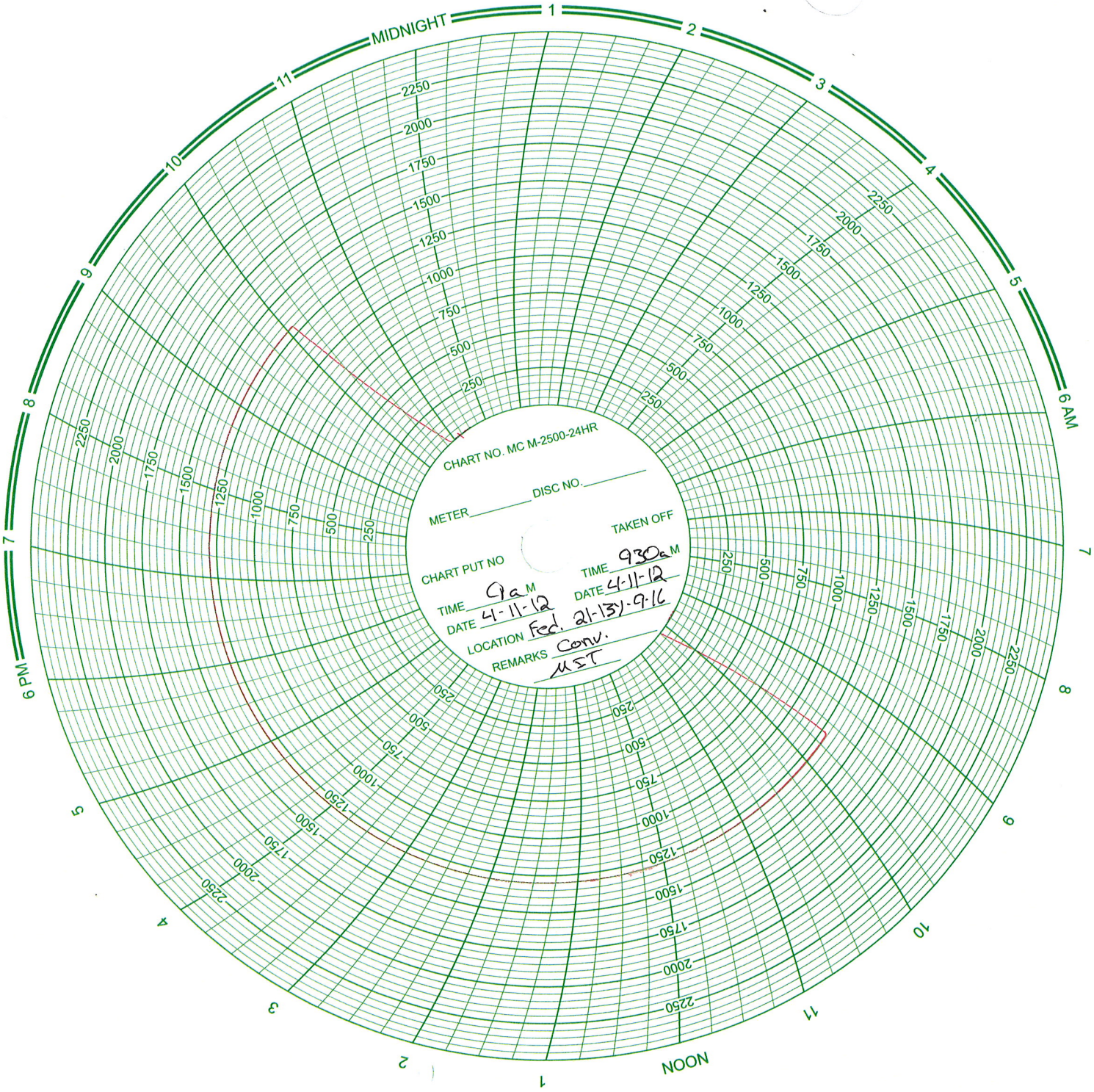
Time	Casing Pressure	
0 min	1250	psig
5	1250	psig
10	1250	psig
15	1250	psig
20	1250	psig
25	1250	psig
30 min	1250	psig
35		psig
40		psig
45		psig
50		psig
55		psig
60 min		psig

Tubing pressure: 0 psig

Result: (Pass) Fail

Signature of Witness: _____
Signature of Person Conducting Test: Jared Robison

Sundry Number: 24825 API Well Number: 43013314000000



Daily Activity Report

Format For Sundry

FEDERAL 21-13Y-9-16

2/1/2012 To 6/30/2012

4/4/2012 Day: 1 **Conversion**

NC #1 on 4/4/2012 - MIRU NC#1,U/S pmp,Flush Tbg,Seat pmp,Fill Tbg,Blow HIT @3,000 Psi,U/S pmp,POOH L/D Rod Prod & pmp.N/U BOP, Rel T/A, POOH W/45 Jts Tbg,Redoping Tool Jts, C/SDFN. - 9:30AM MIRU NC#1, BMW H/Oiler pmp 60 BW D/Csg, R/D Unit, Unseat pmp, Flush Tbg W/-40 BW, Seat pmp, Fill Tbg W/-18 BW, P/Test Tbg, Blow Hole In Tbg @ 3,000 Psi. Unseat pmp, POOH & L/D Rod Production String W/pmp. N/D W/-HD, N/U BOP, R/U R/Flr, Rel T/A, POOH W/-45 Jts Tbg, Breaking & Redoping Tool Jts, SWI, 6:30PM C/SDFN, 6:30PM-7:00PM C/Trvl. - 9:30AM MIRU NC#1, BMW H/Oiler pmp 60 BW D/Csg, R/D Unit, Unseat pmp, Flush Tbg W/-40 BW, Seat pmp, Fill Tbg W/-18 BW, P/Test Tbg, Blow Hole In Tbg @ 3,000 Psi. Unseat pmp, POOH & L/D Rod Production String W/pmp. N/D W/-HD, N/U BOP, R/U R/Flr, Rel T/A, POOH W/-45 Jts Tbg, Breaking & Redoping Tool Jts, SWI, 6:30PM C/SDFN, 6:30PM-7:00PM C/Trvl. **Finalized**
Daily Cost: $0
Cumulative Cost: $6,717

4/5/2012 Day: 2 **Conversion**

NC #1 on 4/5/2012 - OWU,POOH W/-108 Jts Tbg Breaking & Redoping Tool Jts,L/D Excess Tbg & BHA,R/U W/L Run Guage Ring To 4802',Set Arrow Pack Pkr @ 4720',R/D W/L.RIH W/Tbg Prod BHA,pmp 15 BW Pad D/Tbg,Drop SV, Fill Tbg, P/Tst I/Hle To 3,000 Psi,Tbg Psi Never Stablzed,SWI,C/SD - 5:30AM-6:00AM C/Trvl. 6:00AM OWU, POOH W/-108 Jts Tbg In Derrick Breaking & Redoping Tool Jts W/-Liq O-Ring. L/D 10 Jts Tbg, T/A, 1 Jts Tbg, S/N, 2 Jts Tbg, N/C. BMW H/Oiler Flush Tbg W/-25 BW On TOOH. R/U Perforators W/Line To Run Guage Ring To 4802', H/Oiler pmp 10 BW D/Csg Due To Oil. RIH Set 5 1/2'' Arrow Pak Pkr @ 4720', R/D W/Line, P/U & RIH W/-Seal Nipple,2 3/8X2 7/8 XO, 2 3/8 S/N, 2 7/8X2 3/8 XO, 22 Jts 2 7/8 Tbg Bttm 2 New, 5 1/2'' Arrow #1 Pkr, On Off Tool, 129 Jts Tbg, 2 7/8X4.12 Tbg Sub, 1 Jt Tbg, pmp 15 BW Pad D/Tbg, Drop SV, P/Test Tbg To 3,000 Psi, Tbg Psi Never Stabilized, SWI, 6:00PM C/SDFN, 6:00PM-6:30PM C/Trvl. - 5:30AM-6:00AM C/Trvl. 6:00AM OWU, POOH W/-108 Jts Tbg In Derrick Breaking & Redoping Tool Jts W/-Liq O-Ring. L/D 10 Jts Tbg, T/A, 1 Jts Tbg, S/N, 2 Jts Tbg, N/C. BMW H/Oiler Flush Tbg W/-25 BW On TOOH. R/U Perforators W/Line To Run Guage Ring To 4802', H/Oiler pmp 10 BW D/Csg Due To Oil. RIH Set 5 1/2'' Arrow Pak Pkr @ 4720', R/D W/Line, P/U & RIH W/-Seal Nipple,2 3/8X2 7/8 XO, 2 3/8 S/N, 2 7/8X2 3/8 XO, 22 Jts 2 7/8 Tbg Bttm 2 New, 5 1/2'' Arrow #1 Pkr, On Off Tool, 129 Jts Tbg, 2 7/8X4.12 Tbg Sub, 1 Jt Tbg, pmp 15 BW Pad D/Tbg, Drop SV, P/Test Tbg To 3,000 Psi, Tbg Psi Never Stabilized, SWI, 6:00PM C/SDFN, 6:00PM-6:30PM C/Trvl. **Finalized**
Daily Cost: $0
Cumulative Cost: $17,147

4/9/2012 Day: 3 **Conversion**

NC #1 on 4/9/2012 - Chek Tbg Psi,1100,Tapp SV,Stll Did Not Hold Psi,Fish SV,pmp Pad,Drop New SV.P/Tst Tbg To 3000 Psi,Good Tst,pmp Pkr Fluid,N/D BOP,Stining Into Arrow Pak Pkr,Set Arrow #1 Pkr,N/U W/HD,Fill & P/Tst Csg,Held Good 1 Hr 1,500 Psi,R/D Rig,Ready For MIT (Final R - 5:30AM-6:00AM C/Trvl. 6:00AM OWU W/-1100 Psi On Tbg, R/U H/Oiler, Bump Tbg Psi To 3,000 Psi, Leaked 110 Psi In 1 Hr. R/U S/Line RIH Tapp On SV. POOH W/-S/Line. P/Test Tbg To 3,000 Psi, Tbg Did Not Hold Psi. R/U S/-Line RIH & Fish SV. pmp 27 BW Pad D/Tbg, Drop New S/V. Fill Tbg W/-15 BW, P/Test Tbg To 3,000 Psi, Gained 20 Psi In 1

Hr.Good Test. RIH Fish SV. R/D R/Flr, H/Oiler pmp 70 BW W/-20 Gal Pkr Fluid, Sting Into Arrow Pak Pkr W/-Seal Nipple, Space Out, Set 5 1/2" Arrow #1 Pkr In 16,000 Tension, N/D BOP, N/U W/-HD, Fill Csg W/-1 BW, P/Test Csg & Pkr To 1,500 Psi, Good Test, R/D Rig,5:30PM -6:00PM C/Trvl, Well Ready For MIT (Final Rig Report). - 5:30AM-6:00AM C/Trvl. 6:00AM OWU W/-1100 Psi On Tbg, R/U H/Oiler, Bump Tbg Psi To 3,000 Psi, Leaked 110 Psi In 1 Hr. R/U S/Line RIH Tapp On SV. POOH W/-S/Line. P/Test Tbg To 3,000 Psi, Tbg Did Not Hold Psi. R/U S/-Line RIH & Fish SV. pmp 27 BW Pad D/Tbg, Drop New S/V. Fill Tbg W/-15 BW, P/Test Tbg To 3,000 Psi, Gained 20 Psi In 1 Hr.Good Test. RIH Fish SV. R/D R/Flr, H/Oiler pmp 70 BW W/-20 Gal Pkr Fluid, Sting Into Arrow Pak Pkr W/-Seal Nipple, Space Out, Set 5 1/2" Arrow #1 Pkr In 16,000 Tension, N/D BOP, N/U W/-HD, Fill Csg W/-1 BW, P/Test Csg & Pkr To 1,500 Psi, Good Test, R/D Rig,5:30PM -6:00PM C/Trvl, Well Ready For MIT (Final Rig Report).
Daily Cost: $0
Cumulative Cost: $42,270

4/12/2012 Day: 4 **Conversion**

Rigless on 4/12/2012 - Conduct initial MIT - On 04/10/2012 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 04/11/2012 the casing was pressured up to 1250 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not a State representative available to witness the test. - On 04/10/2012 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 04/11/2012 the casing was pressured up to 1250 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not a State representative available to witness the test.
Finalized
Daily Cost: $0
Cumulative Cost: $126,090

Pertinent Files: Go to File List

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-64805

SUNDRY NOTICES AND REPORTS ON WELLS

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6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: FEDERAL 21-13Y

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

9. API NUMBER: 43013314000000

3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052

PHONE NUMBER: 435 646-4825 Ext

9. FIELD and POOL or WILDCAT: MONUMENT BUTTE

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0703 FNL 1830 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 13 Township: 09.0S Range: 16.0E Meridian: S

COUNTY: DUCHESNE

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
✓ SUBSEQUENT REPORT Date of Work Completion: 9/13/2012	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Workover MIT

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above subject well had workover procedures performed (ran CBL), attached is a daily status report. On 09/12/2012 Chris Jensen with the State of Utah was contacted concerning the MIT on the above listed well. On 09/13/2012 the csg was pressured up to 1720 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 10 psig during the test. There was not a State representative available to witness the test.

Accepted by the Utah Division of Oil, Gas and Mining

Date: September 27, 2012

By: 

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Lucy Chavez-Naupoto	435 646-4874	Water Services Technician
SIGNATURE N/A		**DATE** 9/21/2012

Mechanical Integrity Test
Casing or Annulus Pressure Test

Newfield Production Company
Rt. 3 Box 3630
Myton, UT 84052
435-646-3721

Witness: _____ **Date** 9/13/12 **Time** 9:00 (am) pm

Test Conducted by: Rick Bagley

Others Present: _____

Well: ~~Federal 21-13y-9-16~~	**Field:** Monument Butte
Well Location: Fed 21-13y-9-16	**API No:** 4301331400

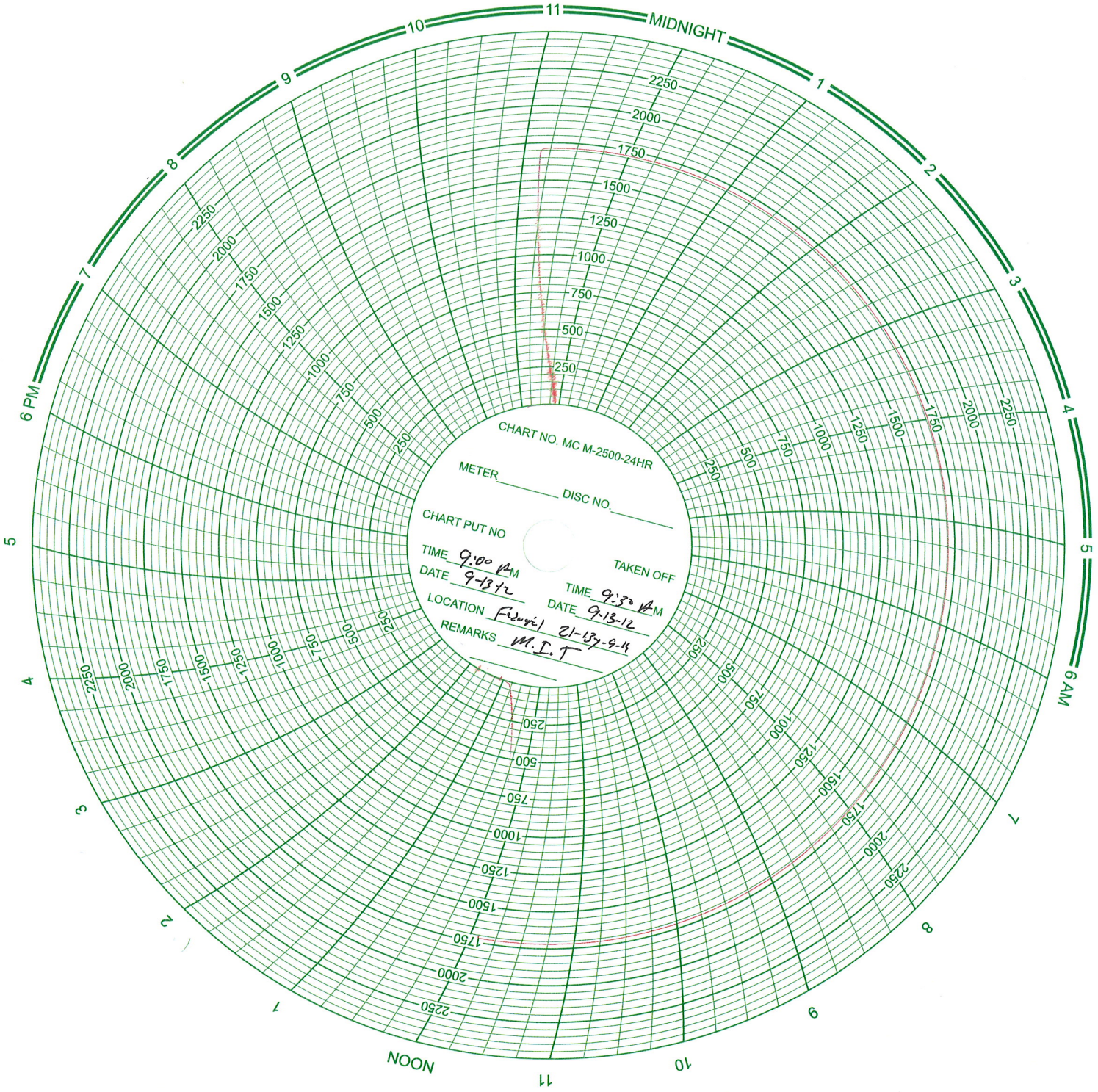
Time	Casing Pressure	
0 min	1720	psig
5	1720	psig
10	1720	psig
15	1720	psig
20	1720	psig
25	1720	psig
30 min	1720	psig
35		psig
40		psig
45		psig
50		psig
55		psig
60 min		psig

Tubing pressure: 10 psig

Result: (Pass) Fail

Signature of Witness: _____

Signature of Person Conducting Test: Rick Bagley


MIDNIGHT
NOON
6 AM
6 PM
CHART NO. MC M-2500-24HR
METER
DISC NO.
CHART PUT NO
TIME 9:00 AM
DATE 9-13-12
TAKEN OFF
TIME 9:30 AM
DATE 9-13-12
LOCATION Federal 21-13J-9-14
REMARKS M.I.T

Daily Activity Report

Format For Sundry

FEDERAL 21-13Y-9-16

7/1/2012 To 11/30/2012

8/29/2012 Day: 1 **CBL and Possible Cement Squeeze**

NC #2 on 8/29/2012 - MIRUSU, Bleed Off Well, Unset PKR, NU BOP, POOH W/ PKR, TIH W/ Bit & Scrapper - 5:30AM To 6:00AM C/ Travl; MIRUSU, OWU @12:30PM (100psi On Tbg, 50psi On Csg), ND Injection Tree, Release PKR, NU Weatherford BOP, RU Workfloor, LD 1- Jt, LD 4' Pup Sub, RU H/ Oiler To Tbg Pumped 40BW, Tally Tbg While POOH W/ PKR, LD PKR, PU RBS Bit & Scrapper, TIH W/ 152 Jt 4696', POOH W/ 80 Jts..SWIFN 7:00PM To 7:30PM C/ Travl - 5:30AM To 6:00AM C/ Travl; MIRUSU, OWU @12:30PM (100psi On Tbg, 50psi On Csg), ND Injection Tree, Release PKR, NU Weatherford BOP, RU Workfloor, LD 1- Jt, LD 4' Pup Sub, RU H/ Oiler To Tbg Pumped 40BW, Tally Tbg While POOH W/ PKR, LD PKR, PU RBS Bit & Scrapper, TIH W/ 152 Jt 4696', POOH W/ 80 Jts..SWIFN 7:00PM To 7:30PM C/ Travl - 5:30AM To 6:00AM C/ Travl; MIRUSU, OWU @12:30PM (100psi On Tbg, 50psi On Csg), ND Injection Tree, Release PKR, NU Weatherford BOP, RU Workfloor, LD 1- Jt, LD 4' Pup Sub, RU H/ Oiler To Tbg Pumped 40BW, Tally Tbg While POOH W/ PKR, LD PKR, PU RBS Bit & Scrapper, TIH W/ 152 Jt 4696', POOH W/ 80 Jts..SWIFN 7:00PM To 7:30PM C/ Travl **Finalized**
Daily Cost: $0
Cumulative Cost: $9,407

8/30/2012 Day: 2 **CBL and Possible Cement Squeeze**

NC #2 on 8/30/2012 - Set & Test RBP, RIH W/ WL For CBL - 5:30AM To 6:00AM C/ Travl; OWU @ 6:00PM, Continue POOH W/ Bit & Scrapper, PU & MU RBP, 4' Tbg Sub, PKR, TIH W/ 131 Jts, Set RBP @ 4064', LD 1- Jt , Set PKR @ 4033', RU H/ Oiler To Tbg Pumped 3 BW, Isolated Tbg, Pressure Test Tbg @1500psi For 15 Min, GOOD TEST, Released PKR, Filled Csg W/ 7 BW Threw Tbg, POOH W/ PKR Refilling Csg Every 1200', LD PKR, RU & RIH W/ WL (Perforators) For CBL, H/ Oiler Pressured Up Csg To 1000psi During BL, Completed CBL, POOH & RD WL, Steamed On Floor & BOP ..SWIFN 4:30PM To 5:00PM C/ Travl - 5:30AM To 6:00AM C/ Travl; OWU @ 6:00PM, Continue POOH W/ Bit & Scrapper, PU & MU RBP, 4' Tbg Sub, PKR, TIH W/ 131 Jts, Set RBP @ 4064', LD 1- Jt , Set PKR @ 4033', RU H/ Oiler To Tbg Pumped 3 BW, Isolated Tbg, Pressure Test Tbg @1500psi For 15 Min, GOOD TEST, Released PKR, Filled Csg W/ 7 BW Threw Tbg, POOH W/ PKR Refilling Csg Every 1200', LD PKR, RU & RIH W/ WL (Perforators) For CBL, H/ Oiler Pressured Up Csg To 1000psi During BL, Completed CBL, POOH & RD WL, Steamed On Floor & BOP ..SWIFN 4:30PM To 5:00PM C/ Travl - 5:30AM To 6:00AM C/ Travl; OWU @ 6:00PM, Continue POOH W/ Bit & Scrapper, PU & MU RBP, 4' Tbg Sub, PKR, TIH W/ 131 Jts, Set RBP @ 4064', LD 1- Jt , Set PKR @ 4033', RU H/ Oiler To Tbg Pumped 3 BW, Isolated Tbg, Pressure Test Tbg @1500psi For 15 Min, GOOD TEST, Released PKR, Filled Csg W/ 7 BW Threw Tbg, POOH W/ PKR Refilling Csg Every 1200', LD PKR, RU & RIH W/ WL (Perforators) For CBL, H/ Oiler Pressured Up Csg To 1000psi During BL, Completed CBL, POOH & RD WL, Steamed On Floor & BOP ..SWIFN 4:30PM To 5:00PM C/ Travl **Finalized**
Daily Cost: $0
Cumulative Cost: $20,019

9/4/2012 Day: 3 **CBL and Possible Cement Squeeze**

NC #2 on 9/4/2012 - TIH W/ Tbg Open Holed, RDSU - 5:30AM To 6:00AM C/ Travl; OWU @ 6:00PM, LD- 26 Jts, TIH W/ Tbg As Follows NC, 126- 2 7/8" Tbg, 4' Pup Sub, EOT @ 3891.84', Dumped 20 Gal Of Frac Sand Down Tbg, H/ Oiler Pumped Tbg Vol 22BW To Chase Sand To PLG, RD Work Floor, ND Weatherford BOP, NU Injection Tree, RDSU...4:30PM To 5:00PM -

5:30AM To 6:00AM C/ Travl; OWU @ 6:00PM, LD- 26 Jts, TIH W/ Tbg As Follows NC, 126- 2 7/8" Tbg, 4' Pup Sub, EOT @ 3891.84', Dumped 20 Gal Of Frac Sand Down Tbg, H/ Oiler Pumped Tbg Vol 22BW To Chase Sand To PLG, RD Work Floor, ND Weatherford BOP, NU Injection Tree, RDSU...4:30PM To 5:00PM - 5:30AM To 6:00AM C/ Travl; OWU @ 6:00PM, LD- 26 Jts, TIH W/ Tbg As Follows NC, 126- 2 7/8" Tbg, 4' Pup Sub, EOT @ 3891.84', Dumped 20 Gal Of Frac Sand Down Tbg, H/ Oiler Pumped Tbg Vol 22BW To Chase Sand To PLG, RD Work Floor, ND Weatherford BOP, NU Injection Tree, RDSU...4:30PM To 5:00PM
Daily Cost: $0
Cumulative Cost: $26,039

9/11/2012 Day: 4 **CBL and Possible Cement Squeeze**

NC #2 on 9/11/2012 - Retrieve RBP, TIH W/ PKR - 5:30AM To 6:00AM C/ Travl; MIRSU @ 9:00AM, OWU @ 9:00AM, ND Injection Tree, NU Weatherford BOP, RU Workfloor, POOH W/ 124 Jts, PU 6- Jts, TIH W/ Tbg To Retreive RBP @ 4064', RU H/ Oiler To Csg, Circulated Sand From Plg, Released RBP, POOH W/ 130 Jts, MU & TIH W/ 4' PKR Stinger, 2 3/8" XN Nipple, 2 7/8"x 2 3/8" X-Over, PU 22- Jts..SWIFN.. 7:00PM To 7:30PM C/ Travl - 5:30AM To 6:00AM C/ Travl; MIRSU @ 9:00AM, OWU @ 9:00AM, ND Injection Tree, NU Weatherford BOP, RU Workfloor, POOH W/ 124 Jts, PU 6- Jts, TIH W/ Tbg To Retreive RBP @ 4064', RU H/ Oiler To Csg, Circulated Sand From Plg, Released RBP, POOH W/ 130 Jts, MU & TIH W/ 4' PKR Stinger, 2 3/8" XN Nipple, 2 7/8"x 2 3/8" X-Over, PU 22- Jts..SWIFN.. 7:00PM To 7:30PM C/ Travl - 5:30AM To 6:00AM C/ Travl; OWU @ 6:00AM, MU "XN" Injection PKR, TIH W/ 130- Jts,1- 2' Tbg Sub, RU H/ Oiler To Tbg, Pumped 10 BW, RU & RIH W/ Sandline To Seat Stnd Valv, Filled Tbg W/ 20BW, RU Isolation T, Pressured Tbg To 3000psi, No Pressure Loss In 60 Min, GOOD TEST, RU & RIH W/ Sandline W/ Overshot, Retreived Stnd Valv, RU H/ Oiler To Csg, Pumped 70BW Of Fresh Wtr W/ PKR Fluid, Inserted Stinger Into PKR @ 4720', Pulled 13" Stretch To Set Injection PKR @ 4036' (CE @ 4031.70') W/ 1500# Of Tension, RD WorkFloor, ND Weatherford BOP, NU Injection Tree, H/ Oiler Filled Csg W/ 10BW, Pressured Up Csg To 1500psi, 20psi Loss In 30 Min, Repressured Csg To 1550psi, No Loss In Pressure In 60 Min, RDSU¿5:30PM To 6:00PM C/ Travl¿.. GOOD TEST¿READY FOR MIT - 5:30AM To 6:00AM C/ Travl; OWU @ 6:00AM, MU "XN" Injection PKR, TIH W/ 130- Jts,1- 2' Tbg Sub, RU H/ Oiler To Tbg, Pumped 10 BW, RU & RIH W/ Sandline To Seat Stnd Valv, Filled Tbg W/ 20BW, RU Isolation T, Pressured Tbg To 3000psi, No Pressure Loss In 60 Min, GOOD TEST, RU & RIH W/ Sandline W/ Overshot, Retreived Stnd Valv, RU H/ Oiler To Csg, Pumped 70BW Of Fresh Wtr W/ PKR Fluid, Inserted Stinger Into PKR @ 4720', Pulled 13" Stretch To Set Injection PKR @ 4036' (CE @ 4031.70') W/ 1500# Of Tension, RD WorkFloor, ND Weatherford BOP, NU Injection Tree, H/ Oiler Filled Csg W/ 10BW, Pressured Up Csg To 1500psi, 20psi Loss In 30 Min, Repressured Csg To 1550psi, No Loss In Pressure In 60 Min, RDSU¿5:30PM To 6:00PM C/ Travl¿.. GOOD TEST¿READY FOR MIT - 5:30AM To 6:00AM C/ Travl; MIRSU @ 9:00AM, OWU @ 9:00AM, ND Injection Tree, NU Weatherford BOP, RU Workfloor, POOH W/ 124 Jts, PU 6- Jts, TIH W/ Tbg To Retreive RBP @ 4064', RU H/ Oiler To Csg, Circulated Sand From Plg, Released RBP, POOH W/ 130 Jts, MU & TIH W/ 4' PKR Stinger, 2 3/8" XN Nipple, 2 7/8"x 2 3/8" X-Over, PU 22- Jts..SWIFN.. 7:00PM To 7:30PM C/ Travl - 5:30AM To 6:00AM C/ Travl; MIRSU @ 9:00AM, OWU @ 9:00AM, ND Injection Tree, NU Weatherford BOP, RU Workfloor, POOH W/ 124 Jts, PU 6- Jts, TIH W/ Tbg To Retreive RBP @ 4064', RU H/ Oiler To Csg, Circulated Sand From Plg, Released RBP, POOH W/ 130 Jts, MU & TIH W/ 4' PKR Stinger, 2 3/8" XN Nipple, 2 7/8"x 2 3/8" X-Over, PU 22- Jts..SWIFN.. 7:00PM To 7:30PM C/ Travl - 5:30AM To 6:00AM C/ Travl; OWU @ 6:00AM, MU "XN" Injection PKR, TIH W/ 130- Jts,1- 2' Tbg Sub, RU H/ Oiler To Tbg, Pumped 10 BW, RU & RIH W/ Sandline To Seat Stnd Valv, Filled Tbg W/ 20BW, RU Isolation T, Pressured Tbg To 3000psi, No Pressure Loss In 60 Min, GOOD TEST, RU & RIH W/ Sandline W/ Overshot, Retreived Stnd Valv, RU H/ Oiler To Csg, Pumped 70BW Of Fresh Wtr W/ PKR Fluid, Inserted Stinger Into PKR @ 4720', Pulled 13" Stretch To Set Injection PKR @ 4036' (CE @ 4031.70') W/ 1500# Of Tension, RD WorkFloor, ND Weatherford BOP, NU Injection Tree, H/ Oiler Filled Csg W/ 10BW, Pressured Up Csg To 1500psi, 20psi Loss In 30 Min, Repressured Csg To 1550psi, No Loss In Pressure In 60 Min,

RDSU¿5:30PM To 6:00PM C/ Travl¿.. GOOD TEST¿READY FOR MIT - 5:30AM To 6:00AM C/ Travl; OWU @ 6:00AM, MU "XN" Injection PKR, TIH W/ 130- Jts,1- 2' Tbg Sub, RU H/ Oiler To Tbg, Pumped 10 BW, RU & RIH W/ Sandline To Seat Stnd Valv, Filled Tbg W/ 20BW, RU Isolation T, Pressured Tbg To 3000psi, No Pressure Loss In 60 Min, GOOD TEST, RU & RIH W/ Sandline W/ Overshot, Retreived Stnd Valv, RU H/ Oiler To Csg, Pumped 70BW Of Fresh Wtr W/ PKR Fluid, Inserted Stinger Into PKR @ 4720', Pulled 13" Stretch To Set Injection PKR @ 4036' (CE @ 4031.70') W/ 1500# Of Tension, RD WorkFloor, ND Weatherford BOP, NU Injection Tree, H/ Oiler Filled Csg W/ 10BW, Pressured Up Csg To 1500psi, 20psi Loss In 30 Min, Repressured Csg To 1550psi, No Loss In Pressure In 60 Min, RDSU¿5:30PM To 6:00PM C/ Travl¿.. GOOD TEST¿READY FOR MIT - 5:30AM To 6:00AM C/ Travl; MIRSU @ 9:00AM, OWU @ 9:00AM, ND Injection Tree, NU Weatherford BOP, RU Workfloor, POOH W/ 124 Jts, PU 6- Jts, TIH W/ Tbg To Retreive RBP @ 4064', RU H/ Oiler To Csg, Circulated Sand From Plg, Released RBP, POOH W/ 130 Jts, MU & TIH W/ 4' PKR Stinger, 2 3/8" XN Nipple, 2 7/8"x 2 3/8" X-Over, PU 22- Jts..SWIFN.. 7:00PM To 7:30PM C/ Travl - 5:30AM To 6:00AM C/ Travl; MIRSU @ 9:00AM, OWU @ 9:00AM, ND Injection Tree, NU Weatherford BOP, RU Workfloor, POOH W/ 124 Jts, PU 6- Jts, TIH W/ Tbg To Retreive RBP @ 4064', RU H/ Oiler To Csg, Circulated Sand From Plg, Released RBP, POOH W/ 130 Jts, MU & TIH W/ 4' PKR Stinger, 2 3/8" XN Nipple, 2 7/8"x 2 3/8" X-Over, PU 22- Jts..SWIFN.. 7:00PM To 7:30PM C/ Travl - 5:30AM To 6:00AM C/ Travl; OWU @ 6:00AM, MU "XN" Injection PKR, TIH W/ 130- Jts,1- 2' Tbg Sub, RU H/ Oiler To Tbg, Pumped 10 BW, RU & RIH W/ Sandline To Seat Stnd Valv, Filled Tbg W/ 20BW, RU Isolation T, Pressured Tbg To 3000psi, No Pressure Loss In 60 Min, GOOD TEST, RU & RIH W/ Sandline W/ Overshot, Retreived Stnd Valv, RU H/ Oiler To Csg, Pumped 70BW Of Fresh Wtr W/ PKR Fluid, Inserted Stinger Into PKR @ 4720', Pulled 13" Stretch To Set Injection PKR @ 4036' (CE @ 4031.70') W/ 1500# Of Tension, RD WorkFloor, ND Weatherford BOP, NU Injection Tree, H/ Oiler Filled Csg W/ 10BW, Pressured Up Csg To 1500psi, 20psi Loss In 30 Min, Repressured Csg To 1550psi, No Loss In Pressure In 60 Min, RDSU¿5:30PM To 6:00PM C/ Travl¿.. GOOD TEST¿READY FOR MIT - 5:30AM To 6:00AM C/ Travl; OWU @ 6:00AM, MU "XN" Injection PKR, TIH W/ 130- Jts,1- 2' Tbg Sub, RU H/ Oiler To Tbg, Pumped 10 BW, RU & RIH W/ Sandline To Seat Stnd Valv, Filled Tbg W/ 20BW, RU Isolation T, Pressured Tbg To 3000psi, No Pressure Loss In 60 Min, GOOD TEST, RU & RIH W/ Sandline W/ Overshot, Retreived Stnd Valv, RU H/ Oiler To Csg, Pumped 70BW Of Fresh Wtr W/ PKR Fluid, Inserted Stinger Into PKR @ 4720', Pulled 13" Stretch To Set Injection PKR @ 4036' (CE @ 4031.70') W/ 1500# Of Tension, RD WorkFloor, ND Weatherford BOP, NU Injection Tree, H/ Oiler Filled Csg W/ 10BW, Pressured Up Csg To 1500psi, 20psi Loss In 30 Min, Repressured Csg To 1550psi, No Loss In Pressure In 60 Min, RDSU¿5:30PM To 6:00PM C/ Travl¿.. GOOD TEST¿READY FOR MIT **Finalized**

Daily Cost: $0

Cumulative Cost: $34,374

9/19/2012 Day: 6 **CBL and Possible Cement Squeeze**

Rigless on 9/19/2012 - Conduct MIT - On 09/12/2012 Chris Jensen with the State of Utah was contacted concerning the MIT on the above listed well. On 09/13/2012 the csg was pressured up to 1720 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 10 psig during the test. There was not a State representative available to witness the test. - On 09/12/2012 Chris Jensen with the State of Utah was contacted concerning the MIT on the above listed well. On 09/13/2012 the csg was pressured up to 1720 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 10 psig during the test. There was not a State representative available to witness the test. - On 09/12/2012 Chris Jensen with the State of Utah was contacted concerning the MIT on the above listed well. On 09/13/2012 the csg was pressured up to 1720 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 10 psig during the test. There was not a State representative available to witness the test. **Finalized**

Daily Cost: $0

Cumulative Cost: $50,282

Pertinent Files: Go to File List

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: U-64805

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)

1. TYPE OF WELL Water Injection Well

8. WELL NAME and NUMBER: FEDERAL 21-13Y

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

9. API NUMBER: 43013314000000

3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052

PHONE NUMBER: 435 646-4825 Ext

9. FIELD and POOL or WILDCAT: MONUMENT BUTTE

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0703 FNL 1830 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 13 Township: 09.0S Range: 16.0E Meridian: S

COUNTY: DUCHESNE

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
✓ SUBSEQUENT REPORT Date of Work Completion: 1/21/2013	✓ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	✓ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Put on Injection

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above reference well was put on injection at 11:30 AM on 01/21/2013.

Accepted by the Utah Division of Oil, Gas and Mining

Date: February 14, 2013

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Lucy Chavez-Naupoto	435 646-4874	Water Services Technician
SIGNATURE N/A		**DATE** 1/22/2013

RECEIVED: Jan. 22, 2013

NEWFIELD
ROCKY MOUNTAINS

December 13, 2011

Mr. Mark Reinbold
State of Utah
Division of Oil, Gas and Mining
1594 W North Temple
Salt Lake City, Utah 84114-5801

RE: Permit Application for Water Injection Well
Federal #21-13Y-9-16
Monument Butte Field, Lease #UTU-64805
Section 13-Township 9S-Range 16E
Duchesne County, Utah

Dear Mr. Reinbold:

Newfield Production Company herein requests approval to convert the Federal #21-13Y-9-16 from a producing oil well to a water injection well in the Monument Butte (Green River) Field.

I hope you find this application complete; however, if you have any questions or require additional information, please contact me at (303) 893-0102.

Sincerely,

Eric Sundberg
Regulatory Lead

RECEIVED
DEC 16 2011
DIV. OF OIL, GAS & MINING

1001 17th Street, Suite 2000 Denver, CO 80202 (303) 893-0102 Fax (303) 893-0103

NEWFIELD PRODUCTION COMPANY

APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL

FEDERAL #21-13Y-9-16

MONUMENT BUTTE FIELD (GREEN RIVER) FIELD

LEASE #UTU-64805

DECEMBER 13, 2011

TABLE OF CONTENTS

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR Newfield Production Company
ADDRESS 1001 17th Street, Suite 2000
Denver, Colorado 80202

Well Name and number: Federal #21-13Y-9-16
Field or Unit name: Monument Butte (Green River) Lease No. UTU-64805
Well Location: QQ NENW section 13 township 9S range 16E county Duchesne

Is this application for expansion of an existing project? . . . . . Yes [X] No [ ]
Will the proposed well be used for: Enhanced Recovery? . . . . . Yes [X] No [ ]
Disposal? . . . . . Yes [ ] No [X]
Storage? . . . . . Yes [ ] No [X]
Is this application for a new well to be drilled? . . . . . Yes [ ] No [X]
If this application is for an existing well,
has a casing test been performed on the well? . . . . . Yes [ ] No [X]
Date of test:
API number: 43-013-31400

Proposed injection interval: from 3882 to 5888
Proposed maximum injection: rate 500 bpd pressure 1772 psig
Proposed injection zone contains [x] oil, [ ] gas, and/or [ ] fresh water within 1/2 mile of the well.

IMPORTANT: Additional information as required by R615-5-2 should accompany this form.

List of Attachments: Attachments "A" through "H-1"

I certify that this report is true and complete to the best of my knowledge.

Name: Eric Sundberg Signature
Title Regulatory Lead Date 1/3/12
Phone No. (303) 893-0102

(State use only)
Application approved by Title
Approval Date

Comments:

Federal #21-13Y-9-16

Spud Date: 8/13/1993
Put on Production: 9/16/1993
GL: 5535' KB: 5545'

Proposed Injection
Wellbore Diagram

Initial Production: 84 BOPD,
126 MCFD, 7 BWPD

SURFACE CASING

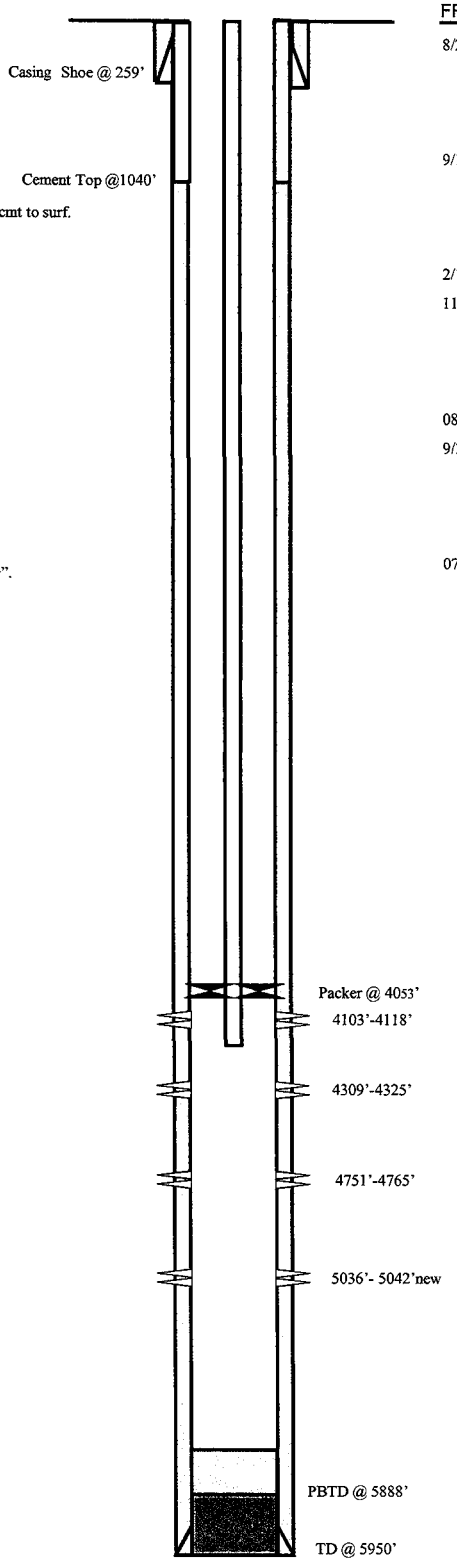
CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 6 jts. (275')
DEPTH LANDED: 259'
HOLE SIZE:12-1/4"
CEMENT DATA: 150 sxs Premium Plus cement, est 6 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: K-55
WEIGHT: 15.5#
LENGTH: 139 jts. (5945.72')
DEPTH LANDED: 5940.72'
HOLE SIZE: 7-7/8"
CEMENT DATA: 145 sxs Hilift cement & 325 sxs Class "G".
CEMENT TOP AT: 1040' per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 163 jts (5043.8')
TUBING ANCHOR: 5057'
NO. OF JOINTS: 2 jt (62.9')
SEATING NIPPLE: 5119.4'
NO. OF JOINTS: 2 jt (61.5')
TOTAL STRING LENGTH: EOT @ 5182' KB



FRAC JOB

8/28/93	4751'-4765'	**Frac as follows:** 20,140# 20/40 sand & 15,380# 16/30 sand in 371 bbls gelled KCL frac fluid. Treated @ avg press of 1900 psi w/avg rate of 20 BPM. ISIP 1850 psi.
9/1/93	4309'-4325'	**Frac as follows:** 33,600# 16/30 sand in 377 bbls gelled KCL frac fluid. Treated @ avg press of 2050 psi w/avg. rate of 24.5 BPM. ISIP 1800 psi.
2/14/01		Tubing job. Update Rod and tubing details.
11/17/05	4103-4118	**Frac GB6 sds as follows:** 55,211# 20/40 sand in 439 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 1870 w/ ave rate of 25.2 bpm w/ 8 ppg of sand. ISIP was 2150. Actual flush: 4032 gals
08/29/08		Recompletion. Rod & Tubing detail updated.
9/3/08	5036-5042	**Frac A1 sds as follows:** 16,591# 20/40 sand in 238 bbls of Lightning 17 fluid. Treated w/ ave pressure of 3442 psi @ ave rate of 13.1BPM. ISIP 1962 psi. Actual flush: 1218 gals.
07/25/10		Tubing Leak. Rod & Tubing detail updated.

PERFORATION RECORD

8/26/93	4751'-4765'	2 JSPF	28 holes
8/31/93	4309'-4325'	2 JSPF	32 holes
11/17/05	4103-4118'	40 JSPF	60 holes
9/3/08	5036-5042'	4 JSPF	24 holes new

NEWFIELD

Federal #21-13Y-9-16
702' FNL & 1830' FWL
NENW Section 13-T9S-R16E
Duchesne Co, Utah
API #43-013-31400; Lease #UTU-64805

JL 11/7/2011

WORK PROCEDURE FOR INJECTION CONVERSION

1. Rig up hot oil truck to casing. Pump water. Unseat pump. Flush rods. Trip out of hole with rods and pump.

2. Trip out of hole with tubing, breaking and doping every connection. Trip in hole with packer and tubing. Rig up water truck to casing. Pump packer fluid. Set packer.

3. Test casing and packer.

4. Rig down and move out.

REQUIREMENTS FOR INJECTION OF FLUIDS INTO RESERVOIRS
RULE R615-5-1

1. **Operations to increase ultimate recovery, such as cycling of gas, the maintenance of pressure, the introduction of gas, water or other substances into a reservoir for the purpose of secondary or other enhanced recovery or for storage and the injection of water into any formation for the purpose of water disposal shall be permitted only by order of the Board after notice and hearing.**

2. **A request for agency action for authority for the injection of gas, liquified petroleum gas, air, water or any other medium into any formation for any reason, including but not necessarily limited to the establishment of or the expansion of waterflood projects, enhanced recovery projects, and pressure maintenance projects shall contain:**

   2.1 The name and address of the operator of the project.

   Newfield Production Company
   1001 17th Street, Suite 2000
   Denver, Colorado 80202

   2.2 A plat showing the area involved and identifying all wells, including all proposed injection wells, in the project area and within one-half mile of the project area.

   See Attachment A.

   2.3 A full description of the particular operation for approval is requested.

   Approval is requested to convert the Federal #21-13Y-9-16 from a producing oil well to a water injection well in Monument Butte (Green River) Field.

   2.4 A description of the pools from which the identified wells are producing or have produced.

   The proposed injection well will inject into the Green River Formation.

   2.5 The names, description and depth of the pool or pools to be affected.

   The injection zone is in the Green River Formation. For the Federal #21-13Y-9-16 well, the proposed injection zone is from Garden Gulch to Basal Carbonate (3882' - 5888'). The confining strata directly above and below the injection zones are the Garden Gulch and the top of the Wasatch Formation or TD, which ever is shallower. The Garden Gulch Marker top is at 3563' and the TD is at 5950'.

   2.6 A copy of a log of a representative well completed in the pool.

   The referenced log for the Federal #21-13Y-9-16 is on file with the Utah Division of Oil, Gas and Mining.

2.7 A statement as to the type of fluid to be used for injection, its source and the estimated amounts to be injected daily.

The primary type and source of fluid to be used for injection will be culinary water commingled with produced water. The average estimated injection of fluids will be at a rate of 300 BPD, and the estimated maximum injection will be at a rate of 500 BPD.

2.8 A list of all operators and surface owners within one-half mile radius of the proposed project.

See Attachment B.

2.9 An affidavit certifying that said operators or owners and surface owners within a one-half mile radius have been provided a copy of the petition for injection.

See Attachment C.

2.10 Any additional information the Board may determine is necessary to adequately review the petition.

Newfield Production Company will supply any additional information requested by the Utah Division of Oil, Gas and Mining.

4.0 Establish recovery projects may be expanded and additional wells placed on injection only upon authority from the Board after notice and hearing or by administrative approval.

This proposed injection well is on a Federal lease (Lease #UTU-64805) in the Monument Butte Federal (Green River) Field, and this request is for administrative approval.

REQUIREMENTS FOR CLASS II INJECTION WELLS INCLUDING WATER DISPOSAL, STORAGE AND ENHANCED RECOVERY WELLS
SECTION V – RULE R615-5-2

1. **Injection well shall be completed, equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.**

2. **The application for an injection well shall include a properly completed Form DOGM-UIC-1 and the following:**

   2.1 **A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed wells, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.**

   See Attachments A and B.

   2.2 **Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper and porosity.**

   All logs are on file with the Utah Division of Oil, Gas and Mining.

   2.3 **A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.**

   A copy of the cement bond log is on file with the Utah Division of Oil, Gas and Mining.

   2.4 **Copies of logs already on file with the Division should be referenced, but need not be refiled.**

   All copies of logs are on file with the Utah Division of Oil, Gas and Mining.

   2.5 **A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.**

   The casing program is 8-5/8", 24# surface casing run to 259' KB, and 5-1/2", 15.5# casing run from surface to 5941' KB. A casing integrity test will be conducted at the time of conversion. See Attachment E.

   2.6 **A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.**

   The primary type and source of fluid to be used for injection will be culinary water commingled with produced water. The estimated average rate of injection will be 300 BPD, and the estimated maximum rate of injection will be 500 BPD.

   2.7 **Standard laboratory analysis of the fluid to be injected, the fluid in the formation into which the fluid is being injected, and the compatibility of the fluids.**

   See Attachment F.

The proposed average and maximum injection pressures.

The proposed average injection pressure will be approximately 1100 psig and the maximum injection pressure will not exceed 1772 psig.

2.8 Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.

The minimum fracture gradient for the Federal #21-13Y-9-16, for existing perforations (4103' - 5042') calculates at 0.85 psig/ft. The maximum injection pressures will be limited so as not to exceed this gradient. A step rate test will be performed periodically to ensure we are below parting pressure. The proposed maximum injection pressure is 1772 psig. We may add additional perforations between 3563' and 5950'. See Attachments G and G-1.

2.9 Appropriate geological data on the injection interval and confining beds, including the geologic name, lithologic description, thickness, depth, and lateral extent.

In the Federal #21-13Y-9-16, the proposed injection zone (3882' - 5888') is in the Garden Gulch to the Basal Carbonate of the Green River Formation. The reservoir is a very fine-grained sandstone with minor imbedded shale streaks. The estimated porosity is 13%. The members are composed of porous and permeable lenticular calcareous sandstone and low porosity carbonates and calcareous shale. The porous and lenticular sandstone varies in thickness from 0-31' and is confined to the Monument Butte Federal Field. Outside the Monument Butte Federal Field, the sandstone is composed of tight, very fine, silty, calcareous sandstone, less than 3' thick. The stratum confining the injection zone is composed of tight, moderately calcareous, sandy lacustrine shale. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

2.10 A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter the improper intervals.

See Attachments E through E-12.

Additionally, the injection system will be equipped with high and low pressure shut down devices that will automatically shut in injection waters if a system blockage or leakage occurs. One way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure relief.

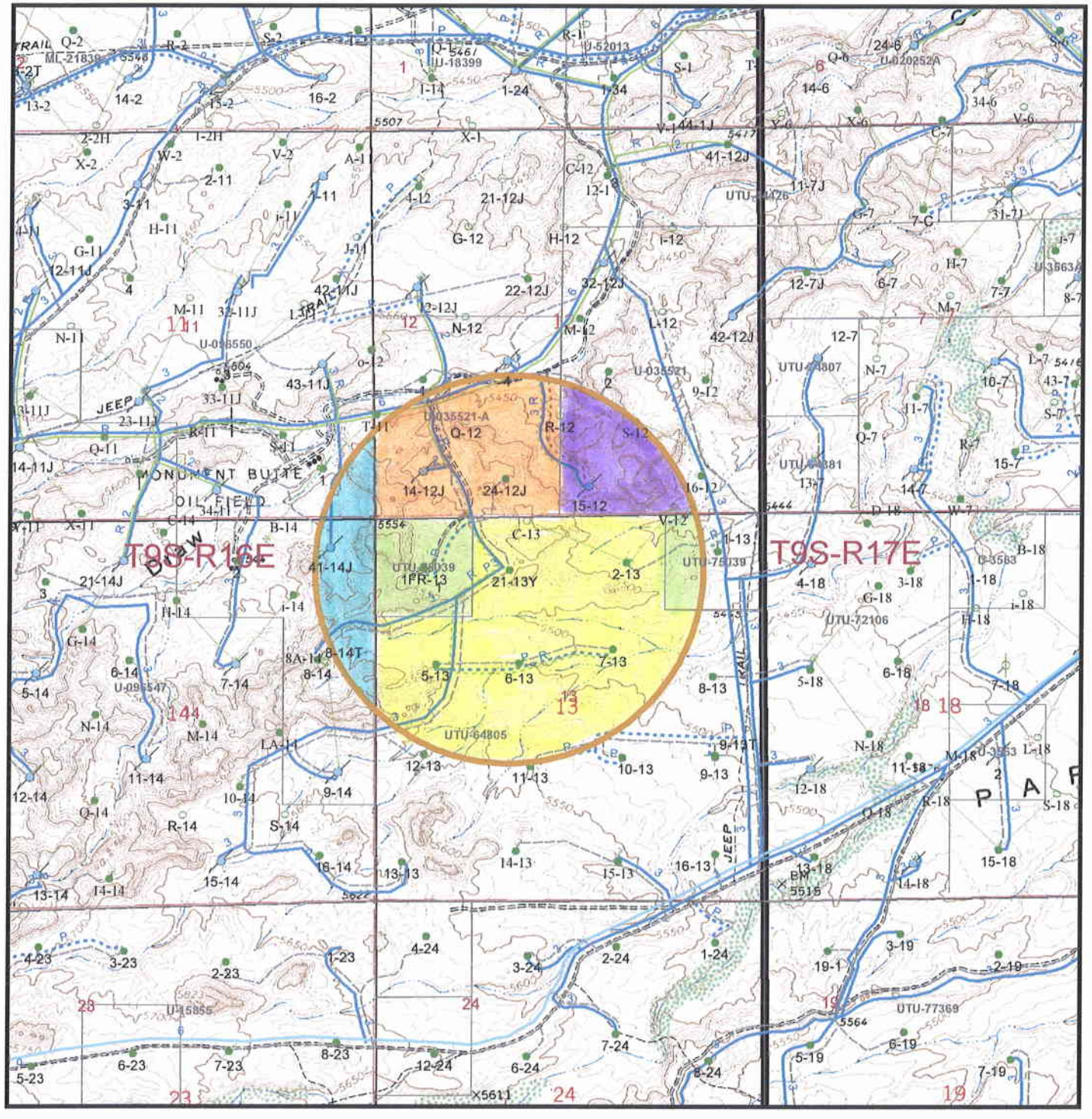
2.11 An affidavit certifying that a copy of the application has been provided to all operators or owners, and surface owners within a one-half mile radius of the proposed injection well.

See Attachment C.

2.12 Any other information that the Board or Division may determine is necessary to adequately review the application.

Newfield Production Company will supply any requested information to the Board or Division.

ATTACHMENT A



WellStatus_HalfMile_Buffer

Well Status
- Location
- CTI
- Surface Spud
- Drilling
- Waiting on Completion
- Producing Oil Well
- Producing Gas Well
- Water Injection Well
- Dry Hole
- Temporarily Abandoned
- Plugged & Abandoned
- Shut In
- Countyline

Injection system
- high pressure
- low pressure
- proposed
- return
- return proposed

Leases

Mining tracts

UTU-64805

UTU-75039

UTU-096550

UTU-035521-A

UTU-035521

Federal 21-13Y
Section 13, T9S-R16E

NEWFIELD
ROCKY MOUNTAINS

N

1" = 2000'

1/2 Mile Radius Map

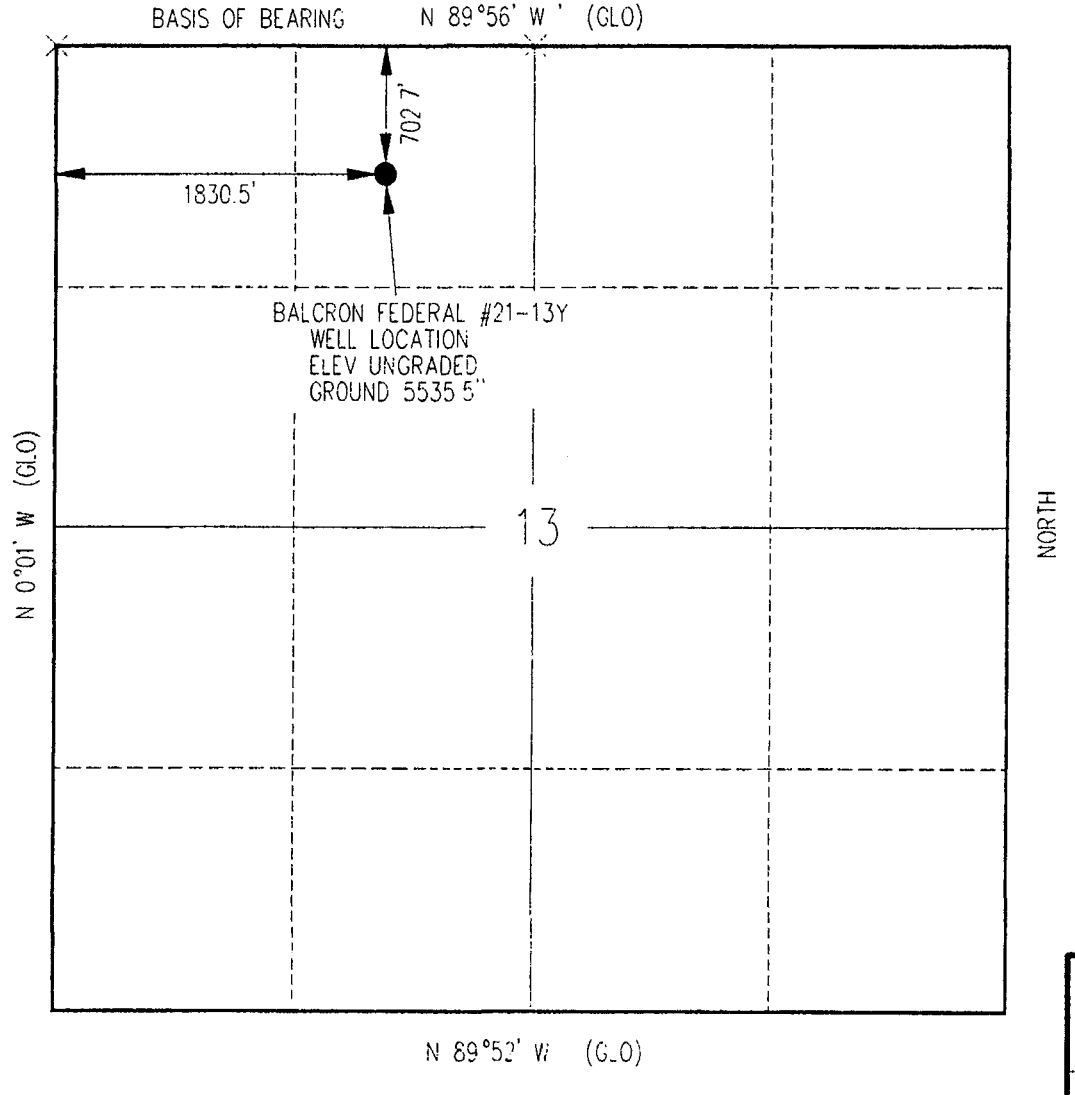
Duchesne & Uintah Counties

1001 17th Street Suite 2000
Denver, Colorado 80202
Phone: (303) 893-0102

Oct 10, 2011

ATTACHMENT A-1

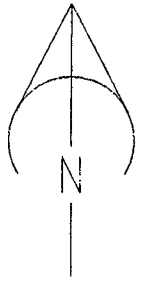
T9S, R16E, S.L.B. & M.



X = SECTION CORNERS LOCATED
BASIS OF BEARINGS; G.L.O PLAT 1911
BASIS OF ELEV: U.S.G.S 7-1/2 min QUAD (MYTON SE)

EQUITABLE RESOURCES ENERGY CO.

WELL LOCATION, BALCRON FEDERAL #21-13Y, LOCATED AS SHOWN IN THE NE 1/4 NW 1/4 OF SECTION 13 , T9S, R16E, S.L.B. & M, DUCHESNE COUNTY UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION, AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 3154
STATE OF UTAH

TRI STATE LAND SURVEYING & CONSULTING
38 EAST 100 NORTH, VERNAL, UTAH 84078
(801) 781-2501

SCALE: 1" = 1000'	SURVEYED BY: SS JC
DATE: 4/30/93	WEATHER: CLEAR & WARM
NOTES:	FILE #: #21-13Y

EXHIBIT G

EXHIBIT B

#	Legal Description	Lessor & Expiration	Lessee & Operating Rights	Surface Owner
1	T9S-R16E SLM Section 13: NWNE, NENW, S2N2, S2	USA UTU-64805 HBP	ABO Petroleum Corp Myco Industries Inc Newfield Production Co Newfield RMI LLC OXY Y-1 Company Yates Petroleum Corp	USA
2	T9S-R16E SLM Section 13: NENE, NWNW	USA UTU-75039 HBP	ABO Petroleum Corp Myco Industries Inc Newfield Production Co Newfield RMI LLC OXY Y-1 Company Yates Petroleum Corp	USA
3	T9S-R16E SLM Section 11: E2, NW, NESW Section 12: NW Section 14: N2NE, SENE, NESE	USA UTU-096550 HBP	ABO Petroleum Corp Myco Industries Inc Newfield Production Co Newfield RMI LLC OXY Y-1 Company Yates Petroleum Corp	USA
4	T9S-R16E SLM Section 12: SW	USA UTU-035521-A HBP	ABO Petroleum Corp Myco Industries Inc Newfield Production Co Newfield RMI LLC OXY Y-1 Company Yates Petroleum Corp Field Carl B Montana & Wyoming Oil Co Vaughey & Vaughey Warne Bonnie B Warne John R	USA

5	T9S-R16E SLM Section 12: S2NE, SE	USA UTU-035521 HBP	ABO Petroleum Corp Myco Industries Inc Newfield Production Co Newfield RMI LLC OXY Y-1 Company Yates Petroleum Corp Field Carl B Montana & Wyoming Oil Co Vaughey & Vaughey Warne Bonnie B Warne John R	USA

ATTACHMENT C

CERTIFICATION FOR SURFACE OWNER NOTIFICATION

RE: Application for Approval of Class II Injection Well
Federal #21-13Y-9-16

I hereby certify that a copy of the injection application has been provided to all surface owners within a one-half mile radius of the proposed injection well.

Signed: _____
Newfield Production Company
Eric Sundberg
Regulatory Lead

Sworn to and subscribed before me this 13th day of December, 2011.

Notary Public in and for the State of Colorado: Candice L. Twitty

My Commission Expires: My Commission Expires 02/10/2013

CANDICE L. TWITTY NOTARY PUBLIC STATE OF COLORADO MY COMMISSION EXPIRES 2/10/2013

ATTACHMENT E

Federal #21-13Y-9-16

Spud Date: 8/13/1993
Put on Production: 9/16/1993
GL: 5535' KB: 5545'

Wellbore Diagram

Initial Production: 84 BOPD, 126 MCFD, 7 BWPD

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 6 jts. (275')
HOLE SIZE:12-1/4"
CEMENT DATA: 150 sxs Premium Plus cement, est 6 bbls cmt to surf.

PRODUCTION CASING

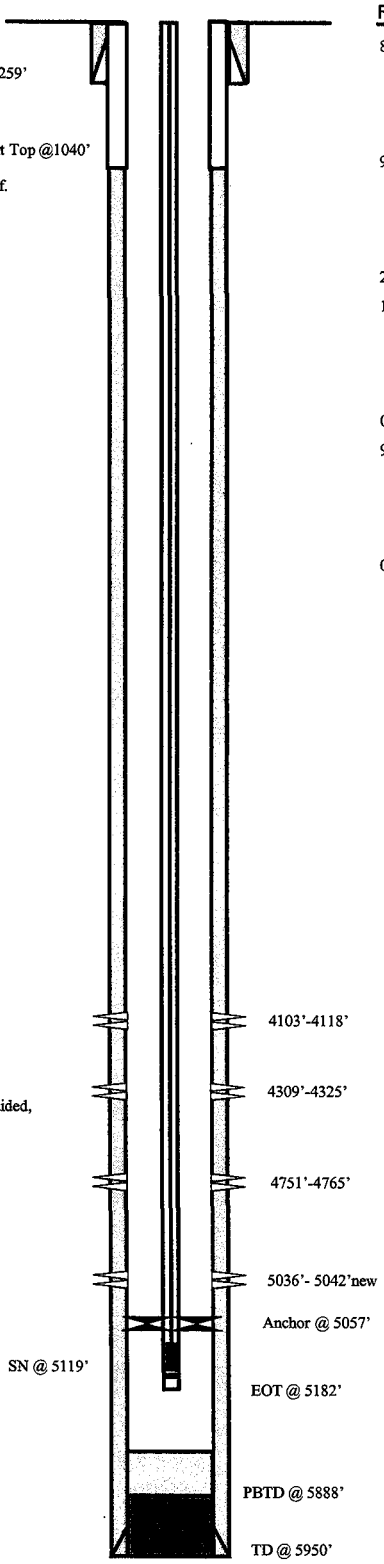
CSG SIZE: 5-1/2"
GRADE: K-55
WEIGHT: 15.5#
LENGTH: 139 jts. (5945.72')
DEPTH LANDED: 5940.72'
HOLE SIZE: 7-7/8"
CEMENT DATA: 145 sxs Hilift cement & 325 sxs Class "G".
CEMENT TOP AT: 1040' per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 163 jts (5043.8')
TUBING ANCHOR: 5057'
NO. OF JOINTS: 2 jt (62.9')
SEATING NIPPLE: 5119.4'
NO. OF JOINTS: 2 jt (61.5')
TOTAL STRING LENGTH: EOT @ 5182' KB

SUCKER RODS

POLISHED ROD: 1-1/4" x 26' SM
SUCKER RODS: 6-1 1/2" sinker bars; 98-3/4" guided rods; 100-3/4" guided, 1-2' x 7/8" pony rods.
PUMP SIZE: 2-1/2" x 1-1/2" x 20' RHAC
STROKE LENGTH: 64"
PUMP SPEED, SPM: 4 SPM
LOGS: DIGL/SP/GR/CAL



FRAC JOB

8/28/93	4751'-4765'	**Frac as follows:** 20,140# 20/40 sand & 15,380# 16/30 sand in 371 bbls gelled KCL frac fluid. Treated @ avg press of 1900 psi w/avg rate of 20 BPM. ISIP 1850 psi.
9/1/93	4309'-4325'	**Frac as follows:** 33,600# 16/30 sand in 377 bbls gelled KCL frac fluid. Treated @ avg press of 2050 psi w/avg. rate of 24.5 BPM. ISIP 1800 psi.
2/14/01		Tubing job. Update Rod and tubing details.
11/17/05	4103-4118	**Frac GB6 sds as follows:** 55,211# 20/40 sand in 439 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 1870 w/ ave rate of 25.2 bpm w/ 8 ppg of sand. ISIP was 2150. Actual flush: 4032 gals
08/29/08		Recompletion. Rod & Tubing detail updated.
9/3/08	5036-5042	**Frac A1 sds as follows:** 16,591# 20/40 sand in 238 bbls of Lightning 17 fluid. Treated w/ ave pressure of 3442 psi @ ave rate of 13.1BPM. ISIP 1962 psi. Actual flush: 1218 gals.
07/25/10		Tubing Leak. Rod & Tubing detail updated.

PERFORATION RECORD

8/26/93	4751'-4765'	2 JSPF	28 holes
8/31/93	4309'-4325'	2 JSPF	32 holes
11/17/05	4103-4118'	40 JSPF	60 holes
9/3/08	5036-5042'	4 JSPF	24 holes new

NEWFIELD

Federal #21-13Y-9-16
702' FNL & 1830' FWL
NENW Section 13-T9S-R16E
Duchesne Co, Utah
API #43-013-31400; Lease #UTU-64805

TW 09/21/10

ATTACHMENT E-1

Federal 1-13-9-16

Spud Date:08/08/05
Put on Production: 11/03/05
GL: 5459' KB: 5471'

Wellbore Diagram

Initial Production: BOPD, MCFD, BWPD

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts. (301.91')
DEPTH LANDED: 313.76' KB
HOLE SIZE:12-1/4"
CEMENT DATA: 160 sxs Class "G" cmt, est 4 bbls cmt to surf.

PRODUCTION CASING

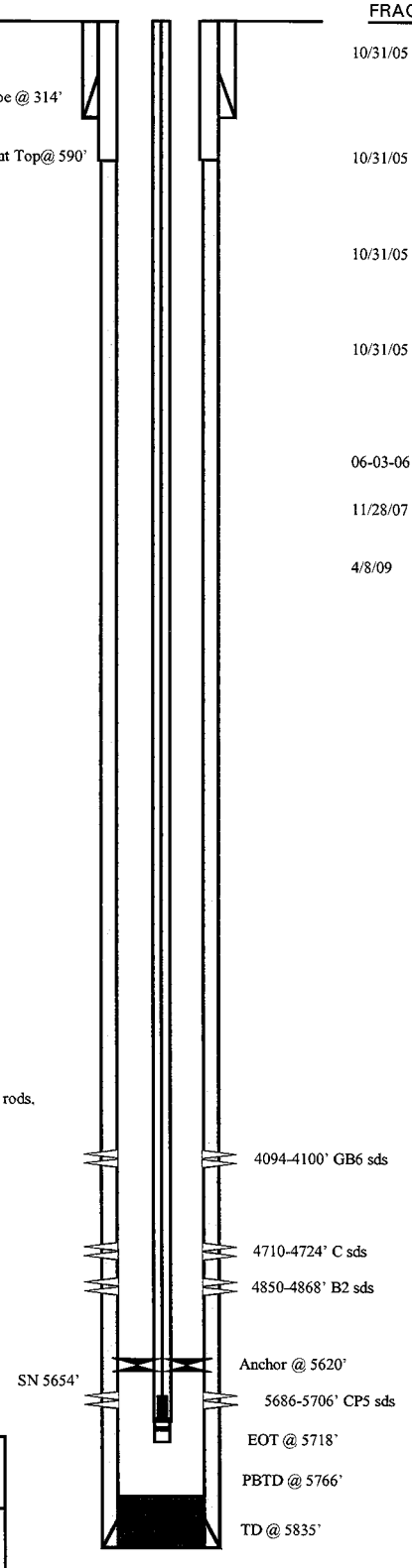
CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 133 jts. (5798.07')
DEPTH LANDED: 5811.32' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 350 sxs Prem. Lite II mixed & 475 sxs 50/50 POZ.
CEMENT TOP: 590'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 180 jts (5609.88')
TUBING ANCHOR: 5619.88' KB
NO. OF JOINTS: 1 jts (31.42')
SEATING NIPPLE: 2-7/8" (1.10')
SN LANDED AT: 5654.10' KB
NO. OF JOINTS: 2 jts (62.55')
TOTAL STRING LENGTH: EOT @ 5718.20' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM
SUCKER RODS: 1-4'x ¾" pony rod, 100-3/4" guided rods, 90-3/4" slick rods, 30-3/4" guided rods, 6-1 ½" weight rods.
PUMP SIZE: CDI 2-1/2" x 1-1/2" x 14' x 18' RHAC
STROKE LENGTH: 86"
PUMP SPEED, 5 SPM:



FRAC JOB

10/31/05	5686-5706'	**Frac CP5 sands as follows:** 89079# 20/40 sand in 688 bbls Lightning 17 frac fluid. Treated @ avg press of 1303 psi w/avg rate of 24.8 BPM. ISIP 1900 psi. Calc flush: 5684 gal. Actual flush: 5431 gal.
10/31/05	4850-4868'	**Frac B2 sands as follows:** 69180# 20/40 sand in 542 bbls Lightning 17 frac fluid. Treated @ avg press of 1759 psi w/avg rate of 24.7 BPM. ISIP 2400 psi. Calc flush: 4848 gal. Actual flush: 4633 gal.
10/31/05	4710-4724'	**Frac C sands as follows:** 98861# 20/40 sand in 710 bbls Lightning 17 frac fluid. Treated @ avg press of 1550 psi w/avg rate of 24.7 BPM. ISIP 2000 psi. Calc flush: 4708 gal. Actual flush: 4507 gal.
10/31/05	4094-4100'	**Frac GB6 sands as follows:** 33229# 20/40 sand in 346 bbls Lightning 17 frac fluid. Treated @ avg press of 1858 psi w/avg rate of 24.7 BPM. ISIP 2000 psi. Calc flush: 4092 gal. Actual flush: 3935 gal.
06-03-06		Pump Change: Tubing & Rod Detail Updated
11/28/07		**Pump Change**: Updated tubing & rod detail
4/8/09		Parted rods. Updated r & t details.

PERFORATION RECORD

10/24/05	5686-5706'	4 JSPF	80 holes
10/31/05	4850-4868'	4 JSPF	72 holes
10/31/05	4710-4724'	4 JSPF	56 holes
10/31/05	4094-4100'	4 JSPF	24 holes

NEWFIELD

Federal 1-13-9-16

487' FNL & 612' FEL

NE/NE Section 13-T9S-R16E

Duchesne Co, Utah

API #43-013-32660; Lease #UTU-75039

DF 6/16/09

Attachment E-2

Federal 2-13-9-16

Spud Date: 10-13-05
Put on Production: 11-30-05

GL: 5472' KB: 5484'

Wellbore Diagram

Initial Production: BOPD, MCFD, BWPD

SURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 jts (301.06')

DEPTH LANDED: 312.91' KB

HOLE SIZE:12-1/4"

CEMENT DATA: 160 sxs Class "G" cmt, est 7 bbls cmt to surf.

Cement top @ 60'

PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 139 jts. (5815.48')

DEPTH LANDED: 5828.73' KB

HOLE SIZE: 7-7/8"

CEMENT DATA: 350 sxs Prem. Lite II mixed & 475 sxs 50/50 POZ.

CEMENT TOP AT: 60'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55

NO. OF JOINTS: 155 jts (4930.08')

TUBING ANCHOR: 4940.08'

NO. OF JOINTS: 1 jts (31.54')

SEATING NIPPLE: 2-7/8" (1.10')

SN LANDED AT: 4974.42'

NO. OF JOINTS: 2 jts (62.53')

TOTAL STRING LENGTH: EOT @ 5038.50'

SUCKER RODS

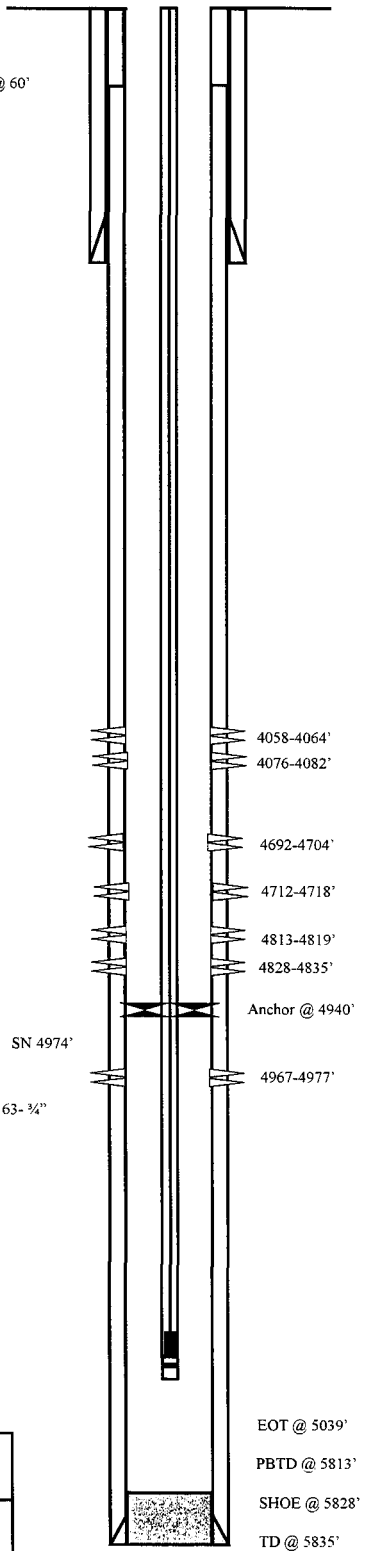
POLISHED ROD: 1-1/2" x 22' SM

SUCKER RODS: 1-6' & 1-2' X ¾" pony rods, 99- ¾" scrapered rods, 63- ¾" plain rods, 30- ¾" scrapered rods, 6-1 ½" weight rods.

PUMP SIZE: 2-1/2" x 1-1/2" x 14 ½' RHAC w/SM plunger

STROKE LENGTH: 86"

PUMP SPEED, SPM: 5 SPM



FRAC JOB

11-21-05	4967-4977'	**Frac A1 sands as follows:** 24275# 20/40 sand in 313 bbls Lightning 17 frac fluid. Treated @ avg press of 1933 psi w/avg rate of 24.7 BPM. ISIP 2000 psi. Calc flush: 4965 gal. Actual flush: 4691 gal.
11-21-05	4813-4835'	**Frac B1 sands as follows:** 59177# 20/40 sand in 474 bbls Lightning 17 frac fluid. Treated @ avg press of 1679 psi w/avg rate of 24.7 BPM. ISIP 2250 psi. Calc flush: 4811 gal. Actual flush: 4599 gal.
11-22-05	4692-4718'	**Frac C sands as follows:** 59763# 20/40 sand in 470 bbls Lightning 17 frac fluid. Treated @ avg press of 1550 psi w/avg rate of 24.7 BPM. ISIP 2000 psi. Calc flush: 4690 gal. Actual flush: 4032 gal.
11-22-05	4058-4082'	**Frac GB6 sands as follows:** 31561# 20/40 sand in 335 bbls Lightning 17 frac fluid. Treated @ avg press of 1827 w/ avg rate of 24.7 BPM. ISIP 1800 psi. Calc flush: 4056 gal. Actual flush: 3948 gal.
11-30-07		Tubing Leak. Updated rod & tubing details.

PERFORATION RECORD

11-14-05	4967-4977'	4 JSPF	40 holes
11-21-05	4828-4835'	4 JSPF	28 holes
11-21-05	4813-4819'	4 JSPF	24 holes
11-22-05	4712-4718'	4 JSPF	24 holes
11-22-05	4692-4704'	4 JSPF	48 holes
11-22-05	4076-4082'	4 JSPF	24 holes
11-22-05	4058-4064'	4 JSPF	24 holes

NEWFIELD

Federal 2-13-9-16

626' FNL & 1847' FEL

NW/NE Section 13-T9S-R16E

Duchesne Co, Utah

API #43-013-32659; Lease #UTU-64805

DF 1/21/08

ATTACHMENT E-3

Federal 5-13-9-16

Wellbore Diagram

Spud Date:09/22/05
Put on Production: 11/08/05
GL: 5538' KB: 5550'

Initial Production: BOPD, MCFD, BWPD

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts. (301.7')
DEPTH LANDED: 312.6' KB
HOLE SIZE:12-1/4"
CEMENT DATA: 160 sxs Class "G" cmt, est 4 bbls cmt to surf.

PRODUCTION CASING

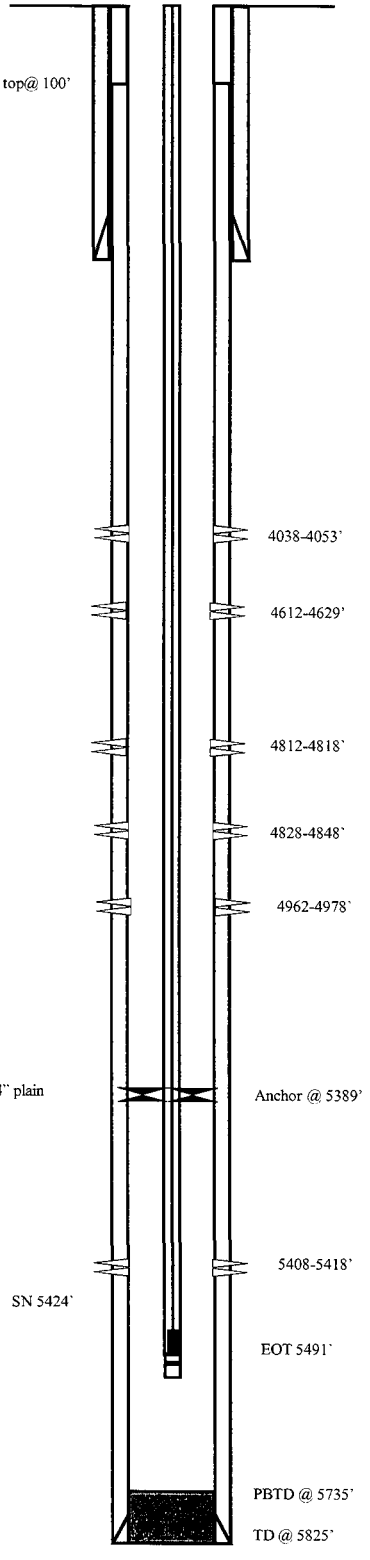
CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 135 jts. (5802.05')
DEPTH LANDED: 5801.3' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 300 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.
CEMENT TOP: 100'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 165jts (5377.30')
TUBING ANCHOR: 5389.30' KB
NO. OF JOINTS: 1 jts (32.56')
SEATING NIPPLE: 2-7/8" (1.10')
SN LANDED AT: 5424.66' KB
NO. OF JOINTS: 2 jts (65.13')
TOTAL STRING LENGTH: EOT @ 5491.34' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM
SUCKER RODS: 1-4' x ¾" pony rod, 101-3/4" scrapered rods, 100-3/4" plain rods, 10-3/4" scrapered rods, 6-1 ½" weight rods.
PUMP SIZE: 2-1/2" x 1-1/2" x 15' RHAC w/SM plunger
STROKE LENGTH: 86"
PUMP SPEED,5 SPM:



FRAC JOB

11/01/05	5408-5418'	**Frac CP1 sands as follows:** 34070# 20/40 sand in 392 bbls Lightning 17 frac fluid. Treated @ avg press of 1933 psi w/avg rate of 24.7 BPM. ISIP 2200 psi. Calc flush: 5406 gal. Actual flush: 5124 gal.
11/01/05	4962-4978'	**FracA1 sands as follows:** 89150# 20/40 sand in 655 bbls Lightning 17 frac fluid. Treated @ avg press of 1591 psi w/avg rate of 24.7 BPM. ISIP 2100 psi. Calc flush: 4960 gal. Actual flush: 4746 gal.
11/04/05	4812-4848'	**Frac B1, B2 sands as follows:** 158872# 20/40 sand in 1078 bbls Lightning17 frac fluid. Treated @ avg press of 1550 psi w/avg rate of 24.7 BPM. ISIP 2000 psi. Calc flush: 4810 gal. Actual flush: 4582 gal.
11/02/05	4612-4629'	**Frac D2 sands as follows:** 29350# 20/40 sand in 344 bbls Lightning 17 frac fluid. Treated @ avg press of 1762 psi w/avg rate of 24.8 BPM. ISIP 2000 psi. Calc flush: 4610 gal. Actual flush: 4326 gal.
11/02/05	4038-4053'	**Frac GB6 sands as follows:** 83194# 20/40 sand in 585 bbls Lightning 17 frac fluid. Treated @ avg press of 1388 psi w/avg rate of 24.7 BPM. ISIP 1900 psi. Calc flush: 4036 gal. Actual flush: 3944 gal.
9/16/09		Pump Change. Updated rod & tubing details.

PERFORATION RECORD

11/01/05	5408-5418'	4 JSPF	40 holes
11/01/05	4962-4978'	4 JSPF	64 holes
11/01/05	4828-4848'	4 JSPF	80 holes
11/01/05	4812-4818'	4 JSPF	24 holes
11/02/05	4612-4629'	4 JSPF	68 holes
11/02/05	4038-4053'	4 JSPF	60 holes

NEWFIELD

Federal 5-13-9-16

1981' FNL & 820' FWL

SW/NW Section 13-T9S-R16E

Duchesne Co, Utah

API #43-013-32658; Lease #UTU-64805

DF 11/2/09

Attachment E-4

Federal 6-13-9-16

Wellbore Diagram

P & A

Spud Date: 9/26/2005
Put on Production:
GL: 5514' KB: 5526'

SURFACE CASING

CSG SIZE 8-5/8"
GRADE J-55
WEIGHT 24#
LENGTH 7 jts (303.52')
DEPTH LANDED 313.52'
HOLE SIZE 12-1/4"
CEMENT DATA 160 sxs Class "G" cmt, circ. 5.5 bbls to surf

PRODUCTION CASING

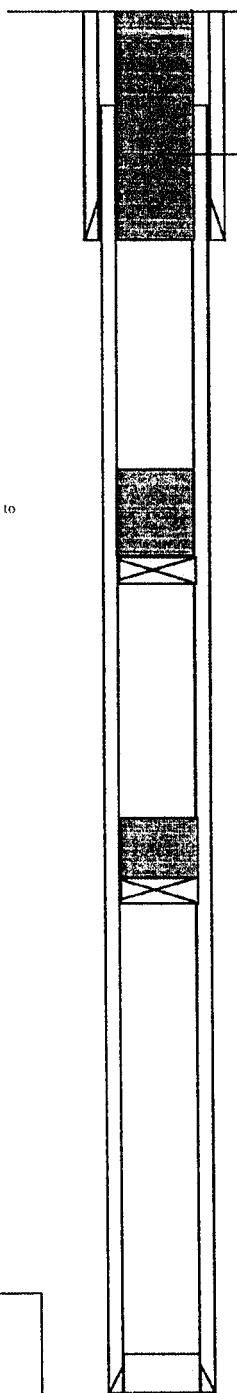
CSG SIZE 5-1/2"
GRADE J-55
WEIGHT 15.5#
LENGTH 132 jts. (5815.38')
DEPTH LANDED 5813.38'
HOLE SIZE 7-7/8"
CEMENT DATA 300 sxs Prem. Lite II & 450 sxs 50/50 POZ. 9 bbls to surf
CEMENT TOP AT No CBL run

TUBING

SIZE/GRADE/WT 2-7/8" / J-55 / 6.5#
NO. OF JOINTS jts (')
TUBING ANCHOR
NO. OF JOINTS 1 jts (')
SEATING NIPPLE 2-7/8" (1.1')
SN LANDED AT
NO. OF JOINTS jts (')
TOTAL STRING LENGTH EOT @

SUCKER RODS

POLISHED ROD
SUCKER RODS
PUMP SIZE
STROKE LENGTH
PUMP SPEED, SPM



Cement Plug 0'-314'
15.5 sxs Class G Cement

Plug # 2 - Green River TOC 1168'
50 sxs Class G Cement plug on top of CIBP
CIBP @ 1400'

Plug # 1 - Garden Gulch TOC @ 3355'
18 sxs Class G Cement plug on top of CIBP
CIBP @ 3510'

TD @ 5825'

FRAC JOB

03-2006	**Operations Suspended**
09/19/12	**P&A** – CIBP @ 3510" TOC @ 3355', CIBP @ 1400' TOC @ 1168, 15.5 sacks Class G cement down both casings to surface. Stoney Anderton w/ BLM witnessed the P&A. Weld plate, back fill hole, dig up deadmen & cut off 3' below ground level. South Slope Reclamation to do dirt work

PERFORATION RECORD

NEWFIELD

Federal 6-13-9-16
1794' FNL & 1960' FWL (SE/NW)
Section 13, T9S, R16E
Duchesne Co, Utah
API # 43-013-32657; Lease # UTU-64805

LCN 10/01/12

Attachment E-5

Federal 7-13-9-16

Spud Date: 09-26-05
Put on Production: 12-01-05

GL: 5549' KB: 5561'

Wellbore Diagram

Initial Production: BOPD, MCFD, BWPD

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts (301.02')
DEPTH LANDED: 311.92' KB
HOLE SIZE:12-1/4"
CEMENT DATA: 160 sxs Class "G" cmt, est 5.5 bbls cmt to surf.

PRODUCTION CASING

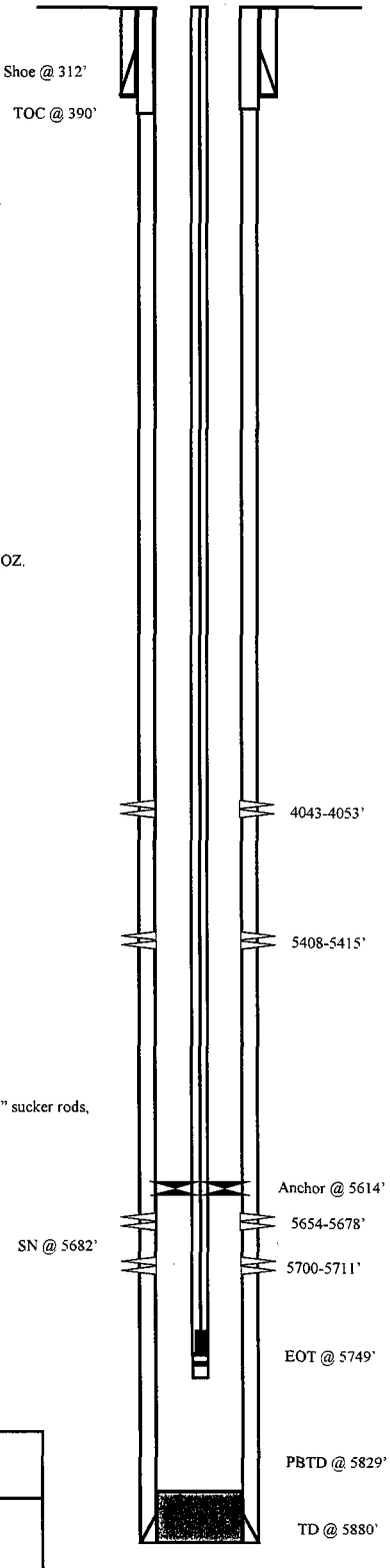
CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 134 jts. (5829.6')
DEPTH LANDED: 5875.35' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 300 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.
CEMENT TOP AT: 390'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 173 jts (5614.3')
TUBING ANCHOR: 5614' KB
NO. OF JOINTS: 2 jts (65.2')
SEATING NIPPLE: 2-7/8" (1.10')
SN LANDED AT: 5682' KB
NO. OF JOINTS: 2 jts (65.2')
TOTAL STRING LENGTH: EOT @ 5749' w/ 12' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM
SUCKER RODS: 1-2' X ¾" pony rods, 98-¾" guided rods, 51- ¾" sucker rods, 69- ¾" guided rods, 6-1 ½"sinker bars.
PUMP SIZE: 2-1/2" x 1-1/4" x 16'' RHAC
STROKE LENGTH: ?"
PUMP SPEED, SPM: ? SPM



FRAC JOB

11-22-05	5654-5711'	**Frac CP4, & CP5 sands as follows:** 124436# 20/40 sand in 875 bbls Lightning 17 frac fluid. Treated @ avg press of 1400 psi w/avg rate of 24.7 BPM. ISIP 2000 psi. Calc flush: 5652 gal. Actual flush: 5313 gal.
11-23-05	5408-5415'	**Frac CP1, sands as follows:** 19462# 20/40 sand in 294 bbls Lightning 17 frac fluid. Treated @ avg press of 1730 psi w/avg rate of 24.7 BPM. ISIP 1950 psi. Calc flush: 5406 gal. Actual flush: 3990 gal.
11-23-05	4043-4053'	**Frac GB6 sands as follows:** 47516# 20/40 sand in 457 bbls Lightning 17 frac fluid. Treated @ avg press of 1613 psi w/avg rate of 14.5 BPM. ISIP 1900 psi. Calc flush: 4041 gal. Actual flush: 3948 gal.
8/15/08		Parted Rods. Rod & tubing updated.
09-16-11		Parted Rods. Rods & tubing updated.

PERFORATION RECORD

11-17-05	5700-5711'	4 JSPF	44 holes
11-17-05	5654-5678'	4 JSPF	96 holes
11-22-05	5408-5415'	4 JSPF	28 holes
11-23-05	4043-4053'	4 JSPF	40 holes

NEWFIELD

Federal 7-13-9-16

1807' FNL & 2034' FEL

SW/NE Section 13-T9S-R16E

Duchesne Co, Utah

API #43-013-32656; Lease #UTU-64805

TW 09/22/11

ATTACHMENT E-6

Federal 11-13-9-16

Spud Date: 10/31/05
Put on Production: 12/14/05
GL: 5444' KB:5454'

Wellbore Diagram

Initial Production: BOPD 51, MCFD 39, BWPD 28

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts. (296.83')
DEPTH LANDED: 306.83' KB
HOLE SIZE:12-1/4"
CEMENT DATA: 160 sx Class "G" mixed cmt, est 2 bbls cmt to surf.

PRODUCTION CASING

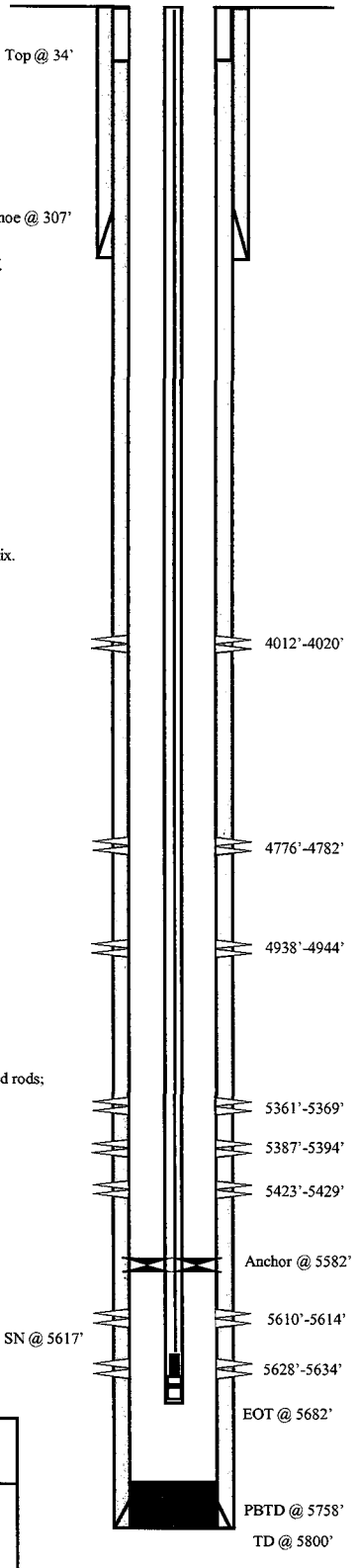
CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 132 jts. (5791.7')
DEPTH LANDED: 5789.7' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 325 sx Prem. Lite II mixed & 450 sx 50/50 POZ mix.
CEMENT TOP AT: 34'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 172 jts (5571.73')
TUBING ANCHOR: 5581.73' KB
NO. OF JOINTS: 1 jt (32.55')
SEATING NIPPLE: 2-7/8" (1.10')
SN LANDED AT: 5617.08' KB
NO. OF JOINTS: 2 jts (63.62')
TOTAL STRING LENGTH: EOT @ 5682.25' w/ 10' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 22'
SUCKER RODS: 1-6', 1-4', 1-2' x 3/4" pony rods, 100-3/4" scrapered rods; 99-3/4" plain rods, 20-3/4" scrapered rods, 6-1 1/2" weight rods, .
PUMP SIZE: 2-1/2" x 1-1/2" x 14' RHAC pump w/ SM Plunger
STROKE LENGTH: 86"
PUMP SPEED, SPM: 6 SPM



FRAC JOB

12/09/05 5610'-5634'	**Frac CP4 sands as follows:** 40,198# 20/40 sand in 394 bbls lightning Frac 17 fluid. Treated @ avg press of 1702 psi w/avg rate of 24.7 BPM. ISIP 2300 psi. Calc flush: 5608 gal. Actual flush: 5007 gal.
12/09/05 5361'-5429'	**Frac CP1 & CP2 sands as follows:** 95,683# 20/40 sand in 703 bbls lightning Frac 17 fluid. Treated @ avg press of 1593 psi w/avg rate of 24.7 BPM. ISIP 2150 psi. Calc flush: 5359 gal. Actual flush: 4775 gal.
12/10/05 4938'-4944'	**Frac A1 sands as follows:** 20,953# 20/40 sand in 278 bbls lightning Frac 17 fluid. Treated @ avg press of 1972 psi w/avg rate of 24.8 BPM. ISIP 1950 psi. Calc flush: 4936 gal. Actual flush: 4368 gal.
12/10/05 4776'-4782'	**Frac B1 sands as follows:** 36,114# 20/40 sand in 380 bbls lightning Frac 17 fluid. Treated @ avg press of 2210psi w/avg rate of 24.9 BPM. ISIP 1975 psi. Calc flush: 4774 gal. Actual flush: 3822 gal.
12/10/05 4012'-4020'	**Frac GB4 sands as follows:** 19,329# 20/40 sand in 268 bbls lightning Frac 17 fluid. Treated @ avg press of 1347psi w/avg rate of 14.3 BPM. ISIP 1700 psi. Calc flush: 4010 gal. Actual flush: 3927 gal.
06/28/07	Pump Change. Update rod and tubing details.

PERFORATION RECORD

12/05/05	5628'-5634'	4 JSPF	24 holes
12/05/05	5610'-5614'	4 JSPF	16 holes
12/09/05	5423'-5429'	4 JSPF	24 holes
12/09/05	5387'-5394'	4 JSPF	28 holes
12/09/05	5361'-5369'	4 JSPF	32 holes
12/09/05	4938'-4944'	4 JSPF	24 holes
12/10/05	4776'-4782'	4 JSPF	24 holes
12/10/05	4012'-4020'	4 JSPF	32 holes

NEWFIELD

Federal 11-13-9-16
1855' FSL & 2103' FWL
NE/SW Section 13-T9S-R16E
Duchesne County, Utah
API #43-013-32652; Lease #UTU-64805

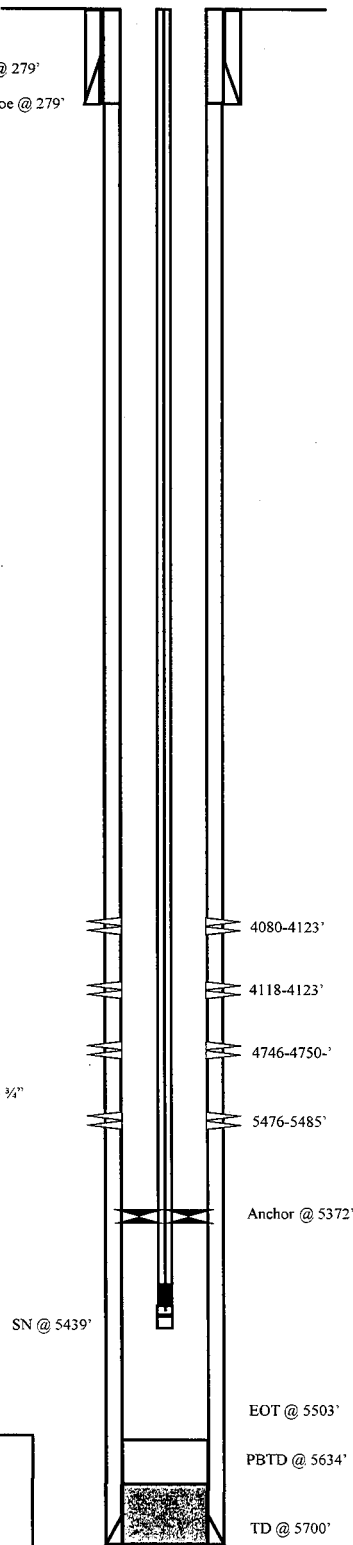
CB 07/17/07

Attachment E-7

Balcron Monument Federal 24-12J-9-16

Spud Date: 11/8/93
Put on Production: 12/30/93
GL: 5495' KB: 5505'

Wellbore Diagram



SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 6jts. (271.28')
DEPTH LANDED: 279'
HOLE SIZE: 12-1/4"
CEMENT DATA: 150 sxs Class "G" cmt

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 129 jts. (5676.22')
HOLE SIZE: 7-7/8"
DEPTH LANDED: 5685.22'
CEMENT DATA: 204 sxs Prem. Lite II mixed & 215 sxs 50/50 POZ.
CEMENT TOP AT: 279'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 172 jts (5361')
TUBING ANCHOR: 5371.7'
NO. OF JOINTS: 1 jts (64.2')
SEATING NIPPLE: 2-7/8" (1.1')
SN LANDED AT: 5438.7' KB
NO. OF JOINTS: 2 jts (5439.8')
TOTAL STRING LENGTH: EOT @ 5503'

SUCKER RODS

POLISHED ROD: 1-1/4" x 22'
SUCKER RODS: 77- ¾" guided rods (4 per), 114- ¾" sucker rods, 20- ¾" guided rods (4 per), 6- 1 ½" weight bars
PUMP SIZE: 2 ½ x 1 1/2 x 16' RHAC
STROKE LENGTH: 76
PUMP SPEED: 4.5 SPM

FRAC JOB

12/22/93	**4080'-4123'Frac**	**Frac sands as follows:** with 33085 # 16-30 sand in 500 bbls of YF155 2% KCl water.
12/17/93	**4746'-4750'**	**Frac sands as follows:** with 13978# 16-30 sand in 247 bbls of YF155 2% KCl water. Screened out during flush. ATR 15 BPM @ 2500 psi, max 3350 psi. I SI P 2450 psi, 10 min – 1488 psi, 15 min – 1484 psi.
12/14/93		**Frac sands as follows:** Screened out – no details available.
12/7/09		Parted rods. Updated rod and tubing details.

PERFORATION RECORD

4080'-4086'	2 JSPF	12 holes
4118'-4123'	2 JSPF	10 holes
4746'-4750'	2 JSPF	8 holes
5476'-5485'	2 JSPF	18 holes

NEWFIELD

Balcron Monument Federal 24-12J-9-16
539' FSL & 1777' FWL
SE/SW Section 12-T9S-R16E
Duchesne Co, Utah
API # 43-013-31409; Lease # U-035521-A

KC 2-26-09

ATTACHMENT E-8

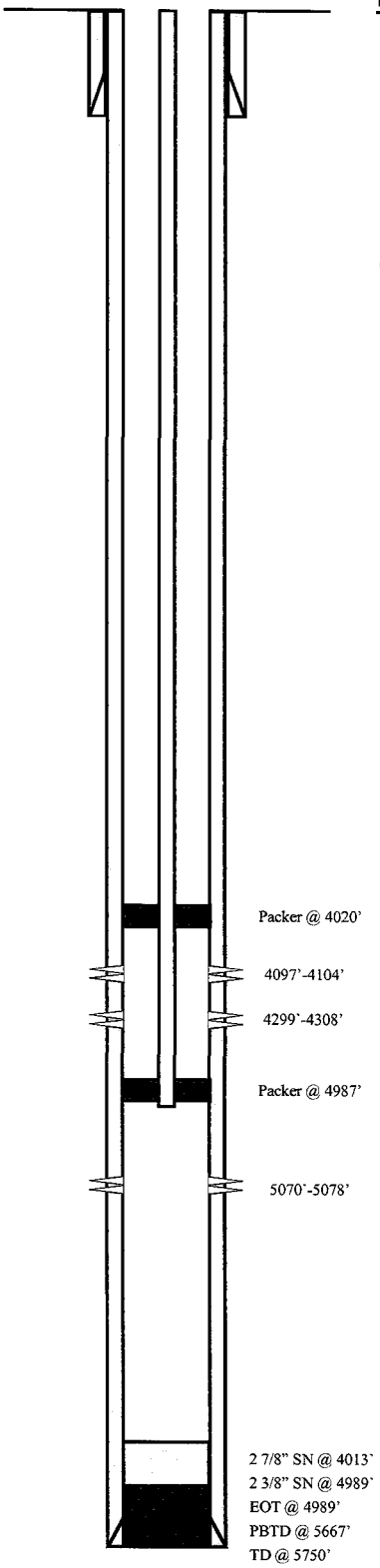
Monument Fed. 14-12J-9-16

Spud Date: 11/03/93
Put on Production: 12/18/93
Put on Injection: 10/28/94

GL: 5487' KB: 5497'

Initial Production: 70 BOPD, NM MCFD, 20 BWPD

Injection Wellbore Diagram



SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts. (271.17')
DEPTH LANDED: 279' KB
HOLE SIZE: 12-1/4"
CEMENT DATA: 150 sxs Class "G" cmt, est 4 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: K-55
WEIGHT: 15.5#
LENGTH: 131 jts. (5718.17')
DEPTH LANDED: 5727.17'
HOLE SIZE: 7-7/8"
CEMENT DATA: 220 sxs Lead cement & 260 sxs 50/50 POZ.
CEMENT TOP AT: ? per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 129 jts (4002.65')
SEATING NIPPLE: 2-7/8" (1.12')
SN LANDED AT: 4013.77' KB
2 7/8" x 2 3/8" CROSSOVER: 4014.52' KB
PACKER: 4020.72' KB
SIZE/GRADE/WT.: 2-3/8" / J-55 / 4.5#
NO. OF JOINTS: 31 jts (960.38')
PACKER: 4987.90' KB
SEATING NIPPLE: 2-3/8" (1.10')
SN LANDED AT: 4989.00' KB
TOTAL STRING LENGTH: EOT @ 4989.00'

FRAC JOB

12/06/93	5070'-5078'	**Frac zone as follows:** 25,446# 20/40 sand in 286 bbls 2% KCl. Treated @ avg press of 2341 psi w/avg rate of 17.4 BPM. ISIP 3578 psi. Calc. flush: 5070 gal. Actual flush: 5030 gal.
12/09/93	4097'-4308'	**Frac zone as follows:** 41,300# 20/40 sand in 457 bbls 2% KCl. Treated @ avg press of 2527 psi w/avg rate of 19 BPM. ISIP 1606 psi. Calc. flush: 4097 gal. Actual flush: 4050 gal.
04-08-10		**5YR MIT**

PERFORATION RECORD

12/06/93	5070'-5078'	2 SPF	16 holes
12/08/93	4299'-4308'		06 holes
12/08/93	4097'-4104'		05 holes

NEWFIELD

Monument Fed. #14-12j-9-16
660' FSL & 660' FWL
SWSW Section 12-T9S-R16E
Duchesne Co, Utah
API #43-013-31411; Lease #U-035521-A

LCN 04-12-10

ATTACHMENT E-9

Monument Fed. 41-14J-9-16

Spud Date: 12/01/93
Put on Production: 1/07/94
Put on Injection: 10/29/93

GL: 5529' KB: 5539'

Initial Production: 20 BOPD, 60 MCFD, 10 BWPD

Injection Wellbore Diagram

SURFACE CASING

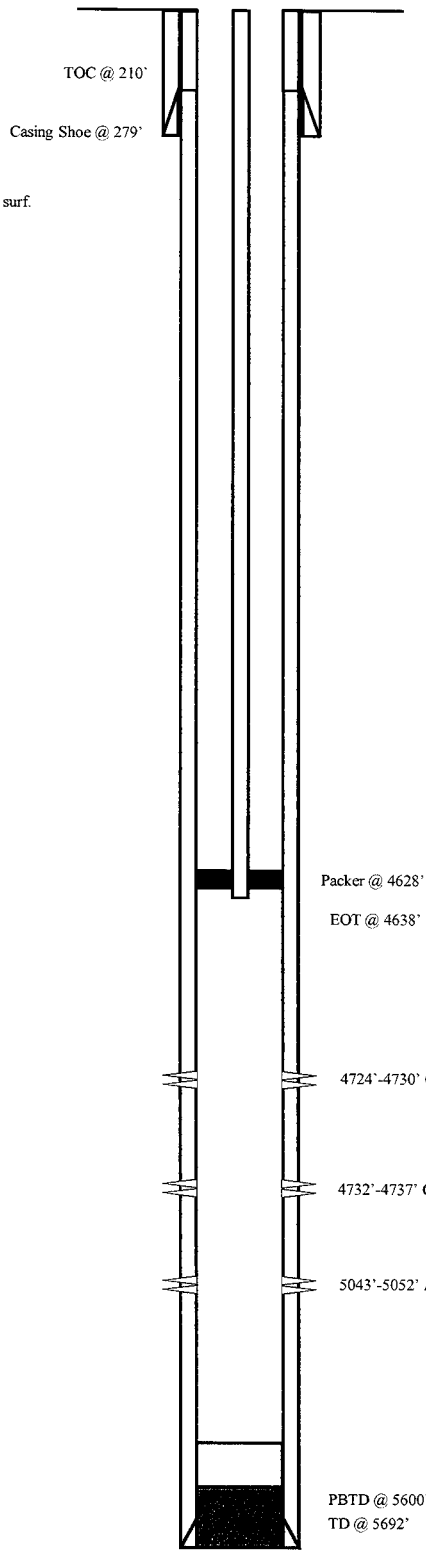
CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 6 jts. (271.04')
DEPTH LANDED: 279'
HOLE SIZE: 12-1/4"
CEMENT DATA: 150 sxs Class "G" cmt, est 4 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: K-55
WEIGHT: 15.5#
LENGTH: 131 jts. (5637.81')
DEPTH LANDED: 5646.81' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 225 sxs Hi-Lift & 261 sxs Class "G".
CEMENT TOP AT: 210' per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 149 jts (4627.28')
SEATING NIPPLE: 2-7/8" (1.10')
SN LANDED AT: 4627.3' KB
2 7/8" x 2 3/8" CROSS-OVER: 4628.4' KB
PACKER: 4628.8' KB
TOTAL STRING LENGTH: EOT @ 4638'



FRAC JOB

12/23/93	5043'-5052'	**Frac sand as follows:** 12,500# 20/40 sand + 6,500# 16/30 sand in 194 bbls 2% KCl fluid. Treated @ avg press of 2300 psi w/avg rate of 19 BPM. ISIP 2800 psi. Calc. flush: 5043 gal, Actual flush: 1344 gal. Screened out.
12/28/93	4724'-4737'	**Frac sand as follows:** 27,500# 16/30 sand in 354 bbls 2% KCl fluid. Treated @ avg press of 2100 psi w/avg rate of 19.5 BPM. ISIP 2100 psi. Calc. flush: 4724 gal, Actual flush: 4660 gal.
9/30/08		**Zone Stimulation.**
04-08-10		**5 YR MIT**

PERFORATION RECORD

12/22/93	5043'-5052'	2 JSPF	18 holes
12/28/93	4732'-4737'	2 JSPF	10 holes
12/28/93	4724'-4730'	2 JSPF	12 holes

NEWFIELD

Monument Fed. #41-14J-9-16
363' FNL & 600' FEL
NENE Section 14-T9S-R16E
Duchesne Co, Utah
API #43-013-31408; Lease #U-096550

LCN 4-12-10

ATTACHMENT E-10

Pan American #1FR-9-16

Spud Date: 1/5/06
Put on Production: 2/9/06

GL: 5529' KB: 5541'

Initial Production: BOPD, MCFD, BWPD

SURFACE CASING

CSG SIZE: 10 3/4" / 32.75#
DEPTH LANDED: 309'
HOLE SIZE: 15"
CEMENT DATA: 230 sxs cement.
HOLE SIZE to 6000': 10"

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 132 jts. (5479.96')
DEPTH LANDED: 5477.96' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 300 sxs Prem. Lite II mixed & 500 sxs 50/50 POZ.
CEMENT TOP AT: 1290'

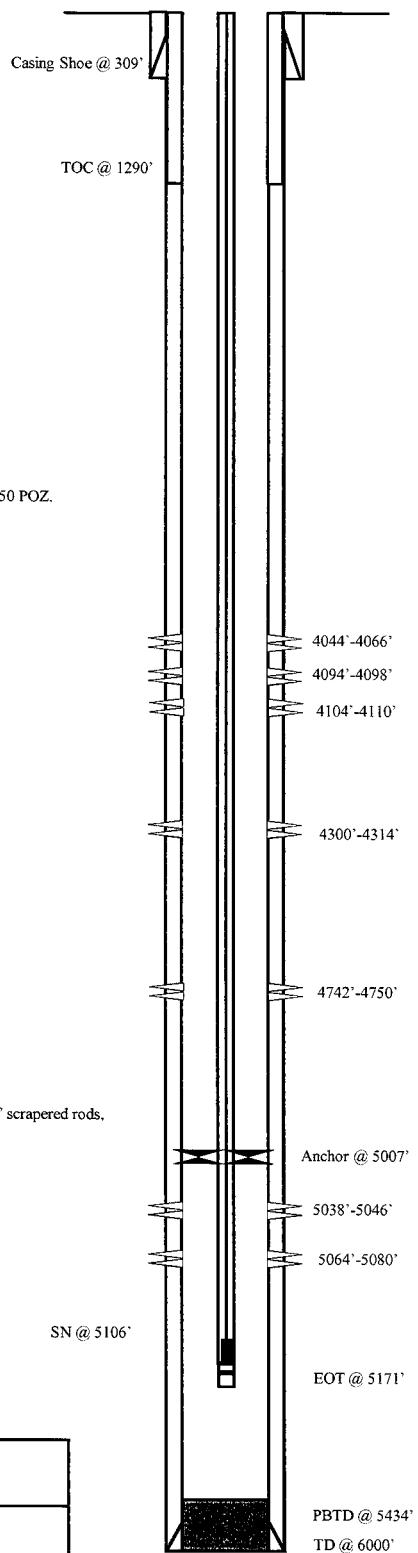
TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 157 jts (4995.27')
TUBING ANCHOR: 5007.27' KB
NO. OF JOINTS: 3 jts (96.02')
SEATING NIPPLE: 2-7/8" (1.10')
SN LANDED AT: 5106.09' KB
NO. OF JOINTS: 2 jts (62.92')
TOTAL STRING LENGTH: EOT @ 5170.56' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' polished rod
SUCKER RODS: 1-8', 1-6', 1-4', 1-2' x ¾" pony rods, 99- ¾" scrapered rods, 88- ¾" plain rods, 10- ¾" scrapered rods, 6-1 ½" weight rods
PUMP SIZE: 2-1/2" x 1-1/2" x 14' RHAC w/SM plunger
STROKE LENGTH: 86"
PUMP SPEED, SPM: 5 SPM

Wellbore Diagram



FRAC JOB

2/6/06 5038'-5080' **Frac A1&3 sands as follows:** 70,448# 20/40 sand in 562 bbls Lightning 17 frac fluid. Treated @ avg press of 1933 psi w/avg rate of 24.9 BPM. ISIP 2050 psi. Calc flush: 5036 gal. Actual flush: 5040 gal.

2/6/06 4742'-4750' **Frac C sands as follows:** 34,710# 20/40 sand in 390 bbls Lightning 17 frac fluid. Treated @ avg press of 1978 psi w/avg rate of 24.8 BPM. ISIP 1980 psi. Calc flush: 4740 gal. Actual flush: 4746 gal.

2/6/06 4300'-4314' **Frac PB10 sands as follows:** 35,142# 20/40 sand in 348 bbls Lightning 17 frac fluid. Treated @ avg press of 1820 psi w/avg rate of 24.8 BPM. ISIP 2060 psi. Calc flush: 4298 gal. Actual flush: 4326 gal.

2/6/06 4044'-4110' **Frac GB6 sands as follows:** 67,736# 20/40 sand in 511 bbls Lightning 17 frac fluid. Treated @ avg press of 1805 w/ avg rate of 24.9 BPM. ISIP 1820 psi. Calc flush: 4042 gal. Actual flush: 3906 gal.

PERFORATION RECORD

2/1/06	5064'-5080'	4 JSPF	64 holes
2/1/06	5038'-5046'	4 JSPF	32 holes
2/6/06	4742'-4750'	4 JSPF	32 holes
2/6/06	4300'-4314'	4 JSPF	56 holes
2/6/06	4104'-4110'	4 JSPF	24 holes
2/6/06	4094'-4098'	4 JSPF	16 holes
2/6/06	4044'-4066'	4 JSPF	88 holes

NEWFIELD

Pan American #1FR-9-16

663' FNL & 663' FWL

NW/NW Section 13-T9S-R16E

Duchesne Co, Utah

API #43-013-10822; Lease #UTU-75039

MC 2/21/06

ATTACHMENT E-11

Jonah #S-12-9-16

Spud Date: 10/15/08

Put on Prduction: 11/21/08

GL: 5426' KB: 5438'

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24 #

LENGTH: 7 jts (316.09')

DEPTH LANDED: 326.09'

HOLE SIZE: 12-1/4"

CEMENT DATA: 160 sx class 'g' cmt

PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 155 (6078')

DEPTH LANDED: 6076'

HOLE SIZE: 7-7/8"

CEMENT DATA: 350 sx premlite and 475 sx 50/50 poz

CEMENT TOP AT: 54'

TUBING

SIZE/GRADE/WT.: 6.5#, J-55

NO. OF JOINTS: 159 jts (4911.15')

TUBING ANCHOR: 4923.15'

NO. OF JOINTS: 1jts (31.00')

SN LANDED AT: 4956.95'

NO. OF JOINTS: 2 jts (62.27')

TOTAL STRING LENGTH: EOT @ 5020.72'

SUCKER RODS

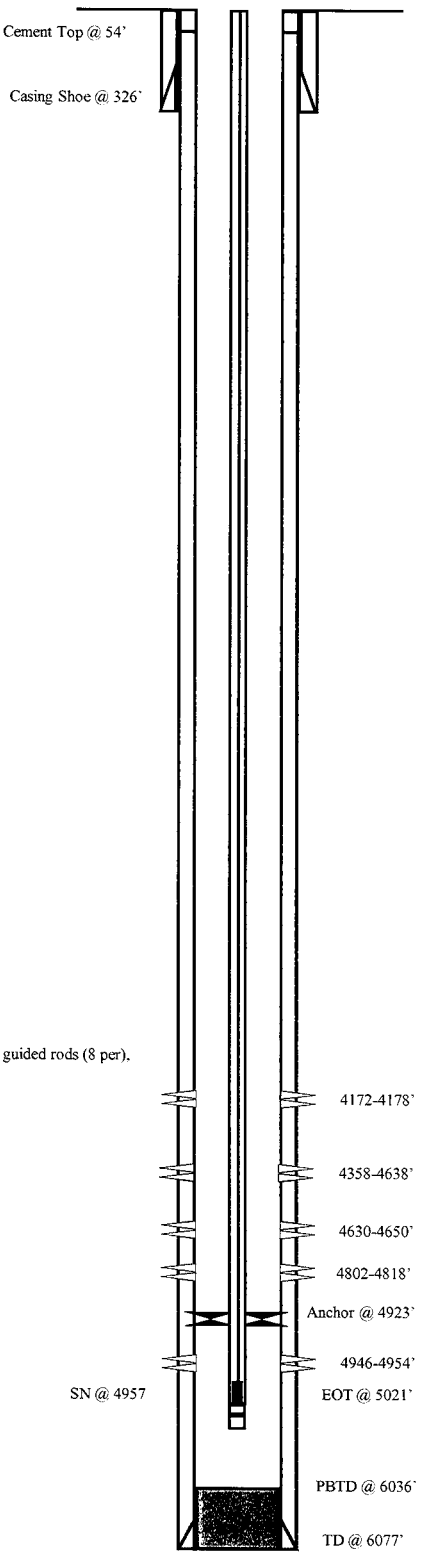
POLISHED ROD: 1 ½" x 26'

SUCKER RODS: 1-8,1-6',1-4', 2-2 x 7/8" ponys, 193-7/8" guided rods (8 per), 4-1 ½" wt bars, 21,000# shear coupling

PUMP SIZE: 2 ½" x 1 ¾" x 20' RHAC 'CDI'

STROKE LENGTH: 122"

PUMP SPEED, SPM: 5



FRAC JOB

11/17/08 4946-4954' Frac B2 sds as follows:
34,213# 20/40 sand in 375 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2150 psi @ ave rate of 23.2 BPM. ISIP 2275 psi. Actual flush: 4439 gals.

11/17/08 4802-4818' Frac C sds as follows:
55,806# 20/40 sand in 485 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2218 psi w/ ave rate of 18.7 BPM. ISIP 2534 psi. Actual flush: 4297 gals.

11/17/08 4630-4650' Frac D1 sds as follows:
51,261# 20/40 sand in 447 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2082 psi w/ ave rate of 18.7 BPM. ISIP 2237 psi. Actual flush: 4124 gals.

11/18/08 4358-4638' Frac PB10 sds as follows:
40,513# 20/40 sand in bbls of Lightning 17 fluid. Treated w/ ave pressure of 2099 psi @ ave rate of 23.2 BPM. ISIP 2322 psi. Actual flush: 3851 gals.

11/18/08 4172-4178' Frac GB6 sds as follows:
30,097# 20/40 sand in 359 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2167 psi w/ ave rate of 23.3 BPM. ISIP 2028 psi. Actual flush: 4116 gals.

PERFORATION RECORD

11/17/08	4946-4954'	32 holes
11/17/08	4802-4818'	64 holes
11/17/08	4630-4650'	80 holes
11/18/08	4358-4638'	40 holes
11/18/08	4172-4178'	24 holes

NEWFIELD

Jonah #S-12-9-16
880' FSL & 842' FEL
SESE Section 12-T9S-R16E
Duchesne Co, Utah
API #43-013-34010; Lease #UTU-035521

TW 04/06/09

ATTACHMENT E-12

Jonah Federal 15-12-9-16

Spud Date: 10-08-05
Put on Production: 11-11-05
GL: 5499' KB: 5511'

Injection Wellbore Diagram

Initial Production: BOPD, MCFD, BWPD

SURFACE CASING

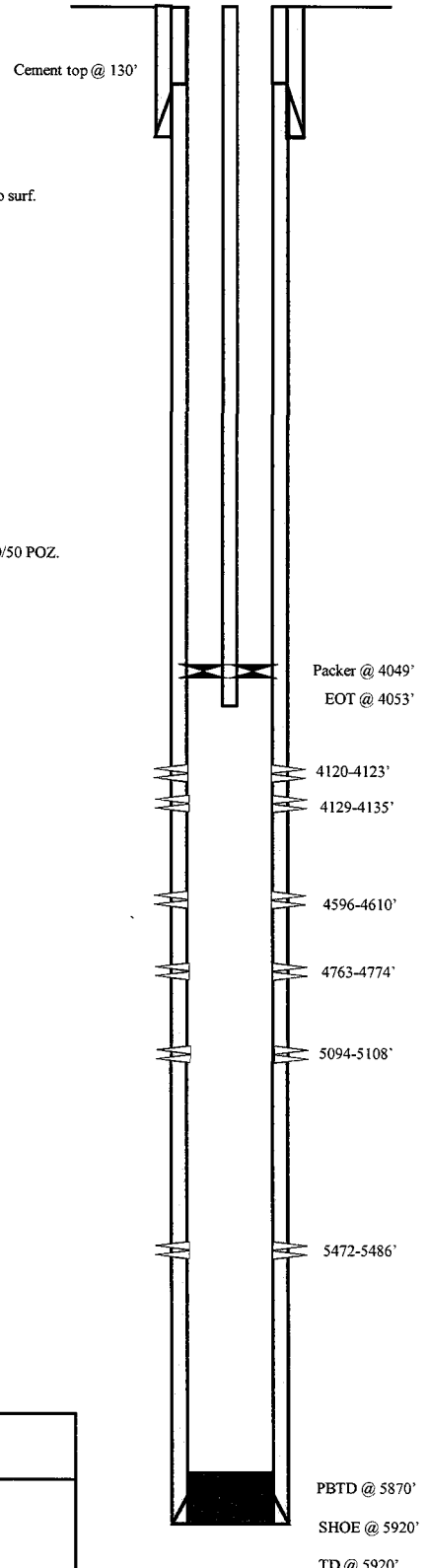
CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts (296.84')
DEPTH LANDED: 308.69' KB
HOLE SIZE:12-1/4"
CEMENT DATA: 160 sxs Class "G" cmt, est 6.5 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 136 jts. (5906.75')
DEPTH LANDED: 5920' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 350 sxs Prem. Lite II mixed & 475 sxs 50/50 POZ.
CEMENT TOP AT: 130'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 121 jts (4032.45')
SEATING NIPPLE: 2-7/8" (1.10')
SN LANDED AT: 4044.45' KB
TOTAL STRING LENGTH: EOT @ 4053.00' KB



FRAC JOB

11-07-05	5472-5486'	**Frac CP1, sands as follows:** 59446# 20/40 sand in 585 bbls Lightning 17 frac fluid. Treated @ avg press of 1739 psi w/avg rate of 24.9 BPM. ISIP 1970 psi. Calc flush: 5470 gal. Actual flush: 5048 gal.
11-07-05	5094-5108'	**Frac A3, sands as follows:** 80231# 20/40 sand in 602 bbls Lightning 17 frac fluid. Treated @ avg press of 1586 psi w/avg rate of 24.8 BPM. ISIP 1990 psi. Calc flush: 5092 gal. Actual flush: 4704 gal.
11-07-05	4763-4774'	**Frac C sands as follows:** 29525# 20/40 sand in 350 bbls Lightning 17 frac fluid. Treated @ avg press of 1861 psi w/avg rate of 24.7 BPM. ISIP 2080 psi. Calc flush: 4761 gal. Actual flush: 4473 gal.
11-08-05	4596-4610'	**Frac D1 sands as follows:** 80686# 20/40 sand in 590 bbls Lightning 17 frac fluid. Treated @ avg press of 1924 w/ avg rate of 25 BPM. ISIP 2220 psi. Calc flush: 4594 gal. Actual flush: 3990 gal.
11-08-05	4120-4135'	**Frac GB6 sands as follows:** 31631# 20/40 sand in 341 bbls Lightning 17 frac fluid. Treated @ avg press of 1738 w/ avg rate of 24.9 BPM. ISIP 2030 psi. Calc flush: 4118 gal. Actual flush: 4032 gal.
5/1/07		**Well converted to an Injection well. MIT completed and submitted.**

PERFORATION RECORD

11-02-05	5472-5486'	4 JSPF	56 holes
11-07-05	5094-5108'	4 JSPF	56 holes
11-07-05	4763-4774'	4 JSPF	44 holes
11-08-05	4596-4610'	4 JSPF	56 holes
11-08-05	4129-4135'	4 JSPF	24 holes
11-08-05	4120-4123'	4 JSPF	12 holes

NEWFIELD

Jonah Federal 15-12-9-16

427' FSL & 2355' FEL

SW/SE Section 12-T9S-R16E

Duchesne Co, Utah

API #43-013-32627; Lease #UTU-35521

CR 5/21/07

NEWFIELD

GMBU V-12-9-16

Monument Butte - Duchesne County, Utah, USA

Surface Location: NW/NE - Sec 13, T9S, R16E; 615' FNL & 1,804' FEL

5,477' GL + 10' KB

API#: 43-013-51155; Lease#: UTU-64805

Mickey Moulton

PFM 12/4/2012

Spud Date: 9/20/2012; PoP Date: 10/30/2012

CASING DETAIL

Casing	Top	Bottom	Size	Wt	Grade	Drift	Burst	Collapse	ID	gal/ft	Coupling	Hole
Surf	10'	308'	8-5/8"	24#	J-55	7.972"	2,950	1,370	8.097"	2.6749	STC	12.250
Prod	10'	6,155'	5-1/2"	15.5#	J-55	4.825"	4,810	4,040	4.950"	0.9997	LTC	7.875

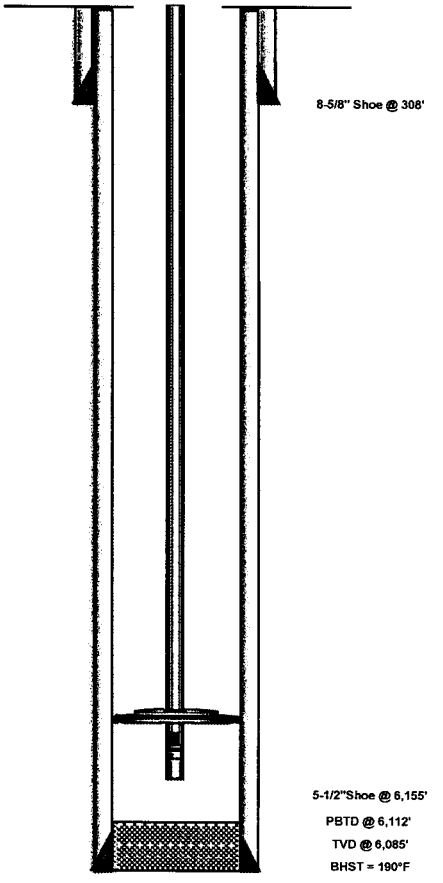
TBG. DETAIL

Top	Bottom	Coupling	Size	Wt.	Grade	Drift	Burst	Collapse	ID	Packer/Hanger
10'	5,790'	8EUE	2-7/8"	6.5#	J-55	2.347"	7,260	7,680	2.441"	Tubing Anchor Set @ 5,691'
										Seating Nipple @ 5,725'

ROD DETAIL

Component	Top	Bottom	Size	Grade	Length	Count	Pump
Polish Rod	0'	30'	1 1/2"	Spray Metal	30'	1	Insert Pump: 2.5 Max ID x 1.75 Plunger RHAC @ 5,721'. 4' Spray Metal 0.003, 224" max stroke, CPID Barrel.
Pony Rod	30'	46'	7/8"	Tenaris D78	16'	1	
4per Guided Rod	46'	1,971'	7/8"	Tenaris D78	1,925'	77	
4per Guided Rod	1,971'	5,021'	3/4"	Tenaris D78	3,050'	122	
8per Guided Rod	5,021'	5,721'	7/8"	Tenaris D78	700'	28	

Stage	Top	Bottom	SPF	Gun Size	Date	Frac Summary				
5	4,165'	4,167'	3	6'	10/18/2012	Formation:	PB-10	GB-6		Base Fluid 7% KCL
	4,375'	4,376'	3	3'	10/18/2012	20/40 White:	62,497 lbs		15% HCl:	0 gals
	4,380'	4,382'	3	6'	10/18/2012	Pad:	3,255 gals		Treating Fluid:	14,671 gals
	4,393'	4,394'	3	3'	10/18/2012	Flush:	3,822 gals		Load to Recover:	21,748 gals
	0'	0'	3	0'	-	ISIP=	0.862 psi/ft		Max STP:	3,447 psi
4	4,792'	4,794'	3	6'	10/18/2012	Formation:	C			Base Fluid 7% KCL
	4,804'	4,805'	3	3'	10/18/2012	20/40 White:	51,461 lbs		15% HCl:	252 gals
	4,812'	4,814'	3	6'	10/18/2012	Pad:	3,192 gals		Treating Fluid:	8,699 gals
	0'	0'	3	0'	-	Flush:	4,658 gals		Load to Recover:	19,187 gals
	0'	0'	3	0'	-	ISIP=	0.909 psi/ft		Max STP:	3,284 psi
3	4,876'	4,878'	3	6'	10/18/2012	Formation:	B2	B-Half		Base Fluid 7% KCL
	4,940'	4,944'	3	12'	10/18/2012	20/40 White:	59,815 lbs		15% HCl:	252 gals
	0'	0'	3	0'	-	Pad:	623 gals		Treating Fluid:	13,787 gals
	0'	0'	3	0'	-	Flush:	4,822 gals		Load to Recover:	23,096 gals
	0'	0'	3	0'	-	ISIP=	0.821 psi/ft		Max STP:	3,618 psi
2	5,096'	5,098'	3	6'	10/18/2012	Formation:	A1			Base Fluid 7% KCL
	5,106'	5,108'	3	6'	10/18/2012	20/40 White:	32,856 lbs		15% HCl:	252 gals
	5,112'	5,114'	3	6'	10/18/2012	Pad:	2,575 gals		Treating Fluid:	8,407 gals
	0'	0'	3	0'	-	Flush:	5,036 gals		Load to Recover:	16,270 gals
	0'	0'	3	0'	-	ISIP=	- psi/ft		Max STP:	2,566 psi
1	5,706'	5,710'	3	12'	10/17/2012	Formation:	CP4			Base Fluid 7% KCL
	0'	0'	3	0'	-	20/40 White:	25,117 lbs		15% HCl:	378 gals
	0'	0'	3	0'	-	Pad:	3,692 gals		Treating Fluid:	6,401 gals
	0'	0'	3	0'	-	Flush:	5,636 gals		Load to Recover:	16,107 gals
	0'	0'	3	0'	-	ISIP=	0.746 psi/ft		Max STP:	3,604 psi



CEMENT

Surf	On 9/21/12 Baker cemented 8 5/8" casing w/ 160 sks Class "G" + 2% KCl + 0.25#/sk Cello Flake at 15.8 ppg w/ 1.17 yield and returned 5 bbls to the pit.
Prod	On 10/4/12 Baker pumped 221 sks lead @ 11 ppg w/ 3.53 yield plus 443 sks tail @ 14.4 ppg w/ 1.24 yield. Returned 15 bbls to the pit. TOC @ Surface

NEWFIELD

GMBU C-13-9-16

Monument Butte - Duchesne County, Utah, USA

Surface Location: NE/NE- Sec 13, T9S, R16E; 614' FNL & 1,826' FEL

5,477' GL + 10' KB

API#: 43-013-51156; Lease#: UTU-64805

Mickey Moulton

PFM 12/4/2012

Spud Date: 9/21/2012; PoP Date: 10/30/2012

CASING DETAIL

Casing	Top	Bottom	Size	Wt	Grade	Drift	Burst	Collapse	ID	gal/ft	Coupling	Hole
Surf	10'	6,227'	8-5/8"	24#	J-55	7.972"	2,950	1,370	8.097"	2.6749	STC	12.250
Prod	10'	6,227'	5-1/2"	15.5#	J-55	4.825"	4,810	4,040	4.950"	0.9997	LTC	7.875

TBG. DETAIL

Top	Bottom	Coupling	Size	Wt.	Grade	Drift	Burst	Collapse	ID	Packer/Hanger
10'	5,664'	8EUE	2-7/8"	6.5#	J-55	2.347"	7,260	7,680	2.441"	Tubing Anchor Set @ 5,565'
										Seating Nipple @ 5,59

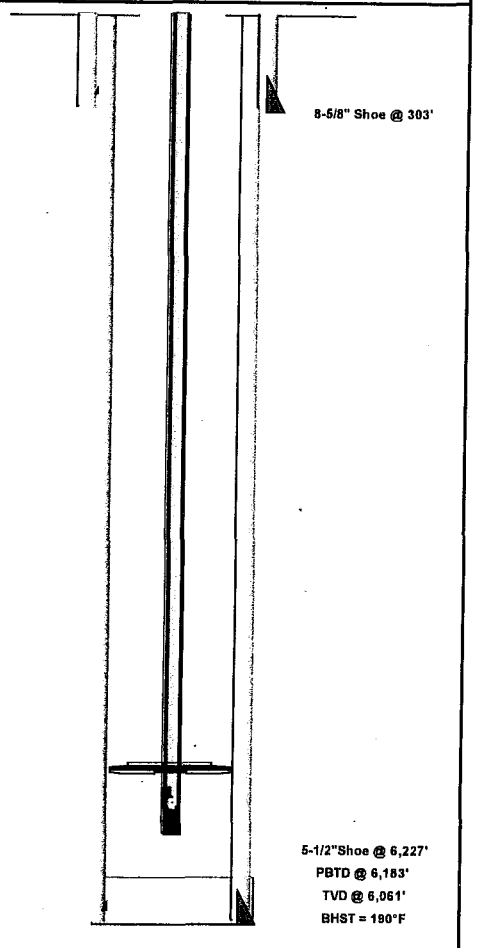
ROD DETAIL

Component	Top	Bottom	Size	Grade	Length	Count
Polish Rod	0'	30'	1 1/2"	Spray Metal	30'	1
Pony Rod	30'	32'	7/8"	Tenaris D78	2'	1
Pony Rod	32'	36'	7/8"	Tenaris D78	4'	1
Pony Rod	36'	42'	7/8"	Tenaris D78	6'	1
4per Guided Rod	42'	1,792'	7/8"	Tenaris D78	1,750'	70
4per Guided Rod	1,792'	4,892'	3/4"	Tenaris D78	3,100'	124
8per Guided Rod	4,892'	5,592'	7/8"	Tenaris D78	700'	28

Pump

Insert Pump: 2.5 Max ID x 1.75 Plunger RHAC @ 5,592'. 4' Spray Metal plunger 0.003.

Stage	Top	Bottom	SPF	Gun Size	Date	Frac Summary					
5	4,156'	4,159'	3	9'	10/18/2012	Formation:	GB-6	GB-4			
	4,205'	4,207'	3	6'	10/18/2012	20/40 White:	27,047	lbs	15% HCl:	0	gals
	0'	0'	3	0'	-	Pad:	2,965	gals	Treating Fluid:	6,665	gals
	0'	0'	3	0'	-	Flush:	4,561	gals	Load to Recover:	14,191	gals
	0'	0'	3	0'	-	ISIP=	0.882	psi/ft	Max STP:	3,099	psi
4	4,330'	4,332'	3	6'	10/18/2012	Formation:	PB-10	PB-8			
	4,400'	4,402'	3	6'	10/18/2012	20/40 White:	37,380	lbs	15% HCl:	252	gals
	4,414'	4,416'	3	6'	10/18/2012	Pad:	3,406	gals	Treating Fluid:	8,816	gals
	0'	0'	3	0'	-	Flush:	4,309	gals	Load to Recover:	16,783	gals
	0'	0'	3	0'	-	ISIP=	1.044	psi/ft	Max STP:	3,874	psi
3	4,584'	4,586'	3	6'	10/17/2012	Formation:	C-Sand	DS-1			
	4,859'	4,861'	3	6'	10/17/2012	20/40 White:	64,788	lbs	15% HCl:	252	gals
	4,869'	4,872'	3	9'	10/17/2012	Pad:	3,826	gals	Treating Fluid:	16,190	gals
	0'	0'	3	0'	-	Flush:	4,448	gals	Load to Recover:	24,716	gals
	0'	0'	3	0'	-	ISIP=	0.884	psi/ft	Max STP:	3,142	psi
2	5,017'	5,019'	3	6'	10/17/2012	Formation:	A-3	A-1	B-1		
	5,021'	5,022'	3	3'	10/17/2012	20/40 White:	53,183	lbs	15% HCl:	252	gals
	5,139'	5,140'	3	3'	10/17/2012	Pad:	3,284	gals	Treating Fluid:	13,019	gals
	5,147'	5,149'	3	6'	10/17/2012	Flush:	5,498	gals	Load to Recover:	22,053	gals
	5,180'	5,181'	3	3'	10/17/2012	ISIP=	-	psi/ft	Max STP:	2,966	psi
1	5,562'	5,564'	3	6'	10/16/2012	Formation:	CP-1	CP-Half			
	5,605'	5,609'	3	12'	10/16/2012	20/40 White:	27,492	lbs	15% HCl:	378	gals
	0'	0'	3	0'	-	Pad:	2,747	gals	Treating Fluid:	7,060	gals
	0'	0'	3	0'	-	Flush:	5,431	gals	Load to Recover:	15,616	gals
	0'	0'	3	0'	-	ISIP=	0.794	psi/ft	Max STP:	3,191	psi



CEMENT

Surf	On 9/21/12 Baker cemented 8 5/8" casing w/ 160 sks Class "G" + 2% KCl + 0.25#/sk Cello Flake at 15.8 ppg w/ 1.17 yield and returned 5 bbls to the pit.
Prod	On 9/29/12 Baker pumped 222 sks lead @ 11 ppg w/ 3.53 yield plus 448 sks tail @ 14.4 ppg w/ 1.24 yield. TOC @ 90'

ATTACHMENT F 1 of 4

Multi-Chem Group, LLC
Multi-Chem Analytical Laboratory
1553 East Highway 40
Vernal, UT 84078

multi-chem®

Water Analysis Report

Production Company: **NEWFIELD PRODUCTION (158)**
Well Name: **beluga IF**
Sample Point: **tank**
Sample Date: **1 /7 /2011**
Sales Rep: **Monty Frost**
Lab Tech: **Peter Poulsen**

Sample ID: **WA-53140**

Sample Specifics

Test Date:	1/24/2011
Temperature (°F):	100
Sample Pressure (psig):	
Specific Gravity (g/cm³):	1.0102
pH:	6.8
Turbidity (NTU):	-
Calculated T.D.S. (mg/L)	28628
Molar Conductivity (µS/cm):	43376
Resitivity (Mohm):	0.2305

Analysis @ Properties in Sample Specifics

Cations	mg/L	Anions	mg/L
Calcium (Ca):	64.73	Chloride (Cl):	16000.00
Magnesium (Mg):	39.81	Sulfate (SO_4):	421.00
Barium (Ba):	0.11	Dissolved CO_2:	-
Strontium (Sr):	-	Bicarbonate (HCO_3):	1293.00
Sodium (Na):	10804.00	Carbonate (CO_3):	-
Potassium (K):	-	H_2S:	5.50
Iron (Fe):	-	Phosphate (PO_4):	-
Manganese (Mn):	0.34	Silica (SiO_2):	-
Lithium (Li):	-	Fluoride (F):	-
Aluminum (Al):	-	Nitrate (NO_3):	-
Ammonia NH_3:	-	Lead (Pb):	-
		Zinc (Zn):	-
		Bromine (Br):	-
		Boron (B):	-

Scale Values @ Test Conditions - Potential Amount of Scale in lb/1000bbl

Test Conditions		Calcium Carbonate $CaCO_3$		Gypsum $CaSO_4 \cdot 2H_2O$		Calcium Sulfate $CaSO_4$		Strontium Sulfate $SrSO_4$		Barium Sulfate $BaSO_4$		Calculated CO_2
Temp °F	Gauge Press. psi	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	psi
100		*0.40*	*-2.38*	*0.01*	*-3058.50*	*0.01*	*-3233.80*	-	-	*0.47*	*-0.20*	*4.44*
80	0	0.29	-3.17	0.01	-5.64	0.01	-3429.00	-	-	0.72	-0.07	1.96
100	0	0.40	-2.38	0.01	-3.79	0.01	-3233.90	-	-	0.47	-0.20	2.46
120	0	0.52	-1.75	0.01	-2.49	0.01	-2933.50	-	-	0.31	-0.40	2.78
140	0	0.66	-1.19	0.01	-1.54	0.01	-2572.20	-	-	0.21	-0.69	3.14
160	0	0.79	-0.69	0.01	-0.83	0.01	-2188.50	-	-	0.14	-1.09	3.56
180	0	0.92	-0.24	0.01	-0.29	0.02	-1811.90	-	-	0.10	-1.64	3.94
200	0	1.05	0.15	0.01	0.12	0.02	-1462.30	-	-	0.07	-2.40	4.01
220	2.51	1.14	0.47	0.01	0.41	0.03	-1169.20	-	-	0.05	-3.52	4.07
240	10.3	1.23	0.76	0.01	0.62	0.04	-898.45	-	-	0.03	-4.97	4.15
260	20.76	1.29	0.97	0.01	0.74	0.07	-670.12	-	-	0.03	-6.91	4.24
280	34.54	1.32	1.11	0.01	0.78	0.10	-481.75	-	-	0.02	-9.50	4.34
300	52.34	1.33	1.16	0.01	0.75	0.16	-329.22	-	-	0.01	-12.95	4.44

Conclusions:

Calcium Carbonate scale is indicated. See graph for appropriate temperature ranges.
Gypsum Scaling Index is negative from 80°F to 300°F
Calcium Sulfate Scaling Index is negative from 80°F to 300°F
Strontium Sulfate scaling was not evaluated
Barium Sulfate Scaling Index is negative from 80°F to 300°F

Notes:

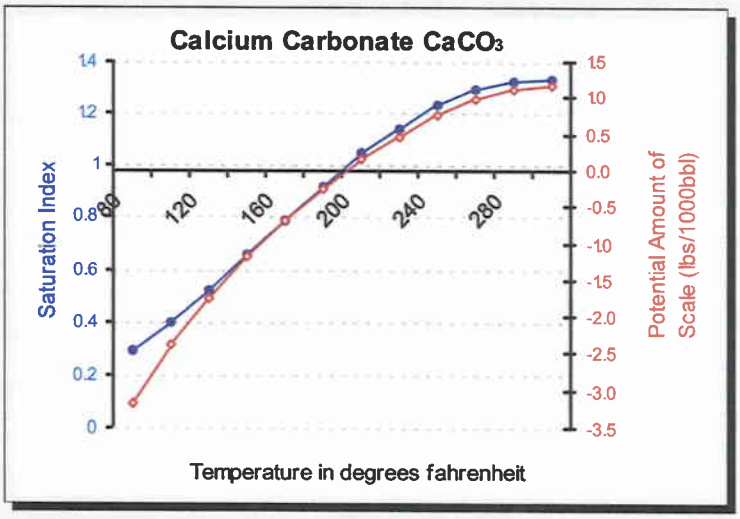
Multi-Chem Group, LLC
Multi-Chem Analytical Laboratory
1553 East Highway 40
Vernal, UT 84078

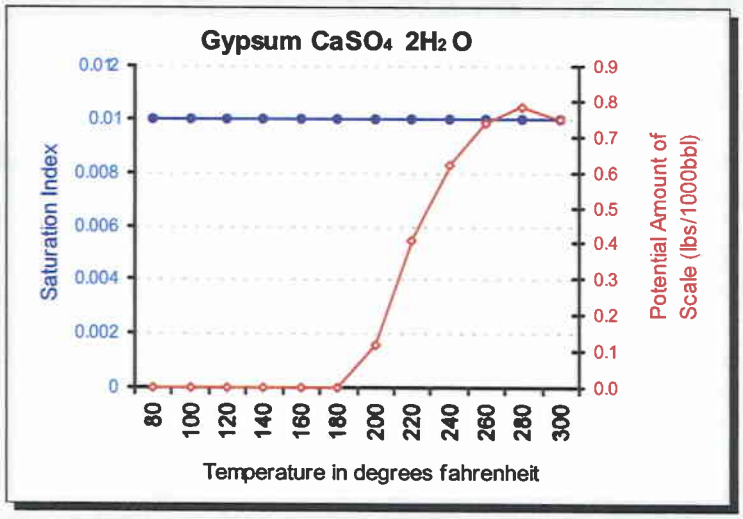
multi-chem®

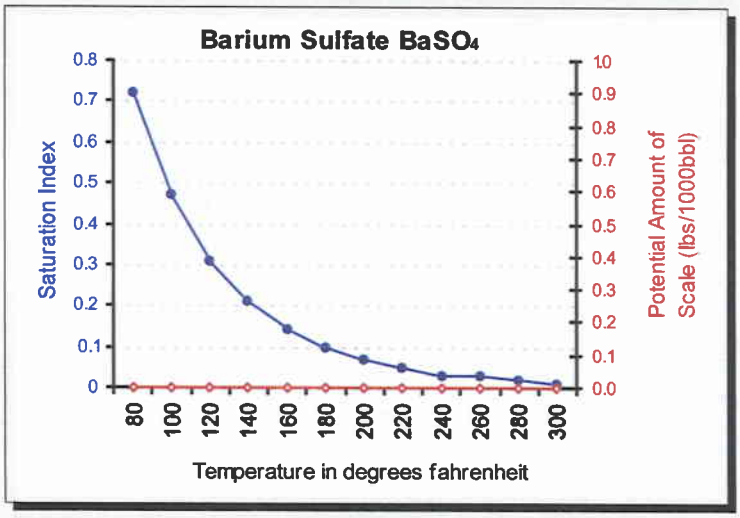
Scale Prediction Graphs

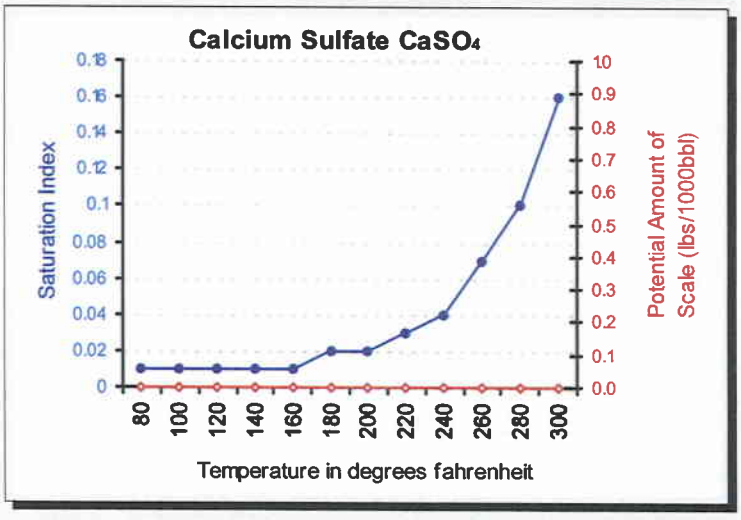
Well Name: **beluga IF**

Sample ID: **WA-53140**









Multi-Chem Analytical Laboratory
1553 East Highway 40
Vernal, UT 84078

ATTACHMENT F
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Water Analysis Report

Production Company:	**NEWFIELD PRODUCTION**	Sales Rep:	**Darren Betts**
Well Name:	**FEDERAL 21-13Y-9-16**	Lab Tech:	**Gary Peterson**
Sample Point:			
Sample Date:	**11/17/2011**		
Sample ID:	**WA-203434**		

Scaling potential predicted using ScaleSoftPitzer from Brine Chemistry Consortium (Rice University)

Sample Specifics	
Test Date:	11/17/2011
System Temperature 1 (°F):	300.00
System Pressure 1 (psig):	3000.00
System Temperature 2 (°F):	70.00
System Pressure 2 (psig):	14.70
Calculated Density (g/ml):	1.01
pH:	8.60
Calculated TDS (mg/L):	14814.28
CO2 in Gas (%):	0.00
Dissolved CO_2 (mg/L)):	0.00
H_2S in Gas (%):	0.00
H2S in Water (mg/L):	5.00

Analysis @ Properties in Sample Specifics			
Cations	***mg/L***	***Anions***	***mg/L***
Sodium (Na):	**5566.54**	Chloride (Cl):	**8000.00**
Potassium (K):	**15.20**	Sulfate (SO_4):	**18.00**
Magnesium (Mg):	**8.60**	Bicarbonate (HCO_3):	**1146.80**
Calcium (Ca):	**20.50**	Carbonate (CO_3):	**0.00**
Strontium (Sr):	**0.00**	Acetic Acid (CH_3COO)	**0.00**
Barium (Ba):	**38.30**	Propionic Acid (C_2H_5COO)	**0.00**
Iron (Fe):	**0.28**	Butanoic Acid (C_3H_7COO)	**0.00**
Zinc (Zn):	**0.00**	Isobutyric Acid ($(CH_3)_2CHCOO$)	**0.00**
Lead (Pb):	**0.00**	Fluoride (F):	**0.00**
Ammonia NH_3:	**0.00**	Bromine (Br):	**0.00**
Manganese (Mn):	**0.06**	Silica (SiO_2):	**0.00**

Notes:

(PTB = Pounds per Thousand Barrels)

		Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum $CaSO_4 \cdot 2H_2O$		Celestite $SrSO_4$		Halite NaCl		Zinc Sulfide	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
70	14	1.02	15.20	1.44	13.90	2.52	0.15	0.91	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	346	1.04	15.34	1.20	13.05	2.29	0.15	1.02	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
121	678	1.09	15.60	1.01	12.12	2.14	0.15	1.14	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146	1009	1.14	15.88	0.86	11.21	2.05	0.15	1.24	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172	1341	1.21	16.19	0.76	10.41	2.00	0.15	1.34	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
197	1673	1.28	16.48	0.68	9.78	1.99	0.15	1.42	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
223	2004	1.36	16.75	0.64	9.33	2.00	0.15	1.49	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
248	2336	1.44	16.97	0.61	9.08	2.03	0.15	1.53	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
274	2668	1.52	17.16	0.60	9.01	2.07	0.15	1.56	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300	3000	1.60	17.32	0.61	9.10	2.12	0.15	1.57	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

		Hemihydrate $CaSO_4 \cdot 0.5H_2O$		Anhydrate $CaSO_4$		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
70	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	346	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
121	678	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146	1009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172	1341	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
197	1673	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
223	2004	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
248	2336	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
274	2668	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300	3000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate

Multi-Chem Analytical Laboratory
1553 East Highway 40
Vernal, UT 84078

ATTACHMENT F 4of4

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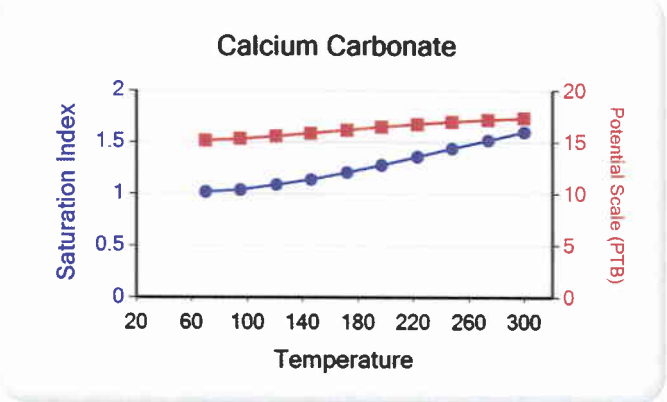
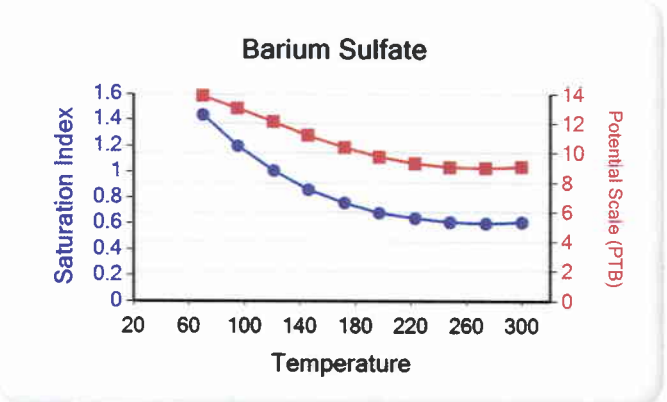
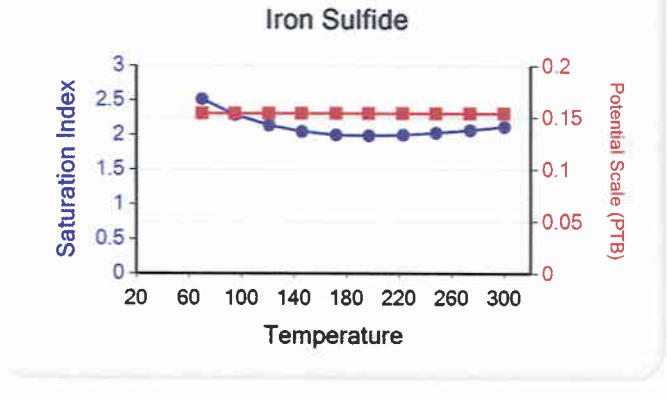
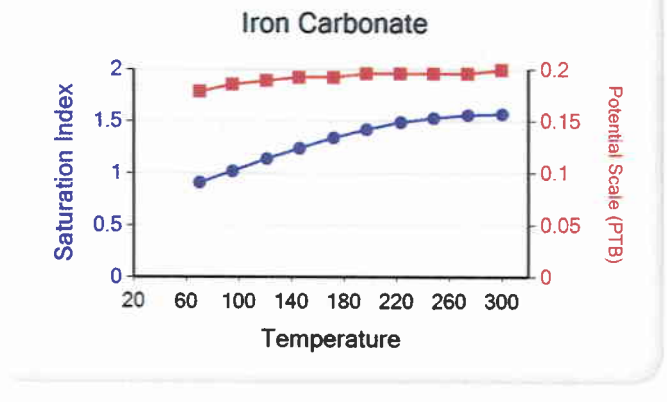
These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate









Attachment "G"

Federal #21-13Y-9-16
Proposed Maximum Injection Pressure

Frac Interval (feet) Top	Bottom	Avg. Depth (feet)	ISIP (psi)	Calculated Frac Gradient (psi/ft)	Pmax	
4751	4765	4758	1850	0.82	1819	
4309	4325	4317	1800	0.85	1772	←
4103	4118	4111	2150	0.96	2123	
5036	5042	5039	1962	0.82	1929	
				Minimum	1772	

Calculation of Maximum Surface Injection Pressure
Pmax = (Frac Grad -(0.433*1.015)) x Depth of Top Perf
where pressure gradient for the fresh water is .433 psi/ft and
specific gravity of the injected water is 1.015.

Frac Gradient = (ISIP +(0.433*Top Perf.))/Top Perf.

Please note: These are existing perforations; additional perforations may be added during the actual conversion procedure.

ATTACHMENT G-1
1 of 9

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah

---TIGHT HOLE---

8-27-93 Cas "0" PSIG. RU Halliburton to do breakdown. Pressure test surface equipment to 4500 PSIG - OK. Pump 5 bbls water break @3400 PSI, break to 1500 @ 4 BPM. Pump 26 balls. No ball off at 4 BPM. Surge ball off perfs. Pump 18 bbls for rate, 6-1/4 BPM at 2500 PSIG. Made 5 swab runs. Swab back 22 bbls water, flow back 32 bbls water. ISIP 1550 PSIG, slight oil cut on swab. TOOH w/tbg & packer. SWIFN. Total load used - 125 bbls water; load recovered 54 bbls water; TOTAL LOAD TO RECOVER 71 bbls water.
DC: $2,464 CC: $218,854

8-28-93 Rig up Western to frac. Casing pressure "0" PSIG. Pressure test surface equipment to 5000 PSIG - OK. Frac well with 20,140 lbs of 20/40 & 15,380 lbs of 16/30 @ 20 BPM. Average treating pressure 1900 psi. Maximum treating pressure 2350 psi. ISIP 1850 psi, 5 minutes 1480 psi, 10 minutes 1450 psi, 15 minutes 1400 psi. SWIFN. Load used in frac 371 bbls water. Total load to recover 442 bbls water.
DC: $16,932 CC: $235,786

---SEE ATTACHED REPORT - 2 PAGES---

8-30-93 Casing PSIG "0", bleed well off. TIH w/5-1/2" packer & 2-7/8" tbg, tag fill @ 5,685'KB. POOH to 4,727'. Set packer. Made 18 swab runs. Flowed & swabbed 86 bbls fluid. Last three runs 30% oil, average oil % = 10. Last three runs - no sand. Release packer, tag fill @ 5,555'KB. Circulate down to PBTD. TOOH w/50 jts 2-7/8" tbg. SDFN.
DC: $2,531 CC: $238,317

8-31-93 Cas "0" PSIG, tbg "0" PSIG. TOOH w/tbg & packer. RU Schlumberger to perf @ 4,309'-4,325', 2 SPM. RD Schlumberger. TIH w/5-1/2" retrievable bridge plug, right head, 1 jt 2-7/8" tbg, one 5-1/2" R-3 packer, seating nipple & 141 jts 2-7/8" tbg. Set bridge plug at 4,396'KB, pressure test bridge plug 1000 PSIG - OK 5 minutes. POOH w/7 jts 2-7/8" tbg, set packer @ 4,165'KB, bottom of tubing @ 4,196'KB. Pressure test surface equipment 4000 PSIG - OK. RU Western to break down perfs. Initial break @ 2500 PSIG, start 1 ball per bbl. Start break down, 37 bbls water, 6 balls total, no ball off. 3 & 4 BPM. Pump for rate 1350 PSIG at 6.0 BPM. Flow back 10 bbls water, made 4 swab runs, got trace of oil. Unseat packer. TOOH w/tbg & packer. Swabbed 30 bbls water. SWIFN.
DC: $5,039 CC: $243,356

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

9-1-93 RU Western & prepare to frac. Pressure test surface equipment to 4500 PSIG - OK. Frac well with 33,600# 16/30 sand. Max. treating pressure 2200 psi; average treating pressure 2050 psi; average rate 24.5 BPM. ISIP 1800 psi, 5 minutes 1550 psi, 10 minutes 1460 psi, 15 minutes 1360 psi. SWIFD. Load used 377 bbls water; total load to recover 820.
DC: $18,437 CC: $261,793

9-2-93 Casing 100 PSIG. Flowed 5 bbls water. TIH w/1 bridge plug retrieving tool, 1 jt 2-7/8" tbg, one 5-1/2" packer & 125 jts 2-7/8" tbg. Tag fill @ 3,921' KB. RU to circulate sand out to 4,355'. Set packer @ 4,288'. Made 23 swab runs, swab fluid level down to 3,700'. Last 3 runs 30% oil. Still getting sand. SWIFN. Load recovered 65 bbls water. Total load to be recovered 755 bbls water.
DC: $2,235 CC: $264,028

9-3-93 Completion
Csg - 9 psig, tbg - 230 psig. Flow back 1 BO. Made 8 swab runs. Recovered 42 BOF - 50% oil. Release packer, tag sand fill @ 4340', circ clean to 4396'. Release BP, TOOh w/tbg, BP & packer. TIH w/production string: 1 jt 2-7/8" tbg, EUE, J-55, 8RD, 6.5# set 4802' KB; 1 perf sub 2-7/8" x 3'; 1 seat nipple; 154 jts tbg 2-7/8" EUE, J-55, 8rd, 6/5#. Landed @ 4771' KB. Load recovered today 21 BOW. Total load to recover 734 BOW.
DC: $4,648 CC: $268,676

9-6-93 Completion.
TIH w/rods. TP - 0 psig; CP - Vac.

9-7-93 Completion
CP - 0 psig, TP - 0 psig. Flush tbg w/hot wtr. TIH w/1 BHP 2-1/2 x 1-1/2 x 16' ring plunger; one 3/4 x 2' pony; six 1" x 25' rods w/2-1/2" guides EL; 184 3/4" x 25' rods plain; one 3/4" x 6' pony; one 1/14" x 16' polish rod; spool out 4" off. Rig down & move off. Load to recover 734 BW.
DC: $23,103

9-16-93 Completion
Start pumping, SPM 9, stroke length - 64".
DC: $975

NEWFIELD

ATTACHMENT G-1
3 of 9

DAILY WORKOVER REPORT

WELL NAME: Balcron Federal 21-13y-9-16 **Report Date:** Nov. 16, 2005 **Day:** 1

Operation: Re-completion **Rig:** NC #3

WELL STATUS

Surf Csg: 8 5/8 @ 275' Prod Csg: 5 1/2" @ 5941' WT: 15.5# Csg PBTD: 5888'

Tbg: Size: 2 7/8 Wt: 6.5# Grd: J-55 Pkr/EOT @: 4808' BP/Sand PBTD:

PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
	4309-4325'	2/32			
	4751-4765'	2/28			

CHRONOLOGICAL OPERATIONS

Date Work Performed: Nov. 15, 2005 **SITP:** 0 **SICP:** 0

MIRU NC #3. RU HO trk & pump 75 BW dn casing @ 250 F. RD pumping unit & unseat rod pump. Flush tbg & rods W/ 65 BW @ 250 F. Reseat pump, soft joint rod string & strip off flow-T. Fill tbg W/ 3 BW. Pressure test tbg to 3000 psi. Retrieve rod string & unseat pump. TOH W/ rod string. LD btm 100 3/4" plain rods and rod pump. Well circulated back most of the pumped wtr. Lost est 30 BW to well. SIFN W/ 30 BWTR.

FLUID RECOVERY (BBLS)

Starting fluid load to be recovered:	0	Starting oil rec to date:	
Fluid lost/recovered today:	30	Oil lost/recovered today:	
Ending fluid to be recovered:	30	Cum oil recovered:	

IFL: FFL: FTP: Choke: Final Fluid Rate: Final oil cut:

TUBING DETAIL		ROD DETAIL		COSTS	
	AS PULLED:	AS PULLED:			
KB	10.00'	1 1/4" X 16' polished rod		NC #3 rig	$3,167
153	2 7/8 J-55 tbg	2-6' & 2-4' X 3/4" pony rods		Weatherford BOP	$140
	TA @ 4742'	176-3/4" plain rods		NDSI trucking	$1,200
1	2 7/8 J-55 tbg	10-3/4" scrapered rods		NDSI wtr & truck	$600
	SN @ 4775'	4-1 1/2" weight rods		D & M HO trk	$765
1	2 7/8 J-55 tbg	2 1/2" X 1 1/2" X RHAC pump		Unichem chemicals	$300
	2 7/8 NC			NPC trucking	$300
EOT	4808'			CDI TA repair	$400
				CDI pump repair	$1,000
				NPC supervision	$300
				DAILY COST:	$8,172
				TOTAL WELL COST:	$8,172

Workover Supervisor: Gary Dietz

NEWFIELD

ATTACHMENT G-1 4 of 9

DAILY WORKOVER REPORT

WELL NAME: Balcron Federal 21-13y-9-16 **Report Date:** Nov. 17, 2005 **Day:** 2

Operation: Re-completion **Rig:** NC #3

WELL STATUS

Surf Csg: 8 5/8 @ 275' Prod Csg: 5 1/2" @ 5941' WT: 15.5# Csg PBTD: 5888'

Tbg: Size: 2 7/8 Wt: 6.5# Grd: J-55 Pkr/EOT @: BP/Sand PBTD: 4250'

PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
	4103-4118'	4/60			
	4309-4325'	2/32			
	4751-4765'	2/28			

CHRONOLOGICAL OPERATIONS

Date Work Performed: Nov. 16, 2005 **SITP:** 0 **SICP:** 0

Open well w/ 0 psi. Circulate 60 bbls wtr down tbg. RU sand line & tag sand @ 5888'. RD sand line. NU Weatherford BOP. TOOH w/ tbg. RU Bit & scrp. TIH to 4814' w/ tbg (still oil in casing). TOOH w/ tbg. Fill hole w/ 50 bbls & test casing & plug to 1500 psi. RU Perforators LLC. RIH w/ Weatherford retrievable plug. Set plug HE RBP @ 4250'. RIH & perforate GB6 sds @ 4103-4118' w/ 4" Port Guns (19 gram, .46"HE, 120) w/ 4 spf for total of 60 shots. RD WLT. SIFN. 50 bbls water loss today.

&

FLUID RECOVERY (BBLS)

Starting fluid load to be recovered:	30	Starting oil rec to date:	
Fluid lost/recovered today:	50	Oil lost/recovered today:	
Ending fluid to be recovered:	80	Cum oil recovered:	

IFL: FFL: FTP: Choke: Final Fluid Rate: Final oil cut:

TUBING DETAIL		ROD DETAIL	COSTS	
	AS PULLED:	AS PULLED:	NC #3 rig	$3,935
KB	10.00'	1 1/4" X 16' polished rod	Weatherford BOP	
153	2 7/8 J-55 tbg	2-6' & 2-4' X 3/4" pony rods	Perforator LLC GB6sd	$3,390
	TA @ 4742'	176-3/4" plain rods	Weatherford Services	$1,800
1	2 7/8 J-55 tbg	10-3/4" scrapered rods	D & M HO trk	$298
	SN @ 4775'	4-1 1/2" weight rods	NPC Supervisor	$300
1	2 7/8 J-55 tbg	2 1/2" X 1 1/2" X RHAC pump		
	2 7/8 NC			
EOT	4808'			
			DAILY COST:	$9,723
			TOTAL WELL COST:	$17,895

Workover Supervisor: Ron Shuck

NEWFIELD

ATTACHMENT G-1
5 of 9

DAILY WORKOVER REPORT

WELL NAME: Balcron Federal 21-13y-9-16 **Report Date:** Nov. 18, 2005 **Day:** 3

Operation: Re-completion **Rig:** NC #3

WELL STATUS

Surf Csg: 8 5/8 @ 275' **Prod Csg:** 5 1/2" @ 5941' **WT:** 15.5# **Csg PBTD:** 5888'

Tbg: **Size:** 2 7/8 **Wt:** 6.5# **Grd:** J-55 **Pkr/EOT @:** **BP/Sand PBTD:** 4250'

PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
GB6 sds	4103-4118'	4/60			
	4309-4325'	2/32			
	4751-4765'	2/28			

CHRONOLOGICAL OPERATIONS

Date Work Performed: Nov. 17, 2005 **SITP:** 0 **SICP:** 0

RU BJ Services frac flang. BJ broke down gel unit (3 hours). Open well w/ 0 psi on casing. Frac GB6 sds down casing w/ 55,211#'s of 20/40 sand in 439 bbls of Lightning 17 frac fluid. Perfs broke down @ 3926 psi, back to 1245 psi. Treated @ ave pressure of 1870 w/ ave rate of 25.2 bpm w/ 8 ppg of sand. ISIP was 2150. 439 bbls EWTR. RD BJ. Flow well back. Well flowed for 2 hours & died w/ 190 bbls rec'd. SIFN.

&

FLUID RECOVERY (BBLS)

Starting fluid load to be recovered: 519 **Starting oil rec to date:**

Fluid lost/recovered today: 190 **Oil lost/recovered today:**

Ending fluid to be recovered: 329 **Cum oil recovered:**

IFL: **FFL:** **FTP:** **Choke:** **Final Fluid Rate:** **Final oil cut:**

STIMULATION DETAIL

Base Fluid used: Lightning 17 **Job Type:** Sand frac

Company: BJ Services

Procedure or Equipment detail: GB6 sds down casing.

4410 gals of pad

2944 gals w/ 1-5 ppg of 20/40 sand

5872 gals w/ 5-8 ppg of 20/40 sand

1180 gals w/ 8 ppg of 20/40 sand

Flush w/ 4032 gals of slick water

Max TP: 2090 **Max Rate:** 25.4 **Total fluid pmpd:** 439 bbls

Avg TP: 1870 **Avg Rate:** 25.2 **Total Prop pmpd:** 55,211#'s

ISIP: 2150 **5 min:** **10 min:** **FG:** .96

Completion Supervisor: Ron Shuck

COSTS

NC #3 rig	$3,616
Weatherford BOPx2	$260
BJ Servics GB6 sds	$22,064
Weatherford Services	$1,800
Betts frac water	$1,200
NPC fuel gas	$300
NPC Supervisor	$300
Betts water transfer	$300
RNI wtr disposal	$500
DAILY COST:	$30,340
TOTAL WELL COST:	$48,235

NEWFIELD

ATTACHMENT G-1
6 of 9

DAILY WORKOVER REPORT

WELL NAME: Balcron Federal 21-13y-9-16 **Report Date:** Nov. 19, 2005 **Day:** 4

Operation: Re-completion **Rig:** NC #3

WELL STATUS

Surf Csg:	8 5/8	@	275'	Prod Csg:	5 1/2"	@	5941'	WT:	15.5#	Csg PBTD:	5888'
Tbg:	Size:	2 7/8	Wt:	6.5#	Grd:	J-55	Pkr/EOT @:	4120'		BP/Sand PBTD:	4250'
										BP/Sand PBTD:	4183'

PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
GB6 sds	4103-4118'	4/60			
	4309-4325'	2/32			
	4751-4765'	2/28			

CHRONOLOGICAL OPERATIONS

Date Work Performed: Nov. 18, 2005 **SITP:** _____ **SICP:** 100

Thaw wellhead & BOP W/ HO trk. Bleed pressure off well. Rec est 15 BTF. ND isolation tool. TIH W/ RH, balltest sub & tbg. Tag fill @ 4183'. Tbg displaced 10 BW on TIH. Circ hole W/ clean wtr. Pull EOT to 4120'. RU swab equipment. IFL @ sfc. Can't get sinker bars in hole due to wax coating on tbg ID. Rev circ hole W/ rig pump--no change. RU HO trk & flush tbg W/ 60 BW @ 250 F (well circulated). Resume swabbing. Made 7 swb runs rec 81 BTF W/ light gas, tr oil & no sand. FFL @ 1000'. SIFN W/ est 223 BWTR.

FLUID RECOVERY (BBLS)

Starting fluid load to be recovered:	329	Starting oil rec to date:	
Fluid lost/recovered today:	106	Oil lost/recovered today:	
Ending fluid to be recovered:	223	Cum oil recovered:	

IFL: sfc FFL: 1000' FTP: _____ Choke: _____ Final Fluid Rate: _____ Final oil cut: tr

STIMULATION DETAIL

Base Fluid used: _____ **Job Type:** _____

Company: _____

Procedure or Equipment detail:

_____

_____

_____

_____

_____

Max TP: _____ **Max Rate:** _____ **Total fluid pmpd:** _____

Avg TP: _____ **Avg Rate:** _____ **Total Prop pmpd:** _____

ISIP: _____ **5 min:** _____ **10 min:** _____ **FG:** _____

Completion Supervisor: Gary Dietz

COSTS

NC #3 rig	$3,887
Weatherford BOP	$140
NDSI HO trk	$500
NPC supervision	$300
DAILY COST:	$4,827
TOTAL WELL COST:	$53,062

NEWFIELD

ATTACHMENT G-1 7 & 9

DAILY WORKOVER REPORT

WELL NAME: Balcron Federal 21-13y-9-16 **Report Date:** Nov. 22, 2005 **Day:** 5

Operation: Re-completion **Rig:** NC #3

WELL STATUS

Surf Csg:	8 5/8	@	275'	Prod Csg:	5 1/2"	@	5941'	WT:	15.5#	Csg PBTD:	5888'
Tbg:	Size:	2 7/8	Wt:	6.5#	Grd:	J-55	Pkr/EOT @:	4800'		BP/Sand PBTD:	5888'

PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
GB6 sds	4103-4118'	4/60			
	4309-4325'	2/32			
	4751-4765'	2/28			

CHRONOLOGICAL OPERATIONS

Date Work Performed: Nov. 21, 2005 **SITP:** 100 **SICP:** 100

Thaw wellhead, BOP & tbg stump W/ HO trk. Bleed gas off well. TIH W/ tbg. Tag sd @ 4183' (no new fill). C/O sd to RBP @ 4250'. Circ hole clean W/ no fluid loss--rec tr oil. Attempt to latch onto plug W/ spuds & rotation--cannot get J'd on. TOH W/ tbg and inspect RH. Found iron (?) wedged inside. PU new RH & TIH W/ tbg. Latch onto and release "HE" RBP @ 4250'. TOH W/ tbg--LD plug. TIH W/ BHA & production tbg to 4800'. SIFN W/ est 223 BWTR.

FLUID RECOVERY (BBLS)

Starting fluid load to be recovered:	223	Starting oil rec to date:	
Fluid lost/recovered today:	0	Oil lost/recovered today:	
Ending fluid to be recovered:	223	Cum oil recovered:	

IFL: FFL: FTP: Choke: Final Fluid Rate: Final oil cut:

TUBING DETAIL	ROD DETAIL	COSTS	
		NC #3 rig	$4,207
		Weatherford BOP	$140
		NDSI HO trk	$250
		CDI SN	$80
		NPC trucking	$300
		Mt. West sanitation	$300
		Weatherford serv/tools	$975
		NPC supervision	$300
		DAILY COST:	$6,552
		TOTAL WELL COST:	$59,614

Workover Supervisor: Gary Dietz

NEWFIELD

ATTACHMENT G-1
8 of 9

DAILY WORKOVER REPORT

WELL NAME: Balcron Federal 21-13y-9-16 **Report Date:** Nov. 23, 2005 **Day:** 6

Operation: Re-completion **Rig:** NC #3

WELL STATUS

Surf Csg:	8 5/8	@	275'	Prod Csg:	5 1/2"	@	5941'	WT:	15.5#	Csg PBTD:	5888'
Tbg:	Size:	2 7/8	Wt:	6.5#	Grd:	J-55	Anchor @:	4748'		BP/Sand PBTD:	5888'

PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
GB6 sds	4103-4118'	4/60			
	4309-4325'	2/32			
	4751-4765'	2/28			

CHRONOLOGICAL OPERATIONS

Date Work Performed: Nov. 22, 2005 **SITP:** 0 **SICP:** 0

ND BOP. Set TA @ 4748' W/ SN @ 4782' & EOT @ 4817'. Land tbg W/ 15,000# tension. NU wellhead. PU & TIH W/ pump and revised rod string as follows: repaired CDI 2 1/2" X 1 1/2" X 16' RHAC pump, 6-1 1/2" weight rods (top 2 "A" grade), 10-3/4" scrapered rods, 74-3/4" plain rods, 100-3/4" scrapered rods ("A" grade), 2-4' & 2-6' X 3/4" pony rods and 1 1/4" X 16' polished rod (added "A" grade rod rotator). Seat pump & RU pumping unit. Fill tbg W/ 15 BW. Pressure test tbg & pump to 200 psi. Stroke pump up W/ unit to 800 psi. Good pump action. RDMOSU. Est 238 BWTR.
Place well on production @ 11:30 AM 11/22/2005 W/ 56" SL @ 4 SPM.
FINAL REPORT!!

FLUID RECOVERY (BBLS)

Starting fluid load to be recovered:	223	Starting oil rec to date:	
Fluid lost/recovered today:	15	Oil lost/recovered today:	
Ending fluid to be recovered:	238	Cum oil recovered:	

IFL: **FFL:** **FTP:** **Choke:** **Final Fluid Rate:** **Final oil cut:**

TUBING DETAIL		ROD DETAIL		COSTS	
				NC #3 rig	$1,875
KB	10.00'	1 1/4" X 16' polished rod		Weatherford BOP	$140
153	2 7/8 J-55 tbg (4738.20')	- X 3/4" pony rods		D & M HO trk	$650
	TA (2.80' @ 4748.20' KB)	-3/4" scrapered rods		"A" scrap / wt rods	$6,512
1	2 7/8 J-55 tbg (31.47')	-3/4" plain rods		RNI wtr disposal	$1,200
	SN (1.10' @ 4782.47')	10-3/4" scrapered rods		NPC frac tks(2X6 dys)	$480
1	2 7/8 J-55 tbg (32.60')	6-1 1/2" weight rods		NPC swb tk (6 dys)	$240
	2 7/8 NC (.45')	CDI 2 1/2" X 1 1/2" X -'		"A" rod rotator	$500
EOT	4816.62' W/ 10' KB	RHAC pump W/ SM plunger		NPC supervision	$300
				DAILY COST:	$11,897

Workover Supervisor: Gary Dietz **TOTAL WELL COST:** $71,511

ATTACHMENT G-1

9 of 9

Daily Activity Report

Format For Sundry

FEDERAL 21-13Y-9-16

7/1/2008 To 11/30/2008

8/30/2008 Day: 1 **Recompletion**

Western #2 on 8/29/2008 - MIRU Western #2. Pump 70 bbls 250° water down csg. RD pumping unit. Unseat pump w/ 10,000# over string. Flush rods w/ 30 bbls 250° water. Softseat pump. Attempt to fill & test tbg. w/ no success. POOH w/ rods, stopping once to flush rods w/ 30 bbls 250° water. LD pump. X-over for tbg. ND wellhead. Release TAC. NU BOP. RIH w/ tbg. to 5426' (did not tag fill). POOH w/ tbg., stopping once to flush tbg. w/ 25 bbls 250° water. RU wireline truck. Perforate A1 sds @ 5036-42' w/ 3 1/8" slick guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 24 shots. RD wireline truck. SWIFN.

9/3/2008 Day: 2 **Recompletion**

Western #2 on 9/2/2008 - Talley, PU & RIH w/ 5 1/2" plug, Pkr & 154- jts of 2 7/8" N-80 tbg. Set plug @ 5090'. Set pkr @ 4990'. Break down A1 sds. Broke @ 2500 psi. Release pkr. SWIFN.

9/4/2008 Day: 3 **Recompletion**

Western #2 on 9/3/2008 - Stage 1, Tbg frac A3 sds. 2 psi on well. RU BJ services to tbg. Fill & hold pressure on annulus during frac. 2 psi on tbg. Fill tbg w/ 15 BW. Frac A1 sds w/ 16,591#'s of 20/40 sand in 238 bbls of Lightning 17 fluid. Broke @ 3689 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 3442 psi @ ave rate of 13.1BPM. ISIP 1962 psi. Begin immediate flowback on 20/64 choke @ 3 BPM. Flowed back for 1 Hr 10 mins, 130 BTF & died. Pressure up on annulus. Release pkr. Circulate clean down to plug @ 5090' (20' of fill). Release plug. LD 2 7/8" N-80 workstring. PU & RIH w/ production tbg, Pressure testing to 3000 psi. Final test good. RU sandline & fish SV. RU swab equipment. SWIFN w/ 319 BWTR..

9/5/2008 Day: 4 **Recompletion**

Western #2 on 9/4/2008 - 0 psi on well. RIH w/ swab. IFL @ 1200'. Made 10 runs, Rec 54 BTF, FFL @ 3200'. No oil, No sand. RD swab equipment. TIH w/ 5 jts of tbg. EOT @ 5418'. Circulate well clean. LD 8 jts of tbg. ND BOP. Set TA @ 5059' w/ 16,000#'s of tension, SN @ 5124', EOT @ 5187'. NU WH. Flush tbg w/ 60 BW. PU & prime up rod pump. RIH w/ rods as follows: 2 1/2" X 1 1/2" X 20' RHAC (179" Max SL), 6- 1 1/2" wt bars, 99- 3/4" guided rods, 98- 7/8" guided rods (A grade), 1-8', 1-6', 1-4', 1-2' X 7/8" pony rods (A grade), 1 1/2" X 26' Polish rod (A grade). Hang head, Space out rods. Fill tbg w/ 5 bbls of wtr. Pressure test to 800 psi w/ unit. RDMOSU. POP @ 3:30 PM w/ 56" SL @ 4 SPM. 325 BWTR. FINAL REPORT!!

Pertinent Files: Go to File List

ATTACHMENT H

WORK PROCEDURE FOR PLUGGING AND ABANDONMENT

1.		Set CIBP @ 4003'
2.	Plug #1	Set 100' plug on top of CIBP using 12 sx Class "G" cement
3.	Plug #2	187' balance plug using 21 sx Class "G" cement 50' above Trona-Bird's Nest extending 50' below base of Mahogany Oil Shale
4.	Plug #3	120' balance plug using 14sx Class "G" cement 60' above Uinta/Green River and extending 60' below
5.		Perforate 4 JSPF @ 309'
6.	Plug #4	Circulate 102 sx Class "G" cement down 5 ½" and up the 5 ½" x 8 5/8" annulus

The approximate cost to plug and abandon this well is $42,000.

ATTACHMENT

Federal #21-13Y-9-16

Spud Date: 8/13/1993
Put on Production: 9/16/1993
GL: 5535' KB: 5545'

Initial Production: 84 BOPD, 126 MCFD, 7 BWPD

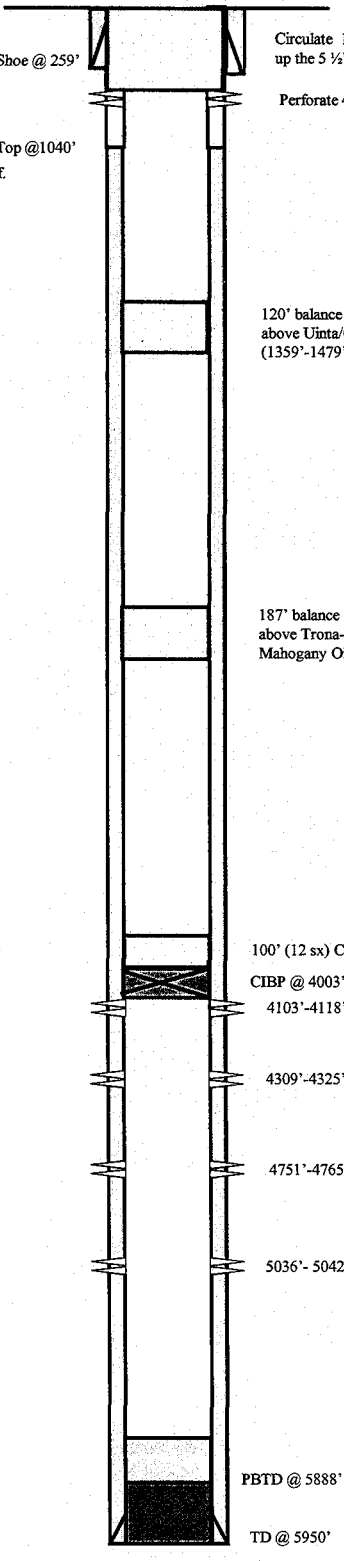
Proposed Injection Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 6 jts. (275')
HOLE SIZE:12-1/4"
CEMENT DATA: 150 sxs Premium Plus cement, est 6 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: K-55
WEIGHT: 15.5#
LENGTH: 139 jts. (5945.72')
DEPTH LANDED: 5940.72'
HOLE SIZE: 7-7/8"
CEMENT DATA: 145 sxs Hilift cement & 325 sxs Class "G".
CEMENT TOP AT: 1040' per CBL



NEWFIELD

Federal #21-13Y-9-16
702' FNL & 1830' FWL
NENW Section 13-T9S-R16E
Duchesne Co, Utah
API #43-013-31400; Lease #UTU-64805

JL 11/7/2011

FORM 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31,2010

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on page 2

5. Lease Serial No.
UTU-64805

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or
GMBU

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
FEDERAL 21-13Y

2. Name of Operator
NEWFIELD PRODUCTION COMPANY

9. API Well No.
4301331400

3a. Address Route 3 Box 3630
Myton, UT 84052

3b. Phone *(include are code)*
435.646.3721

10. Field and Pool, or Exploratory Area
GREATER MB UNIT

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
703 FNL 1830 FWL

NENW Section 13 T9S R16E

11. County or Parish, State
DUCHESNE, UT

12. CHECK APPROPRIATE BOX(ES) TO INIDICATE NATURE OF NOTICE, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other _____
	☐ Change Plans	☐ Plug & Abandon	☐ Temporarily Abandon	
	☒ Convert to Injector	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Newfield Production proposes to convert the above mentioned well from producing oil well to an injection well.

I hereby certify that the foregoing is true and correct *(Printed/ Typed)*
Jill Loyle

Title
Regulatory Technician

Signature

Date
12/12/2011

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

4770 S. 5600 W.
P.O. BOX 704005
WEST VALLEY CITY, UTAH 84170
FED.TAX I.D.# 87-0217663

The Salt Lake Tribune MEDIAONE Deseret News

PROOF OF PUBLICATION

CUSTOMER'S COPY

CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	DATE
DIV OF OIL-GAS & MINING, 1594 W NORTH TEMP #1210 P.O. BOX 145801 SALT LAKE CITY, UT 84114	9001402352	1/17/2012

ACCOUNT NAME	
DIV OF OIL-GAS & MINING,	
TELEPHONE	ADORDER# / INVOICE NUMB
8015385340	0000758932 /
SCHEDULE	
Start 01/16/2012	End 01/16/2012
CUST. REF. NO.	
UIC-383	
CAPTION	
BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL R	
SIZE	
69 Lines	2.00 COLUMN
TIMES	RATE
4	
MISC. CHARGES	AD CHARGES
	TOTAL COST
	236.84

BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH
NOTICE OF AGENCY ACTION
CAUSE NO. UIC-383

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 14, 15, AND 22, TOWNSHIP 9 SOUTH, RANGE 15 EAST, AND SECTION 13, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Newfield Production Company for administrative approval of the following wells located in Duchesne County, Utah, for conversion to Class II injection wells:

Greater Monument Butte Unit:
Ashley Federal 10-14-9-15 well located in NW/4 SE/4, Section 14, Township 9 South, Range 15 East
API 43-013-32401
Ashley Federal 14-14-9-15 well located in SE/4 SW/4, Section 14, Township 9 South, Range 15 East
API 43-013-32670
Ashley Federal 16-15-9-15 well located in SE/4 SE/4, Section 15, Township 9 South, Range 15 East
API 43-013-32642
Ashley Federal 4-22-9-15 well located in NW/4 NW/4, Section 22, Township 9 South, Range 15 East
API 43-013-32428
Ashley Federal 10-22-9-15 well located in NW/4 SE/4, Section 22, Township 9 South, Range 15 East
API 43-013-32825
Ashley Federal 12-22-9-15 well located in NW/4 SW/4, Section 22, Township 9 South, Range 15 East
API 43-013-32859
Ashley Federal 14-22-9-15 well located in SE/4 SW/4, Section 22, Township 9 South, Range 15 East
API 43-013-32823
Federal 21-13Y well located in NE/4 NW/4, Section 13, Township 9 South, Range 16 East
API 43-013-31400

The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selected zones in the Green River Formation will be used for water injection. The maximum requested injection pressures and rates will be determined based on fracture gradient information submitted by Newfield Production Company.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Brad Hill, Permitting Manager, at P.O. Box 145801, Salt Lake City, UT 84114-5801, phone number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 10th day of January, 2012.
STATE OF UTAH
DIVISION OF OIL, GAS & MINING

UPAXLP

AFFIDAVIT OF PUBLICATION

AS NEWSPAPER AGENCY COMPANY, LLC dba MEDIAONE OF UTAH LEGAL BOOKER, I CERTIFY THAT THE ATTACHED ADVERTISEMENT OF **BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH NOTICE OF AGENCY ACTION CAUSE NO. UIC-383 IN THE MATTER OF THE APPLICA** FOR **DIV OF OIL-GAS & MINING,** WAS PUBLISHED BY THE NEWSPAPER AGENCY COMPANY, LLC dba MEDIAONE OF UTAH, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET NEWS, DAILY NEWSPAPERS PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN UTAH, AND PUBLISHED IN SALT LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH NOTICE IS ALSO POSTED ON UTAHLEGALS.COM ON THE SAME DAY AS THE FIRST NEWSPAPER PUBLICATION DATE AND REMAINS ON UTAHLEGALS COM INDEFINATELY

PUBLISHED ON Start 01/16/2012 End 01/16/2012

SIGNATURE

VIRGINIA CRAFT
Notary Public State of Utah
Commission # 581469
My Commission Expires
January 12, 2014

1/17/2012

THIS IS NOT A STATEMENT BUT A "PROOF OF PUBLICATION"
PLEASE PAY FROM BILLING STATEMENT

AFFIDAVIT OF PUBLICATION

County of Duchesne,
STATE OF UTAH

I, Kevin Ashby on oath, say that I am the PUBLISHER of the Uintah Basin Standard, a weekly newspaper of general circulation, published at Roosevelt, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue such newspaper for 1 consecutive issues, and that the first publication was on the 17 day of January, 20 12, and that the last publication of such notice was in the issue of such newspaper dated the 17 day of January, 20 12, and that said notice was published on Utahlegals.com on the same day as the first newspaper publication and the notice remained on Utahlegals.com until the end of the scheduled run.

Kevin Ashby
Publisher

Subscribed and sworn to before me this
17 day of January, 20 12

Bonnie Parrish
Notary Public

BONNIE PARRISH
NOTARY PUBLIC-STATE OF UTAH
471 N HILLCREST DR 415-5
ROOSEVELT, UTAH 84066
COMM. EXP. 3-31-2012

NOTICE OF AGENCY ACTION CAUSE NO. UIC-383

BEFORE THE DIVISION OF OIL, GAS AND MINING, DEPARTMENT OF NATURAL RESOURCES, STATE OF UTAH.

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 14, 15, AND 22, TOWNSHIP 9 SOUTH, RANGE 15 EAST, AND SECTION 13, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

THE STATE OF UTAH

TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Newfield Production Company for administrative approval of the following wells located in Duchesne County, Utah, for conversion to Class II injection wells:

Greater Monument Butte Unit:

Ashley Federal 10-14-9-15 well located in NW/4 SE/4, Section 14, Township 9 South, Range 15 East

Federal 21-13Y well located in NE/4 NW/4, Section 13, Township 9 South, Range 16 East

API 43-013-31400

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Dated this 10th day of January, 2012.

STATE OF UTAH
DIVISION OF OIL, GAS & MINING
/s/
Brad Hill
Permitting Manager

Published in the Uintah Basin Standard January 17, 2012.

Misc Wanted

Buying all raw fur! All stages of put up, routs monthly. Contact Ryan Custin 307-630-7144.

BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH
NOTICE OF AGENCY ACTION
CAUSE NO. UIC-383

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 14, 15, AND 22, TOWNSHIP 9 SOUTH, RANGE 15 EAST, AND SECTION 13, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

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API 43-013-32401
Ashley Federal 14-14-9-15 well located in SE/4 SW/4, Section 14, Township 9 South, Range 15 East
API 43-013-32670
Ashley Federal 16-15-9-15 well located in SE/4 SE/4, Section 15, Township 9 South, Range 15 East
API 43-013-32642
Ashley Federal 4-22-9-15 well located in NW/4 NW/4, Section 22, Township 9 South, Range 15 East
API 43-013-32428
Ashley Federal 10-22-9-15 well located in NW/4 SE/4, Section 22, Township 9 South, Range 15 East
API 43-013-32825
Ashley Federal 12-22-9-15 well located in NW/4 SW/4, Section 22, Township 9 South, Range 15 East
API 43-013-32859
Ashley Federal 14-22-9-15 well located in SE/4 SW/4, Section 22, Township 9 South, Range 15 East
API 43-013-32823
Federal 21-13Y well located in NE/4 NW/4, Section 13, Township 9 South, Range 16 East
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The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

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notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 10th day of January, 2012.

STATE OF UTAH
DIVISION OF OIL, GAS & MINING

Brad Hill
Permitting Manager

Newfield Production Company

ASHLEY FEDERAL 10-14-9-15, ASHLEY FEDERAL 14-14-9-15, ASHLEY FEDERAL 16-15-9-15, ASHLEY FEDERAL 4-22-9-15, ASHLEY FEDERAL 10-22-9-15, ASHLEY FEDERAL 12-22-9-15, ASHLEY FEDERAL 14-22-9-15, FEDERAL 21-13Y

Cause No. UIC-383

Publication Notices were sent to the following:

Newfield Production Company
1001 17th Street, Suite 2000
Denver, CO 80202

Uintah Basin Standard
268 South 200 East
Roosevelt, UT 84066
via e-mail legals@ubstandard.com

Salt Lake Tribune
P O Box 45838
Salt Lake City, UT 84145
via e-mail naclegal@mediaoneutah.com

Vernal Office
Bureau of Land Management
170 South 500 East
Vernal, UT 84078

Duchesne County Planning
P O Box 317
Duchesne, UT 84021-0317

Bruce Suchomel
US EPA Region 8
MS 8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129

Newfield Production Company
Rt 3 Box 3630
Myton, UT 84052

Ute Tribe
P O Box 190
Ft Duchesne, UT 84026

Jean Sweet

Jean Sweet - Re: Notice of Agency Action – Newfield Production Company Cause No. UIC-383

From: Cindy Kleinfelter <classifieds@ubstandard.com>
To: Jean Sweet <jsweet@utah.gov>
Date: 1/12/2012 1:05 PM
Subject: Re: Notice of Agency Action – Newfield Production Company Cause No. UIC-383

On 1/12/2012 11:35 AM, Jean Sweet wrote:

> To Whom It May Concern:
>
> Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: jsweet@utah.gov.
>
> Please send proof of publication and billing to:
>
> Division of Oil, Gas and Mining
> PO Box 145801
> Salt Lake City, UT 84114-5801
>
> Sincerely,
>
> Jean Sweet, Executive Secretary
> Utah Div. of Oil, Gas & Mining
> 1594 West Temple, Suite 1210
> Salt Lake City, UT
> 801-538-5329
> jsweet@utah.gov

Hello. It will publish Jan. 17.
Thanks
Cindy

GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

January 12, 2012

Via e-mail: legals@ubstandard.com

Uintah Basin Standard
268 South 200 East
Roosevelt, UT 84066

Subject: Notice of Agency Action – Newfield Production Company Cause No. UIC-383

To Whom It May Concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: jsweet@utah.gov.

Please send proof of publication and billing to:

Division of Oil, Gas and Mining
PO Box 145801
Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet
Executive Secretary

Enclosure

From: "Fultz, Mark" <naclegal@mediaoneutah.com>
To: <jsweet@utah.gov>
Date: 1/12/2012 1:30 PM
Subject: UIC-383
Attachments: OrderConf.pdf

AD# 758932
Run Trib/DNews - 1/16
Cost $236.84
Thank you
Mark

The Salt Lake Tribune WWW.SLTRIB.COM | MEDIAONE OF UTAH A NEWSPAPER AGENCY COMPANY WWW.MEDIAONEUTAH.COM | Deseret News WWW.DESERETNEWS.COM

Remit to: P.O. Box 704005
West Valley City, UT 84170

Order Confirmation for Ad #0000758932-01

Client	DIV OF OIL-GAS & MINING	**Payor Customer**	DIV OF OIL-GAS & MINING
Client Phone	801-538-5340	**Payor Phone**	801-538-5340
Account#	9001402352	**Payor Account**	9001402352
Address	1594 W NORTH TEMP #1210,P.O. BOX 145801 SALT LAKE CITY, UT 84114 USA	**Payor Address**	1594 W NORTH TEMP #1210,P.O. BO) SALT LAKE CITY, UT 84114
Fax	801-359-3940	**Ordered By**	**Acct. Exec**
EMail	earlenerussell@utah.gov	Jean	mfultz

Total Amount	**$236.84**			
Payment Amt	**$0.00**			
Amount Due	**$236.84**	**Tear Sheets** 0	**Proofs** 0	**Affidavits** 1

Payment Method

PO Number UIC-383

Confirmation Notes:

Text: Jean

Ad Type	**Ad Size**	**Color**
Legal Liner	2.0 X 69 Li	<NONE>

Product Salt Lake Tribune::	**Placement** Legal Liner Notice - 0998	**Position** Public Meeting/Hear-ing Notices
Scheduled Date(s):	01/16/2012	
Product Deseret News::	**Placement** Legal Liner Notice - 0998	**Position** Public Meeting/Hear-ing Notices
Scheduled Date(s):	01/16/2012	
Product sltrib.com::	**Placement** Legal Liner Notice - 0998	**Position** Public Meeting/Hear-ing Notices
Scheduled Date(s):	01/16/2012	
Product utahlegals.com::	**Placement** utahlegals.com	**Position** utahlegals.com
Scheduled Date(s):	01/16/2012	

Ad Content Proof Actual Size

BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH
NOTICE OF AGENCY ACTION
CAUSE NO. UIC-383

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 14, 15, AND 22, TOWNSHIP 9 SOUTH, RANGE 15 EAST, AND SECTION 13, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Newfield Production Company for administrative approval of the following wells located in Duchesne County, Utah, for conversion to Class II injection wells:

Greater Monument Butte Unit:
Ashley Federal 10-14-9-15 well located in NW/4 SE/4, Section 14, Township 9 South, Range 15 East
API 43-013-32401
Ashley Federal 14-14-9-15 well located in SE/4 SW/4, Section 14, Township 9 South, Range 15 East
API 43-013-32670
Ashley Federal 16-15-9-15 well located in SE/4 SE/4, Section 15, Township 9 South, Range 15 East
API 43-013-32642
Ashley Federal 4-22-9-15 well located in NW/4 NW/4, Section 22, Township 9 South, Range 15 East
API 43-013-32428
Ashley Federal 10-22-9-15 well located in NW/4 SE/4, Section 22, Township 9 South, Range 15 East
API 43-013-32825
Ashley Federal 12-22-9-15 well located in NW/4 SW/4, Section 22, Township 9 South, Range 15 East
API 43-013-32859
Ashley Federal 14-22-9-15 well located in SE/4 SW/4, Section 22, Township 9 South, Range 15 East
API 43-013-32823
Federal 21-13Y well located in NE/4 NW/4, Section 13, Township 9 South, Range 16 East
API 43-013-31400

The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selected zones in the Green River Formation will be used for water injection. The maximum requested injection pressures and rates will be determined based on fracture gradient information submitted by Newfield Production Company.

Any person desiring to object to the application or otherwise intervene in the proceeding must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Brad Hill, Permitting Manager, at P.O. Box 145801, Salt Lake City, UT 84114-5801, phone number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 10th day of January, 2012.
STATE OF UTAH
DIVISION OF OIL, GAS & MINING
/s/ Brad Hill
Permitting Manager
758932 UPAXLP

GARY R. HERBERT
Governor
GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

January 12, 2012

VIA E-MAIL naclegal@mediaoneutah.com

Salt Lake Tribune
P. O. Box 45838
Salt Lake City, UT 84145

Subject: Notice of Agency Action – Newfield Production Company Cause No. UIC-383

To Whom It May Concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: jsweet@utah.gov.

Please send proof of publication and billing for **account #9001402352** to:

Division of Oil, Gas and Mining
PO Box 145801
Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet
Executive Secretary

Enclosure

GARY R. HERBERT
Governor
GREGORY S. BELL
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

February 7, 2012

Newfield Production Company
1001 Seventeenth Street, Suite 2000
Denver, CO 80202

Subject: Greater Monument Butte Unit Well: Federal 21-13Y, Section 13, Township 9 South, Range 16 East, SLBM, Duchesne County, Utah, API Well # 43-013-31400

Gentlemen:

Pursuant to Utah Admin. Code R649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced well to a Class II injection well. Accordingly, the following stipulations shall apply for full compliance with this approval:

1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.

2. Conformance with all conditions and requirements of the complete application submitted by Newfield Production Company.

3. A casing\tubing pressure test shall be conducted prior to commencing injection.

4. Pressure shall be monitored between the surface casing and the production casing on a regular basis. Any pressure changes observed shall be reported to the Division immediately.

5. The top of the injection interval shall be limited to a depth no higher than 4,665 feet in the Federal 21-13Y well.

A final approval to commence injection will be issued upon satisfactory completion of the listed stipulations. If you have any questions regarding this approval or the necessary requirements, please contact Mark Reinbold at 801-538-5333 or Brad Hill at 801-538-5315.

Sincerely,

John Rogers
Associate Director

JR/MLR/js
cc: Bruce Suchomel, Environmental Protection Agency
Bureau of Land Management, Vernal
Duchesne County
Newfield Production Company, Myton
Well File
N:\O&G Reviewed Docs\ChronFile\UIC\Newfield

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • *www.ogm.utah.gov*

UTAH DNR OIL, GAS & MINING

DIVISION OF OIL, GAS AND MINING
UNDERGROUND INJECTION CONTROL PROGRAM
PERMIT
STATEMENT OF BASIS

Applicant: Newfield Production Company **Well:** Federal 21-13Y-9-16

Location: 13/9S/16E **API:** 43-013-31400

Ownership Issues: The proposed well is located on BLM land. The well is located in the Greater Monument Butte Unit. Lands in the one-half mile radius of the well are administered by the BLM. The Federal Government is the mineral owner within the area of review (AOR). Newfield and other various individuals hold the leases in the unit. Newfield has provided a list of all surface, mineral and lease holders in the half-mile radius. Newfield is the operator of the Greater Monument Butte Unit. Newfield has submitted an affidavit stating that all owners and interest owners have been notified of their intent.

Well Integrity: The proposed well has surface casing set at 259 feet and has a cement top at the surface. A 5½ inch production casing is set at 5,941 feet. A cement bond log demonstrates adequate bond in this well up to about 4,565 feet. A 2 7/8 inch tubing with a packer is proposed at 4,053 feet, but will need to be adjusted downward. A mechanical integrity test will be run on the well prior to injection. There are 6 producing wells, 3 injection wells, and 1 P/A well (abandoned 9/19/2012) in the AOR. Most of the existing wells have evidence of adequate casing and cement for the proposed injection interval. However, there are two wells in the AOR which appear to have questionable cement tops for the proposed injection interval. These include the active injection well, the Monument Federal 41-14J well (API# 43-013-31408) and the proposed injection well, the Federal 21-13Y-9-16. The more limiting is the proposed injection well itself. Its CBL (8/26/1993) appears to indicate a cement top at about 4,565 feet. This was the basis for limiting the injection top to a depth no higher than 4,665 feet, as specified in the conversion permit issued 2/7/2012 (see revision in next paragraph). Inasmuch as some logs are of dubious quality or do not exhibit conclusive cement tops, it has been necessary to calculate approximate tops for "lite" cement, based on the cement indicated in the well completion report.

Revision (12/21/2012): Newfield ran a new CBL (8/30/2012) in the Federal 21-13Y (43-013-31400) well, indicating a top of light cement up to about 1,100 feet. The issue was subsequently reviewed by Mark Reinbold and Brad Hill of DOGM. It was concluded that the top of the injection interval in the Federal 7-13 well can be raised to 3,822 feet, as originally requested, with the stipulation that Newfield regularly monitor the pressure between the surface casing and production casing in the Federal 21-13Y (43-013-31400) well. A similar monitoring will be required in the Monument Federal 41-14J (43-013-31408). An amended conversion permit for the Federal 7-13 well, including this stipulation, will be issued.

Ground Water Protection: As interpreted from the Utah Geological Survey's DOE Project-Uinta Basin Water Draft Map (Paul B. Anderson, December 2, 2011), the base of moderately saline water (3000-10,000 mg/l TDS) is at a depth of approximately 1700 feet. The requested injection interval is between 3,882 feet and 5,888 feet in the Green River Formation. However, as described in the **Well Integrity** section above, the top of good cement bond (as indicated by the original CBL) is at about 4,565 feet in the proposed injection well, the Monument Federal 21-13Y-9-16 well. For this reason, it was recommended in the conversion permit that the top of the injection interval be permitted no higher than a depth of 4,665 feet in the proposed injection well. Based on the newer CBL, the requested injection top of 3,882 feet will be permitted, with the monitoring of pressures as described above. Information submitted by Newfield indicates that the fracture gradient for the 21-13Y-9-16 well is 0.85 psi/ft., which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 1,772 psig. The requested maximum pressure is 1,772 psig. The anticipated average injection pressure is 1100 psig. Injection at this pressure should not initiate any new fractures or propagate existing fractures in the adjacent confining intervals. Any ground water present should be adequately protected.

Oil/Gas& Other Mineral Resources Protection: The Board of Oil, Gas & Mining approved the Greater Monument Butte Unit on December 1, 2009. Correlative rights issues were addressed at this time. Previous reviews in this area indicate that other mineral resources in the area have been protected or are not at issue.

Bonding: Bonded with the BLM

Actions Taken and Further Approvals Needed: A notice of agency action has been sent to the Salt Lake Tribune and the Uinta Basin Standard. A casing/tubing pressure test will be required prior to injection. It is recommended that approval of this application be granted.

Note: Applicable technical publications concerning water resources in the general vicinity of this project have been reviewed and taken into consideration during the permit review process.

Reviewer(s): Mark Reinbold Date: 1/20/2012 (rev. 12/21/2012)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL Oil Well	**5.LEASE DESIGNATION AND SERIAL NUMBER:** UTU-64805
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY	**8. WELL NAME and NUMBER:** FEDERAL 21-13Y
	9. API NUMBER: 43013314000000
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052 **PHONE NUMBER:** 435 646-4825 Ext	**9. FIELD and POOL or WILDCAT:** MONUMENT BUTTE
4. LOCATION OF WELL **FOOTAGES AT SURFACE:** 0703 FNL 1830 FWL **QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:** Qtr/Qtr: NENW Section: 13 Township: 09.0S Range: 16.0E Meridian: S	**COUNTY:** DUCHESNE **STATE:** UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
✓ SUBSEQUENT REPORT Date of Work Completion: 4/11/2012	✓ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	✓ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The subject well has been converted from a producing oil well to an injection well on 04/09/2012. On 4/10/2012 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 04/11/2012 the casing was pressured up to 1250 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not a State representative available to witness the test.

Accepted by the Utah Division of Oil, Gas and Mining

Date: May 03, 2012

By:

NAME (PLEASE PRINT) Lucy Chavez-Naupoto	**PHONE NUMBER** 435 646-4874	**TITLE** Water Services Technician
SIGNATURE N/A		**DATE** 4/12/2012

RECEIVED: Apr. 12, 2012

Mechanical Integrity Test
Casing or Annulus Pressure Test

Newfield Production Company
Rt. 3 Box 3630
Myton, UT 84052
435-646-3721

Witness: _____ **Date** 4/11/12 **Time** 9 (am) pm
Test Conducted by: Jared Robison
Others Present: _____

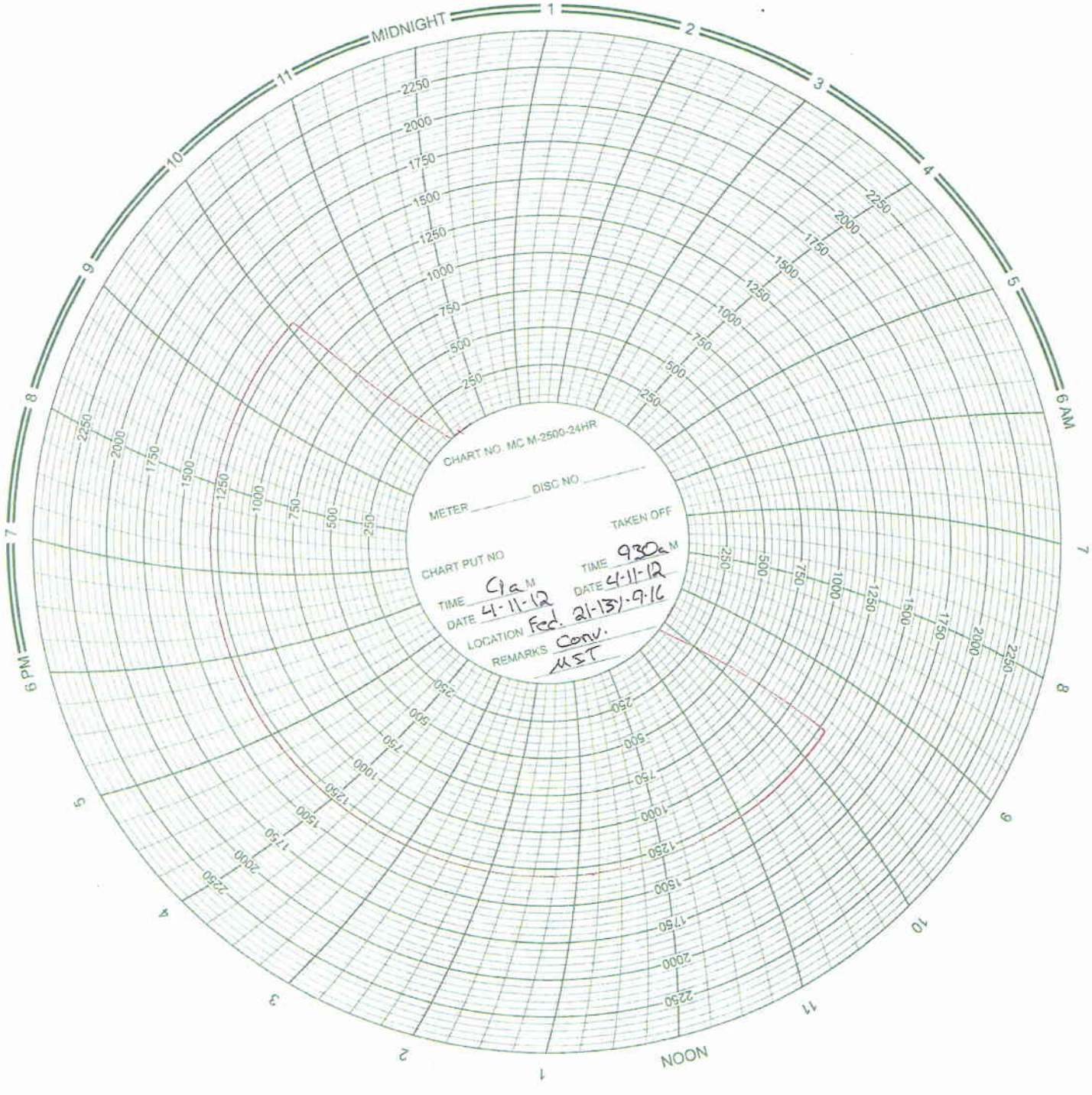
Well: ~~Federal~~ 21-13Y-9-16 **Field:** Monument Butte
Well Location: NE/NW Sec. 13, T9S R16E **API No:** 43-13-31400
Duchesne, Ut

Time	Casing Pressure	
0 min	1250	psig
5	1250	psig
10	1250	psig
15	1250	psig
20	1250	psig
25	1250	psig
30 min	1250	psig
35		psig
40		psig
45		psig
50		psig
55		psig
60 min		psig

Tubing pressure: 0 psig

Result: (Pass) Fail

Signature of Witness: _____
Signature of Person Conducting Test: Jared Robison


MIDNIGHT
NOON
6 AM
6 PM
CHART NO. MC M-2500-24HR
METER
DISC NO.
CHART PUT ON
TIME 9 a M
DATE 4-11-12
LOCATION Fed. 21-13J-9-16
REMARKS Conv.
MST
TAKEN OFF
TIME 930a M
DATE 4-11-12

Daily Activity Report

Format For Sundry

FEDERAL 21-13Y-9-16

2/1/2012 To 6/30/2012

4/4/2012 Day: 1 **Conversion**

NC #1 on 4/4/2012 - MIRU NC#1,U/S pmp,Flush Tbg,Seat pmp,Fill Tbg,Blow HIT @3,000 Psi,U/S pmp,POOH L/D Rod Prod & pmp.N/U BOP, Rel T/A, POOH W/45 Jts Tbg,Redoping Tool Jts, C/SDFN. - 9:30AM MIRU NC#1, BMW H/Oiler pmp 60 BW D/Csg, R/D Unit, Unseat pmp, Flush Tbg W/-40 BW, Seat pmp, Fill Tbg W/-18 BW, P/Test Tbg, Blow Hole In Tbg @ 3,000 Psi. Unseat pmp, POOH & L/D Rod Production String W/pmp. N/D W/-HD, N/U BOP, R/U R/Flr, Rel T/A, POOH W/-45 Jts Tbg, Breaking & Redoping Tool Jts, SWI, 6:30PM C/SDFN, 6:30PM-7:00PM C/Trvl. - 9:30AM MIRU NC#1, BMW H/Oiler pmp 60 BW D/Csg, R/D Unit, Unseat pmp, Flush Tbg W/-40 BW, Seat pmp, Fill Tbg W/-18 BW, P/Test Tbg, Blow Hole In Tbg @ 3,000 Psi. Unseat pmp, POOH & L/D Rod Production String W/pmp. N/D W/-HD, N/U BOP, R/U R/Flr, Rel T/A, POOH W/-45 Jts Tbg, Breaking & Redoping Tool Jts, SWI, 6:30PM C/SDFN, 6:30PM-7:00PM C/Trvl. **Finalized**
Daily Cost: $0
Cumulative Cost: $6,717

4/5/2012 Day: 2 **Conversion**

NC #1 on 4/5/2012 - OWU,POOH W/-108 Jts Tbg Breaking & Redoping Tool Jts,L/D Excess Tbg & BHA,R/U W/L Run Guage Ring To 4802',Set Arrow Pack Pkr @ 4720',R/D W/L.RIH W/Tbg Prod BHA,pmp 15 BW Pad D/Tbg,Drop SV, Fill Tbg, P/Tst I/Hle To 3,000 Psi,Tbg Psi Never Stablzed,SWI,C/SD - 5:30AM-6:00AM C/Trvl. 6:00AM OWU, POOH W/-108 Jts Tbg In Derrick Breaking & Redoping Tool Jts W/-Liq O-Ring. L/D 10 Jts Tbg, T/A, 1 Jts Tbg, S/N, 2 Jts Tbg, N/C. BMW H/Oiler Flush Tbg W/-25 BW On TOOH. R/U Perforators W/Line To Run Guage Ring To 4802', H/Oiler pmp 10 BW D/Csg Due To Oil. RIH Set 5 1/2" Arrow Pak Pkr @ 4720', R/D W/Line, P/U & RIH W/-Seal Nipple,2 3/8X2 7/8 XO, 2 3/8 S/N, 2 7/8X2 3/8 XO, 22 Jts 2 7/8 Tbg Bttm 2 New, 5 1/2" Arrow #1 Pkr, On Off Tool, 129 Jts Tbg, 2 7/8X4.12 Tbg Sub, 1 Jt Tbg, pmp 15 BW Pad D/Tbg, Drop SV, P/Test Tbg To 3,000 Psi, Tbg Psi Never Stabilized, SWI, 6:00PM C/SDFN, 6:00PM-6:30PM C/Trvl. - 5:30AM-6:00AM C/Trvl. 6:00AM OWU, POOH W/-108 Jts Tbg In Derrick Breaking & Redoping Tool Jts W/-Liq O-Ring. L/D 10 Jts Tbg, T/A, 1 Jts Tbg, S/N, 2 Jts Tbg, N/C. BMW H/Oiler Flush Tbg W/-25 BW On TOOH. R/U Perforators W/Line To Run Guage Ring To 4802', H/Oiler pmp 10 BW D/Csg Due To Oil. RIH Set 5 1/2" Arrow Pak Pkr @ 4720', R/D W/Line, P/U & RIH W/-Seal Nipple,2 3/8X2 7/8 XO, 2 3/8 S/N, 2 7/8X2 3/8 XO, 22 Jts 2 7/8 Tbg Bttm 2 New, 5 1/2" Arrow #1 Pkr, On Off Tool, 129 Jts Tbg, 2 7/8X4.12 Tbg Sub, 1 Jt Tbg, pmp 15 BW Pad D/Tbg, Drop SV, P/Test Tbg To 3,000 Psi, Tbg Psi Never Stabilized, SWI, 6:00PM C/SDFN, 6:00PM-6:30PM C/Trvl. **Finalized**
Daily Cost: $0
Cumulative Cost: $17,147

4/9/2012 Day: 3 **Conversion**

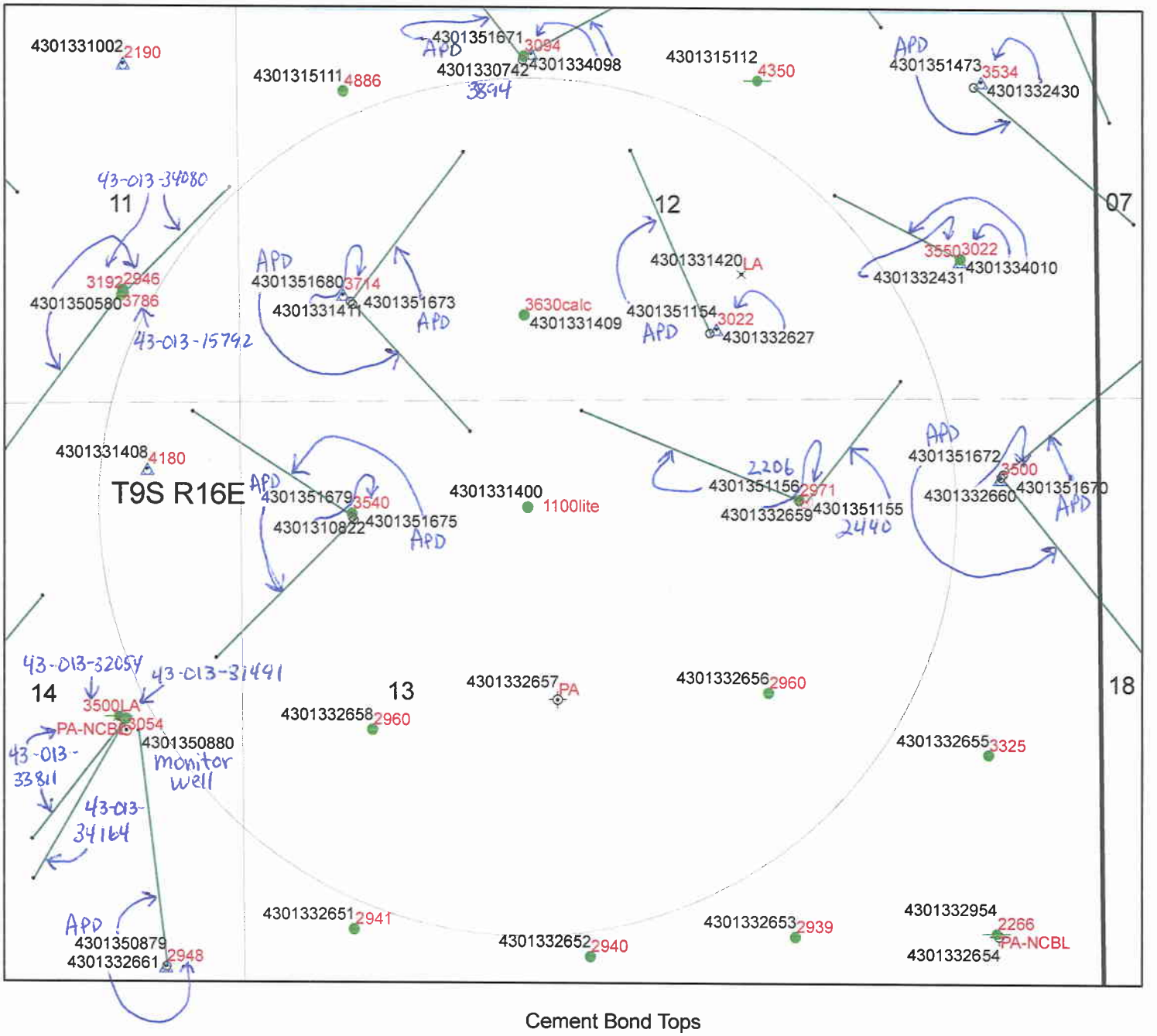
NC #1 on 4/9/2012 - Chek Tbg Psi,1100,Tapp SV,Stll Did Not Hold Psi,Fish SV,pmp Pad,Drop New SV.P/Tst Tbg To 3000 Psi,Good Tst,pmp Pkr Fluid,N/D BOP,Stining Into Arrow Pak Pkr,Set Arrow #1 Pkr,N/U W/HD,Fill & P/Tst Csg,Held Good 1 Hr 1,500 Psi,R/D Rig,Ready For MIT (Final R - 5:30AM-6:00AM C/Trvl. 6:00AM OWU W/-1100 Psi On Tbg, R/U H/Oiler, Bump Tbg Psi To 3,000 Psi, Leaked 110 Psi In 1 Hr. R/U S/Line RIH Tapp On SV. POOH W/-S/Line. P/Test Tbg To 3,000 Psi, Tbg Did Not Hold Psi. R/U S/-Line RIH & Fish SV. pmp 27 BW Pad D/Tbg, Drop New S/V. Fill Tbg W/-15 BW, P/Test Tbg To 3,000 Psi, Gained 20 Psi In 1

Hr.Good Test. RIH Fish SV. R/D R/Flr, H/Oiler pmp 70 BW W/-20 Gal Pkr Fluid, Sting Into Arrow Pak Pkr W/-Seal Nipple, Space Out, Set 5 1/2" Arrow #1 Pkr In 16,000 Tension, N/D BOP, N/U W/-HD, Fill Csg W/-1 BW, P/Test Csg & Pkr To 1,500 Psi, Good Test, R/D Rig,5:30PM -6:00PM C/Trvl, Well Ready For MIT (Final Rig Report). - 5:30AM-6:00AM C/Trvl. 6:00AM OWU W/-1100 Psi On Tbg, R/U H/Oiler, Bump Tbg Psi To 3,000 Psi, Leaked 110 Psi In 1 Hr. R/U S/Line RIH Tapp On SV. POOH W/-S/Line. P/Test Tbg To 3,000 Psi, Tbg Did Not Hold Psi. R/U S/-Line RIH & Fish SV. pmp 27 BW Pad D/Tbg, Drop New S/V. Fill Tbg W/-15 BW, P/Test Tbg To 3,000 Psi, Gained 20 Psi In 1 Hr.Good Test. RIH Fish SV. R/D R/Flr, H/Oiler pmp 70 BW W/-20 Gal Pkr Fluid, Sting Into Arrow Pak Pkr W/-Seal Nipple, Space Out, Set 5 1/2" Arrow #1 Pkr In 16,000 Tension, N/D BOP, N/U W/-HD, Fill Csg W/-1 BW, P/Test Csg & Pkr To 1,500 Psi, Good Test, R/D Rig,5:30PM -6:00PM C/Trvl, Well Ready For MIT (Final Rig Report).
Daily Cost: $0
Cumulative Cost: $42,270

4/12/2012 Day: 4 **Conversion**

Rigless on 4/12/2012 - Conduct initial MIT - On 04/10/2012 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 04/11/2012 the casing was pressured up to 1250 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not a State representative available to witness the test. - On 04/10/2012 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 04/11/2012 the casing was pressured up to 1250 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not a State representative available to witness the test.
Finalized
Daily Cost: $0
Cumulative Cost: $126,090

Pertinent Files: Go to File List



Cement Bond Tops
FEDERAL 21-13Y-9-16
API #43-013-31400
UIC 383.1

Legend

- Buffer_of_SGID93_ENERGY_DNROilGasWells_181
- SGID93 ENERGY.DNROilGasWells

SGID93.ENERGY.DNROilGasWells

GIS_STAT_TYPE

- APD
- DRL
- GIW
- GSW
- LA
- LOC
- OPS
- PA
- PGW
- POW
- RET
- SGW
- SOW
- TA
- TW
- WDW
- WIW
- WSW
- SGID93 BOUNDARIES Counties
- SGID93 ENERGY.DNROilGasWells_HDBottom
- SGID93 ENERGY.DNROilGasWells_HDPath
- Wells-CbltopsMaster10_24_12

0 0.05 0.1 0.2 0.3 0.4 Miles

N

1870calc = approx cement top calculated from well completion report

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL Oil Well	**5.LEASE DESIGNATION AND SERIAL NUMBER:** UTU-64805
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY	**8. WELL NAME and NUMBER:** FEDERAL 21-13Y
	9. API NUMBER: 43013314000000
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052 **PHONE NUMBER:** 435 646-4825 Ext	**9. FIELD and POOL or WILDCAT:** MONUMENT BUTTE
4. LOCATION OF WELL **FOOTAGES AT SURFACE:** 0703 FNL 1830 FWL **QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:** Qtr/Qtr: NENW Section: 13 Township: 09.0S Range: 16.0E Meridian: S	**COUNTY:** DUCHESNE **STATE:** UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
✓ SUBSEQUENT REPORT Date of Work Completion: 9/13/2012	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Workover MIT

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above subject well had workover procedures performed (ran CBL), attached is a daily status report. On 09/12/2012 Chris Jensen with the State of Utah was contacted concerning the MIT on the above listed well. On 09/13/2012 the csg was pressured up to 1720 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 10 psig during the test. There was not a State representative available to witness the test.

Accepted by the Utah Division of Oil, Gas and Mining

Date: September 27, 2012

By:

NAME (PLEASE PRINT) Lucy Chavez-Naupoto **PHONE NUMBER** 435 646-4874	**TITLE** Water Services Technician
SIGNATURE N/A	**DATE** 9/21/2012

RECEIVED: Sep. 21, 2012

Mechanical Integrity Test
Casing or Annulus Pressure Test

Newfield Production Company
Rt. 3 Box 3630
Myton, UT 84052
435-646-3721

Witness: _____ **Date** 9/13/12 **Time** 9:00 (am) pm
Test Conducted by: Ricky Bagley
Others Present: _____

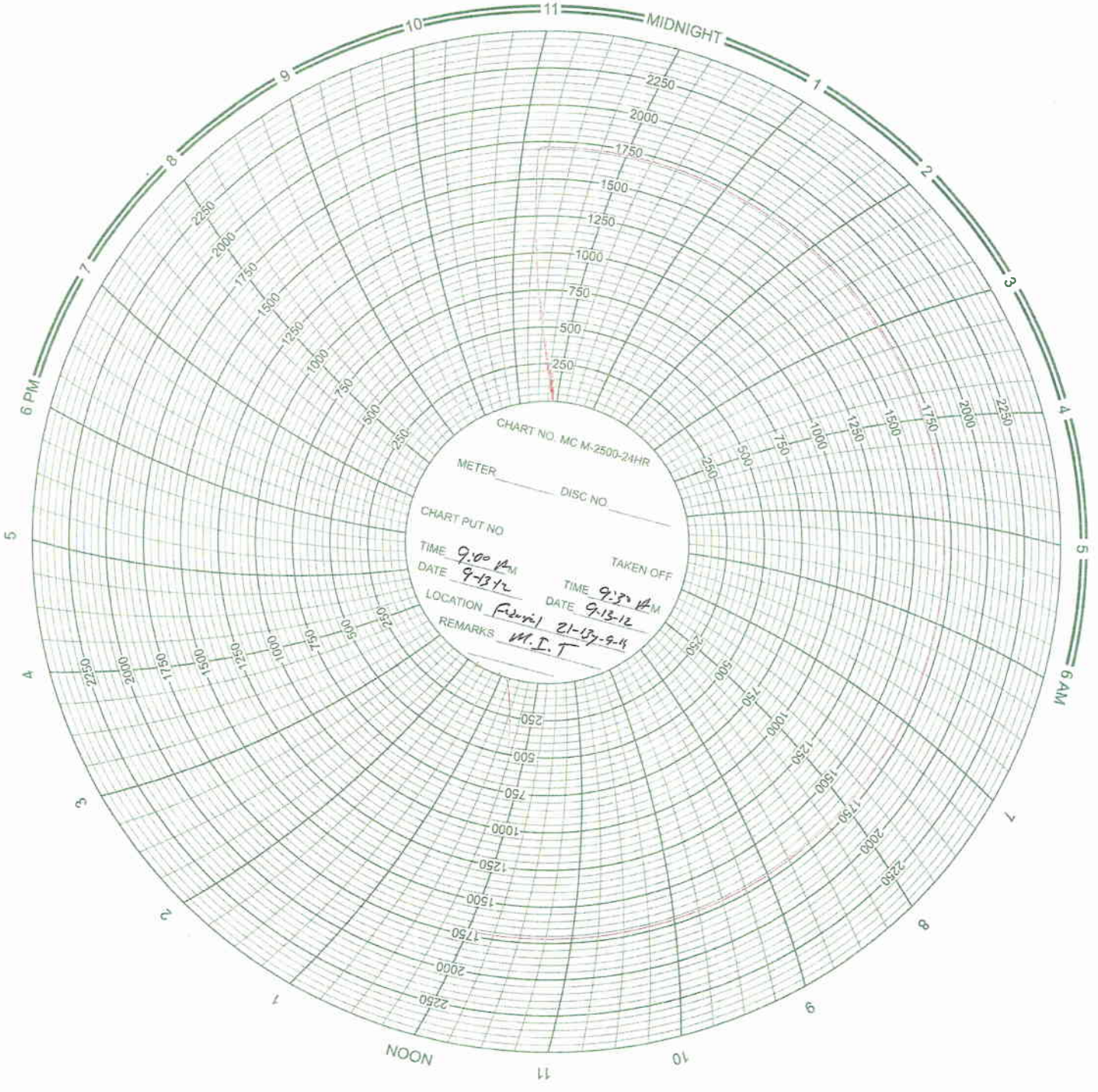
Well: ~~Federal 2-13y-9-14~~	**Field:** Monument Butte
Well Location: Fed 2-13y-9-14	**API No:** 4301331400

Time	Casing Pressure	
0 min	1720	psig
5	1720	psig
10	1720	psig
15	1720	psig
20	1720	psig
25	1720	psig
30 min	1720	psig
35		psig
40		psig
45		psig
50		psig
55		psig
60 min		psig

Tubing pressure: 10 psig

Result: (Pass) Fail

Signature of Witness: _____
Signature of Person Conducting Test: _____


MIDNIGHT
NOON
6 PM
6 AM
CHART NO. MC M-2500-24HR
METER
DISC NO
CHART PUT NO
TIME 9:00 AM
DATE 9-13-12
TAKEN OFF
TIME 9:30 AM
DATE 9-13-12
LOCATION Federal 21-17J-9-16
REMARKS M.I.T

Daily Activity Report

Format For Sundry

FEDERAL 21-13Y-9-16

7/1/2012 To 11/30/2012

8/29/2012 Day: 1 **CBL and Possible Cement Squeeze**

NC #2 on 8/29/2012 - MIRUSU, Bleed Off Well, Unset PKR, NU BOP, POOH W/ PKR, TIH W/ Bit & Scrapper - 5:30AM To 6:00AM C/ Travl; MIRUSU, OWU @12:30PM (100psi On Tbg, 50psi On Csg), ND Injection Tree, Release PKR, NU Weatherford BOP, RU Workfloor, LD 1- Jt, LD 4' Pup Sub, RU H/ Oiler To Tbg Pumped 40BW, Tally Tbg While POOH W/ PKR, LD PKR, PU RBS Bit & Scrapper, TIH W/ 152 Jt 4696', POOH W/ 80 Jts..SWIFN 7:00PM To 7:30PM C/ Travl - 5:30AM To 6:00AM C/ Travl; MIRUSU, OWU @12:30PM (100psi On Tbg, 50psi On Csg), ND Injection Tree, Release PKR, NU Weatherford BOP, RU Workfloor, LD 1- Jt, LD 4' Pup Sub, RU H/ Oiler To Tbg Pumped 40BW, Tally Tbg While POOH W/ PKR, LD PKR, PU RBS Bit & Scrapper, TIH W/ 152 Jt 4696', POOH W/ 80 Jts..SWIFN 7:00PM To 7:30PM C/ Travl - 5:30AM To 6:00AM C/ Travl; MIRUSU, OWU @12:30PM (100psi On Tbg, 50psi On Csg), ND Injection Tree, Release PKR, NU Weatherford BOP, RU Workfloor, LD 1- Jt, LD 4' Pup Sub, RU H/ Oiler To Tbg Pumped 40BW, Tally Tbg While POOH W/ PKR, LD PKR, PU RBS Bit & Scrapper, TIH W/ 152 Jt 4696', POOH W/ 80 Jts..SWIFN 7:00PM To 7:30PM C/ Travl **Finalized**
Daily Cost: $0
Cumulative Cost: $9,407

8/30/2012 Day: 2 **CBL and Possible Cement Squeeze**

NC #2 on 8/30/2012 - Set & Test RBP, RIH W/ WL For CBL - 5:30AM To 6:00AM C/ Travl; OWU @ 6:00PM, Continue POOH W/ Bit & Scrapper, PU & MU RBP, 4' Tbg Sub, PKR, TIH W/ 131 Jts, Set RBP @ 4064', LD 1- Jt , Set PKR @ 4033', RU H/ Oiler To Tbg Pumped 3 BW, Isolated Tbg, Pressure Test Tbg @1500psi For 15 Min, GOOD TEST, Released PKR, Filled Csg W/ 7 BW Threw Tbg, POOH W/ PKR Refilling Csg Every 1200', LD PKR, RU & RIH W/ WL (Perforators) For CBL, H/ Oiler Pressured Up Csg To 1000psi During BL, Completed CBL, POOH & RD WL, Steamed On Floor & BOP ..SWIFN 4:30PM To 5:00PM C/ Travl - 5:30AM To 6:00AM C/ Travl; OWU @ 6:00PM, Continue POOH W/ Bit & Scrapper, PU & MU RBP, 4' Tbg Sub, PKR, TIH W/ 131 Jts, Set RBP @ 4064', LD 1- Jt , Set PKR @ 4033', RU H/ Oiler To Tbg Pumped 3 BW, Isolated Tbg, Pressure Test Tbg @1500psi For 15 Min, GOOD TEST, Released PKR, Filled Csg W/ 7 BW Threw Tbg, POOH W/ PKR Refilling Csg Every 1200', LD PKR, RU & RIH W/ WL (Perforators) For CBL, H/ Oiler Pressured Up Csg To 1000psi During BL, Completed CBL, POOH & RD WL, Steamed On Floor & BOP ..SWIFN 4:30PM To 5:00PM C/ Travl - 5:30AM To 6:00AM C/ Travl; OWU @ 6:00PM, Continue POOH W/ Bit & Scrapper, PU & MU RBP, 4' Tbg Sub, PKR, TIH W/ 131 Jts, Set RBP @ 4064', LD 1- Jt , Set PKR @ 4033', RU H/ Oiler To Tbg Pumped 3 BW, Isolated Tbg, Pressure Test Tbg @1500psi For 15 Min, GOOD TEST, Released PKR, Filled Csg W/ 7 BW Threw Tbg, POOH W/ PKR Refilling Csg Every 1200', LD PKR, RU & RIH W/ WL (Perforators) For CBL, H/ Oiler Pressured Up Csg To 1000psi During BL, Completed CBL, POOH & RD WL, Steamed On Floor & BOP ..SWIFN 4:30PM To 5:00PM C/ Travl **Finalized**
Daily Cost: $0
Cumulative Cost: $20,019

9/4/2012 Day: 3 **CBL and Possible Cement Squeeze**

NC #2 on 9/4/2012 - TIH W/ Tbg Open Holed, RDSU - 5:30AM To 6:00AM C/ Travl; OWU @ 6:00PM, LD- 26 Jts, TIH W/ Tbg As Follows NC, 126- 2 7/8" Tbg, 4' Pup Sub, EOT @ 3891.84', Dumped 20 Gal Of Frac Sand Down Tbg, H/ Oiler Pumped Tbg Vol 22BW To Chase Sand To PLG, RD Work Floor, ND Weatherford BOP, NU Injection Tree, RDSU...4:30PM To 5:00PM -

5:30AM To 6:00AM C/ Travl; OWU @ 6:00PM, LD- 26 Jts, TIH W/ Tbg As Follows NC, 126- 2 7/8" Tbg, 4' Pup Sub, EOT @ 3891.84', Dumped 20 Gal Of Frac Sand Down Tbg, H/ Oiler Pumped Tbg Vol 22BW To Chase Sand To PLG, RD Work Floor, ND Weatherford BOP, NU Injection Tree, RDSU...4:30PM To 5:00PM - 5:30AM To 6:00AM C/ Travl; OWU @ 6:00PM, LD- 26 Jts, TIH W/ Tbg As Follows NC, 126- 2 7/8" Tbg, 4' Pup Sub, EOT @ 3891.84', Dumped 20 Gal Of Frac Sand Down Tbg, H/ Oiler Pumped Tbg Vol 22BW To Chase Sand To PLG, RD Work Floor, ND Weatherford BOP, NU Injection Tree, RDSU...4:30PM To 5:00PM
Daily Cost: $0
Cumulative Cost: $26,039

9/11/2012 Day: 4 **CBL and Possible Cement Squeeze**

NC #2 on 9/11/2012 - Retrieve RBP, TIH W/ PKR - 5:30AM To 6:00AM C/ Travl; MIRSU @ 9:00AM, OWU @ 9:00AM, ND Injection Tree, NU Weatherford BOP, RU Workfloor, POOH W/ 124 Jts, PU 6- Jts, TIH W/ Tbg To Retreive RBP @ 4064', RU H/ Oiler To Csg, Circulated Sand From Plg, Released RBP, POOH W/ 130 Jts, MU & TIH W/ 4' PKR Stinger, 2 3/8" XN Nipple, 2 7/8"x 2 3/8" X-Over, PU 22- Jts..SWIFN.. 7:00PM To 7:30PM C/ Travl - 5:30AM To 6:00AM C/ Travl; MIRSU @ 9:00AM, OWU @ 9:00AM, ND Injection Tree, NU Weatherford BOP, RU Workfloor, POOH W/ 124 Jts, PU 6- Jts, TIH W/ Tbg To Retreive RBP @ 4064', RU H/ Oiler To Csg, Circulated Sand From Plg, Released RBP, POOH W/ 130 Jts, MU & TIH W/ 4' PKR Stinger, 2 3/8" XN Nipple, 2 7/8"x 2 3/8" X-Over, PU 22- Jts..SWIFN.. 7:00PM To 7:30PM C/ Travl - 5:30AM To 6:00AM C/ Travl; OWU @ 6:00AM, MU "XN" Injection PKR, TIH W/ 130- Jts,1- 2' Tbg Sub, RU H/ Oiler To Tbg, Pumped 10 BW, RU & RIH W/ Sandline To Seat Stnd Valv, Filled Tbg W/ 20BW, RU Isolation T, Pressured Tbg To 3000psi, No Pressure Loss In 60 Min, GOOD TEST, RU & RIH W/ Sandline W/ Overshot, Retreived Stnd Valv, RU H/ Oiler To Csg, Pumped 70BW Of Fresh Wtr W/ PKR Fluid, Inserted Stinger Into PKR @ 4720', Pulled 13" Stretch To Set Injection PKR @ 4036' (CE @ 4031.70') W/ 1500# Of Tension, RD WorkFloor, ND Weatherford BOP, NU Injection Tree, H/ Oiler Filled Csg W/ 10BW, Pressured Up Csg To 1500psi, 20psi Loss In 30 Min, Repressured Csg To 1550psi, No Loss In Pressure In 60 Min, RDSU¿5:30PM To 6:00PM C/ Travl¿.. GOOD TEST¿READY FOR MIT - 5:30AM To 6:00AM C/ Travl; OWU @ 6:00AM, MU "XN" Injection PKR, TIH W/ 130- Jts,1- 2' Tbg Sub, RU H/ Oiler To Tbg, Pumped 10 BW, RU & RIH W/ Sandline To Seat Stnd Valv, Filled Tbg W/ 20BW, RU Isolation T, Pressured Tbg To 3000psi, No Pressure Loss In 60 Min, GOOD TEST, RU & RIH W/ Sandline W/ Overshot, Retreived Stnd Valv, RU H/ Oiler To Csg, Pumped 70BW Of Fresh Wtr W/ PKR Fluid, Inserted Stinger Into PKR @ 4720', Pulled 13" Stretch To Set Injection PKR @ 4036' (CE @ 4031.70') W/ 1500# Of Tension, RD WorkFloor, ND Weatherford BOP, NU Injection Tree, H/ Oiler Filled Csg W/ 10BW, Pressured Up Csg To 1500psi, 20psi Loss In 30 Min, Repressured Csg To 1550psi, No Loss In Pressure In 60 Min, RDSU¿5:30PM To 6:00PM C/ Travl¿.. GOOD TEST¿READY FOR MIT - 5:30AM To 6:00AM C/ Travl; MIRSU @ 9:00AM, OWU @ 9:00AM, ND Injection Tree, NU Weatherford BOP, RU Workfloor, POOH W/ 124 Jts, PU 6- Jts, TIH W/ Tbg To Retreive RBP @ 4064', RU H/ Oiler To Csg, Circulated Sand From Plg, Released RBP, POOH W/ 130 Jts, MU & TIH W/ 4' PKR Stinger, 2 3/8" XN Nipple, 2 7/8"x 2 3/8" X-Over, PU 22- Jts..SWIFN.. 7:00PM To 7:30PM C/ Travl - 5:30AM To 6:00AM C/ Travl; MIRSU @ 9:00AM, OWU @ 9:00AM, ND Injection Tree, NU Weatherford BOP, RU Workfloor, POOH W/ 124 Jts, PU 6- Jts, TIH W/ Tbg To Retreive RBP @ 4064', RU H/ Oiler To Csg, Circulated Sand From Plg, Released RBP, POOH W/ 130 Jts, MU & TIH W/ 4' PKR Stinger, 2 3/8" XN Nipple, 2 7/8"x 2 3/8" X-Over, PU 22- Jts..SWIFN.. 7:00PM To 7:30PM C/ Travl - 5:30AM To 6:00AM C/ Travl; OWU @ 6:00AM, MU "XN" Injection PKR, TIH W/ 130- Jts,1- 2' Tbg Sub, RU H/ Oiler To Tbg, Pumped 10 BW, RU & RIH W/ Sandline To Seat Stnd Valv, Filled Tbg W/ 20BW, RU Isolation T, Pressured Tbg To 3000psi, No Pressure Loss In 60 Min, GOOD TEST, RU & RIH W/ Sandline W/ Overshot, Retreived Stnd Valv, RU H/ Oiler To Csg, Pumped 70BW Of Fresh Wtr W/ PKR Fluid, Inserted Stinger Into PKR @ 4720', Pulled 13" Stretch To Set Injection PKR @ 4036' (CE @ 4031.70') W/ 1500# Of Tension, RD WorkFloor, ND Weatherford BOP, NU Injection Tree, H/ Oiler Filled Csg W/ 10BW, Pressured Up Csg To 1500psi, 20psi Loss In 30 Min, Repressured Csg To 1550psi, No Loss In Pressure In 60 Min,

RDSU¿5:30PM To 6:00PM C/ Travl¿.. GOOD TEST¿READY FOR MIT - 5:30AM To 6:00AM C/ Travl; OWU @ 6:00AM, MU "XN" Injection PKR, TIH W/ 130- Jts,1- 2' Tbg Sub, RU H/ Oiler To Tbg, Pumped 10 BW, RU & RIH W/ Sandline To Seat Stnd Valv, Filled Tbg W/ 20BW, RU Isolation T, Pressured Tbg To 3000psi, No Pressure Loss In 60 Min, GOOD TEST, RU & RIH W/ Sandline W/ Overshot, Retreived Stnd Valv, RU H/ Oiler To Csg, Pumped 70BW Of Fresh Wtr W/ PKR Fluid, Inserted Stinger Into PKR @ 4720', Pulled 13" Stretch To Set Injection PKR @ 4036' (CE @ 4031.70') W/ 1500# Of Tension, RD WorkFloor, ND Weatherford BOP, NU Injection Tree, H/ Oiler Filled Csg W/ 10BW, Pressured Up Csg To 1500psi, 20psi Loss In 30 Min, Repressured Csg To 1550psi, No Loss In Pressure In 60 Min, RDSU¿5:30PM To 6:00PM C/ Travl¿.. GOOD TEST¿READY FOR MIT - 5:30AM To 6:00AM C/ Travl; MIRSU @ 9:00AM, OWU @ 9:00AM, ND Injection Tree, NU Weatherford BOP, RU Workfloor, POOH W/ 124 Jts, PU 6- Jts, TIH W/ Tbg To Retreive RBP @ 4064', RU H/ Oiler To Csg, Circulated Sand From Plg, Released RBP, POOH W/ 130 Jts, MU & TIH W/ 4' PKR Stinger, 2 3/8" XN Nipple, 2 7/8"x 2 3/8" X-Over, PU 22- Jts..SWIFN.. 7:00PM To 7:30PM C/ Travl - 5:30AM To 6:00AM C/ Travl; MIRSU @ 9:00AM, OWU @ 9:00AM, ND Injection Tree, NU Weatherford BOP, RU Workfloor, POOH W/ 124 Jts, PU 6- Jts, TIH W/ Tbg To Retreive RBP @ 4064', RU H/ Oiler To Csg, Circulated Sand From Plg, Released RBP, POOH W/ 130 Jts, MU & TIH W/ 4' PKR Stinger, 2 3/8" XN Nipple, 2 7/8"x 2 3/8" X-Over, PU 22- Jts..SWIFN.. 7:00PM To 7:30PM C/ Travl - 5:30AM To 6:00AM C/ Travl; OWU @ 6:00AM, MU "XN" Injection PKR, TIH W/ 130- Jts,1- 2' Tbg Sub, RU H/ Oiler To Tbg, Pumped 10 BW, RU & RIH W/ Sandline To Seat Stnd Valv, Filled Tbg W/ 20BW, RU Isolation T, Pressured Tbg To 3000psi, No Pressure Loss In 60 Min, GOOD TEST, RU & RIH W/ Sandline W/ Overshot, Retreived Stnd Valv, RU H/ Oiler To Csg, Pumped 70BW Of Fresh Wtr W/ PKR Fluid, Inserted Stinger Into PKR @ 4720', Pulled 13" Stretch To Set Injection PKR @ 4036' (CE @ 4031.70') W/ 1500# Of Tension, RD WorkFloor, ND Weatherford BOP, NU Injection Tree, H/ Oiler Filled Csg W/ 10BW, Pressured Up Csg To 1500psi, 20psi Loss In 30 Min, Repressured Csg To 1550psi, No Loss In Pressure In 60 Min, RDSU¿5:30PM To 6:00PM C/ Travl¿.. GOOD TEST¿READY FOR MIT - 5:30AM To 6:00AM C/ Travl; OWU @ 6:00AM, MU "XN" Injection PKR, TIH W/ 130- Jts,1- 2' Tbg Sub, RU H/ Oiler To Tbg, Pumped 10 BW, RU & RIH W/ Sandline To Seat Stnd Valv, Filled Tbg W/ 20BW, RU Isolation T, Pressured Tbg To 3000psi, No Pressure Loss In 60 Min, GOOD TEST, RU & RIH W/ Sandline W/ Overshot, Retreived Stnd Valv, RU H/ Oiler To Csg, Pumped 70BW Of Fresh Wtr W/ PKR Fluid, Inserted Stinger Into PKR @ 4720', Pulled 13" Stretch To Set Injection PKR @ 4036' (CE @ 4031.70') W/ 1500# Of Tension, RD WorkFloor, ND Weatherford BOP, NU Injection Tree, H/ Oiler Filled Csg W/ 10BW, Pressured Up Csg To 1500psi, 20psi Loss In 30 Min, Repressured Csg To 1550psi, No Loss In Pressure In 60 Min, RDSU¿5:30PM To 6:00PM C/ Travl¿.. GOOD TEST¿READY FOR MIT **Finalized**
Daily Cost: $0
Cumulative Cost: $34,374

9/19/2012 Day: 6 **CBL and Possible Cement Squeeze**

Rigless on 9/19/2012 - Conduct MIT - On 09/12/2012 Chris Jensen with the State of Utah was contacted concerning the MIT on the above listed well. On 09/13/2012 the csg was pressured up to 1720 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 10 psig during the test. There was not a State representative available to witness the test. - On 09/12/2012 Chris Jensen with the State of Utah was contacted concerning the MIT on the above listed well. On 09/13/2012 the csg was pressured up to 1720 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 10 psig during the test. There was not a State representative available to witness the test. - On 09/12/2012 Chris Jensen with the State of Utah was contacted concerning the MIT on the above listed well. On 09/13/2012 the csg was pressured up to 1720 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 10 psig during the test. There was not a State representative available to witness the test. **Finalized**
Daily Cost: $0

Cumulative Cost: $50,282

Pertinent Files: Go to File List

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL Water Injection Well	**5.LEASE DESIGNATION AND SERIAL NUMBER:** U-64805
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY	**8. WELL NAME and NUMBER:** FEDERAL 21-13Y
	9. API NUMBER: 43013314000000
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052 **PHONE NUMBER:** 435 646-4825 Ext	**9. FIELD and POOL or WILDCAT:** MONUMENT BUTTE
4. LOCATION OF WELL **FOOTAGES AT SURFACE:** 0703 FNL 1830 FWL **QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:** Qtr/Qtr: NENW Section: 13 Township: 09.0S Range: 16.0E Meridian: S	**COUNTY:** DUCHESNE **STATE:** UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
✓ SUBSEQUENT REPORT Date of Work Completion: 1/21/2013	✓ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	✓ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Put on Injection

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above reference well was put on injection at 11:30 AM on 01/21/2013.

Accepted by the Utah Division of Oil, Gas and Mining

Date: February 14, 2013

By:

NAME (PLEASE PRINT) Lucy Chavez-Naupoto **PHONE NUMBER** 435 646-4874	**TITLE** Water Services Technician
SIGNATURE N/A	**DATE** 1/22/2013

RECEIVED: Jan. 22, 2013

Federal 21-13Y-9-16

Spud Date: 8/13/1993

Put on Production: 9/16/1993

GL: 5535' KB: 5545'

Initial Production: 84 BOPD, 126 MCFD, 7 BWPD

Injection Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 6 jts. (275')

DEPTH LANDED: 259'

HOLE SIZE:12-1/4"

CEMENT DATA: 150 sxs Premium Plus cement, est 6 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: K-55

WEIGHT: 15.5#

LENGTH: 139 jts. (5945.72')

DEPTH LANDED: 5945.72'

HOLE SIZE: 7-7/8"

CEMENT DATA: 145 sxs Hilift cement & 325 sxs Class "G".

CEMENT TOP AT: 1040' per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#

TBG: 1 jt N-80 (2.0')

NO. OF JOINTS: 130 jts (4014.0')

SEATING NIPPLE: 2-7/8" (1.10')

SN LANDED AT: 4026.0' KB

ON OFF TOOL 2-7/8" AT: 4027.1'

PACKER CE AT: 4031.7'

NO. OF JOINTS: 22 jts (681.5')

XO: 2-7/8" x 2-3/8" (0.5) AT: 4717.4'

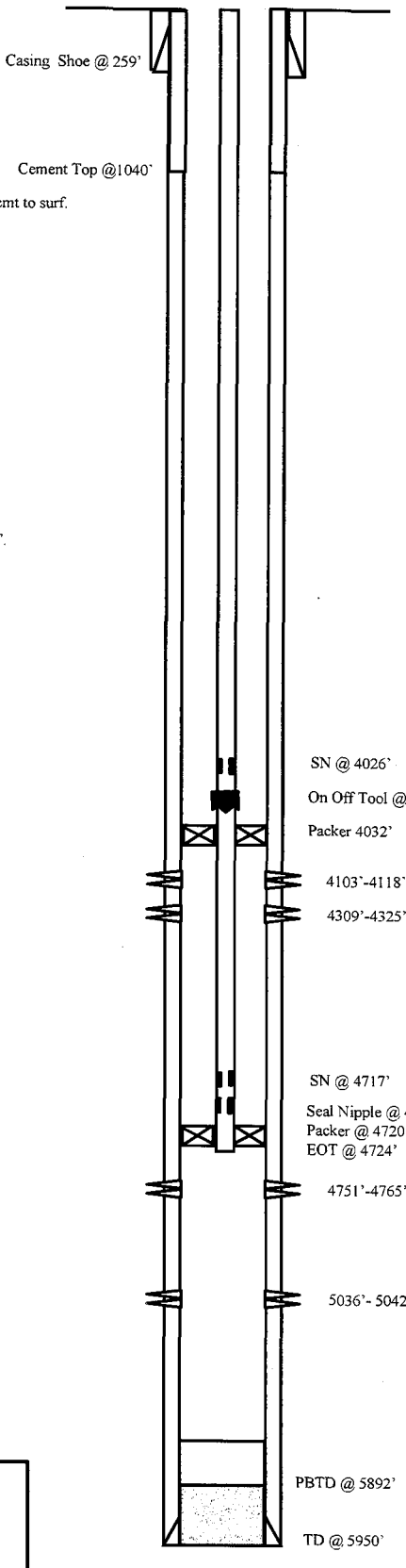
SEATING NIPPLE: 2-3/8" (1.10')

SEATING NIPPLE: 4717.9'

SEAL NIPPLE 3-7/8 OD J-55 AT: 4719.0'

PACKER CE AT: 4720'

TOTAL STRING LENGTH: EOT @ 4724' KB



FRAC JOB

8/28/93	4751'-4765'	**Frac as follows:** 20,140# 20/40 sand & 15,380# 16/30 sand in 371 bbls gelled KCL frac fluid. Treated @ avg press of 1900 psi w/avg rate of 20 BPM. ISIP 1850 psi.
9/1/93	4309'-4325'	**Frac as follows:** 33,600# 16/30 sand in 377 bbls gelled KCL frac fluid. Treated @ avg press of 2050 psi w/avg. rate of 24.5 BPM. ISIP 1800 psi.
2/14/01		**Tubing job.** Update Rod and tubing details.
11/17/05	4103-4118	**Frac GB6 sds as follows:** 55,211# 20/40 sand in 439 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 1870 w/ ave rate of 25.2 bpm w/ 8 ppg of sand. *ISIP was 2150. Actual flush: 4032 gals*
08/29/08		**Recompletion.** Rod & Tubing detail updated.
9/3/08	5036-5042	**Frac A1 sds as follows:** 16,591# 20/40 sand in 238 bbls of Lightning 17 fluid. Treated w/ ave pressure of 3442 psi @ ave rate of 13.1BPM. ISIP 1962 psi. Actual flush: 1218 gals.
07/25/10		**Tubing Leak**. Rod & Tubing detail updated.
04/09/12		**Convert to Injection Well**
04/11/12		**Conversion MIT Finalized** – tbg detail updated
09/13/12		**Workover MIT Finalized** – ran CBL – update tbg detail

PERFORATION RECORD

8/26/93	4751'-4765'	2 JSPF	28 holes
8/31/93	4309'-4325'	2 JSPF	32 holes
11/17/05	4103-4118'	40 JSPF	60 holes
9/3/08	5036-5042'	4 JSPF	24 holes

NEWFIELD

Federal 21-13Y-9-16
702' FNL & 1830' FWL
NENW Section 13-T9S-R16E
Duchesne Co, Utah
API #43-013-31400; Lease #UTU-64805

LCN 09/27/12

GARY R. HERBERT
Governor
GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

UNDERGROUND INJECTION CONTROL PERMIT

Cause No. UIC-383

Operator: Newfield Production Company

Well: Federal 21-13Y

Location: Section 13, Township 9 South, Range 16 East

County: Duchesne

API No.: 43-013-31400

Well Type: Enhanced Recovery (waterflood)

Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on February 7, 2012.
2. Maximum Allowable Injection Pressure: 1,772 psig
3. Maximum Allowable Injection Rate: (restricted by pressure limitation)
4. Injection Interval: Green River Formation (**3,882'** – 5,888', revised injection top)
5. **Because of questionable quality of light cement in the Monument Federal 41-14J (API # 43-013-31408) well, located approximately 0.4 mile east of the Federal 21-13Y well, and the Federal 21-13Y well itself, pressure shall be monitored in both wells between the surface casing and the production casing on a regular basis. Any pressure changes observed shall be reported to the Division immediately.**
6. Any subsequent wells drilled within a ½ mile radius of this well shall have production casing cement brought up to or above the top of the unitized interval for the Greater Monument Butte Unit.

Approved by: for John Rogers, Associate Director — 01-10-13 Date

JR/MLR/js
cc: Bruce Suchomel, Environmental Protection Agency
Bureau of Land Management, Vernal
Eric Sundberg, Newfield Production Company, Denver
Newfield Production Company, Myton
Duchesne County
Well File
N:\O&G Reviewed Docs\ChronFile\UIC

UTAH DNR
OIL, GAS & MINING

Form 3160-3
(November 1983)
(formerly 9-331C)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: U-64805

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: n/a

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

7. UNIT AGREEMENT NAME: n/a

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER — SINGLE ZONE [ ] MULTIPLE ZONE [ ]

8. FARM OR LEASE NAME: Balcron Federal

2. NAME OF OPERATOR: EQUITABLE RESOURCES ENERGY COMPANY

CONFIDENTIAL

9. WELL NO.: #21-13Y

3. ADDRESS OF OPERATOR: P.O. Box 21017; Billings, MT 59104 (Balcron Oil Division)

10. FIELD AND POOL, OR WILDCAT: Monument Butte/Green River

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: NE NW Section 13, T9S, R16E 702.7' FNL, 1830.5' FWL
At proposed prod. zone

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 13, T9S, R16E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: Approximately 13 miles SW of Myton, Utah

12. COUNTY OR PARISH: Duchesne | 13. STATE: UTAH

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	**19. PROPOSED DEPTH**	**20. ROTARY OR CABLE TOOLS**
	5,900'	Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): GL 5535.5'

22. APPROX. DATE WORK WILL START*: June 1, 1993

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
See attached for details.				

RECEIVED
MAY 21 1993
DIVISION OF OIL, GAS & MINING

EXHIBITS ATTACHED

"A" PROPOSED DRILLING PROGRAM
"B" PROPOSED SURFACE USE PROGRAM
"C" GEOLOGIC PROGNOSIS
"D" DRILLING PROGRAM/CASING DESIGN
"E" EVIDENCE OF BOND COVERAGE
"F" ARCHEOLOGY REPORT
"G" SURVEY PLAT
"H" BOPE SCHEMATIC
"I" RIG LAYOUT
"J" EXISTING ROADS (Map A)
"K" PLANNED ACCESS (Map B)
"L" EXISTING WELLS (Map C)
"M" CUT & FILL DIAGRAM

SELF CERTIFICATION: I hereby certify that I am authorized, by proper lease interest owner, to conduct these operations associated with the application. Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Equitable Resources Energy Company as principal and Safeco Insurance Company of America as surety under BLM Bond No. MT 0576 (Nationwide Oil & Gas Bond #5547188) who will be responsible for compliance with all of the terms and conditions of that portion of the lease associated with this application.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED Bobbie Schuman Bobbie Schuman TITLE Coordinator of Environmental and Regulatory Affairs DATE May 17, 1993

(This space for Federal or State office use)

PERMIT NO. 43-013-31700 APPROVAL DATE 6-21-93

APPROVED BY _____ TITLE _____

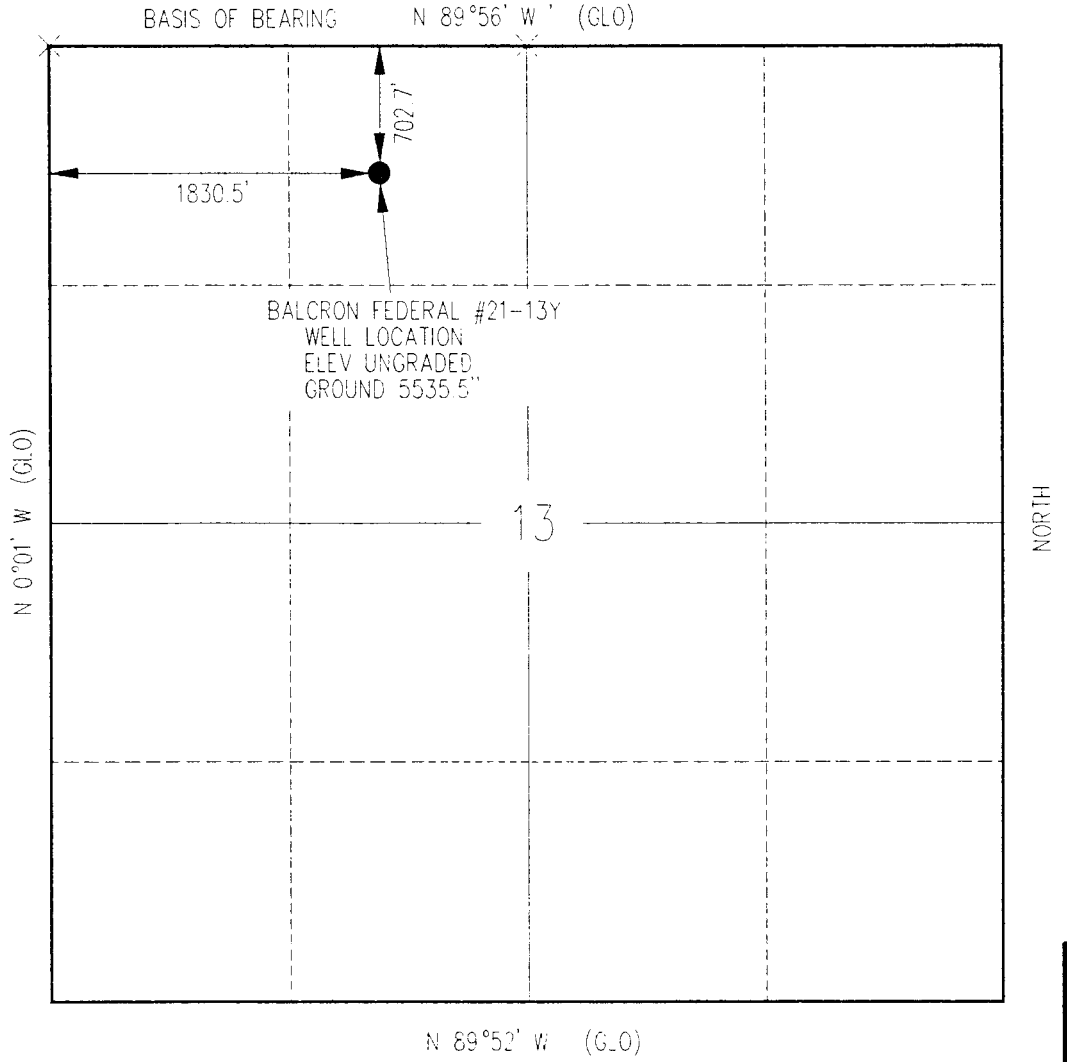
CONDITIONS OF APPROVAL, IF ANY:

Matthews
649-3-2

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

T9S, R16E, S.L.B. & M.



X = SECTION CORNERS LOCATED
BASIS OF BEARINGS; G.L.O PLAT 1911
BASIS OF ELEV; U.S.G.S 7-1/2 min QUAD (MYTON SE)

EQUITABLE RESOURCES ENERGY CO.

WELL LOCATION, BALCRON FEDERAL #21-13Y, LOCATED AS SHOWN IN THE NE 1/4 NW 1/4 OF SECTION 13 , T9S, R16E, S.L.B. & M, DUCHESNE COUNTY UTAH.

N

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION, AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NO. 3154
JAMES P. STEWART
STATE OF UTAH

REGISTERED LAND SURVEYOR
REGISTRATION NO. 3154
STATE OF UTAH

TRI STATE LAND SURVEYING & CONSULTING
38 EAST 100 NORTH, VERNAL, UTAH 84078
(801) 781-2501

SCALE: 1" = 1000'	SURVEYED BY: SS JC
DATE: 4/30/93	WEATHER: CLEAR & WARM
NOTES:	FILE # #21-13Y

CAUSE 139-1

EQUITABLE RESOURCES ENERGY COMPANY
Balcron Oil Division
Balcron Federal #21-13Y
NE NW Section 13-T9S-R16E
Duchesne County, Utah

In accordance with requirements outlined in 43 CFR 3162-3.1 (d):

1. ESTIMATED IMPORTANT GEOLOGICAL MARKERS:

See Geologic Prognosis (EXHIBIT "C")

2. ESTIMATED DEPTHS OF ANTICIPATED OIL, GAS OR WATER:

See Geologic Prognosis (EXHIBIT "C)

3. OPERATOR'S MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

a. EXHIBIT "H" is a schematic of the BOP equipment and choke manifold. A 2M system will be used. The BOPE will be installed after setting 8-5/8" casing at 260'. The blind rams and pipe rams will be tested to 1500 psi. Pipe rams will be operationally checked each 24-hour period and blind rams each time pipe is pulled out of the hole.

b. The BOPE will be tested to 1500 psi when initially installed, whenever any seal subject to test pressure is broken, and following related repairs. The pipe and blind rams will be activated at least weekly and on every trip the pipe and blind rams will be activated.

c. An accumulator of sufficient capacity to open the hydraulically-controlled choke valve lines (if so equipped), close all rams, and retain a minimum of 200 psi above precharge on the closing manifold without the use of the closing unit pumps will be installed during the drilling of this well.

d. An upper kelly cock will be used during the drilling of this well.

e. Visual mud monitoring equipment will be used to detect volume changes indicating loss or gain in circulating fluid volume.

f. Sufficient quantities of mud materials will be maintained or readily accessible for the purpose of assuring well control.

4. PROPOSED CASING AND CEMENTING PROGRAM:

a. Surface casing will be set in the Uinta formation to approximately 260' and cemented to surface.

b. All potentially productive hydrocarbon zones will be isolated.

c. Casing designs are based on factors of burst: 1.25, collapse: 1.125, and joint strength: 1.8.

d. All casing strings will be pressure tested to 0.22 psi/ft. of casing string length or 1500 psi whichever is greater (not to exceed 70% of yield).

E. For details of casing, cement program, drilling fluid program, and proposed mud program, see the following two attachments:

Drilling Program/Casing Design (EXHIBIT "D")
Geologic Prognosis (EXHIBIT "C")

5. HAZARDOUS PRESSURES, TEMPERATURES, FLUIDS/GASSES EXPECTED:

a. Expected bottom hole temperature is 125 degrees F. Expected bottom hole pressure is 1500 psi.

b. No abnormal pressures or temperatures have been noted or reported in wells drilled to the Green River formation in this area.

c. No dangerous levels of hydrogen sulfide, hazardous fluids, or gasses have been found, reported, or known to exist at the depth to be drilled in this well, in this area.

6. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

a. The drilling operations for this well will begin as soon as the BLM approves this APD.

b. These drilling operations should be completed within 12 days after spudding the well depending on weather and hole conditions.

c. If the well is productive, a sundry notice and plat showing exact installed facilities will be submitted.

d. If this well is non-productive, a sundry notice will be filed with the BLM District Office within 30 days following completion of the well for abandonment.

EXHIBIT "B"

Multi-Point Surface Use and Operations Plan

EQUITABLE RESOURCES ENERGY COMPANY
BALCRON OIL DIVISION
BALCRON FEDERAL #21-13Y
NE NW SECTION 13, T9S, R16E
DUCHESNE COUNTY, UTAH

1. Existing Roads: Refer to Maps "A" & "B" (shown in RED)

A. The proposed well site is staked and four reference stakes are present. 150'& 200'NW and 175' & 230'NE.

B. The Federal #21-13Y is located 13 miles Southwest of Myton Utah in the NE1/4 NW1/4 Section 13, T9S, R16E, SLB&M, Duchesne County, Utah. To reach the 21-13Y, proceed West from Myton, Utah along U.S. Highway 40 for 1.6 miles to the junction of this highway and Sand Wash road; Proceed South along the Sand Wash road approximately 10.0 miles to an intersection with the Momnument Butte gas plant road, turn right and continue 2.4 miles to road intersection; turn left and proceed 1.3 miles to access at jeep trail. Follow jeep trail 0.5 mile to proposed access road sign. Follow flags 600 feet to location.

C. Access roads - refer to Maps "A" and "B".

D. Access roads within a one-mile radius - refer to map "B".

E. The existing roads will be maintained in the same or better condition as existed prior to the commencement of operations and said maintenance will continue until final abandonment and reclamation of the well location.

2. Planned Access Roads: Refer to Map "B" (shown in GREEN)

Approximately 600 feet of new road construction will be required for access to the proposed well location.

A. Width - maximum 30-foot overall right-of-way with an 18-foot road running surface, crowned & ditched and/or sloped and dipped.

B. Construction standard - the access road will be constructed so as to conform to the standards outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development. (1989)

The road will be constructed to meet the standards of the anticipated traffic flow and all-weather requirements. Construction will include ditching, draining, crowning, and capping or sloping and dipping the roadbed as necessary to provide a well constructed and safe road. Prior to construction/upgrading, the roadway shall be cleared of any snow cover and allowed to dry completely. Traveling off of the thirty (30) foot right-of-way will not be allowed.

Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossing shall be designed so they will not cause siltation or the accumulation of debris in the drainage crossing nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts.

Upgrading shall not be allowed during muddy conditions.

Should mud holes develop, they shall be filled in and detours around them avoided.

C. Maximum grade - 8%

D. Turnouts - no turnouts will be required on this access road.

E. Drainage design - the access road will be crowned and ditched or sloped and dipped, and water turnouts installed as necessary to provide for proper drainage along the access road route.

F. Culverts, cuts and fills - no culverts will be required. There are no major cuts and/or fills on/along the proposed access road route.

G. Surface materials - all construction materials will be native material taken from onsite.

H. Gates, cattleguards or fence cuts - none required.

I. Road maintenance - during both the drilling and production phase of operations, the road surface and shoulders will be kept in a safe and useable condition and

will be maintained in accordance with the original construction standards. All drainage ditches and culverts will be kept clear and free-flowing, and will also be maintained in accordance with the original construction standards. The access road right-of-way will be kept free of trash during operations.

J. The proposed access road has been centerline flagged.

K. If a right-of-way is required please consider this APD the application for said right-of-way.

3. Location of Existing Wells Within a One-Mile Radius:

Please Refer to Map "C"

A. Water wells - none known.
B. Abandoned wells - see Map "C"
C. Temporarily abandoned wells - none known.
D. Disposal wells - none known.
E. Drilling wells - none known.
F. Producing wells - see Map "C".
G. Shut-in wells - none known.
H. Injection wells - none known.
I. Monitoring wells - none known.

4. Location of Existing and/or Proposed Facilities Owned by Equitable Resources Energy Company Within a One-Mile Radius:

A. Existing

1. Tank batteries - see Map "C".
2. Production facilities - see Map "C".
3. Oil gathering lines - none.
4. Gas gathering lines - see Map "C".

B. New Facilities Contemplated

1. All production facilities will be located on the disturbed portion of the well pad and at a minimum of twenty-five (25) feet from the toe of the backslope or toe of the fill slope.

2. The production facilities will consist primarily of a pumping unit, Two tanks and an emergency pit. A diagram showing the proposed production facility layout will be submitted to the Authorized Officer via "Sundry Notice" (Form 3160-5) for approval of subsequent installation operations.

3. Production facilities will be accommodated on the

existing well pad. Construction materials required for installation of the production facilities will be obtained from the site; any additional materials required will be purchased from a local supplier having a permitted (private) source of materials within the area.

A dike will be constructed completely around those production facilities which contain fluids (i.e. production tanks, produced water tanks and/or heater treater). These dikes will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank, and be independent of the back cut.

4. All permanent (onsite for six months or longer) above the ground structures constructed or installed including pumping units) will be painted Desert Brown. All production facilities will be painted within six (6) months of installation. Facilities required to comply with Occupational Health and Safety Act Rules and Regulations will be excluded from this painting requirement.

C. The production (emergency) pit will be 12'x12' and will be fenced. Said fence will be maintained in good condition.

D. During drilling and subsequent operations, all equipment and vehicles will be confined to the access road right-of-way and any additional areas as specified in the approved Application for Permit to Drill.

E. Reclamation of disturbed areas no longer needed for operation will accomplished by grading, leveling and seeding as recommended by the Bureau of Land Management.

For Pipeline:

F. Any proposed pipelines will be submitted to the authorized officer Via Sundry Notice for approval of subsequent operations.

G. Equitable Resources Energy Company shall be responsible for road maintenance from the beginning to completion of operations.

5. Location and Type of Water Supply

A. Water to be used for the drilling of these wells will be

hauled by truck over the roads described in item #1 and item #2, from a well owned by Owen Dale Anderson of Vernal Utah.

B. No water well will be drilled on this location.

6. Source of Construction Materials

A. No construction materials are needed for drilling operations. In the event of production, the small amount of gravel needed for facilities will be hauled in by truck from a local gravel pit over existing access roads to the area. No special access other than for drilling operations and pipeline construction is needed.

B. All access roads crossing Federal land are described under item #2, and shown on Map #A.

All construction material for these location sites and access roads shall be borrowed material accumulated during the construction of the location sites and access roads. No additional construction material from other sources is anticipated at this time, if in the future it is required the appropriate actions will be taken to acquire it from private sources.

C. All surface disturbance area is on B.L.M. lands.

D. There are no trees on this location.

7. Methods of Handling Waste Materials:

A. Cuttings - the cuttings will be deposited in the reserve pit.

B. Drilling fluids - including salts and chemicals will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be removed and disposed of at an approved waste disposal facility within ninety (90) days after termination of drilling and completion activities.

In the event adverse weather conditions prevent removal of the fluids from the reserve pit within this time period, an extension may be granted by the Authorized Officer upon receipt of a written request from Equitable Resources Energy Company.

The reserve pit will be constructed so as not to leak, break, or allow discharge. The reserve pit will be lined with a 12 mil plastic reinforced liner.

C. Produced fluids - liquid hydrocarbons produced during completion operations will be placed in test tanks on the location. Produced waste water will be confined to a lined pit (reserve pit) or storage tank for a period not to exceed ninety (90) days after initial production. During the ninety (90) day period, in accordance with NTL-2B, an application for approval of a permanent disposal method and location, along with the required water analysis, shall be submitted for the Authorized Officer's approval. Failure to file an application within the time frame allowed will be considered an incidence of noncompliance.

Any spills of oil, gas, salt water or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

D. Sewage - self-contained, chemical toilets will be provided for human waste disposal. Upon completion of operations, or as needed, the toilet holding tanks will be pumped and the contents thereof disposed of in the nearest, approved, sewage disposal facility.

E. Garbage and other waste material - garbage, trash and other waste materials will be collected in a portable, self-contained and fully-enclosed trash cage during drilling and completion operations. Upon completion of operations (or as needed) the accumulated trash will be disposed of at an authorized sanitary landfill. No trash will be burned on location or placed in the reserve pit.

F. Immediately after removal of the drilling rig, all debris and other waste materials not contained in the trash cage will be cleaned up and removed from the well location. No adverse materials will be left on the location. Any open pits will be fenced during the drilling operation and the fencing will be maintained until such time as the pits are backfilled.

G. The reserve and/or production pit will be constructed on the existing location and will not be located in natural drainages where a flood hazard exists or surface runoff will destroy or damage the pit walls. All pits will be constructed so as not to leak, break, or allow the discharge of liquids therefrom.

8. Ancillary Facilities:

None anticipated.

9. Wellsite Layout:

A. Plat #1 shows the drill site layout as staked. Cross sections have been drafted to visualize the planned cuts and fills across the location. An average minimum of six (6) inches of topsoil will be stripped from the location (including areas of cut, fill, and/or subsoil storage) and stockpiled for future reclamation of the well site. Refer to Figure #1 for the location of the topsoil and subsoil stockpiles. A diversion ditch will be cut above the cut slope on the Northern edge of location. Corner #2 will be rounded to avoid a natural drainage.

B. Plat #2 is a diagram showing the rig layout. No permanent living facilities are planned. There will be three (3) trailers on location during drilling operation.

C. A diagram showing the proposed production facility layout will be submitted to the Authorized Officer via Sundry Notice (Form 3160-5) for approval of subsequent operations.

D. The reserve pit will be constructed so as to be capable of holding 12,000 bbls. of fluid. The flare pit will be located downwind of the prevailing wind between corner #5 and corner #6. Access will be from the West near corner #2.

The reserve pit will be lined with a 12 mil plastic liner, it will be torn and perforated after the pit dries and before backfilling of the reserve pit.

E. Prior to the commencement of drilling operations, the reserve pit will be fenced on three (3) sides using 39-inch net wire with one strand of barbed wire on top of the net wire. The net wire will be no more than two inches above the ground. the barbed wire will be three inches above the net wire. total height of the fence will be at least 42-inches.

1. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.

2. Standard steel, wood, or pipe posts shall be used between the corner braces. The maximum distance between any two (2) posts shall be no greater than sixteen (16) feet.

3. All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The fourth side of the reserve pit will be fenced

immediately upon removal of the drilling rig and the fencing will be maintained until the pit is backfilled.

F. Any hydrocarbons on the pit will be removed from the pit as soon as possible after drilling operations are completed.

10. Plans for Reclamation of the Surface:

The B.L.M. will be contacted prior to commencement of any reclamation operations.

A. Production

1. Immediately upon well completion, the well location and surrounding area(s) will be cleared of all debris, materials, trash and junk not required for production.

2. Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with 43 CFR 3162.7-1.

3. The plastic pit liner shall be torn and perforated before backfilling of the reserve pit.

4. Before any dirt work to restore the location takes place, the reserve pit will be completely dry and all cans, barrels, pipe, etc. will be removed.

   Other waste and spoil materials will be disposed of immediately upon completion of drilling and workover activities.

5. The reserve pit and that portion of the location and access road not needed for production facilities/operations will be reclaimed within one hundred twenty (120) days from the date of well completion, weather permitting.

6. If the well is a producer, Equitable Resources Energy Company will, upgrade and maintain access roads as necessary to prevent soil erosion, and accommodate year round traffic. Reshape areas unnecessary to operations, distribute topsoil, disk and seed all disturbed areas outside the work area according to the recommended seed mixture. Perennial vegetation must be established. Additional work shall be required in case of seeding failures, etc.

   If the well is abandoned/dry hole, Equitable Resources Energy Company will, restore the access road and

location to approximately the original contours. During reclamation of the site, push the fill material into cuts and up over the backslope. Leave no depressions that will trap water or form ponds. Distribute topsoil evenly over the location, and seed according to the above seed mixture. The access road and location shall be ripped or dished prior to seeding. Perennial vegetation must be established. Additional work shall be required in case of seeding failures, etc.

Seedbed will be prepared by disking, then roller packing following the natural contours. Seed will be drilled on contours at a depth no greater than one-half inch (1/2"). In areas that cannot be drilled, seed will be broadcast at double the seeding rate and harrowed into soil. Certified seed will be used whenever available.

Fall seeding will be completed after September 1 and prior to prolonged ground frost. Spring seeding, to be effective, will be completed after the frost has left the ground and prior to May 15th.

7. Upon completion of backfilling, leveling and recontouring, the stockpiled topsoil will be evenly spread over the reclaimed area(s). Prior to reseeding, all disturbed surfaces will be scarified and left with a rough surface. No depressions will be left that would trap water and form ponds. All disturbed surfaces will be reseeded with the following seed mixture:

Pure Live Seed (PLS) lbs./acre	Seed Mix
1	Forage Kochia (Kochia prostrata)
5	Ephriam Crested Wheatgrass (Agropyron cristatum Ephriam)
4	Russian Wildrye (Elymus junceus)
2	Fourwing Saltbush (Atriplex canescens)

Seed will be drilled on the contour to a approximate depth of one-half (1/2) inch. All seeding will be conducted after September 1 and prior to ground frost. Spring seeding will be done after the frost leaves the ground and no later than May 15. If the seeding is unsuccessful, Equitable Resources may be required to make subsequent seedings.

B. Dry Hole/Abandoned Location

1. On lands administered by the Bureau of Land Management, abandoned well sites, roads, or other disturbed areas will be restored to near their original condition. This procedure will include:

   (c) ensuring revegetation of the disturbed areas to the specifications of the Bureau of Land Management at the time of abandonment.

2. All disturbed surfaces will be recontoured to the approximate natural contours and reseeded according to BLM specifications. Reclamation of the well pad and access road will be performed as soon as practical after final abandonment and reseeding operations will be performed in the fall or spring following completion of reclamation operations.

11. Surface Ownership:

The well site and proposed access road are situated on surface lands administered by

Bureau of Land Management
Vernal District Office
Vernal, Utah

12. Other Information:

A. Topographic and geologic features of the area (reference Topographic Map #A) are:

The proposed drill site is located in the Monument Butte oil field, which lies in a large basin formed by the Uinta Mountains to the North and the Bookcliff Mountains to the South. The site is located approximately 15 miles Northwest of the Green River,which is the major drainage for this area, and approximately 12 miles South of Myton Utah.

This basin floor is interlaced with numerous canyons and ridges formed by the non-perennial streams of the area. The sides of these canyons are steep and ledges formed in sandstone, conglomerate deposits and shale are common in this area.

The geologic structures that are visible in the area are of the Uinta formation (Eocene Epoch) tertiary period and the cobblestone and younger alluvial deposits from the

Quaternary period.

The soils in the semi-arid area of the Williams Fork Formation (Upper Cretaceous) and Wasatch Formation (Eocene) consist of light brownish gray clay (OL) to sand soil (SM-ML) type with poorly graded gravels.

Outcrops of sandstone ledges, conglomerate deposits and shale are common in this area.

The topsoils in the area range from a sandy clay (SM-ML) type soil to a clayey (OL) soil.

The majority of the numerous washes and draws in the area are of a non-perennial nature flowing during the early spring run-off and heavy rain storms of long duration which are rare as the normal annual rainfall in the area is only 8".

The flora of the area includes sagebrush, mountain mahogany, serviceberry, rabbit brush, greasewood, four-wing saltbush, Gambel scrub oak, willow, tamarack, shadscale, Spanish bayonet, indian rice grass, cheatgrass, wheatgrass, curly grass, crested wheatgrass, sweet clover, gum weed, foxtail, mustard, Canadian thistle, Russian thistle, Kochia, sunflowers and cacti.

The fauna of the area includes cattle, horses, elk, deer, coyotes, rabbits, rodents, lizards, bull snakes, rattle snakes, water snakes and horned toads. Birds of the area are ground sparrows, bluejays, bluebirds, magpies, ravens, rapters, morning doves, swallows, nighthawks, hummingbirds, and chukar.

B. The surface ownership is Federal. The surface use is grazing and petroleum production.

C. 1. The closest live water is the Green River which is approximately 15 miles Southwest of the proposed site.

2. There are no occupied dwellings in the immediate area

3. An archaeological report will be forwarded upon completion. Attached as Exhibit "F."/ns

4. There are no reported restrictions or reservations noted on the oil and gas lease.

5. A silt catchment dam and basin will be constructed according to BLM specifictaions approximately 100' North of corner #2 where flagged.

13. Lessee's or Operator's Representative:

Balcron Oil
a division of Equitable Resources Energy Company
1601 Lewis Avenue
P.O. Box 21017
Billings, Montana 59104
(8:00 a.m. to 5:00 p.m.)
(406)259-7860
FAX: (406)245-1361

Dave McCoskery, Drilling Engineer Home (406)248-3864

Dale Griffin, Home (303)824-3323

14. certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that any statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Balcron Oil, a division of Equitable Resources Energy Company, and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

May 17, 1993
Date

Bobbie Schuman
Bobbie Schuman
Coordinator of Enviromental and Regulatory Affairs
BALCRON OIL division of Equitable Resources Energy Company

EXHIBIT "C"

BALCRON OIL COMPANY

Geologic Prognosis

EXPLORATORY ____
DEVELOPMENT X

WELL NAME: Balcron Federal #21-13Y
LOCATION: NENW 703' FNL, 1830' FWL
COUNTY: Duchesne STATE: UT GL(Ung): 5535.5' EST KB: 5542'
PROSPECT/FIELD: Monument Butte
SECTION 13 TOWNSHIP 9S RANGE 16E
TOTAL DEPTH 5900

FORM. TOPS:

Formation	Prognosis Depth	Prognosis Datum	Sample Top Depth	Sample Top Datum	Cntl Wl. Datum
KB	-------	5542	------	-------	5462
Uinta	Surf.	-------	------	-------	------
Green River	1456	4086	------	-------	3995
2nd GG	3777	1765	------	-------	1674
Y-3	4095	1447	------	-------	1356
Y-4	4315	1227	------	-------	1136
Douglas Crk.	4567	975	------	-------	884
R-5	4737	805	------	-------	714
G-1	4900	642	------	-------	551
G-4	5097	445	------	-------	354
Carb. Mkr.	5412	130	------	-------	NDE
TD	5900	-------	------	-------	------
----------	------	-------	------	-------	------
----------	------	-------	------	-------	------
----------	------	-------	------	-------	------

Formation	Prognosis Depth	Prognosis Datum	Sample Top Depth	Sample Top Datum	Cntl Dat
----------	------	-------	------	-------	---
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CONTROL WELL: G. S. Campbell Qtr/Qtr NESW Section 12 Township 9S Range 16E
Govt CNO #4

SAMPLES:

50	samples,	1400	to	3800
10	samples,	3800	to	TD
----------	samples,	-------	to	------
----------	samples,	-------	to	------
----------	samples,	-------	to	------
----------	samples,	-------	to	------

Send Samples To:
Utah Geological Sample Library
1 Dry Cut

LOGS:

DLL/MSFL	from	Surf.Csg.	to	TD
LDT/CNL	from	3500	to	TD
----------	from	-------	to	------
----------	from	-------	to	------
----------	from	-------	to	------
----------	from	-------	to	------
----------	from	-------	to	------
----------	from	-------	to	------

CORES:
None

DRILL STEM TESTS:
None

MUD LOGGER/HOT WIRE:
Required: (Yes/No) Yes
Type: Two Man

WELLSITE GEOLOGIST:
From 1400' to TD
Name: ---------- Tele. #: (---) ----
Address: ----------

COMMENTS:

PREPARED BY: K. K. Reinschmidt, S. W. VanDelinder DATE: 5-13-93

Equitable Resources Energy Company
Balcron Oil Division

DRILLING PROGRAM

WELL NAME: Balcron Federal 21-13Y **PROSPECT/FIELD:** Monument Butte
LOCATION: NE NW Sec.13 Twn.9S Rge.16E
COUNTY: Duchesne **STATE:** Utah

TOTAL DEPTH: 5900

HOLE SIZE	INTERVAL
12 1/4"	0 to 260'
7 7/8"	260 to 5900'

CASING	INTERVAL		CASING		
STRING TYPE	FROM	TO	SIZE	WEIGHT	GRADE
Surface Casing	0	260	8 5/8"	24 #/Ft	J-55
Production Casing	0	5900	5 1/2"	15.50#/Ft	J-55
	(All Casing will be new, ST&C)				

CEMENT PROGRAM

Surface	150 sacks 75% Class "G" 25% Poz with 2% CaCl and 1/4 #/Sk Flocele. (Cement will be circulated to surface.)
Production	250 sacks Thifty Lite and 400 sacks 50-50 Poz mix. (Top of cement will be 2000')

PRELIMINARY DRILLING FLUID PROGRAM

TYPE	FROM	TO	WEIGHT	PLAS. VIS	YIELD POINT
Air and air mist	0	260	N.A.	N.A.	N.A.
Air/Air Mist/KCl Water	260	T.D.	8.7-8.9	N.A.	N.A.

Drilling will be with air from surface to as deep as hole conditions allow. 2% KCl fluid will be used for the remainder of the hole.

COMMENTS

1.) No cores or DST's are planned.

DMM/5/17/93

BALCRON OIL CO.

Operator: BALCRON OIL	Well Name: Balcron Fed. 21-13Y
Project ID:	Location: Monument Butte, Utah

Design Parameters:

Mud weight (8.90 ppg) : 0.462 psi/ft
Shut in surface pressure : 2138 psi
Internal gradient (burst) : 0.100 psi/ft
Annular gradient (burst) : 0.000 psi/ft
Tensile load is determined using air weight
Service rating is "Sweet"

Design Factors:

Collapse : 1.125
Burst : 1.00
8 Round : 1.80 (J)
Buttress : 1.60 (J)
Body Yield : 1.50 (B)
Overpull : 0 lbs.

	Length (feet)	Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost
1	5,900	5-1/2"	15.50	J-55	ST&C	5,900	4.825	

	Collapse Load (psi)	Collapse Strgth (psi)	Collapse S.F.	Burst Load (psi)	Min Int Yield Strgth (psi)	Burst S.F.	Tension Load (kips)	Tension Strgth (kips)	Tension S.F.
1	2728	4040	1.481	2728	4810	1.76	91.45	202	2.21 J

Prepared by : McCoskery, Billings, MT
Date : 05-17-1993
Remarks :
Minimum segment length for the 5,900 foot well is 1,500 feet.
The mud gradient and bottom hole pressures (for burst) are 0.462 psi/ft and 2,728 psi, respectively.

NOTE: The design factors used in this casing string design are as shown above. As a general guideline, Lone Star Steel recommends using minimum design factors of 1.125 - Collapse (with evacuated casing), 1.0 - Burst, 1.8 - 8 Round Tension, 1.6 - Buttress Tension, and 1.5 - Body Yield. Collapse strength under axial tension was calculated based on the Westcott, Dunlop and Kemler curve. Engineering responsibility for use of this design will be that of the purchaser.
Costs for this design are based on a 1990 pricing model. (Version 1.0G)

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
MONTANA STATE OFFICE
222 NORTH 32ND STREET
P.O. BOX 36800
BILLINGS, MONTANA 59107-6800

TAKE PRIDE IN AMERICA

IN REPLY TO:
MTM 12619-A et al
BLM BOND NO. MT0576
(922.31)

April 25, 1989

N O T I C E

Equitable Resources Energy Company
P. O. Box 21017
Billings, Montana 59104

OIL AND GAS

CORPORATE MERGER RECOGNIZED
RIDER TO NATIONWIDE BOND ACCEPTED

Acceptable evidence has been filed in this office concerning the merger of Balcron Oil Company into Equitable Resources Energy Company, the surviving corporation. Information provided shows that Balcron Oil Company merged into Equitable Resources Energy Company, changing the former entity's name to Balcron Oil, a Division of Equitable Resources Energy Company. Please note that Divisions cannot hold leases, therefore, after consultation with Balcron Oil, this office is recognizing only the merger action.

A rider was filed on April 20, 1989, to be made a part of $150,000 Nationwide Oil and Gas Bond No. 5547188 (BLM Bond No. MT0576) with Balcron Oil Company as principal and Safeco Insurance Company of America as surety. By means of this rider, the surety consents to changing the name on the bond from Balcron Oil Company to Equitable Resources Energy Company. The rider is accepted effective April 20, 1989.

For our purposes, the merger is recognized effective April 20, 1989.

The oil and gas lease files and communitization agreement files identified on the enclosed Exhibit A have been noted as to the merger. Other lease interests will be transferred by assignments from Ballard & Cronoble to Equitable Resources Energy Company.

Cynthia L. Embretson, Chief
Fluids Adjudication Section

1 Enclosure
1-Exhibit A

cc: (w/encl.)
AFS, Denver (1)
All DMs (1 ea.)
RMO Section (1)
Regional Forester, Lakewood (2)
Regional Forester, Missoula (2)
Bureau of Reclamation (1)

Form 3104-8
(July 1984)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

STATE, NATIONWIDE, OR NATIONAL PETROLEUM RESERVE IN ALASKA OIL AND GAS BOND

Act of February 25, 1920 (30 U.S.C. Sec. 181)
Act of August 7, 1947 (30 U.S.C. Sec. 351)
Department of the Interior Appropriations Act, Fiscal Year 1981 (P.L. 96-514)
Other Oil and Gas Leasing Authorities as Applicable

KNOW ALL MEN BY THESE PRESENTS, That we
BALCRON OIL COMPANY
of 1601 Lewis Avenue, Billings, MT 59104

as principal, and
SAFECO INSURANCE COMPANY OF AMERICA
of 111 Presidential Blvd., Suite 231, Bala Cynwyd, PA 19004

as surety, are held and firmly bound unto the United States of America in the sum of ONE HUNDRED FIFTY THOUSAND AND 00/100---------- dollars ($ 150,000.00), in lawful money of the United States, which sum may be increased or decreased by a rider hereto executed in the same manner as this bond, for the use and benefit of (1) the United States; (2) the owner of any of the land subject to the coverage of this bond, who has a statutory right to compensation in connection with a reservation of the oil and gas deposits to the United States; and (3) any lessee or permittee under a lease or permit issued by the United States prior to the issuance of an oil and gas lease for the same land subject to this bond, covering the use of the surface or the prospecting for, or development of, other mineral deposits in any portion of such land, to be paid to the United States. For such payment, well and truly to be made, we bind ourselves, and each of our heirs, executors, administrators, and successors, jointly and severally.

☐ The coverage of this bond shall extend to all of the principal's holdings of federal oil and gas leases in the United States, including Alaska, issued or acquired under the Acts cited in Schedule A.

☐ The coverage of this bond extends only to the principal's holdings of federal oil and gas leases issued or acquired under the Acts cited and in the States named in Schedule A and to any other State or States that may be named in a rider attached hereto by the lessor with the consent of the surety.

☐ The coverage of this bond extends only to the principal's holdings of federal oil and gas leases within the National Petroleum Reserve in Alaska.

SCHEDULE A

Mineral Leasing Act of February 25, 1920 (30 U.S.C. Sec. 181), Acquired Lands Leasing Act of August 7, 1947 (30 U.S.C. Sec. 351), and other oil and gas leasing authorities as applicable.

NAMES OF STATES

ALL STATES

The conditions of the foregoing obligations are such that, whereas the said principal has an interest in oil and gas leases issued under the Acts cited in this bond: (1) as lessee; (2) as the approved holder of operating rights in all or part of the lands covered by such leases under operating agreements with the lessees; or (3) as designated operator or agent under such leases pending approval of an assignment or operating agreement; and

WHEREAS the principal is authorized to drill for, mine, extract, remove, and dispose of oil and gas deposits in or under the lands covered by the leases, operating agreements or designations and is obligated to comply with certain covenants and agreements set forth in such instruments; and

WHEREAS the principal and surety agree that without notice to the surety the coverage of this bond, in addition to the present holdings of the principal, shall extend to and include:

SAFECO

SURETY RIDER

SAFECO INSURANCE COMPANY OF AMERICA
GENERAL INSURANCE COMPANY OF AMERICA
FIRST NATIONAL INSURANCE COMPANY OF AMERICA
HOME OFFICE: SAFECO PLAZA
SEATTLE, WASHINGTON 98185

To be attached to and form a part of

Type of Bond: Nationwide Oil and Gas Lease Bond

Bond No. 5547188 (BLM Bond No. MT0576)

dated effective 9/8/88
(MONTH, DAY, YEAR)

executed by BALCRON OIL COMPANY, as Principal,
(PRINCIPAL)

and by SAFECO INSURANCE COMPANY OF AMERICA, as Surety,
(SURETY)

in favor of UNITED STATES DEPARTMENT OF THE INTERIOR, BUREAU OF LAND MANAGEMENT.
(OBLIGEE)

In consideration of the mutual agreements herein contained the Principal and the Surety hereby consent to changing

The name of the Principal

From: BALCRON OIL COMPANY

To: EQUITABLE RESOURCES ENERGY COMPANY

Nothing herein contained shall vary, alter or extend any provision or condition of this bond except as herein expressly stated.

This rider is effective 1/1/89
(MONTH, DAY, YEAR)

Signed and Sealed 4/10/89
(MONTH, DAY, YEAR)

EQUITABLE RESOURCES ENERGY COMPANY
PRINCIPAL

By: _____
TITLE

SAFECO INSURANCE COMPANY OF AMERICA
SURETY

By: R. George Voinchet
ATTORNEY-IN-FACT

SAFECO

POWER OF ATTORNEY

SAFECO INSURANCE COMPANY OF AMERICA
GENERAL INSURANCE COMPANY OF AMERICA
HOME OFFICE: SAFECO PLAZA
SEATTLE, WASHINGTON 98185

EXHIBIT "E" Page 4 of 4
3798

No. _____

KNOW ALL BY THESE PRESENTS:

That SAFECO INSURANCE COMPANY OF AMERICA and GENERAL INSURANCE COMPANY OF AMERICA, each a Washington corporation, does each hereby appoint

----------THOMAS L. VEHAR; R. GEORGE VOINCHET, Pittsburgh, Pennsylvania----------

its true and lawful attorney(s)-in-fact, with full authority to execute on its behalf fidelity and surety bonds or undertakings and other documents of a similar character issued in the course of its business, and to bind the respective company thereby.

IN WITNESS WHEREOF, SAFECO INSURANCE COMPANY OF AMERICA and GENERAL INSURANCE COMPANY OF AMERICA have each executed and attested these presents

this 4th day of September, 19 87.

CERTIFICATE

Extract from the By-Laws of SAFECO INSURANCE COMPANY OF AMERICA and of GENERAL INSURANCE COMPANY OF AMERICA:

"Article V, Section 13. — FIDELITY AND SURETY BONDS . . . the President, any Vice President, the Secretary, and any Assistant Vice President appointed for that purpose by the officer in charge of surety operations, shall each have authority to appoint individuals as attorneys-in-fact or under other appropriate titles with authority to execute on behalf of the company fidelity and surety bonds and other documents of similar character issued by the company in the course of its business . . . On any instrument making or evidencing such appointment, the signatures may be affixed by facsimile. On any instrument conferring such authority or on any bond or undertaking of the company, the seal, or a facsimile thereof, may be impressed or affixed or in any other manner reproduced; provided, however, that the seal shall not be necessary to the validity of any such instrument or undertaking."

Extract from a Resolution of the Board of Directors of SAFECO INSURANCE COMPANY OF AMERICA and of GENERAL INSURANCE COMPANY OF AMERICA adopted July 28, 1970.

"On any certificate executed by the Secretary or an assistant secretary of the Company setting out,

(i) The provisions of Article V, Section 13 of the By-Laws, and

(ii) A copy of the power-of-attorney appointment, executed pursuant thereto, and

(iii) Certifying that said power-of-attorney appointment is in full force and effect,

the signature of the certifying officer may be by facsimile, and the seal of the Company may be a facsimile thereof."

I, Boh A. Dickey, Secretary of SAFECO INSURANCE COMPANY OF AMERICA and of GENERAL INSURANCE COMPANY OF AMERICA, do hereby certify that the foregoing extracts of the By-Laws and of a Resolution of the Board of Directors of these corporations, and of a Power of Attorney issued pursuant thereto, are true and correct, and that both the By-Laws, the Resolution and the Power of Attorney are still in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the facsimile seal of said corporation

this 10th day of April, 19 89.

EXHIBIT "F"

ARCHEOLOGICAL - ENVIRONMENTAL RESEARCH CORPORATION

P. O. Box 853 Bountiful, Utah 84011-0853
Tel: (801) 292-7061, 292-9668

May 6, 1993

Subject: CULTURAL RESOURCE EVALUATION OF NINE PROPOSED WELL LOCATIONS IN THE CASTLE PEAK DRAW LOCALITY OF DUCHESNE AND UINTAH COUNTIES, UTAH

Project: Balcron Oil Company -- 1993 Development Program for the Monument Butte Lease Area Units: 41-18, 14-8, 21-13Y, 21-25Y, 41-21Y, 21-9, 44-14Y, 24-3Y, and 22-10Y

Project No.: BLCR-93-1

Permit No.: Dept. of Interior -- UT-92-54937

Utah State No.: UT-93-AF-158b

To: Ms. Ms. Bobbie Schuman, Balcron Oil Company, P.O. Box 21017, Billings, Montana 59104

Mr. David Little, District Manager, Bureau of Land Management, 170 South 500 East, Vernal, Utah 84078

Info: Antiquities Section, Division of State History, 300 Rio Grande, Salt Lake City, Utah 84101

RECEIVED
MAY 11 1993

5-13-93 NOTE: The access route on our 41-21Y was changed at the onsite. The new access will be re-evaluated and a supplemental report submitted/ps

CULTURAL RESOURCE EVALUATION OF NINE PROPOSED WELL LOCATIONS IN THE CASTLE PEAK DRAW LOCALITY OF DUCHESNE AND UINTAH COUNTIES, UTAH

Report Prepared for BALCRON OIL COMPANY

Dept. of Interior Permit No.: UT-92-54937
AERC Project 1373 (BLCR-93-1)

Utah State Project No.: UT-93-AF-158b

Principal Investigator: F. Richard Hauck, Ph.D.
Author of Report: Glade Hadden

ARCHEOLOGICAL-ENVIRONMENTAL RESEARCH CORPORATION (AERC)

181 North 200 West, Suite 5
P.O. Box 853
Bountiful, Utah 84011-0853

May 6, 1993

ABSTRACT

Intensive cultural resource evaluations have been conducted for Balcron Oil Company of seven proposed well locations on federal lands in the Castle Peak Draw locality of Duchesne and Uintah Counties, Utah. The examinations of these nine locations involved a total of 119.1 acres of which 29.1 acres (4 miles) includes eight separate access routes associated with Units 41-18, 14-8, 21-13Y, 21-25Y, 41-21Y, 21-9, 44-14Y and 24-3Y. The remaining 90 acres involves ten acre parcels at all nine of the proposed Units (41-18, 14-8, 21-13Y, 21-25Y, 41,21Y, 21-9, 44-14Y, 24-3Y and 22-10Y). These evaluations were conducted on May 3 and 4, 1993 by archaeologist Glade Hadden under the supervision of F. Richard Hauck.

No previously recorded significant or National Register eligible cultural resources will be adversely affected by the proposed developments.

One newly identified cultural resource activity locus was evaluated and recorded during the examinations. This site (42UN 2062) consists of a non-significant lithic scatter associated with proposed Unit 44-14Y.

AERC recommends project clearance based on adherence to the stipulations noted in the final section of this report.

TABLE OF CONTENTS

LIST OF MAPS OF THE PROJECT AREA

GENERAL INFORMATION

On May 3 and 4, 1993, archaeologist Glade Hadden acting under the supervision of F.R. Hauck, conducted intensive cultural resource evaluations for Balcron Oil Company of Billings, Montana. These examinations involved nine separate well locations (41-18, 14-8, 21-13Y, 21-25Y, 41-21Y, 21-9, 44-14Y, 24-3Y and 22-10Y) and eight linear access route evaluations totaling 4 miles associated with Units 41-18, 14-8, 21-13Y, 21-25Y, 41-21Y, 21-9, 44-14Y and 24-3Y. This project area is situated in the Castle Peak Draw locality of Duchesne and Uintah Counties, Utah.

This project is situated on federal lands administered by the Diamond Mountain Resource Area of the Vernal District of the Bureau of Land Management.

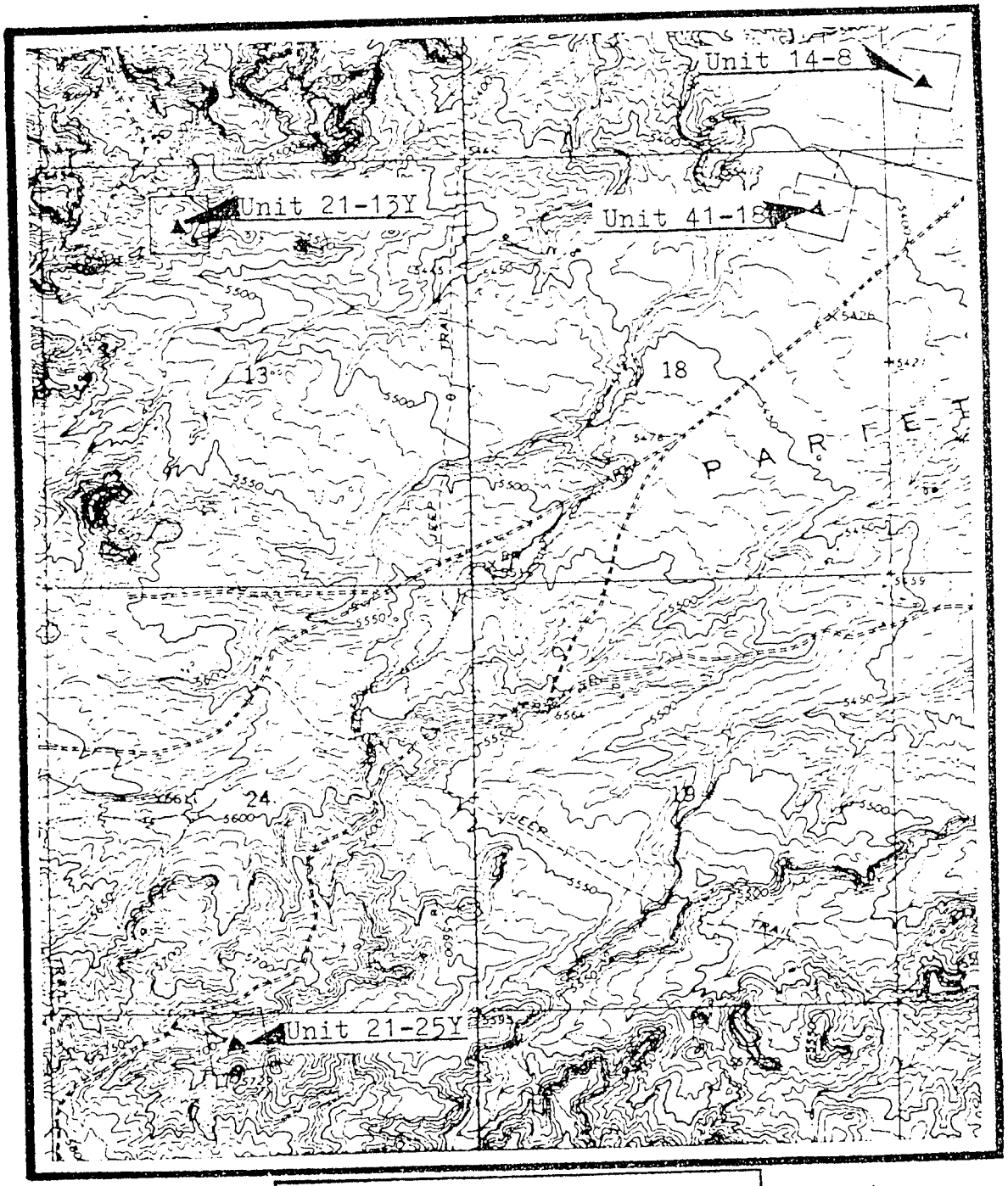
The purpose of the field study and this report is to identify and document cultural site presence and assess National Register potential significance relative to established criteria (cf., Title 36 CFR 60.6). The proposed development of these well locations requires an archaeological evaluation in compliance with the Antiquities Act of 1906, the Reservoir Salvage Act of 1960-as amended by P.L. 93-291, Section 106 of the National Historic Preservation Act of 1966-as amended, the National Environmental Policy Act of 1969, the Federal Land Policy and Management Act of 1979, the Archaeological Resources Protection Act of 1979, the Native American Religious Freedom Act of 1978, the Historic Preservation Act of 1980, and Executive Order 11593.

In addition to documenting cultural identity and significance, mitigation recommendations relative to the preservation of cultural data and materials can be directed to the Vernal District Office of the Bureau of Land Management relative to the locations on public lands, and to the Antiquities Section of the Utah State Division of History. This work was done under U.S. Department of Interior Permit for Utah UT-92-54937 which expires on January 31, 1994.

The nine evaluated well locations included nine 10 acre parcel evaluations for a total of 90 acres. A series of 15 to 20 meter-wide survey transects were walked within the 60 foot-wide corridors associated with the eight access routes covering a total distance of 4 miles or some 29.1 acres. A total of 119.1 acres were examined during this inventory.

Project Location

The project location is in the Vernal District of the Bureau of Land Management. It is situated on the Myton SE, Myton SW and Pariette Draw SW 7.5 minute topographic quads as shown on the attached maps.



T. 9 South
R. 16 and 17 E
Meridian: S.L.B.M
Quad: Myton SE, Utah

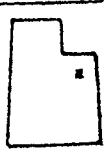
MAP 1
Cultural Resource Survey of Balcron Units 41-18, 14-8, 21-13Y and 21-25Y, Castle Peak Draw Area

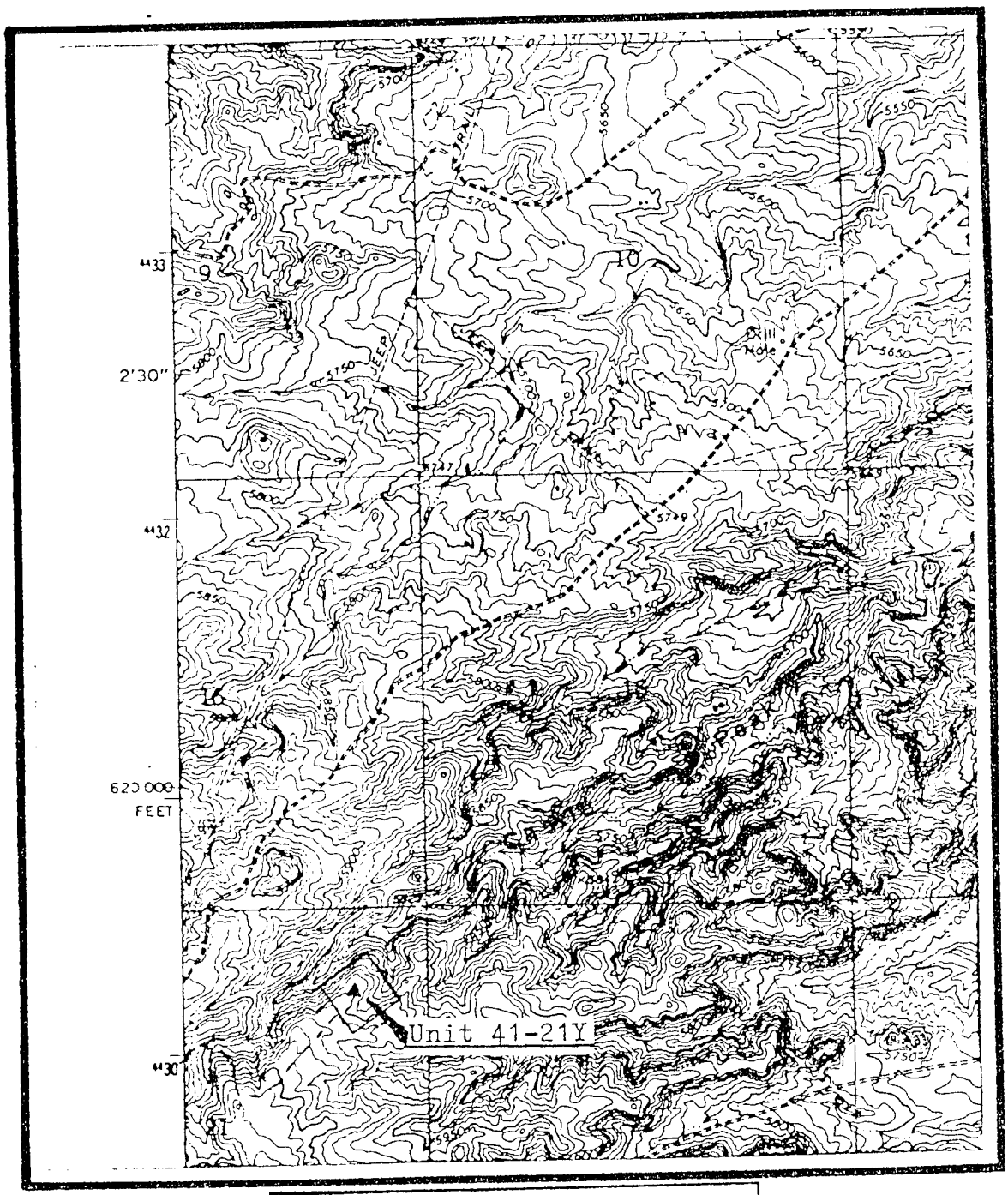
Legend:
Well Location ▲
Access Route - - - -

N

Project: BLCR-93-1
Series: Uinta Basin
Date: 5-6-93

Scale: 1:24,000





T. 9 South
R. 16 East
Meridian: S.L.B.M.
Quad: Myton SE
Utah

MAP 2
Cultural Resource Survey of Balcron Unit 41-21Y in the Castle Peak Draw area of Duchesne County

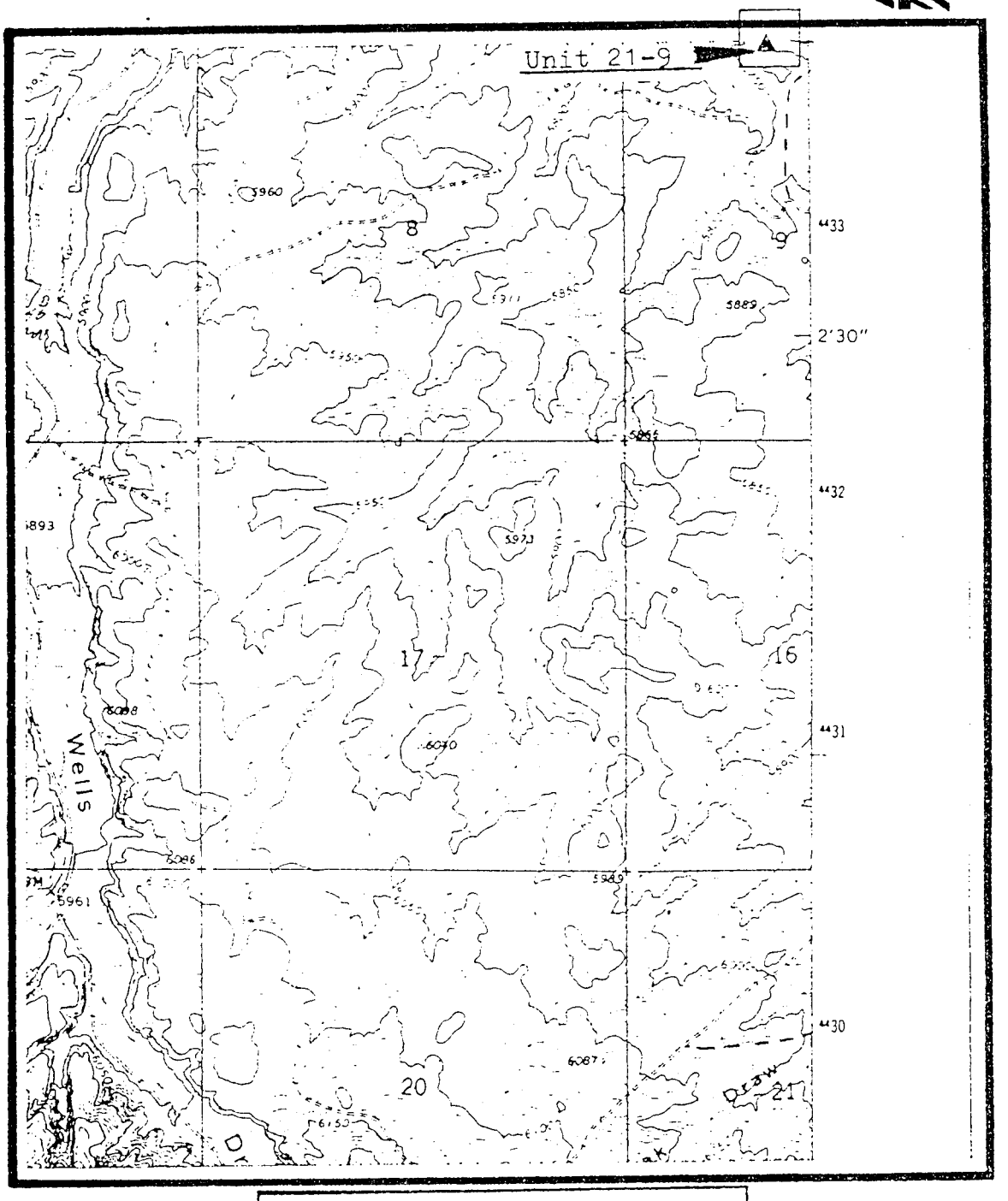
Legend:
Well Location
Access Route

N

Project: BLCR-93-1
Series: Uinta Basin
Date: 5-6-93

Scale: 1:24,000

3



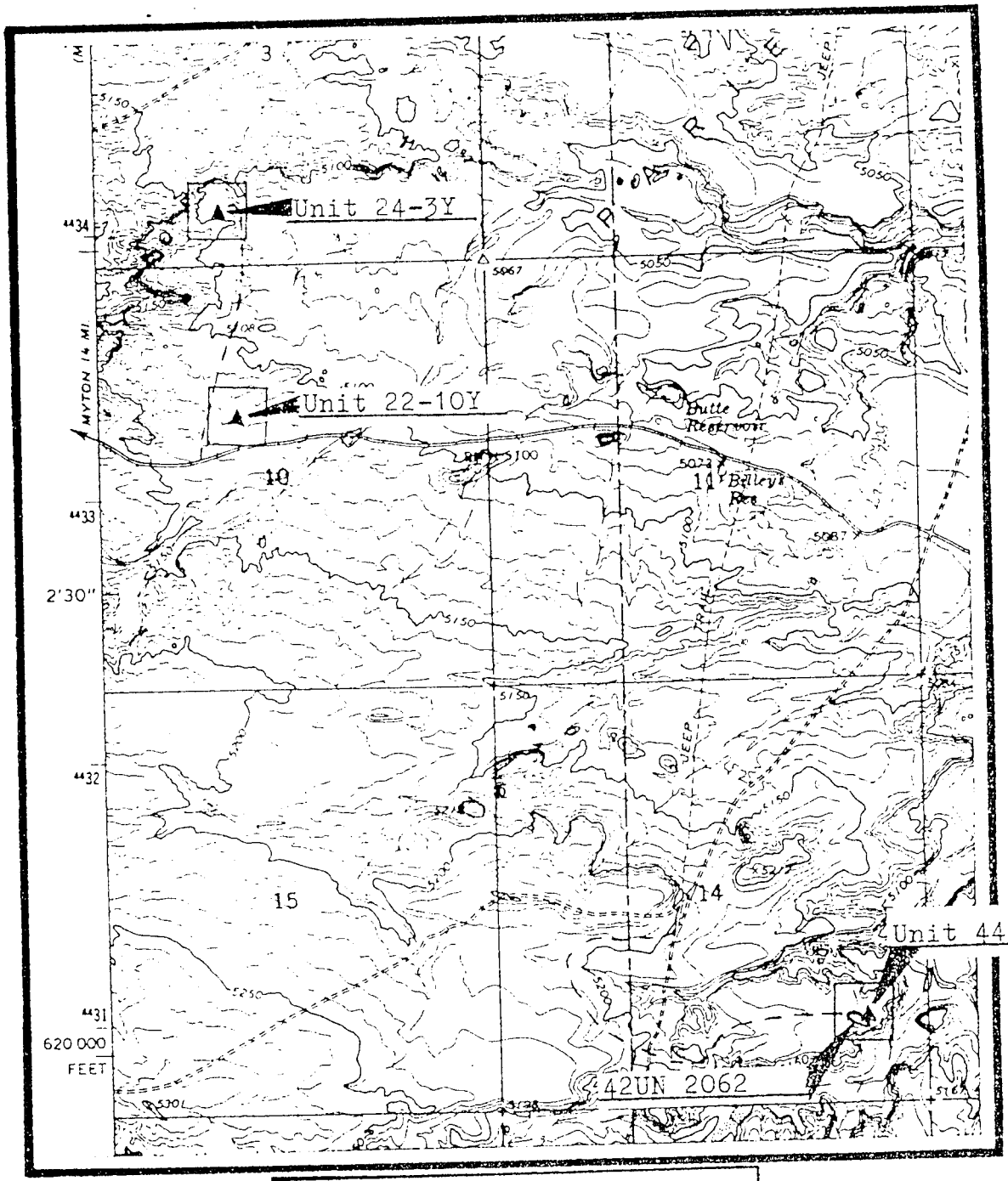
T. 9 South
R. 16 East
Meridian: S.L.B.M
Quad: Myton SW, Utah

MAP 3
Cultural Resource Survey of Balcron Unit 21-9 in the Castle Peak Draw Area of Duchesne County

Legend:
Well Location ▲
Access Route

N

Project: BLCR-93-1
Scale: 1:24,000
Series: Uinta Basin
Date: 5-6-93



MAP 4
Cultural Resource Survey of Balcron Units 44-14Y, 24-3Y and 22-10Y in the Castle Peak Draw Area

T. 9 South
R. 17 East
Meridian: S.L.B.M
Quad: Pariette Draw SW, Utah

Scale: 1:24,000

Project: BLCR-93-1
Series: Uinta Basin
Date: 5-6-93

Legend:
- Well Location
- Access Route
- Cultural Site

N

Unit 41-18 is situated in the NE - NE quarter of Section 18, Township 9 South, Range 17 East. Its access route extends for ca. .2 mile to the southwest from an existing road traversing the northeastern corner of that section (see Map 1).

Unit 14-8 is in the SW - SW quarter of Section 8 of that same township and range. An access route extends ca. .2 mile northeast from the same existing road to the location (see Map 1).

Unit 21-13Y is situated in Section 13, Township 9 South, Range 16 East. This unit is situated in the NE - NW quarter of that section (see Map 1). Its access route extends ca. .5 mile east along an existing jeep trail, then southeast onto the location.

Unit 21-25Y is in the NE - NW of section 25 of Township 9 South, Range 16 East. The unit is accessible via a ca. .2 mile-long access that begins at an existing road which crosses the NW corner of that section, and extends to the southeast to the well location.

Unit 41-21Y is located in the NE - NE quarter of Section 21, Township 9 South, Range 16 East (see Map 2). Its 1 mile-long access begins at an existing roadway to the southwest of the location (see Map 3).

Unit 21-9 is also located in Township 9 South, Range 16 East. It is situated in the NE - NW quarter of Section 9 (see Map 3). This unit has a ca. .4 mile access route which will connect the location with the existing road to the south of the location (see maps 2 and 3).

Unit 44-14Y is located in the SE - SE quarter of section 14, Township 9 South, Range 17 East. A ca. 1 mile access route links the unit with an existing one lane jeep trail to the west, near the center of section 14. This jeep trail, in turn, connects with a road/pipeline corridor ca. .5 mile to the north (see map 4).

Unit 24-3Y is situated in the SE - SW quarter of section 3, Township 9 South, Range 17 East. A ca. .5 mile access route connects the unit to the main Castle Peak / Pariette Bench road to the south (see map 4).

Unit 22-10Y is in the SE - NW quarter of section 10 in that same township and range. The unit is located immediately adjacent to the access route leading to unit 24-3Y (see map 4).

Environmental Description:

The project areas range within the 5100 to 5900 foot elevation zone above sea level. Open rangeland terrain surfaces are associated with all locations.

The vegetation in the project area includes *Chrysothamnus spp.*, *Sarcobatus vermiculatus*, *Ephedra viridis*, *Artemesia tridentata*, *Atriplex canescens*, and *Bromus tectorum*.

The geological associations within the project area consist of fluvial and lake deposits which correlate with the Uinta Formation which is of Tertiary age.

PREVIOUS RESEARCH IN THE LOCALITY

File Search

Records searches of the site files and maps at the Antiquities Section of the State Historic Preservation Office in Salt Lake City were conducted on May 5, 1993. A similar search was conducted in the Vernal District Office of the BLM on May 3, 1993. The National Register of Historic Places has been consulted and no registered historic or prehistoric properties will be affected by the proposed developments.

A variety of known cultural sites are situated in the Castle Peak Draw locality. Most of these prehistoric resources, including 42DC 349, 350, 351, 352, 353, 732, 761, 763 and 765 have been identified and recorded by AERC during previous evaluations (Hauck 1981, 1992a, 1992b, 1992c, 1992d). Additional sites previously recorded in this locality include Sites 42DC 423, 424, and 425 which were documented by Sagebrush (Polk 1982), 42DC 382 identified by Grand River (Babcock 1981), and 42DC 539, 540, 541, 542, 543 and 556 recorded by BLM Archaeologist Blaine Phillips in 1983.

One site identified in the project area during the search may be affected. Site 42DC 765 is a lithic scatter/rockshelter complex located by AERC during a previous evaluation for Balcron in the area (Hauck 1992e). This site is located in section 8, adjacent to the proposed development area for unit 14-8, ca. 100 meters from the impacted area (see map 1). Site 42DC 765, while not directly affected by the proposed development may be adversly affected by the increased availability of access to the site.

Prehistory and History of the Cultural Region

Currently available information indicates that the Northern Colorado Plateau Cultural Region has been occupied by a variety of cultures beginning perhaps as early as 10,000 B.C. These cultures, as identified by their material remains, demonstrate a cultural developmental process that begins with the earliest identified Paleoindian peoples (10,000 -- 7,000 B.C.) and extends through the Archaic (ca. 7,000 B.C. -- A.D. 300), and Formative (ca. A.D. 400 -- 1100) Stages, and the Late Prehistoric-Protohistoric periods (ca. A.D. 1200 -- 1850) to conclude in the Historic-Modern period which was initiated with the incursion of the Euro-American

trappers, explorers, and settlers. Basically, each cultural stage -- with the exception of the Late Prehistoric hunting and gathering Shoshonean bands -- features a more complex life-way and social order than occurred during the earlier stage of development (Hauck 1991:53). For a more comprehensive treatment of the prehistory and history of this region see Archaeological Evaluations in the Northern Colorado Plateau Cultural Area (Hauck 1991).

Site Potential in the Project Development Zone

Previous archaeological evaluations in the region have resulted in the identification and recording of a variety of cultural resource sites having eligibility for potential nomination to the National Register of Historic Places (NRHP). The majority of these sites are lithic scatters containing cobble reduction materials. Open occupations are also known in this locality. Sites associated with the open rangeland generally appear to have been occupied during the Middle Archaic Stage with occasional indications of Paleoindian activity based on the recovery of isolated Plano style projectile points. The north-south drainage canyons appear to contain the majority of Late Prehistoric (Numa) sites probably because those canyon floors were transportation corridors and convenient pastures for the Ute horse herds. Evidence of Formative Stage occupation, i.e., the Fremont Culture, is rarely observed in the rangeland environment but is common within the Green River and White River canyons and principal tributaries.

The majority of known sites in this project area are lithic scatters (42DC 349, 350, 353 and 763). Open occupations such as 42DC 352 are also present. Sites 42DC 351 and 761 are rock shelters. Based on the recovery of a Folsom point and a Desert Side-notch arrow point, a possible Paleoindian component and a more recent Numic component exist on Site 42DC 353. Sites in the project locality generally appear to have been occupied during the Archaic Stage and the Late Prehistoric Period.

Site density in Castle Peak Draw appears to range from six to over ten sites per section. This moderate to high density decreases substantially on the benches.

FIELD EVALUATIONS

Methodology

Intensive evaluations were accomplished within each survey area by the archaeologist walking 10 to 20 meter-wide transects within each ten acre parcel associated with a well location. In addition, double 15 to 20 meter-wide transects were walked flanking the flagged centerline. Thus, ca. 4 miles or 29.1 acres of public lands associated with the eight access routes and another 90 acres associated with the nine well locations were examined by Glade Hadden acting under the direction of F. Richard Hauck, the Principal Investigator.

Observation of cultural materials results in intensive examinations to determine the nature of the resource (isolate or activity locus). The analysis of each specific cultural site results in its subsequently being sketched, photographed, and appropriately recorded on standard IMACS forms. Cultural sites are then evaluated for significance utilizing the standards described below and mitigation recommendations are considered as a means of preserving significant resources which may be situated within the development zone.

Site Significance Criteria

Prehistoric and historic cultural sites which can be considered as eligible for nomination to the National Register of Historic Places have been outlined as follows in the National Register's Criteria for Evaluation as established in Title 36 CFR 60.6:

> The quality of significance in American ... archaeology ... and culture is present in ... sites ... that possess integrity of location, design, setting, materials, workmanship, feeling, and association and:
> a. That are associated with events that have made a significant contribution to the broad patterns of our history; or
> b. that are associated with the lives of persons significant in our past; or
> c. that embody the distinctive characteristics of a type, period, or method of construction ... ; or
> d. that have yielded, or may be likely to yield, information important in prehistory or history.

In addition to satisfying one or more of these general conditions, a significant cultural resource site in Utah will generally be considered as being eligible for inclusion in the National Register if it should advance our current state of knowledge relating to chronology, cultural relationships, origins, and cultural life ways of prehistoric or historic groups in the area.

In a final review of any site's cultural significance, the site must possess integrity and at least one of the above criteria to be considered eligible for nomination to the National Record of Historic Places.

Results of the Inventory:

One non-significant prehistoric cultural resource activity locus was observed, evaluated and recorded during the archaeological evaluations. This site has been subsequently listed in the State and BLM files as 42UN 2062.

Site 42UN 2062 (see map 4) consists of a 20 x 100 meter lithic scatter that is predominantly composed of locally procured Parachute Creek chert nodules, primary and secondary flakes and a single non-diagnostic bifacially prepared

artifact. Detritus spread extends ca. 100 meters along the top of a bench associated with well location 44-14Y. Most of the site lies within the proposed development zone or access route for the unit. A small (ca. 2 x 10 meter) concentration of 6 primary and secondary flakes is associated with the single artifact. This small concentration lies entirely outside the proposed development area for the well location but is within the proposed access route. A more widely dispersed distribution of primary flakes and core fragments extending along the bench indicates limited prehistoric lithic testing and procurement activity at this site. Little potential exists for buried deposits, and no other features were noted. Site integrity is good to excellent, with the only noted impact agent being erosion, however potential for extensive occupational strata and material deposits is low. Temporal and cultural associations for this site are presently unknown; no diagnostic artifacts or exposed features were observed during the survey.

This site is a non-significant resource. There exists little potential for providing any pertinent or valuable information on the prehistory of the region relative to criterion d of Title 36 CFR 60.6.

None of the previously recorded cultural sites in this project locality will be adversely affected by the proposed developments, with the possible exception of site 42DC 765. This site, while not directly affected, may be adversely impacted by the increased availability of access provided by the development of unit 14-8.

No isolated diagnostic artifacts were observed or collected during the survey. A single non-diagnostic artifact associated with site 42UN 2062 was collected.

CONCLUSION AND RECOMMENDATIONS

The development and maintenance of these nine locations will not have any direct adverse effect on any NRHP eligible cultural resources in this locality.

AERC recommends that a cultural resource clearance be granted to Balcron Oil Company relative to the development of the nine well locations noted above based upon adherence to the following stipulations:

1. All vehicular traffic, personnel movement, construction and restoration operations should be confined to the flagged areas and corridors examined as referenced in this report, and to the existing roadways and/or evaluated access routes.

2. All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area.

3. The authorized official should be consulted should cultural remains from subsurface deposits be exposed during construction work or if the need arises to relocate or otherwise alter the location of the development areas.

Glade Hadden
Field Archaeologist

F. Richard Hauck, Ph.D.
President and Principal
Investigator

REFERENCES

Babcock, T.

1981 Report on Cultural Resources Identified During an Inventory of Proposed Lomax 1-26 Well Location in the Monument Buttes Area of Duchesne County, 11/12/81. Report Prepared for Grand River Consultants, Grand Junction.

Hauck, F. Richard

1981 Cultural Resource Inventory of Nine Proposed Well Locations and Access Roads in the Coyote Basin Locality of Uintah County, Utah, and in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Diamond Shamrock, DS-81-2, Archeological-Environmental Research Corporation (AERC), Bountiful.

1991 Archaeological Evaluations on the Northern Colorado Plateau Cultural Area, AERC Paper No. 45, Archeological-Environmental Research Corporation, Bountiful.

1992a Cultural Resource Evaluations of Four Proposed Well Locations in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-92-2, Archeological-Environmental Research Corporation (AERC), Bountiful.

1992b Addendum to Cultural Resource Evaluations of Four Proposed Well Locations in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-92-4, Archeological-Environmental Research Corporation (AERC), Bountiful.

1992c Cultural Resource Evaluations of Seven Proposed Well Locations in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-92-5, Archeological-Environmental Research Corporation (AERC), Bountiful.

1992d Cultural Resource Evaluation of a Proposed Water Pipeline Corridor in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-92-6, Archeological-Environmental Research Corporation (AERC), Bountiful.

1992e Cultural Resource Evaluation of 7 Proposed Well locations in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-92-8, Archeological-Environmental Research Corporation (AERC), Bountiful.

Polk, Michael
1982 Cultural resource inventory of NGC Well No. 12-8h. Report prepared by Sagebrush Archaeological Consultants, Ogden.

Department of the Interior
Bureau of Land Management
Utah State Office
(AERC FORMAT)

Summary Report of
Inspection for Cultural Resources

Authorization .U.9.3.A.F.1.5.8.b.

Report Acceptable Yes __ No __

Mitigation Acceptable Yes __ No __
Comments: _____

M O N U M E N T B U T T E S 9 W E L L U N I T S

1. Report Title . . . . . .

BALCRON OIL CO. (14-8, 41-18, 24-3Y, 22-10Y, 44-14Y, 41-21Y, 21-9, 21-13Y, 21-25Y)

2. Development Company

3. Report Date 0 5 06 1 9 9 3 . . . . . 4. Antiquities Permit No. UT-92-54937

A E R C B L C R - 9 3 - 1

5. Responsible Institution . . . . . Uintah and Duchesne County

6. Fieldwork Location: TWN 0 9 S RNG 1 7 E Section. 0 3 0 8 1 0 1 4 1 8

7. Resource Area .D.M. TWN 0 9 S RNG 1 6 E Section. 0 9 1 3 2 1 2 5

8. Description of Examination Procedures: The archeologist, Glade Hadden, acting under the direction of F.R. Hauck intensively examined nine 10 acre well parcels and associated access routes by walking a series of 10 to 20 meter-wide transects within the locations and along the flagged access centerlines.

9. Linear Miles Surveyed and/or Definable Acres Surveyed and/or Legally Undefinable Acres Surveyed . . . . . 4 . . . . . 119.1

10. Inventory Type . . I

R = Reconnaissance
I = Intensive
S = Statistical Sample

11. Description of Findings:
One cultural resource site was identified during the survey. Site 42UN 2062 is a lithic scatter. One biface was collected. This site is non-significant.

12. Number Sites Found .1. . . . . (No sites = 0)

13. Collection: .Y. (Y = Yes, N = No)

14. Actual/Potential National Register Properties Affected:
The National Register of Historic Places (NRHP) has been consulted and no registered properties will be affected by the proposed development.

15. Literature Search, Location/ Date: Utah SHPO 5-5-93 Vernal District Office Records 5-3-93

16. Conclusion/ Recommendations:

AERC recommends that a cultural resource clearance be granted to Balcron Oil Company for these proposed developments based on the following stipulations:

1. All vehicular traffic, personnel movement, construction and restoration operations should be confined to the corridor examined as referenced in this report, and to the existing roadways and/or evaluated access routes.

2. All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area.

3. The authorized official should be consulted should cultural remains from subsurface deposits be exposed during construction work or if the need arises to relocate or otherwise alter the location of the exploration area.

17. Signature of Administrator & Field Supervisor

Administrator

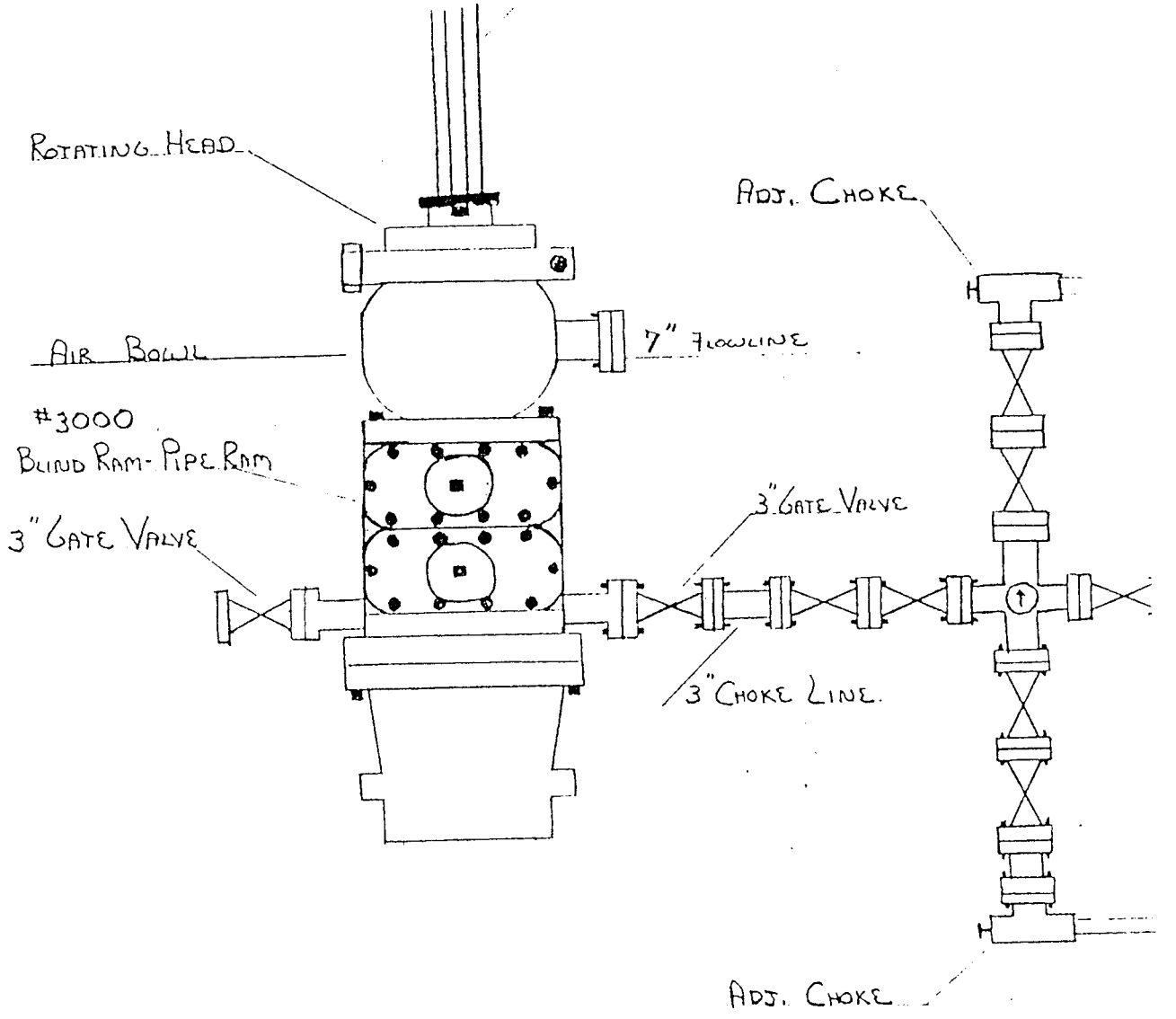
Field Supervisor

UT 8100-3 (2/85)

EXHIBIT "H"

Hex Kelly

UNION DRILLING RIG #17



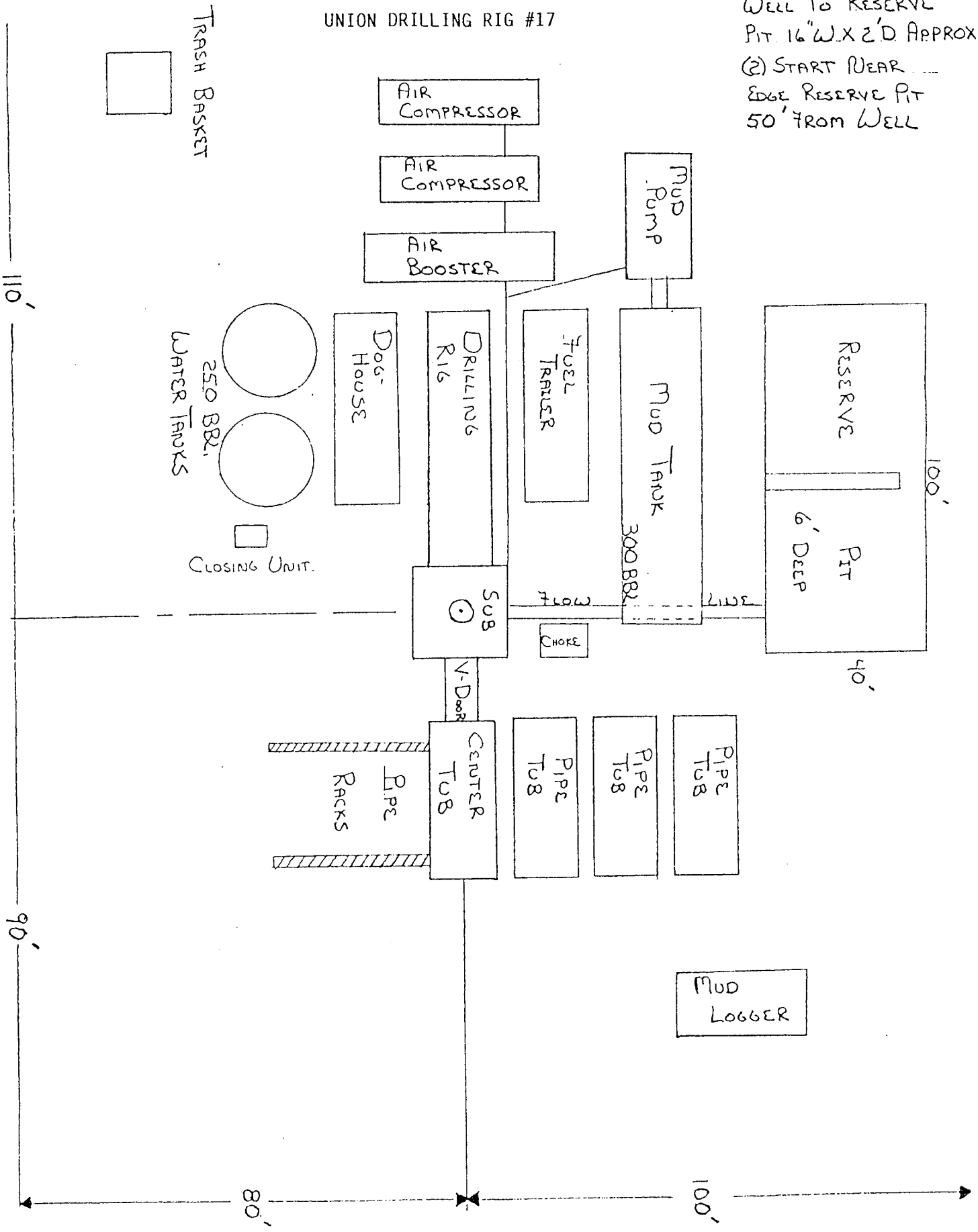
#3000 Stack

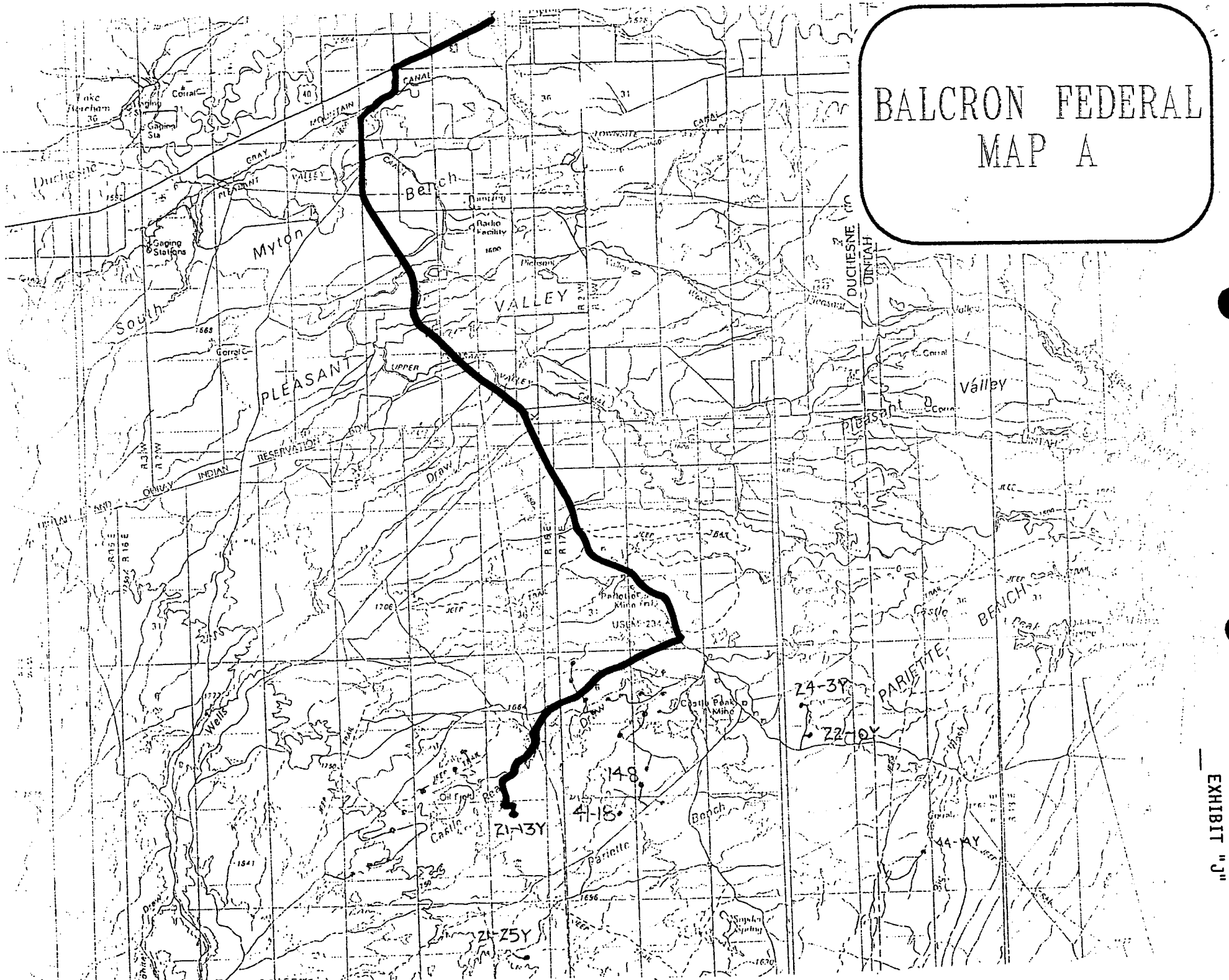
EXHIBIT "I"

UNION DRILLING RIG #17

(1) Cut Ditch from Well To Reserve Pit 16"W.X 2'D. Approx

(2) Start Near ... Edge Reserve Pit 50' from Well




BALCRON FEDERAL
MAP A
Myton
South
PLEASANT
VALLEY
Bench
Pleasant
Valley
DUCHESNE
UINTAH
Duchesne
PARIETTE
BENCH
Wells
Draw
Parietle
Bench
24-3Y
22-10Y
14-8
41-18
21-13Y
21-25Y
44-4Y
EXHIBIT "J"

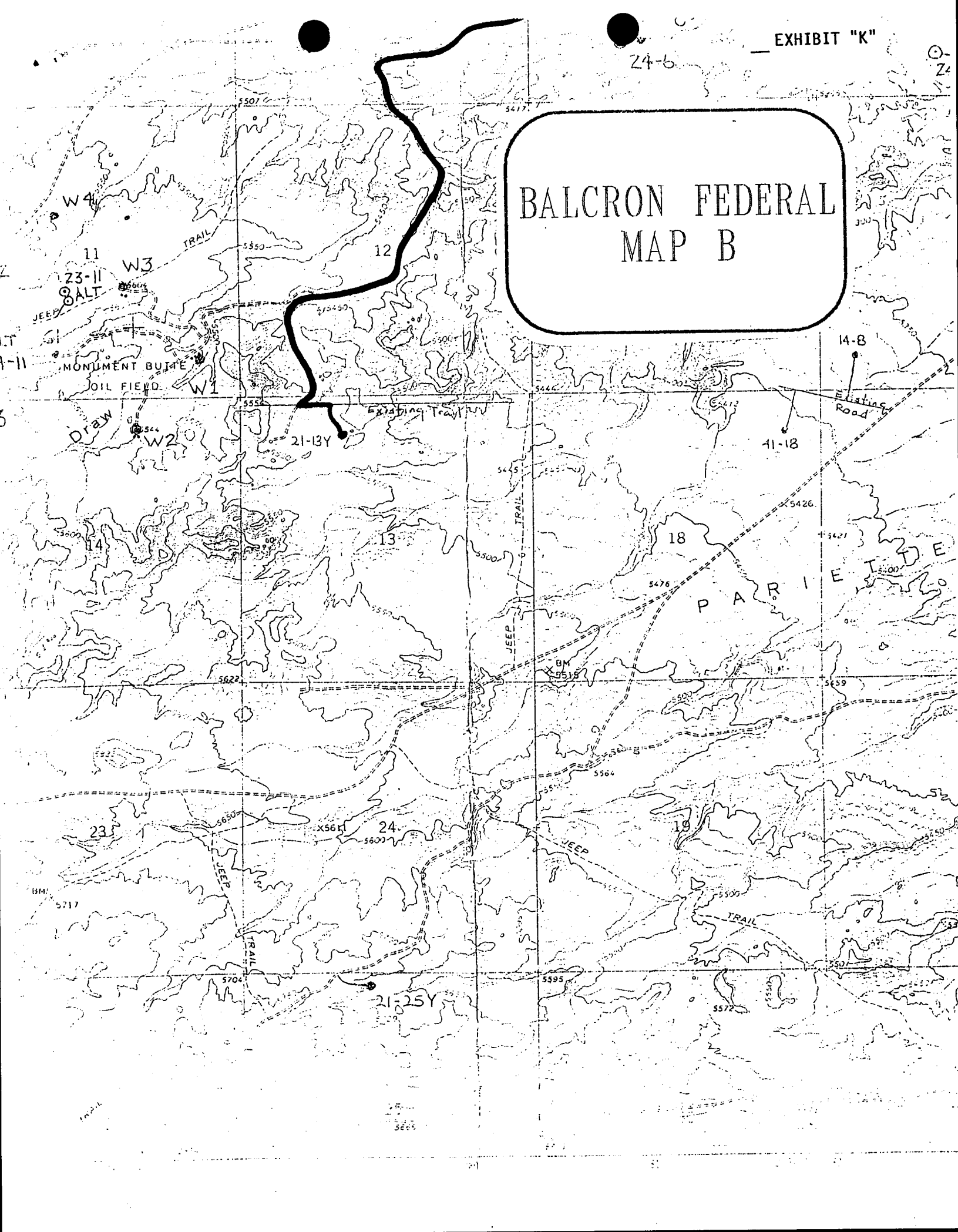
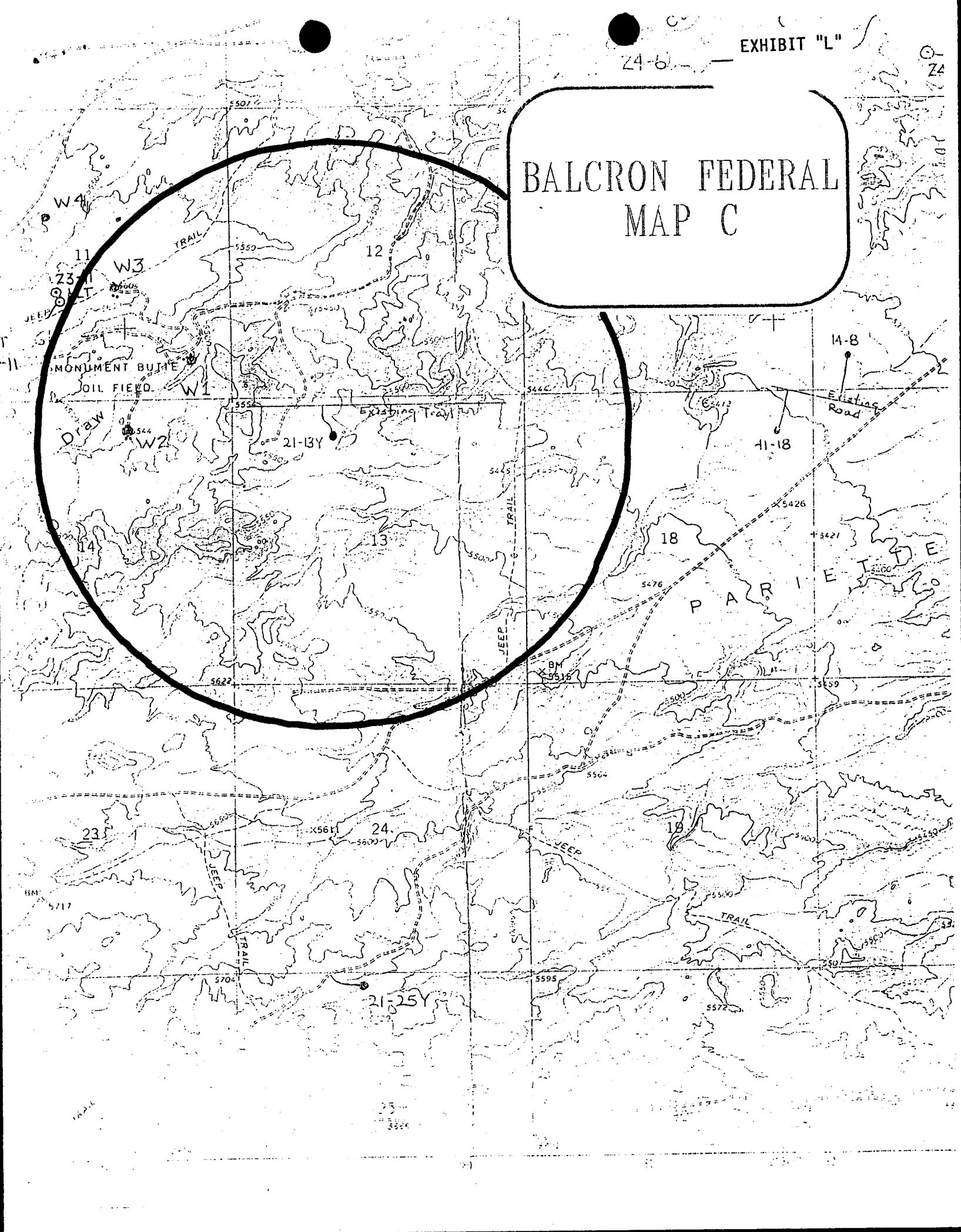


EXHIBIT "K"
24-6
BALCRON FEDERAL
MAP B
W4
11
W3
TRAIL
12
23-11
ALT
JEEP
MONUMENT BUTTE
OIL FIELD
W1
Draw
W2
21-13Y
Existing Travel
14-8
Existing Road
41-18
14
13
18
JEEP TRAIL
PARIETTE
BM
5518
23
24
19
JEEP
TRAIL
21-25Y

EXHIBIT "L"

24-6

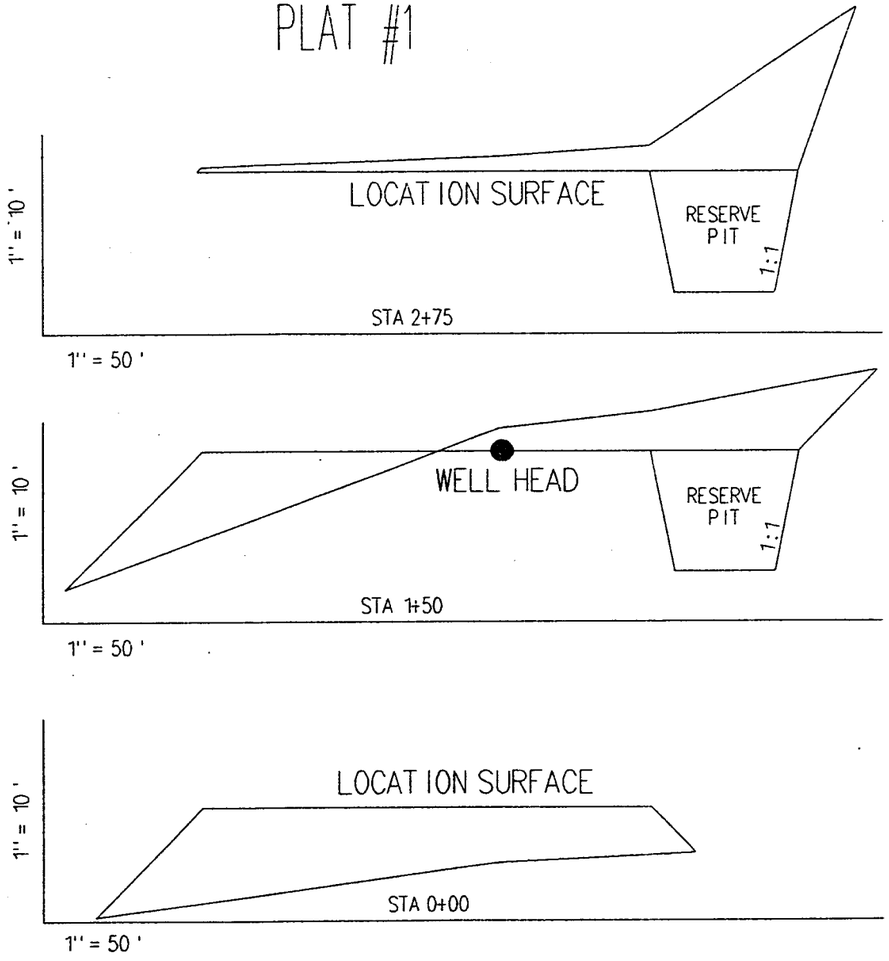
BALCRON FEDERAL
MAP C

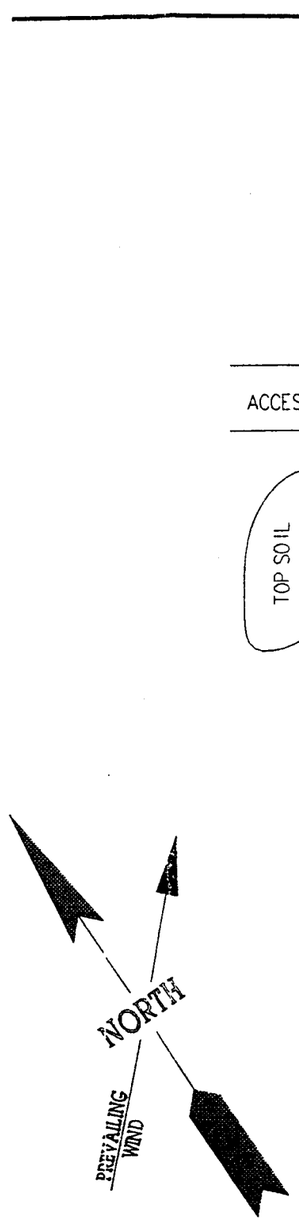


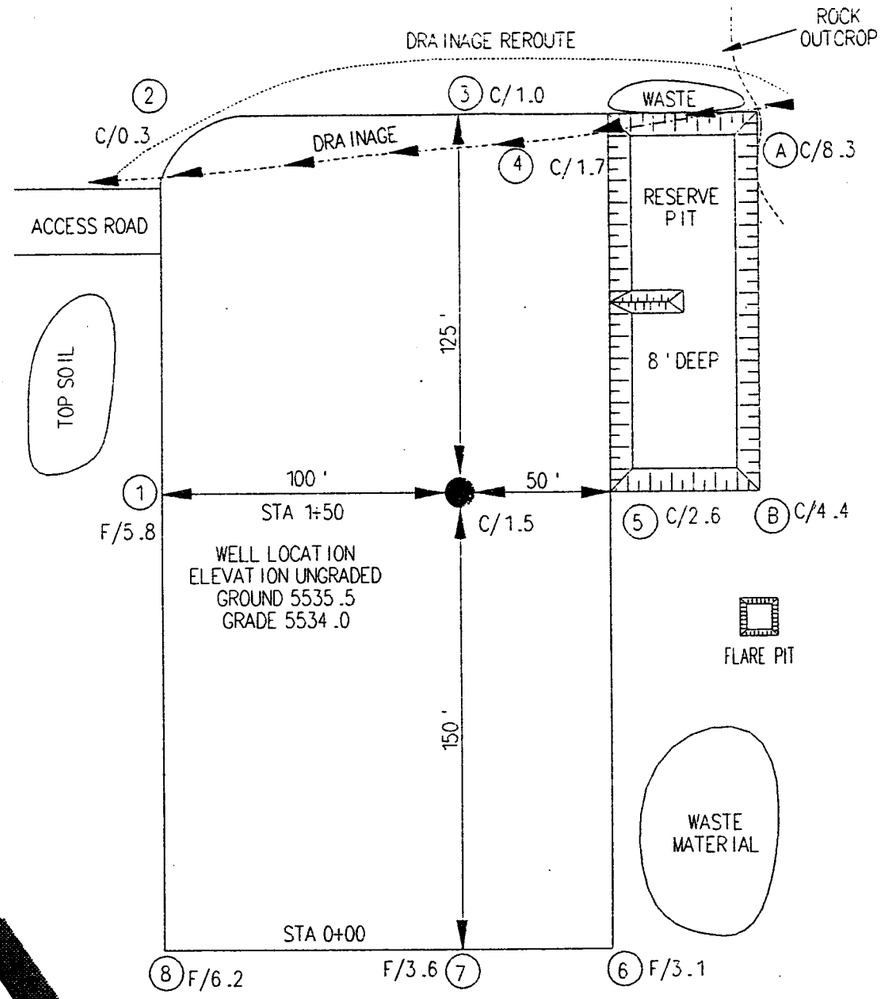
BALCRON FEDERAL

WELL LOCATION # 21-13Y

PLAT #1







REFERENCE POINTS

150' NW - 5526.8
200' NW - 5523.2
175' NE - 5539.5
230' NE - 5550.8

APPROXIMATE YARDAGE

CUT = 1,550 Cu Yds
FILL = 1,510 Cu Yds
PIT = 1,456 Cu Yds
TOP SOIL = 880 Cu Yds

TRI-STATE
LAND SURVEYING, INC.
38 WEST 100 NORTH, VERNAL, UTAH 84078
801-781-2501

FORM 3

CONFIDENTIAL

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. Lease Designation and Serial No.: Federal # U-64805

6. If Indian, Allottee or Tribe Name: n/a

7. Unit Agreement Name: n/a

8. Farm or Lease Name: Balcron Federal

9. Well No.: #21-13Y

10. Field and Pool, or Wildcat: Monument Butte/Green River

11. QQ, Sec., T., R., M., or Blk. and Survey or Area: NE NW Sec. 13,T9S,R16E

12. County or Parrish: Duchesne

13. State: UTAH

1a. Type of Work: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. Type of Well: Oil Well [X] Gas Well [ ] Other — Single Zone [ ] Multiple Zone [ ]

2. Name of Operator: Equitable Resources Energy Company, Balcron Oil Division

3. Address of Operator: P.O. Box 21017; Billings, MT 59104

4. Location of Well (Report location clearly and in accordance with any State requirements.*)
At surface: NE NW Section 13, T9S, R16E 702.7' FNL, 1830.5' FWL
At proposed prod. zone

14. Distance in miles and direction from nearest town or post office*: Approximately 13 miles from Myton, Utah (SW)

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any)

16. No. of acres in lease

17. No. of acres assigned to this well

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.

19. Proposed depth: 5,900'

20. Rotary or cable tools: Rotary

21. Elevations (Show whether DF, RT, GR, etc.): GL 5535.5'

22. Approx. date work will start*: June 1, 1993

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
See attached				

Operator plans to drill well in accordance with attached Federal Application for Permit to Drill.

RECEIVED
MAY 20 1993
DIVISION OF OIL, GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. I hereby certify that this report is true and complete to the best of my knowledge.

Signed: Bobbie Schuman Bobbie Schuman — Title: Coordinator of Environmental and Regulatory Affairs — Date: May 17, 1993

(This space for Federal or State office use)

API NO. ..... Approval Date .....

Approved by ..... Title ..... Date .....
Conditions of approval, if any:

*See Instructions On Reverse Side

(3/89)

EQUITABLE RESOURCES
ENERGY COMPANY
BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104

Office: (406) 259-7860
FAX: (406) 245-1365
FAX: (406) 245-1361

May 18, 1993

State of Utah
Division of Oil, Gas & Mining
355 West North Temple
Salt Lake City, UT 84180

Gentlemen:

Enclosed are Applications for Permit to Drill the wells on the enclosed list.

As operator, we hereby request that the status of these wells be held tight for the maximum period allowed by State regulations.

Sincerely,

Bobbie Schuman

Bobbie Schuman
Coordinator of Operations,
Environmental and Regulatory Affairs

/rs

Enclosures

EQUITABLE RESOURCES ENERGY COMPANY,
BALCRON OIL DIVISION

MONUMENT BUTTE DRILLING PROGRAM

Balcron Federal #21-25Y
NE NW Section 25, T9S, R16E
Duchesne County, Utah
198.4' FNL, 2302.2' FWL
FLS #U-64380
PTD 5,650'
GL 5684.9'

Balcron Federal #41-21Y
NE NE Section 21, T9S, R16E
Duchesne County, Utah
970.2' FNL, 893.8' FEL
FLS #U-64379
PTD 6,000'
GL 5953.5'

Balcron Federal #24-3Y
SE SW Section 3, T9S, R17E
Duchesne County, Utah
561.8' FSL, 1887.2' FWL
FLS #U-64381
PTD 5,950'
GL 5099.1'

Balcron Federal #21-9Y
NE NW Section 9, T9S, R16E
Duchesne County, Utah
476.2' FNL, 2051' FWL
FLS #U-65207
PTD 6,190'
GL 5747.3'

Balcron Federal #21-13Y
NE NW Section 13, T9S, R16E
Duchesne County, Utah
702.7' FNL, 1830.5' FWL
FLS #U-64805
PTD 5,900'
GL 5535.5'

Balcron Federal #22-10Y
SE NW Section 10, T9S, R17E
Duschene County, Utah
1980' FNL, 1980' FWL
FLS #U-65210
PTD 5,850'
GL 5121.9'

EQUITABLE RESOURCES ENERGY COMPANY,
BALCRON OIL DIVISION

MONUMENT BUTTE DRILLING PROGRAM

Balcron Federal #44-14Y
SE SE Section 14, T9S, R17E
Duchesne County, Utah
1008.2' FSL, 832.3' FEL
FLS #U-64806
PTD 5,700'
GL 5164.3'

Balcron Monument Federal #14-8
SW SW Section 8, T9S, R17E
Duchesne County, Utah
660' FSL, 660' FWL
FLS #U-007978
PTD 5,950'
GL 5370.6'

Balcron Monument Federal #41-18
NE NE Section 18, T9S, R17E
Uintah County, Utah
660' FNL, 660' FEL
FLS #U-3563-A
PTD 5,900'
GL 5406.3'

5/17/93
/rs

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

DATE RECEIVED: 05/20/93

OPERATOR: EQUITABLE RESOURCES OPERATOR ACCT NO: N-9890
WELL NAME: BALCRON FEDERAL 21-13Y

API NO. ASSIGNED: 43-013-31400

LEASE TYPE: FED LEASE NO: U-64805
LOCATION: NENW 13 - T09S - R16E DUCHESNE COUNTY
FIELD: MONUMENT BUTTE (105) FIELD CODE: 105

RECEIVED AND/OR REVIEWED:

- ✓ Plat
- ✓ Bond (Number federal)
- ✓ Potash (Y/N)
- ✓ Oil shale (Y/N)
- ✓ Water permit (Number 43-9974 a-14284)
- ✓ RDCC Review (Y/N) (Date:)

LOCATION AND SITING:

- ___ R649-2-3. Unit: ___
- ✓ R649-3-2. General.
- ___ R649-3-3. Exception.
- ___ Drilling Unit. Board Cause no: ___ Date: ___

COMMENTS: No addl producing wells within Sec 13.

CONFIDENTIAL PERIOD EXPIRED ON 10-16-94

STIPULATIONS:

cc: Duchesne County Assessor

EQUITABLE RESOURCES Co | 43-013-31400

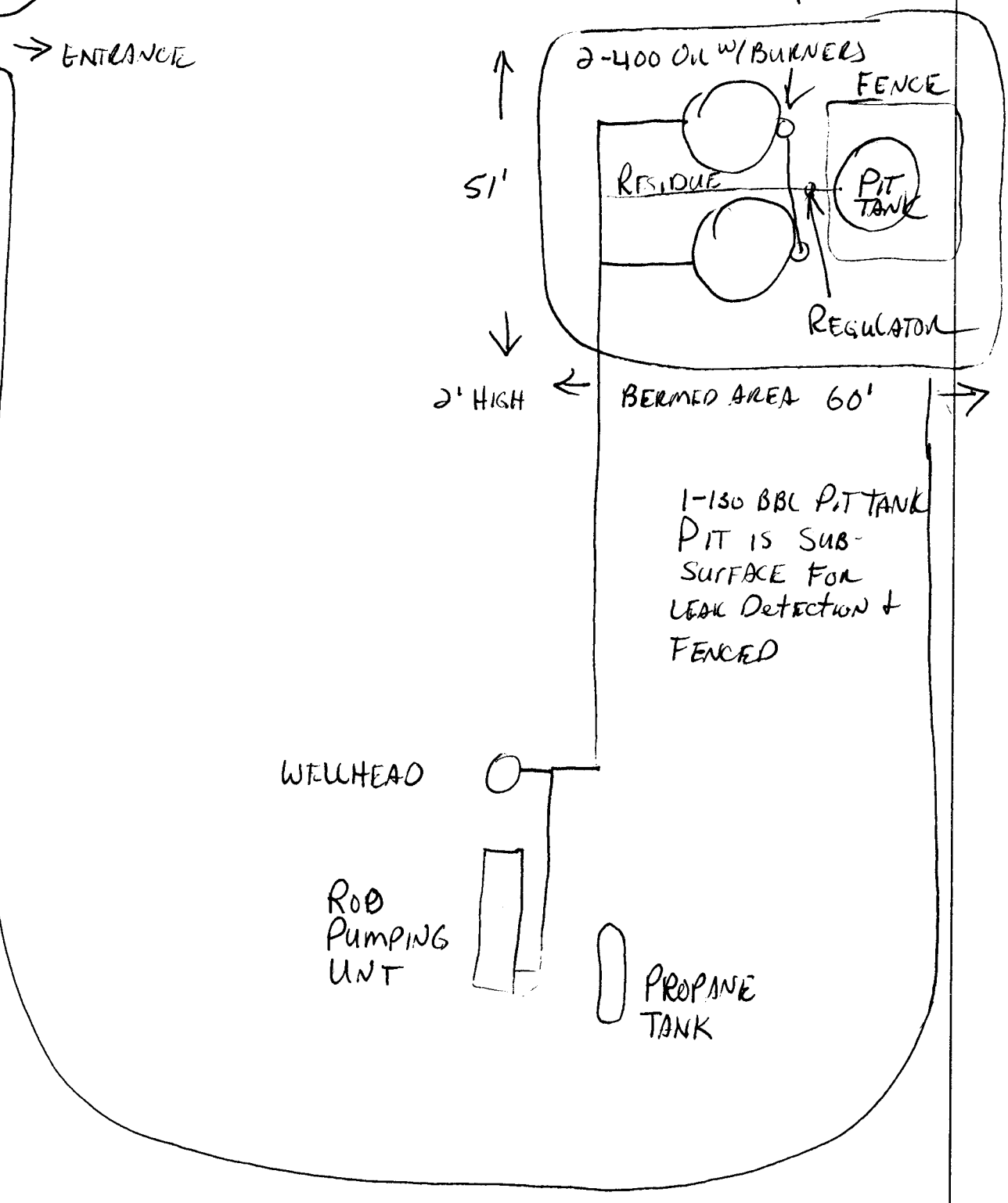
BALCRON FED # 21-13Y

NE/NW SEC 13 T9S R16E

1/20/94 DPL

14-12

24-12



EQUITABLE RESOURCES
ENERGY COMPANY

BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104

Office: (406) 259-7860
FAX: (406) 245-1365
FAX: (406) 245-1361

June 2, 1993

-- VIA FEDERAL EXPRESS --

Bureau of Land Management
170 South 500 East
Vernal, UT 84078

Gentlemen:

As requested, enclosed is a copy of the State Water Use Authorization (Water User Claim No. 43-9974) which is the water source we propose to use for drilling the wells on the enclosed list. Also enclosed as requested is an explanation of the composition of the thrifty lite cement including water, all additives, and stating its yield.

Am I correct in assuming that the 30-day posting period began as of the date the Notice of Staking was received by your office (May 3 according to the date agreed upon at the onsite inspections held May 5-6) as required and stated by 43 CFR 3162.3-1(g) rather than the May 20 date the APD was received by your office? If my interpretation of 43 CFR 3162.3-1(g) is incorrect, I would appreciate a call to discuss this.

If you need further information or have any questions, please call.
Sincerely,

Bobbie Schuman

Bobbie Schuman
Coordinator of Operations,
Environmental and Regulatory Affairs

/rs

Enclosures

cc: Utah Division of Oil, Gas and Mining

MONUMENT BUTTE DRILLING PROGRAM

==========

Balcron Federal #21-25Y
NE NW Section 25, T9S, R16E
Duchesne County, Utah
198.4' FNL, 2302.2' FWL
FLS #U-64380
PTD 5,650'
GL 5684.9'

Balcron Federal #41-21Y
NE NE Section 21, T9S, R16E
Duchesne County, Utah
970.2' FNL, 893.8' FEL
FLS #U-64379
PTD 6,000'
GL 5953.5'

Balcron Federal #24-3Y
SE SW Section 3, T9S, R17E
Duchesne County, Utah
561.8' FSL, 1887.2' FWL
FLS #U-64381
PTD 5,950'
GL 5099.1'

Balcron Federal #21-9Y
NE NW Section 9, T9S, R16E
Duchesne County, Utah
476.2' FNL, 2051' FWL
FLS #U-65207
PTD 6,190'
GL 5747.3'

Balcron Federal #21-13Y
NE NW Section 13, T9S, R16E
Duchesne County, Utah
702.7' FNL, 1830.5' FWL
FLS #U-64805
PTD 5,900'
GL 5535.5'

Balcron Federal #22-10Y
SE NW Section 10, T9S, R17E
Duschene County, Utah
1980' FNL, 1980' FWL
FLS #U-65210
PTD 5,850'
GL 5121.9'

MONUMENT BUTTE DRILLING PROGRAM

==========

Balcron Federal #44-14Y
SE SE Section 14, T9S, R17E
Duchesne County, Utah
1008.2' FSL, 832.3' FEL
FLS #U-64806
PTD 5,700'
GL 5164.3'

Balcron Monument Federal #14-8
SW SW Section 8, T9S, R17E
Duchesne County, Utah
660' FSL, 660' FWL
FLS #U-007978
PTD 5,950'
GL 5370.6'

Balcron Monument Federal #41-18
NE NE Section 18, T9S, R17E
Uintah County, Utah
660' FNL, 660' FEL
FLS #U-3563-A
PTD 5,900'
GL 5406.3'

6/2/93
/rs

APPLICATION FOR PERMANENT CHANGE OF WATER

RECEIVED APR 17 1987 WATER RIGHTS SALT LAKE

Rec. by DL Fee Paid $ 15.00 Receipt # 27150 Microfilmed ____ Roll # ____

STATE OF UTAH

For the purpose of obtaining permission to make a permanent change of water in the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

*WATER USER CLAIM NO. 43 - 9974 *APPLICATION NO. a-14289

Changes are proposed in (check those applicable)

____ point of diversion. ____ point of return.

✓ place of use. ✓ nature of use.

1. OWNER INFORMATION

Name: Owen Dale Anderson *Interest: ____%

Address: PO Box 1168 Vernal UT 84078

2. *PRIORITY OF CHANGE: ____ *FILING DATE: ____

*Is this change amendatory? (Yes/No): ____

3. RIGHT EVIDENCED BY: 43 - 3525

Prior Approved Change Applications for this right: 83-43-21 84-43-73 & 14099

********** HERETOFORE **********

4. QUANTITY OF WATER: 0.5 cfs and/or ____ ac-ft.

5. SOURCE: U.G.W. (well)

6. COUNTY: Duchesne

7. POINT(S) OF DIVERSION: South 1167 ft East 340 ft from N ¼ Corner Section 27 T1S, R3W, USB+M

Description of Diverting Works: ____

8. POINT(S) OF REDIVERSION

The water will be rediverted from ____ at a point: ____

Description of Diverting Works: ____

9. POINT(S) OF RETURN

The amount of water consumed is ____ cfs or ____ ac-ft.

The amount of water returned is ____ cfs or ____ ac-ft.

The water will be returned to the natural stream/source at a point(s): ____

*These items are to be completed by Division of Water Rights.

10. NATURE AND PERIOD OF USE

Stockwatering:	From Jan 1	to Dec 31
Domestic:	From	to
Municipal:	From	to
Mining:	From	to
Power:	From	to
Other:	From Jan 1	to Dec 31
Irrigation:	From April 1	to Oct 31

11. PURPOSE AND EXTENT OF USE

Stockwatering (number and kind): 250 Livestock Units

Domestic: ____ Families and/or ____ Persons.

Municipal (name): ____

Mining: ____ Mining District in the ____ Mine.

Ores mined: ____

Power: Plant name: ____ Type: ____ Capacity: ____

Other (describe): drilling & completion of oil field locations Fish Culture

Irrigation: 55.7 acres. Sole supply of ____ acres

12. PLACE OF USE

Legal description of areas of use ~~other than irrigation~~ by 40 acre tract: D/a

13. STORAGE

Reservoir Name: Unnamed Storage Period: from 11-1 to 3-31

Capacity: 4.0 ac-ft. Inundated Area: ____ acres

Height of dam: ____ feet

Legal description of inundated area by 40 tract: NW NE Sec. 27, T1S R2W 2.5 ± A

********** THE FOLLOWING CHANGES ARE PROPOSED **********

14. QUANTITY OF WATER: ____ cfs and/or 20.0 ac-ft

15. SOURCE: UGW Remaining Water: same

16. COUNTY: Duchesne

17. POINT(S) OF DIVERSION: same

Description of Diverting Works: ____

18. POINT(S) OF REDIVERSION

The water will be rediverted from ____ at a point: ____

Description of Diverting Works: ____

19. POINT(S) OF RETURN

The amount of water consumed is _____ cfs or _____ ac-ft

The amount of water returned is _____ cfs or _____ ac-ft

The water will be returned to the natural stream/source at a point(s): _____

20. NATURE AND PERIOD OF USE

Stockwatering: From _____ to _____

Domestic: From _____ to _____

Municipal: From _____ to _____

Mining: From _____ to _____

Power: From _____ to _____

Other: From Jan 1 to Dec 31

Irrigation: From _____ to _____.

21. PURPOSE AND EXTENT OF USE

Stockwatering (number and kind): _____

Domestic: _____ Families and/or _____ Persons

Municipal (name): _____

Mining: _____ Mining District in the _____ Mine

Ores mined: _____

Power: Plant name: _____ Type: _____ Capacity: _____

Other (describe): drilling and completion of oil wells

Irrigation: _____ _____ acres. Sole supply of _____

22. PLACE OF USE

Legal description of areas of use by 40 acre tract: _____

Other: hauled to locations by water trucks as needed

23. STORAGE

Reservoir Name: _____ Storage Period: from _____ to _____

Capacity: _____ ac-ft. Inundated Area: _____ acres

Height of dam: _____ feet

Legal description of inundated area by 40 tract: _____

24. EXPLANATORY

The following is set forth to define more clearly the full purpose of this application. Include any supplemental water rights used for the same purpose. (Use additional pages of same size if necessary): _____

Change is for oilfield drilling and exploration. Approximately 4 acre ft/year will be taken from irrigation purposes and used for oilfield purposes. Acres to be irrigated will change from ~~55.7~~ 52.7 to ~~50~~ 47.7 acres

****

he undersigned hereby acknowledges that even though he/she/they may have been assisted in the preparation f the above-numbered application through the courtesy of the employees of the Division of Water Rights, all esponsibility for the accuracy of the information contained herein, at the time of filing, rests with the pplicant(s).

Signature of Applicant(s)

DV040145

PRODUCT DESCRIPTIONS

CELLO-SEAL

Graded (3/8 to 3/4 inch) cellophane flakes used as a lost circulation material.

CSE

Compressive Strength Enhancer - Fumed Silica. An additive which contributes to low density, high compressive strength development of cement slurries at all temperature ranges. This material also controls free water without the need for standard extenders.

CLASS G CEMENT (API) [Premium Cement]

Intended for use as a basic cement from surface to 8000 Ft. as manufactured, or can be used with accelerators and retarders to cover a wide range of well depths and temperatures.

SODIUM CHLORIDE (NaCl)

Commonly called salt, is used to reduce damage caused by cement filtrate and to promote better bonding. At low concentration, less than 10% by weight of mixing water, it acts as an accelerator, while at concentrations greater than 15-18%, it will retard thickening time and strength development.

THRIFTY LITE

Anhydrous sodium metasilicate compound used as an extender for cement slurries. Thrifty Lite yields a very economical filler slurry on a cost per cu. ft. of slurry basis and is a mild accelerator that will cause the slurry to set at low temperatures.

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

June 21, 1993

Equitable Resources Energy Company
P.O. Box 21017
Billings, Montana 59104

Gentlemen:

Re: Balcron Federal #21-13Y Well, 703' FNL, 1830.5' FWL, NE NW, Sec. 13, T. 9 S, R. 16 E, Duchesne County, Utah

Pursuant to Utah Admin. R. 649-3-2, Location and Siting of Wells and Utah Admin. R. 649-3-4, Permitting of Wells to be Drilled, Deepened or Plugged-Back, approval to drill the referenced well is hereby granted.

In addition, the following specific actions are necessary to fully comply with this approval:

1. Compliance with the requirements of Utah Admin. R. 649-1 et seq., Oil and Gas Conservation General Rules.

2. Notification within 24 hours after drilling operations commence.

3. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.

4. Submittal of the Report of Water Encountered During Drilling, Form 7.

5. Prompt notification prior to commencing operations, if necessary, to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or R.J. Firth, Associate Director, (Home) (801)571-6068.

6. Compliance with the requirements of Utah Admin. R. 649-3-20, Gas Flaring or Venting, if the well is completed for production.

Trash and sanitary waste should be properly contained and transported to approved disposal locations, not retained in or disposed of in pits on location or downhole. Prior to the commencement of drilling operations, the operator should consult the local/county sanitarian and/or the Department of Environmental Quality, Division of Drinking Water/Sanitation, regarding appropriate disposal of sanitary waste.

This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-013-31400.

Sincerely,

R.J. Firth
Associate Director, Oil and Gas

ldc
Enclosures
cc: Bureau of Land Management
Duchesne County Assessor
J.L. Thompson
WOI1

Form 3160-3
(November 1983)
(formerly 9-331C)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: U-64805

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: n/a

7. UNIT AGREEMENT NAME: n/a

8. FARM OR LEASE NAME: Balcron Federal

9. WELL NO.: #21-13Y

10. FIELD AND POOL, OR WILDCAT: Monument Butte/Green Rive

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 13, T9S, R16E

12. COUNTY OR PARISH: Duchesne | 13. STATE: UTAH

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER — SINGLE ZONE [ ] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: EQUITABLE RESOURCES ENERGY COMPANY

CONFIDENTIAL

3. ADDRESS OF OPERATOR: P.O. Box 21017; Billings, MT 59104 (Balcron Oil Division)

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: NE NW Section 13, T9S, R16E 702.7' FNL, 1830.5' FWL
At proposed prod. zone

43-013-31400

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: Approximately 13 miles SW of Myton, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	19. PROPOSED DEPTH: 5,900'	20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): GL 5535.5'

22. APPROX. DATE WORK WILL START*: June 1, 1993

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
See attached for details.				

RECEIVED
JUL 12 1993

EXHIBITS ATTACHED

"A" PROPOSED DRILLING PROGRAM
"B" PROPOSED SURFACE USE PROGRAM
"C" GEOLOGIC PROGNOSIS
"D" DRILLING PROGRAM/CASING DESIGN
"E" EVIDENCE OF BOND COVERAGE
"F" ARCHEOLOGY REPORT
"G" SURVEY PLAT
"H" BOPE SCHEMATIC
"I" RIG LAYOUT
"J" EXISTING ROADS (Map A)
"K" PLANNED ACCESS (Map B)
"L" EXISTING WELLS (Map C)
"M" CUT & FILL DIAGRAM

RECEIVED
MAY 20 1993

SELF CERTIFICATION: I hereby certify that I am authorized, by proper lease interest owner, to conduct these operations associated with the application. Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Equitable Resources Energy Company as principal and Safeco Insurance Company of America as surety under BLM Bond No. MT 0576 (Nationwide Oil & Gas Bond #5547188) who will be responsible for compliance with all of the terms and conditions of that portion of the lease associated with this application.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED Bobbie Schuman — TITLE Coordinator of Environmental and Regulatory Affairs — DATE May 17, 1993

Bobbie Schuman

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY Edwin L. Forman acting — TITLE ASSISTANT DISTRICT MANAGER MINERALS — DATE JUL [illegible] 1993

CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

UT080-3M-048

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the

CONDITIONS OF APPROVAL
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Equitable Resources Energy Company

API Number: 43-013-31400

Well Name & Number: Balcron Federal 21-13Y

Lease Number: U-64805

Location: NENW Sec. 13 T. 9S R. 16E

Surface Ownership: Federal Lands administered by BLM

Date NOS Received: May 3, 1993

Date APD Received: May 20, 1993

NOTIFICATION REQUIREMENTS

Location Construction	-	at least forty-eight (48) hours prior to construction of location and access roads.
Location Completion	-	prior to moving on the drilling rig.
Spud Notice	-	at least twenty-four (24) hours prior to spudding the well.
Casing String and Cementing	-	at least twenty-four (24) hours prior to running casing and cementing all casing strings.
BOP and Related Equipment Tests	-	at least twenty-four (24) hours prior to initiating pressure tests.
First Production Notice	-	within five (5) business days after new well begins, or production resumes after well has been off production for more than ninety (90) days.

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

DRILLING PROGRAM

1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

   Report ALL water shows and water-bearing sands to Tim Ingwell of this office. Copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

   All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

2. Pressure Control Equipment

   The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a 2M system and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

   Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

   The Vernal District Office shall be notified, at least 24 hours prior to initiating the pressure tests, in order to have a BLM representative on location during pressure testing.

3. Casing Program and Auxiliary Equipment

   Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint.

As a minimum, the usable water and oil shale resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the base of the usable water zone, identified at ± 1,540 ft. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

The Vernal District Office shall be notified at least 24 hours prior to the running and cementing of all casing strings, in order to have a BLM representative on location while running and cementing all casing strings.

4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the AO. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the AO.

A cement bond log (CBL) will be run from the production casing shoe to ± 1,340 ft. and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

The Vernal District Office shall be notified, during regular work hours (7:45 a.m.-4:30 p.m., Monday through Friday except holidays), at least 24 hours **prior** to spudding the well.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) days following the date on which the well is placed on production.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within thirty (30) days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling onlease or off-lease will have prior written approval from the AO.

Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried or anchored down from the wellhead to the meter and within 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to $10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approvals are necessary, please contact one of the following individuals:

Gerald E. Kenczka (801) 781-1190
Petroleum Engineer

Ed Forsman (801) 789-7077
Petroleum Engineer

BLM FAX Machine (801) 781-4410

EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

Unused fracturing fluids or acids

Gas plant cooling tower cleaning wastes

Painting wastes

Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spend solvents, spilled chemicals, and waste acids

Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste

Refinery wastes

Liquid and solid wastes generated by crude oil and tank bottom reclaimers

Used equipment lubrication oils

Waste compressor oil, filters, and blowdown

Used hydraulic fluids

Waste solvents

Waste in transportation pipeline-related pits

Caustic or acid cleaners

Boiler cleaning wastes

Boiler refractory bricks

Incinerator ash

Laboratory wastes

Sanitary wastes

Pesticide wastes

Radioactive tracer wastes

Drums, insulation and miscellaneous solids.

SURFACE USE PLAN OF OPERATION
Conditions of Approval (COAs)

Methods for Handling Waste Disposal

If a plastic reinforced liner is used, it will be a minimum of 12 mil thickness with sufficient bedding (either straw or dirt) to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc., that could puncture the liner will be disposed of in the pit. More stringent protective requirements may be deemed necessary by the AO.

Additional Surface Conditions of Approval

Fall seeding is preferred and will be done after September 15 and before the ground freezes. Spring seeding will be done prior to April 15.

The requested emergency pit is hereby approved under NTL-2B, Section VI, subject to the following Conditions of Approval:

1. If emergency use occurs, the emergency pit shall be emptied and the liquids disposed of in accordance with applicable State and/or Federal regulations within 48 hours following its use, unless such time is extended by the authorized officer.

2. As much as practicable, the emergency pit shall be located on level ground, and away from drainage patterns and unstable ground.

3. The emergency pit shall be fenced and the fence maintained for safety, and to prevent livestock and wildlife entry. The pit shall be fenced according to the same minimum standards listed for drilling the reserve pit under Point 9E of the Multi-point Surface Use and Operation Plan. The fence shall be maintained in a taut condition. Fences shall not be built on berms.

4. Produced water drain lines shall not go to the emergency pit.

5. The pit shall be bermed or otherwise constructed and maintained to prevent entrance of surface water.

6. Turn downs shall be put on the ends of pipes to direct fluids downward instead of against the wall of the pit.

7. The pit shall be kept free of trash.

Balcron shall contact a Utah BLM certified Paleontologist to survey the location and access road prior to surface disturbance to determine the presence of paleontologist resources.

If historic, archaeological, or paleontological resources are uncovered during ground disturbing activities, Balcron will suspend all operations that would further disturb such materials and immediately contact the BLM Authorized Officer.

For the protection of Mountain Plover nesting and the rearing of their young, drilling activities will not be allowed between March 15 and July 15.

MINIMUM STANDARDS FOR DAMS IMPOUNDING UNDER 10 AC. FT.

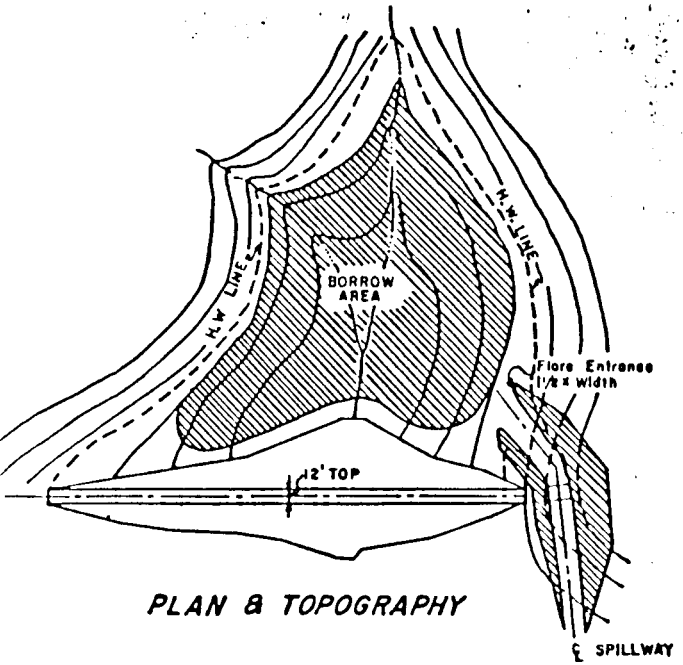
I. Site Location and Design
   A. Authorized BLM personnel must approve site location, fill material, foundation material, spillway size and location.
   B. Dam layout and location shall be with surveying instruments by qualified personnel.

II. Borrow Areas
   A. Borrow material shall be taken from within the reservoir basin below the high water line whenever possible.
   B. Vegetation, debris, and topsoil shall be removed to a depth of 12" below natural ground line and deposited as directed.
   C. Vegetation, debris, and topsoil shall be stockpiled to be used as cover for borrow areas above the high water line as directed.
   D. Vegetation, debris and topsoil moved below the dam shall be contoured, smoothed and blended into natural ground lines away from fill areas and outside the wash bottom.
   E. Borrow areas shall be smoothed, contoured and blended into natural ground lines.

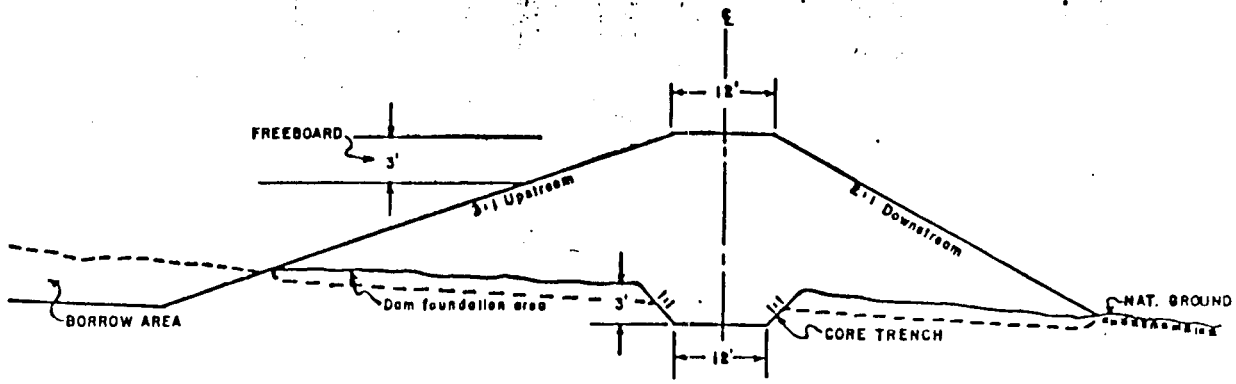
III. Core Trench and Dam Foundation
   A. A core trench shall be constructed 12' wide along the full length of the dam center line to a minimum depth of 3' or bedrock.
   B. Sides of the core trench shall not be steeper than 1:1 slopes.
   C. Soft or unstable material encountered in the core trench or dam foundation shall be removed and will not be used as fill.

IV. Dam and Core Fill
   A. Fill shall be homogeneous material, preferably of highly impervious, compactable soils (such as high clay content soils free of organic material, sand or rock).
   B. Lifts of fill shall not exceed 6" when compacted.
   C. Fill shall be built up at a consistant rate the full length of the dam.
   D. Lifts shall be compacted by at least one pass of the crawler tractor over the entire width of the lift.
   E. Fill shall be smoothed, maintaining specified slopes.

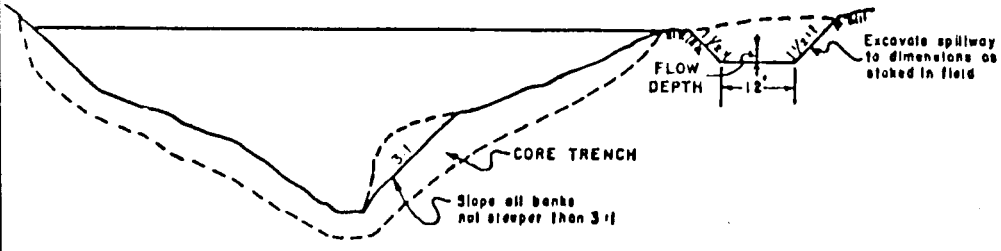
V. Spillway
   A. Spillway shall be constructed through natural material.
   B. Spillway shall be constructed to divert overflow away from fill areas or natural material that is an integral part of the dam.
   C. Incorporate in-place rock or hauled-in rock in spillway and at discharge point below spillway to prevent "down cutting" and "blowout" holes, when possible.



PLAN & TOPOGRAPHY



CROSS SECTION



PROFILE

MINIMUM STANDARDS FOR DAMS
IMPOUNDING UNDER 10 AC. FT.

1. BLM PERSONNEL MUST APPROVE SITE LOCATION, FILL MATERIAL, FOUNDATION MATERIAL, SPILLWAY SIZE AND LOCATION.
2. DAM LAYOUT & LOCATION MUST BE WITH SURVEYING INSTRUMENTS BY QUALIFIED SURVEYOR,
3. MAX. WATER DEPTH AGAINST THE DAM WILL BE 10' WHEN CONSTRUCTED WITH A CRAWLER TRACTOR.
4. SOIL WILL BE PLACED IN NOT MORE THAN 6" LIFTS AND EACH LIFT COMPACTED WITH A CRAWLER TRACTOR.
5. SPILLWAY MUST BE THROUGH NATURAL MATERIAL.
6. A COAR TRENCH WILL BE CONSTRUCTED 3' DEEP OR TO BED ROCK.
7. BORROW MATERIAL WILL BE TAKEN FROM WITHIN THE RESERVOIR BASIN BELOW THE HIGH WATER MARK WHENEVER POSSIBLE.

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RETENTION DAM
TYPICAL PLAN & SECTION

DESIGNED	RECOMM.
DRAWN	RECOMM. CHIEF, DIV. OF ENG
CHECKED	APPROVED
SCALE NOT TO SCALE	
DATE	SHEET 1 OF 1
DRAWING NO.	

ALWAYS THINK SAFETY OPO 830-178

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

CONFIDENTIAL

5. Lease Designation and Serial No.: U-64805

6. If Indian, Allottee or Tribe Name: n/a

7. If Unit or CA, Agreement Designation: n/a

1. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.: Balcron Federal #21-13Y

2. Name of Operator: Equitable Resources Energy Company, Balcron Oil Division

9. API Well No.: 43-013-31400

3. Address and Telephone No.: P.O. Box 21017; Billings, MT 59104 (406) 259-7860

10. Field and Pool, or Exploratory Area: Monument Butte/Grn.River

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NE NW Section 13, T9S, R16E
702.7' FNL, 1830.5' FWL

11. County or Parish, State: Duchesne County, UTAH

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[X] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other change in water source	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Operator has changed the source of water for drilling purposes from Owen Dale Anderson's well and Dalbo Trucking as shown in the APD. The source will be from an approved source in Section 15, T4S, R2W from a well permitted by Joe Shields under Permit #57708. A copy of that permit is attached to this sundry. The water will be trucked by Jim Nebeker Trucking out of Roosevelt, Utah.

14. I hereby certify that the foregoing is true and correct

Signed Bobbie Schuman Title Coordinator of Environmental and Regulatory Affairs Date August 3, 199

Bobbie Schuman

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

Form 97 2M 10-70

Application No. 57708

APPLICATION TO APPROPRIATE WATER
STATE OF UTAH

47 - 1674

NOTE:—The information given in the following blanks should be free from explanatory matter, but when necessary, a complete supplementary statement should be made on the following page under the heading "Explanatory."

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, for uses indicated by (X) in the proper box or boxes, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

1. Irrigation [X] Domestic [ ] Stockwatering [ ] Municipal [ ] Power [ ] Mining [ ] Other Uses [X]
2. The name of the applicant is Joe Shields
3. The Post Office address of the applicant is Myton, Utah 84052
4. The quantity of water to be appropriated .015 second-feet and/or ..... acre-feet
5. The water is to be used for Stockwatering & Other (Major Purpose) from ..... (Month) ..... (Day) to ..... (Month) ..... (Day)

   other use period Irrigation (Minor Purpose) from Apr. 1 (Month) (Day) to Oct. 31 (Month) (Day)

   and stored each year (if stored) from ..... (Month) ..... (Day) to ..... (Month) ..... (Day)
6. The drainage area to which the direct source of supply belongs is ..... (Leave Blank)
7. The direct source of supply is* Drain (Name of stream or other source)

   which is tributary to ....., tributary to .....

*Note.. Where water is to be diverted from a well, a tunnel, or drain, the source should be designated as "Underground Water" in the first space and the remaining spaces should be left blank. If the source is a stream, a spring, a spring area, or a drain, so indicate in the first space, giving its name, if named, and in the remaining spaces, designate the stream channels to which it is tributary, even though the water may sink, evaporate, or be diverted before reaching said channels. If water from a spring flows in a natural surface channel before being diverted, the direct source should be designated as a stream and not a spring.

8. The point of diversion from the source is in Duchesne County, situated at a point*
West 900 ft. South 1100ft. from E½ Cor. Sec. 15, T4S,R2W, USB&M
(3½ Miles SW of Myton)
Myton Quad.

*Note.—The point of diversion must be located definitely by course and distance or by giving the distances north or south, and east or west with reference to a United States land survey corner or United States mineral monument, if within a distance of six miles of either, or if at a greater distance, to some prominent and permanent natural object. No application will be received for filing in which the point of diversion is not defined definitely.

9. The diverting and carrying works will consist of a collection ditch to place of use

10. If water is to be stored, give capacity of reservoir in acre-feet ..... height of dam .....
    area inundated in acres ..... legal subdivision of area inundated .....

11. If application is for irrigation purposes, the legal subdivisions of the area irrigated are as follows:
NE¼SE¼ Sec. 15, T4S,R2W, USB&M
Total .25 Acres

12. Is the land owned by the applicant? Yes X No ..... If "No," explain on page 2.
13. Is this water to be used supplementally with other water rights? Yes ..... No X
    If "yes," identify other water rights on page 2.
14. If application is for power purposes, describe type of plant, size and rated capacity. .....
15. If application is for mining, the water will be used in ..... Mining District at the ..... mine, where the following ores are mined .....
16. If application is for stockwatering purposes, number and kind of stock watered 320 Cattle
in NE¼SE¼ Sec. 15, T4S,R2W, USB&M
17. If application is for domestic purposes, number of persons ....., or families .....
18. If application is for municipal purposes, name of municipality .....
19. If application is for other uses, include general description of proposed uses 011 Field use
20. Give place of use by legal subdivision of the United States Land Survey for all uses described in paragraphs 14 to 19, incl. Myton Oil Field in Pleasant Valley
21. The use of water as set forth in this application will consume .015 second-feet and/or acre-feet of water and None second feet and/ or acre feet will be returned to the natural stream or source at a point described as follows: .....

EXPLANATORY

The following additional facts are set forth in order to define more clearly the full purpose of the proposed application:

(Use page 4 if additional explanatory is needed.)

The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purpose herein described.

Signature of Applicant*

*If applicant is a corporation or other organization, signature must be the name of such corporation or organization by its proper officer, or in the name of the partnership by one of the partners, and the names of the other partners shall be listed. If a corporation or partnership, the affidavit below need not be filled in. If there is more than one applicant, a power of attorney, authorizing one to act for all, should accompany the Application.

DECLARATION OF CITIZENSHIP

STATE OF UTAH, Uintah County of } ss

On the 10th day of May 19 82, personally appeared before me, a notary public for the State of Utah, the above applicant, who, on oath, declared that he is a citizen of the United States, or has declared his intention to become such a citizen.

My commission expires:

(SEAL) THEODORE BALDWIN NOTARY PUBLIC State of Utah

Notary Public

EQUITABLE RESOURCES
ENERGY COMPANY
BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104

Office: (406) 259-7860
FAX: (406) 245-1365 ☐
FAX: (406) 245-1361 ☒

August 3, 1993

-- VIA FEDERAL EXPRESS --

Bureau of Land Management
170 South 500 East
Vernal, UT 84078

Gentlemen:

Enclosed are paleontology Reports for the following wells:

Balcron Federal #21-13Y 43-013-31400
NE NW Section 13, T9S, R16E
Duchesne County, Utah

Balcron Monument Federal #22-5
SE NW Section 5, T9S, R17E
Duchesne County, Utah

If you have any questions, please feel free to give me a call.

Sincerely,

Bobbie Schuman

Bobbie Schuman
Coordinator of Operations,
Environmental and Regulatory Affairs

/rs

Enclosures

cc: Utah Division of Oil, Gas and Mining

BALCRON OIL

Balcron Monument Butte Federal #21-13Y

NE NW Section 13, T9S, R16E, SLB&M

Duchesne County, Utah

PALEONTOLOGY REPORT

WELLPAD LOCATION AND ACCESS ROAD

BY

ALDEN H. HAMBLIN
PALEONTOLOGIST
235 EAST MAIN
VERNAL, UTAH 84078

JULY 23, 1993

RESULTS OF PALEONTOLOGY SURVEY AT BALCRON MONUMENT BUTTE FEDERAL #21-13Y

Description of Geology and Topography-

This location is about 1/2 mile south of Castle Peak Draw, 12 miles south of Myton, Utah. It is at the southeast and upper end of a small broad bottomed (1/4 mile) valley which drains north to Castle Peak Draw. Hills immediately to the northeast and east rise about 50 feet above the location. On the west the hills rise 60 to 80 feet above the valley floor. The access road follows the drainage in from the north along existing roads until the last 1/8th mile or so.

All rock outcrops in the area are of the Upper Eocene Uinta Formation, known for its fossil vertebrate fauna of mammals, turtles, crocodilians, and occasional fish remains.

Rocks in the immediate area of the proposed access road and wellpad are composed of interbedded mudstone, and sandstone. These rocks represent fluvial (stream) deposits with sandstone lenses representing stream channels in the Uinta Formation.

Paleontological material found -

On the wellpad there is a group of turtle shell fragments weathering out of a gray silt 30 yards south 28 degrees west of the center stake. These have weathered out in small pieces and the condition is poor, but probably represent one turtle or part of a turtle. No other fossil material was seen weathering out of this same layer. There is also one isolated piece of turtle shell 22 yards north 11 degrees east of the center stake.

Another fossil turtle was found west of the access road in the SW corner of the NE1/4 of SW1/4 of SW1/4 ofsection 12. This fossil will not be effected by road construction.

Archeological material found -

A 1 1/2 X 3/4 inch tip of a projectile point was found 27 yards north 48 degrees east of the center stake. It is a mottled light and dark brown color. (This is just mentioned for information purposes. I am not an archeologist and do not make recommendations concerning such.)

Recommendations-

The one group of turtle shell fragments found are in poor condition and, while important as an indicator of the presence of fossil material, is probably not

a collectable specimen. Avoidance of this spot would be preferred, but it appears that this may not be a feasible possibility. It will be recorded as a fossil turtle locality. I am not recommending that it be collected or that the site be monitored. There is some possibility that other fossil material may be encountered during construction. It significant looking fossil bone material is discovered during construction, it should be evaluated by a paleontologist.

Alden H. Hamblin
Paleontologist

Date July 29, 1993

PALEONTOLOGY LOCALITY Data Sheet	Page 1 of 1 plus map State Local. No. 42 DC 116V Agency No. Temp. No BALCRON MONUMENT BUTTE FEDERAL #21-13Y Access Road

1. Type of locality															
Invertebrate		Plant		Vertebrate	X	Trace		Other_____							

2. Formation: UINTA	Horizon: "B"	Geologic Age: Late Eocene

3. Description of Geology and Topography: The road to Balcron Fed #21-13Y goes south up a small canyon. The fossil site is about 1/6th mile from Castle Peak Draw on the west side as the canyon widens out. Hills immediately to the west rise about 60 to 70 feet above the site. Drainage is to the east into the canyon drainage and then into Castle Peak Draw. The access road follows the drainage in from the north along existing an road.

All rock outcrops in the area are of the Upper Eocene Uinta Formation, known for its fossil vertebrate fauna of mammals, turtles, crocodilians, and occasional fish remains.

Rocks in the immediate area of the proposed access road are composed of interbedded mudstone, and sandstone. These rocks represent fluvial (stream) deposits with sandstone lenses representing stream channels in the Uinta Formation.

4. Location of Outcrop: 12 miles south of Myton, Utah.

5. Map Ref.	USGS Quad	Myton SE, Utah	Scale	7.5 Min	Edition	1964

NE1/4	of	SW1/4	of	SW1/4	of Sectn	12	T	9 S	R	16E	Meridn	SLB

6. State: UTAH	County: DUCHESNE COUNTY	BLM/FS District: VERNAL- DIAMOND MT.

7. Specimens Collected and Field Accession No. NONE

8. Repository:

9. Specimens Observed and Disposition: Pieces of while fossil turtle shell 1/2 inch thick, 3 to 4 inches in diameter. *Trionyx*.

10.Owner:															
Private		State		BLM	X	US FS		NPS		IND		MIL		OTHR	

11.Recommendations for Further Work or Mitigation: None. It will not be effected by road construction.

12.Type of Map Made by Recorder:

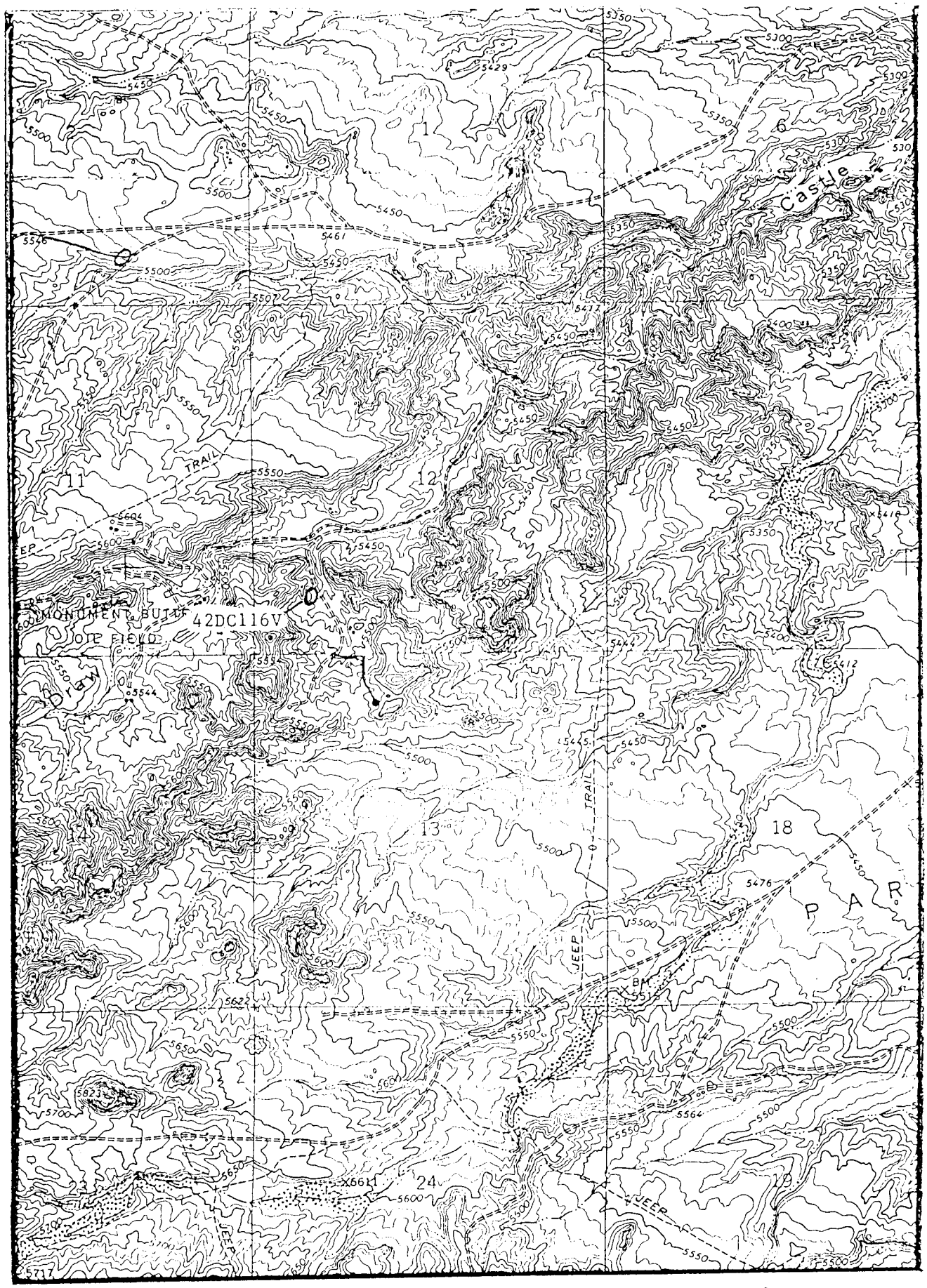
13.Disposition of Photo Negatives:

14.Published References: Hamblin, A. H., 1992, Paleontology Report on the Monument Butte EA Study Area, for Mariah Associates, Laramie, Wyoming.

15.Remarks:

16.Sensitivity:	Critical		Significant		Important	X	Insignificant	

17.Recorded by: Alden Hamblin, Paleontologist	Date: July 17, 1993



42DC116V Balcron Monument Butte Federal #21-13Y Aecess Road
Section 12 (SW,SW), T9S, R16E Myton SE, UTAH Quad.

PALEONTOLOGY LOCALITY

Data Sheet

Page 1 of 1 plus map

State Local. No. 42 DC 115V

Agency No.

Temp. No BALCRON MONUMENT BUTTE FEDERAL #21-13Y Wellpad

1. Type of locality									
Invertebrate		Plant		Vertebrate	X	Trace		Other_____	

2. Formation: UINTA	Horizon: "B"	Geologic Age: Late Eocene

3. Description of Geology and Topography: This location is at the southeast and upper end of a small broad bottomed (1/4 mile) valley which drains north to Castle Peak Draw. Hills immediately to the northeast and east rise about 50 feet above the location. On the west the hills rise 60 to 80 feet above the valley floor. The access road follows the drainage in from the north along existing roads until the last 1/8th mile or so.

All rock outcrops in the area are of the Upper Eocene Uinta Formation, known for its fossil vertebrate fauna of mammals, turtles, crocodilians, and occasional fish remains.

Rocks in the immediate area of the proposed access road and wellpad are composed of interbedded mudstone, and sandstone. These rocks represent fluvial (stream) deposits with sandstone lenses representing stream channels in the Uinta Formation.

4. Location of Outcrop: 12 miles south of Myton, Utah.

5. Map Ref.	USGS Quad	Myton SE, Utah	Scale	7.5 Min	Edition	1964

SW1/4	of	NE1/4	of	NW1/4	of Sectn	13	T	9 S	R	16E	Meridn	SLB

6. State: UTAH	County: DUCHESNE COUNTY	BLM/FS District: VERNAL- DIAMOND MT.

7. Specimens Collected and Field Accession No. NONE

8. Repository:

9. Specimens Observed and Disposition: On the wellpad there is a group of turtle shell fragments weathering out of a gray silt 30 yards south 28 degrees west of the center stake. These have weathered out in small pieces and the condition is poor, but probably represent one turtle or part of a turtle. No other fossil material was seen weathering out of this same layer. There is also one isolated piece of turtle shell 22 yards north 11 degrees east of the center stake.

10.Owner:														
Private		State		BLM	X	US FS		NPS		IND		MIL		OTHR

11.Recommendations for Further Work or Mitigation: The one group of turtle shell fragments found are in poor condition and, while important as an indicator of the presences of fossil material, is probably not a collectable specimen. Avoidance of this spot would be preferred, but it appears that this may not be a feasible possibility. It will be recorded as a fossil turtle locality. I am not recommending that it be collected or that the site be monitored. There is some possibility that other fossil material may be encountered during construction. It significant looking fossil bone material is discovered during construction, it should be evaluated by a paleontologist.

12.Type of Map Made by Recorder:

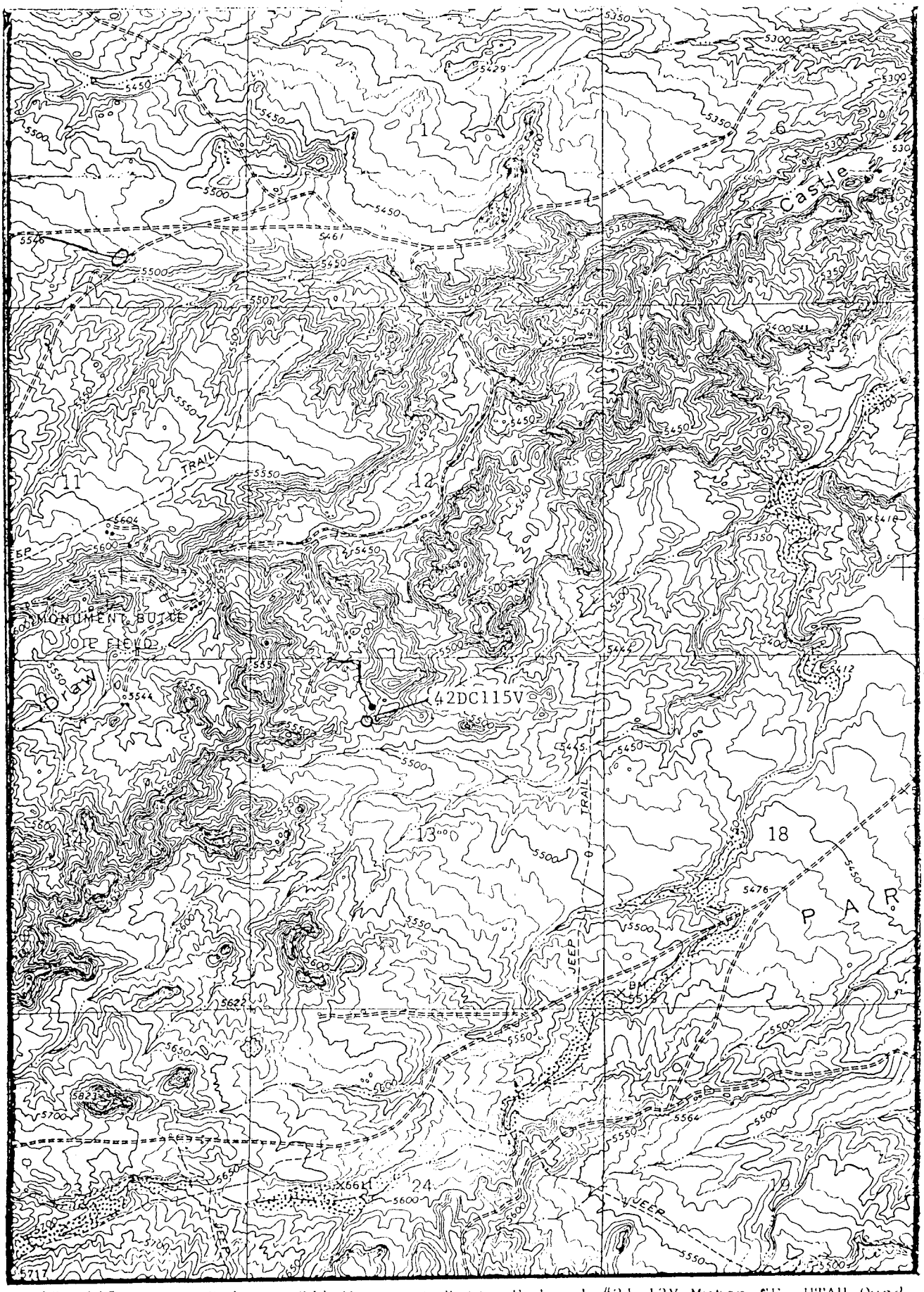
13.Disposition of Photo Negatives:

14.Published References: Hamblin, A. H., 1992, Paleontology Report on the Monument Butte EA Study Area, for Mariah Associates, Laramie, Wyoming.

15.Remarks:

16.Sensitivity:	Critical		Significant		Important	X	Insignificant	

17.Recorded by: Alden Hamblin, Paleontologist	Date: July 17, 1993



42DC115V Balcron Oil Monument Butte Federal #21-13Y Myton SE, UTAH Quad.

Section 13, T9S, R16E

ISOLATED FIND RECORD	BLM/FS DISTRICT: Vernal, Utah/Diamond Mt.
	PROJECT: Balcron Oil Monument Butte Fed. #21-13Y

Map Ref.	USGS Quad	Myton SE, Utah	Scale	7.5 Min	Edition	1964

SW1/4	of	NE1/4	of	NW1/4	of Sectn	13	T	9S	R	16E	Meridn	SLB

State: UTAH | County: UINTAH

ARCHAEOLOGICAL DATA

Artifacts: Tip of projectile point.

Inferred function/description: 1.5 X .75 inch tip of projectile point. Mottled light and dark brown color.

Cultural affiliation: Fremont ? | Time period: ?

IF Dimensions:

ENVIRONMENTAL DATA

Elevation: 5355 ft m | Slope: | Aspect:

Topography: Area is at the southeast and upper end of a small broad bottomed (1/4 mile) valley which drains north to Castle Peak Draw. Hills immediately to the northeast and east rise about 50 feet above the location. On the west the hills rise 60 to 80 feet above the valley floor.

Vegetation community:

Nearest water: During spring runoff or when rainy, Castle Peak Draw.

Distance - 1/2 mile | Direction - north

Nearest permanent water: Duchesne River ?

Distance - 12 miles | Direction - north

Other:

Surface Collection _____ Yes __X__ No (if yes, attach list)

Methodology:

Photo _____ Yes __X__ No

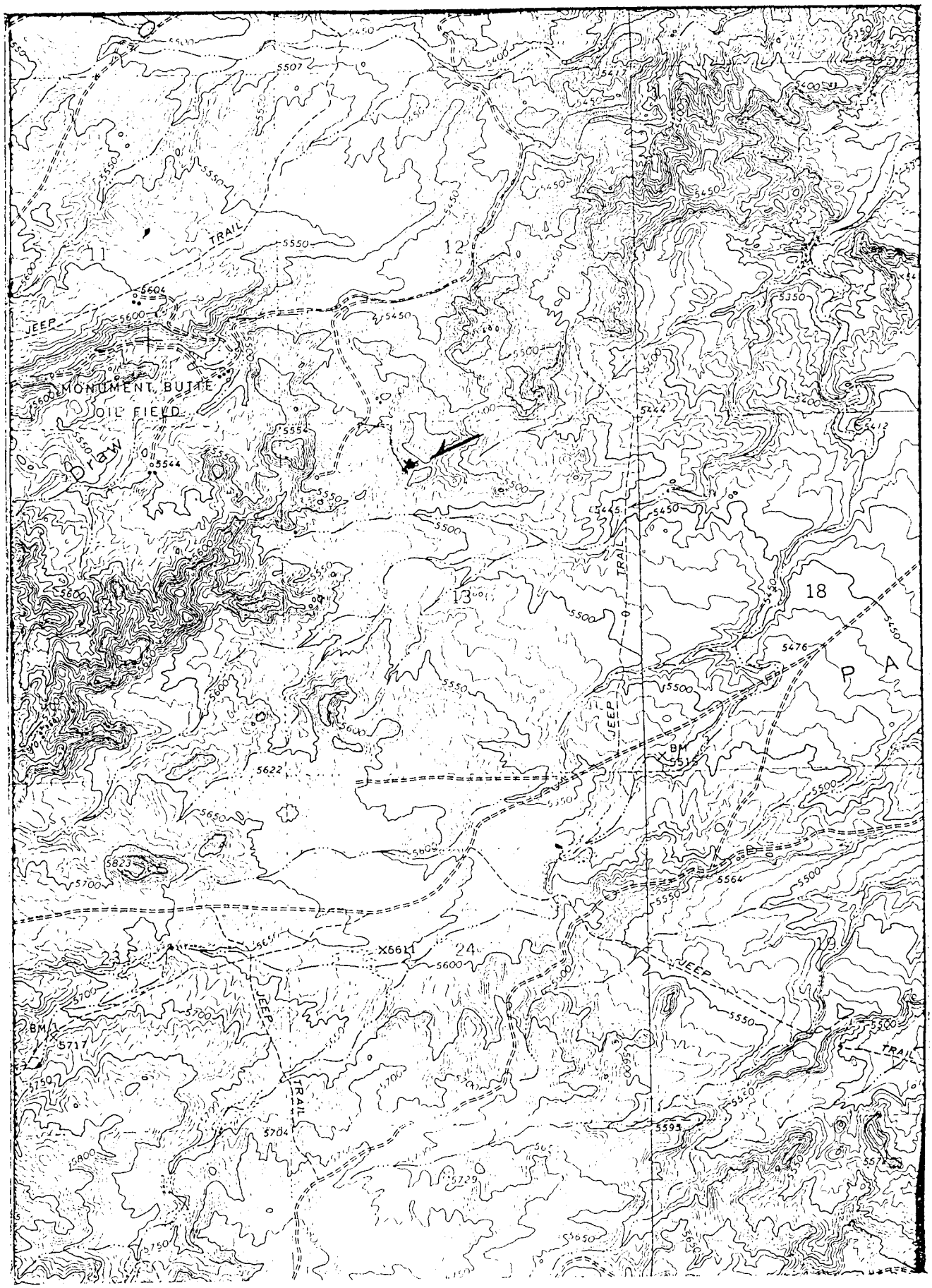
File location:

Remarks: Located approximately 27 yards north, 48 degrees East of well center stake.

10.Owner: Private		State		BLM	X	US FS		NPS		IND		MIL		OTHR	

Recorded by: Alden H. Hamblin | Date: July 17, 1993

ATTACH A PHOTOCOPY OF USGS QUAD MAP SHOWING SITE OR ISOLATED FIND CLEARLY



ISOLATED FIND SW, NE, NW, Sec 13, T9S, R16E, Myton SE, Utah Quad.
Balcron Oil Monument Fed #21-13Y

EQUITABLE **RESOURCES**
ENERGY COMPANY

BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104

Office: (406) 259-7860
FAX: (406) 245-1365 (J
FAX: (406) 245-1361 (X

August 3, 1993

-- VIA FEDERAL EXPRESS --

Bureau of Land Management
170 South 500 East
Vernal, UT 84078

Gentlemen:

Enclosed are sundry notices requesting approval of the change of water source for drilling the following wells:

Balcron Federal #21-13Y 43-013-31400
NE NW Section 13, T9S, R16E
Duchesne County, Utah

Balcron Federal #21-9Y 43-013-31396
NE NW Section 9, T9S, R16E
Duchesne County, Utah

We are requesting approval to use the Joe Shields water source. We are carefully monitoring amount of water used from this source and will continue to do so as requested by your office.

If you have any questions, please feel free to give me a call.

Sincerely,

Bobbie Schuman

Bobbie Schuman
Coordinator of Operations,
Environmental and Regulatory Affairs

/rs

Enclosures

cc: Utah Division of Oil, Gas and Mining

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**
702.7' FNL, 1830.5' FWL
PTD: 5900' Formation: Green River
Green River Prospect/Monument Butte Field
Elevations: 5535.5' GL
Contractor: Union Drilling Rig #18
Operator: Balcron/EREC
Spud: 8/13/93
Casing:

8-5-93 Present Operation: Building location.
Start location, move rock and dirt.

8-6-93 Present Operation: Build location.

8-7-93 Present Operation: Work on pit.
Had to drill 35 holes & shoot.

8-8-93 Present Operation: Shut down.

8-9-93 Present Operation: Finish location & road.

8-11-93 Present Operation: Install pit liner & haul water.
CC: $19,656

8-14-93 TD: 232' (232') Day 1
Formation: Uintah
Present Operation: Drilling surface.
SPUD @ 11:45 PM, 8/13/93. Move & rig up. Drill rat hole, drill & set conductor. Nipple up air head, drill surface hole.
DC: $14,553 CC: $34,209

8-15-93 TD: 275' (43') Day 2
Present Operation: Drill cement.
Finish drill surface hole. Nipple down air head. Pull conductor pipe & run 6 jts 8-5/8" casing. Cement with 150 sx Premium Plus cement with 2% CCL & 1/4# per sx Flocele. Good returns, approx 6 BBLS cement back. Plug down @ 11:15 AM, 8/14/93. Cement with Halliburton. WOC. Weld on head, nipple up. Test BOP & manifold to 2000# - OK. Had to run cup plug to test pipe to 1500#.
DC: $8,999 CC: $43,208

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

8-16-93 TD: 1,555' (1,280') Day 3
MW 8.4 Vis 27 pH 10
Formation: Green River
Present Opertion: Drilling.
Drill cement, survey, change air head rubber, drill.
DC: $16,555 CC: $59,763

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

8-16-93 TD: 1,555' (1,280') Day 3
MW 8.4 Vis 27 pH 10
Formation: Green River
Present Opertion: Drilling.
Drill cement, survey, change air head rubber, drill.
DC: $16,555 CC: $59,763

8-17-93 TD: 3,013' (1,458') Day 4
Formation: Green River
Present Operation: Drilling.
Drill, survey, clean on rig.
DC: $20,202 CC: $79,965

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

8-16-93 TD: 1,555' (1,280') Day 3
MW 8.4 Vis 27 pH 10
Formation: Green River
Present Opertion: Drilling.
Drill cement, survey, change air head rubber, drill.
DC: $16,555 CC: $59,763

8-17-93 TD: 3,013' (1,458') Day 4
Formation: Green River
Present Operation: Drilling.
Drill, survey, clean on rig.
DC: $20,202 CC: $79,965

TD: 4,062' (1,049') Day 5
MW 8.4 Vis 27 pH 10
Formation: Green River
Present Operation: Survey.
Drill, survey, clean on rig.
DC: $14,278 CC: $94,243

Post-it™ brand fax transmittal memo 7671 | # of pages ▸

To STATE OF UTAH	From JENNIE RAPETTO
Co. DIV. OIL, GAS & MINING	Co. BALCRON OIL
Dept.	Phone # 406-259-7860
Fax # 1-801-359-3940	Fax # 406-245-1361

EQUITABLE
ENERGY COMPANY

BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104

Office: (406) 259-7860
FAX: (406) 245-1365
FAX: (406) 245-1361

August 16, 1993

State of Utah
Division of Oil, Gas & Mining
355 West North Temple
Salt Lake City, UT 84180

Gentlemen:

RE:
Gentlemen:

RE: Balcron Federal #21-13Y
NE NW Section 13, T9S, R16E
Duchesne County, Utah

Enclosed is our Entity Action form along with a copy of the Federal sundry notice reporting spud of the referenced well.

Sincerely,

Bobbie Schuman
Coordinator of Operations,
Environmental and Regulatory Affairs

/rs

Enclosures

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

CONFIDENTIAL

5. Lease Designation and Serial No.
U-64805

6. If Indian, Allottee or Tribe Name
n/a

7. If Unit or CA, Agreement Designation
n/a

1. Type of Well
[X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.
Balcron Federal #21-13Y

2. Name of Operator
Equitable Resources Energy Company, Balcron Oil Division

9. API Well No.
43-013-31400

3. Address and Telephone No.
P.O. Box 21017; Billings, MT 59104 (406) 259-7860

10. Field and Pool, or Exploratory Area
Monument Butte/Grn.River

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NE NW Section 13, T9S, R16E
702.7' FNL, 1830.5' FWL

11. County or Parish, State
Duchesne County, UTAH

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other spud of well	[ ] Dispose Water
		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

This well was spud at 11:45 p.m. on 8/13/93.

AUG 18 1993

DIVISION OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct
Signed Bobbie Schuman Title Coordinator of Environmental and Regulatory Affairs Date

(This space for Federal or State office use)
Approved by Title Date
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

ATE OF UTAH
VISION OF OIL, GAS AND MINING

NTITY ACTION FORM - FORM 6

OPERATOR Equitable Resources Energy Company, Balcron Oil Division

OPERATOR ACCT. NO. N9890

ADDRESS ~~P.O. Box 21017~~
Billings, MT 59104

CTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE
A			43-013-31400	Balcron Federal #21-13Y	NE NW	13	9S	16E	Duchesne	8/13/93	8/13/93

LL 1 COMMENTS:
Spud of new well.

LL 2 COMMENTS:

LL 3 COMMENTS:

LL 4 COMMENTS:

AUG 18 1993

LL 5 COMMENTS:

TION CODES (See instructions on back of form)
A - Establish new entity for new well (single well only)
B - Add new well to existing entity (group or unit well)
C - Re-assign well from one existing entity to another existing entity
D - Re-assign well from one existing entity to a new entity
E - Other (explain in comments section)

Date: August 16, 1993

Signature
Coordinator of Environmental and Regulatory Affairs
Title Date

Phone No. (406) 259-7860

TE: Use COMMENT section to explain why each Action Code was selected.

/89)

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

8-16-93 TD: 1,555' (1,280') Day 3
MW 8.4 Vis 27 pH 10
Formation: Green River
Present Opertion: Drilling.
Drill cement, survey, change air head rubber, drill.
DC: $16,555 CC: $59,763

8-17-93 TD: 3,013' (1,458') Day 4
Formation: Green River
Present Operation: Drilling.
Drill, survey, clean on rig.
DC: $20,202 CC: $79,965

8-18-93 TD: 4,062' (1,049') Day 5
MW 8.4 Vis 27 pH 10
Formation: Green River
Present Operation: Survey.
Drill, survey, clean on rig.
DC: $14,278 CC: $94,243

8-19-93 TD: 4,550' (488') Day 6
MW 8.4 VIS 27 pH 10.3
Formation: Green River
Present Operation: Drilling.
Drill, survey, load hole with fluid, trip out for bit.
Trip in & drill with fluid.
DC: $7,776; CC: $102,019

Post-it™ brand fax transmittal memo 7671 | # of pages ▸

To STATE OF UTAH	From JENNIE RAPSTAD
Co. DIV. OIL, GAS & MINING	Co. BALCRON OIL
Dept.	Phone # 406-259-7860
Fax # 1-801-359-3940	Fax # 406-245-1361

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #22-10Y
Location: SE NW Section 10, T9S, R17E
Duchesne County, Utah **---TIGHT HOLE---**

8-17-93 Continued ->
Frac complete.
ISIP 2350, 5 minutes 2180, 10 minutes 2030, 15 minutes 1940. RU Cutter Wireline to set BP & perf. Set BP @ 4,750' KB. Perf 4,689'-99' KB w/2 SPF. TIH w/packer & tbg, set packer @ 4,630' KB. Press surface equipment to 4000 PSIG - OK. start breakdown, break @ 3,100 PSIG. Break back to 2100 PSIG @ 2.7 BPM; start 1 ball per BBLS water. Ball off to 3200 PSIG, surge ball back. Pump for rate 5.3 BPM @ 2300 PSIG, ISIP 1650. RU to frac. Pressure test surface equipment to 4200 psi - OK. Start pad 60 BBLS water, rate 20.5, maximum pressure 2250.

SAND	MAX. PRESSURE	MAXIMUM RATE	BBL. SLURRY
2# 16/30	2340	20.5	13
3# 16/30	2360	20.5	14
4# 16/30	2240	20.7	15
5# 16/30	2220	20.4	16
6# 16/30	2200	20.4	53
7# 16/30	2190	20.1	20
Flush	2290	20.0	111

Frac complete.
ISIP 1990, 5 minutes 1730, 10 minutes 1680, 15 minutes 1660. SWIFN. Total load used 809 BOW.
DC: $30,961 CC: $252,598

---PLEASE SEE ATTACHED TREATMENT SUMMARY (7 Pages)---

8-18-93 Present Operation: Swab.
Csg 960 PSIG. Flow back 40 bbls water, TIH w/retrieving tool and 2-7/8" tubing, tag sand @4,683', circulate sand out to BP (4,750'). Unseat BP, flow back 50 bbls water. TOOH w/tbg & BP. TIH w/retrieving tool, one jt tbg, HD packer & tbg tag fill @ 5,010'. POOH & set packer @4,629', end of tbg @4,664'. Made 24 swab runs. Swabbed back 144 bbls water. 10% oil cut on last 3 runs; still bringing sand back. SWIFN. Load recovered today 264 bbls water; load to be recovered 545 bbls water.
DC: $2,026 CC: $254,624

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

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MW 8.4 Vis 27 pH 10
Formation: Green River
Present Opertion: Drilling.
Drill cement, survey, change air head rubber, drill.
DC: $16,555 CC: $59,763

8-17-93 TD: 3,013' (1,458') Day 4
Formation: Green River
Present Operation: Drilling.
Drill, survey, clean on rig.
DC: $20,202 CC: $79,965

8-18-93 TD: 4,062' (1,049') Day 5
MW 8.4 Vis 27 pH 10
Formation: Green River
Present Operation: Survey.
Drill, survey, clean on rig.
DC: $14,278 CC: $94,243

8-19-93 TD: 4,550' (488') Day 6
MW 8.4 VIS 27 pH 10.3
Formation: Green River
Present Operation: Drilling.
Drill, survey, load hole with fluid, trip out for bit.
Trip in & drill with fluid.
DC: $7,776; CC: $102,019

8-20-93 TD: 5,122' (572') Day 7
MW 8.4, VIS 27 pH 10.6
Formation: Green River
Present Operation: Drilling.
Drill, survey, clean on rig, repair lights.
DC: $9,451 CC: $111,470

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

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MW 8.4 Vis 27 pH 10
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Present Opertion: Drilling.
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Formation: Green River
Present Operation: Drilling.
Drill, survey, clean on rig.
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MW 8.4 Vis 27 pH 10
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MW 8.4 VIS 27 pH 10.3
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Drill, survey, load hole with fluid, trip out for bit.
Trip in & drill with fluid.
DC: $7,776 CC: $102,019

8-20-93 TD: 5,122' (572') Day 7
MW 8.4, VIS 27 pH 10.6
Formation: Green River
Present Operation: Drilling.
Drill, survey, clean on rig, repair lights.
DC: $9,451 CC: $111,470

8-21-93 TD: 5,741' (619') Day 8
MW 8.4 VIS 27 pH 10.4
Formation: Green River
Present Operation: Drilling.
Drill, survey, clean on rig.
DC: $8,630 CC: $120,100

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

8-22-93 TD: 5,950' (199') Day 9
MW 8.4 VIS 27 pH 11.1
Formation: Green River
Present Operation: Lay down drill pipe.
Drill, circulate for logs, survey, trip out. Log well. TIH & circulate. Start to lay down drill pipe. Unload 139 jts 5-1/2" casing.
DC: $18,168 CC: $138,268

8-23-93: TD: 5,950 (-0-) Day 10
Formation: Green River
Prsent Operation: Move rig.
Lay down drill pipe & collars. Rig up casers & run 5-1/2" casing. Cement with Dowell. Set slips, ND BOP & clean tanks.

Guide shoe	.70'
1 jt 5-1/2", 15.50 K-55 shoe jt	44.86'
1 float collar	2.75'
138 jts 5-1/2", 15.50 csg w/20 centralizers	5,884.91'
landing joint	12.50'
	5,945.72'

Set @5,940.72'. PBTD 5,892'.

Cement with 145 sxs Hilift + additives & tail w/325 sxs Class "G" + additives. Good returns. Plug down 3:30 PM 8/22/93. **Release rig 7:30 PM 8/22/93.**
DC: $57,688 CC: $195,956

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

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DC: $18,168 CC: $138,268

8-23-93: TD: 5,950 (-0-) Day 10
Formation: Green River
Prsent Operation: Move rig.
Lay down drill pipe & collars. Rig up casers & run 5-1/2" casing. Cement with Dowell. Set slips, ND BOP & clean tanks.

Guide shoe	.70'
1 jt 5-1/2", 15.50 K-55 shoe jt	44.86'
1 float collar	2.75'
138 jts 5-1/2", 15.50 csg w/20 centralizers	5,884.91'
landing joint	12.50'
	5,945.72'

Set @5,940.72'. PBTD 5,892'.

Cement with 145 sxs Hilift + additives & tail w/325 sxs Class "G" + additives. Good returns. Plug down 3:30 PM 8/22/93. **Release rig 7:30 PM 8/22/93.**
DC: $57,688 CC: $195,956

8-24-93 Dress up location w/grader. Set rig anchors; set tanks; move rig in.
DC: $2,304 CC: $2,304

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

8-22-93 TD: 5,950' (199') Day 9
MW 8.4 VIS 27 pH 11.1
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Drill, circulate for logs, survey, trip out. Log well. TIH & circulate. Start to lay down drill pipe. Unload 139 jts 5-1/2" casing.
DC: $18,168 CC: $138,268

8-23-93: TD: 5,950 (-0-) Day 10
Formation: Green River
Prsent Operation: Move rig.
Lay down drill pipe & collars. Rig up casers & run 5-1/2" casing. Cement with Dowell. Set slips, ND BOP & clean tanks.

Guide shoe	.70'
1 jt 5-1/2", 15.50 K-55 shoe jt	44.86'
1 float collar	2.75'
138 jts 5-1/2", 15.50 csg w/20 centralizers	5,884.91'
landing joint	12.50'
	5,945.72'

Set @5,940.72'. PBTD 5,892'.

Cement with 145 sxs Hilift + additives & tail w/325 sxs Class "G" + additives. Good returns. Plug down 3:30 PM 8/22/93. **Release rig 7:30 PM 8/22/93.**
DC: $57,688 CC: $195,956

8-24-93 Dress up location w/grader. Set rig anchors; set tanks; move rig in.
DC: $2,304 CC: $2,304

8-25-93 Rig up AAA Well Service Rig #1. NU wellhead; NU BOP. TIH w/4-3/4" bit, 5-1/2" scraper, & 190 jts tbg. Tag PBTD @ 5,888'KB. Circulate well clean w/2% KCL water. TOOH w/tbg & scraper.
DC: $12,292 CC: $14,596

EQUITABLE RESOURCES
ENERGY COMPANY
BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104

Office: (406) 259-7860
FAX: (406) 245-1365
FAX: (406) 245-1361

August 23, 1993

Bureau of Land Management
170 South 500 East
Vernal, UT 84078

Gentlemen:

RE: Balcron Federal #21-13Y
NE NW Section 13, T9S, R16E
Duchesne County, Utah

Enclosed is our sundry notice reporting moving on of a "replacement" rig to complete this well.

Sincerely,

Bobbie Schuman

Bobbie Schuman
Coordinator of Operations,
Environmental and Regulatory Affairs

/rs

Enclosure

cc: Utah Division of Oil, Gas and Mining

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

CONFIDENTIAL

5. Lease Designation and Serial No.
U-64805

6. If Indian, Allottee or Tribe Name
n/a

7. If Unit or CA, Agreement Designation
n/a

1. Type of Well
[X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.
Balcron Federal #21-13Y

2. Name of Operator
Equitable Resources Energy Company, Balcron Oil Division

9. API Well No.
43-013-31400

3. Address and Telephone No.
P.O. Box 21017; Billings, MT 59104 (406) 259-7860

10. Field and Pool, or Exploratory Area
Monument Butte/Grn.River

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NE NW Section 13, T9S, R16E
702.7' FNL, 1830.5' FWL

11. County or Parish, State
Duchesne County, UTAH

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[x] Other replacement rig	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

We are moving on a completion rig to complete this well.

RECEIVED
AUG 27 1993
DIVISION OF
OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct
Signed Debbie Schuman Title Coordinator of Environmental and Regulatory Affairs Date August 25, 1993
Debbie Schuman

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

The Western Company—Treatment Report

Date 8-28-93 District VERNAL F. Receipt 262241 Operator CHEVRON OIL CO.
Lease FEDERAL Well No. 21-13Y Field MONUMENT BUTTES Location S13-T9S-R16E
County DUCHESNE State UT. Stage Number 1 This Zone ☒ This Well ☒

WELL DATA OG☐ NG☐ NO☒ OO☐ WD☐ IW☐ Misc.☐ Depth TD (PB) 5858 Formation GREEN RIVER
Tubing Size — WT. — Set at: — Type Packer — Set At —
Casing Size 5½ WT. 15.5# Set From SURFACE To TD Liner Size — Wt. —
Liner Set From — To — Open Hole: Size — From — To — Casing Perforations: Size 49" GUNS
Holes Per Foot 2 Intervals 4751 - 4765' (28 HOLES)
Previous Treatment N/A Prior Production N/A

TREATMENT DATA Pad Used: Yes☒ No☐ Pad Type VIKING I 35#
Treating Fluid Type: Foam☐ Water☒ Acid☐ Oil☐ Treat. Fluid Vol. 10,878 Gal.
Base Fluid Type VIKING I 35# Base Fluid Vol. 10,878 Gal.
Foam Qual.: ____ % Mitchell☐ Slurry☐ Surface☐ Downhole☐ Total Prop Qty. 37,980 Lbs.
Prop Type: Sand☒ WP-1☐ WP-3☐ Baux.☐ Other
Prop Mesh Sizes, Types and Quantities 20/40 - 22,600 16/30 - 15,380
Hole Loaded With KCL WATER Treat Via: Tubing☐ Casing☒ Anul.☐ Tubing & Anul.☐
Ball Sealers: — In — Stages of —
Types and Number of Pumps Used BJ 1000 - 3
Auxiliary Materials

PROCEDURE SUMMARY

LIQUID/GAS PUMPED / CAPACITIES IN BBLS

Tubing Cap.	—
Casing Cap.	113
Annular Cap.	—
Open Hole Cap.	—
Fluid to Load	30
Pad Volume	95
Treating Fluid	259
Flush	112
Overflush	—
Fluid to Recover	371
Total N²	—
Total CO_2	—

Time AM/PM	Treating Pressure-Psi STP	Annulus	Surface Slurry BBLS. Pumped Stage	Total	Slurry Rate BPM	Surface CO_2 BBLS. Pumped Stage	Total	CO_2 Rate BPM	Surface N² MSCF Pumped Stage	Total	N² Rate SCFM	Comments
6:55	—	—	—	—	—							TEST LINES @ 8000 psi
7:14	0	—	—	—	21.5							START PAD
7:20	2140	—	—	95	20.1							START 2.0# 20/40
7:20	2204	—	—	105	20.1							START 3.0# 20/40
7:21	2230	—	—	137	19.8							START 4.0# 20/40
7:22	2350	—	—	152	20.0							START 5.0# 20/40
7:24	2310	—	—	184	19.9							START 6.0# 20/40
7:27	2010	—	—	225	20.3							START 6.0# 16/30
7:29	1600	—	—	272	20.3							START 7.0# 16/30
7:30	1680	—	—	300	20.3							START FLUSH
7:34	1850	—	—	412	—							SHUTDOWN ALL FLUSHED
												1480 psi 5 MIN
												1450 psi 10 MIN
												1400 psi 15 MIN

Treating Pressure: Min. 1680 Max. 2350 Avg. 1900 Customer Representative MR. DALE GRIFFIN
Inj. Rate on Treating Fluid 20 Rate on Flush 20 Western Representative J. STEADLE
Avg. Inj. Rate 20 I.S.D.P. 1850 Flush Dens. lb/gal. 8.4 Distribution BAKERSFIELD
Final Shut-In Pressure 1400 in 15 Minutes
Operator's Maximum Pressure 3000 psi

Job Number Recommendation ID #

BALCRON OIL
DAILY OPERATING REPORT

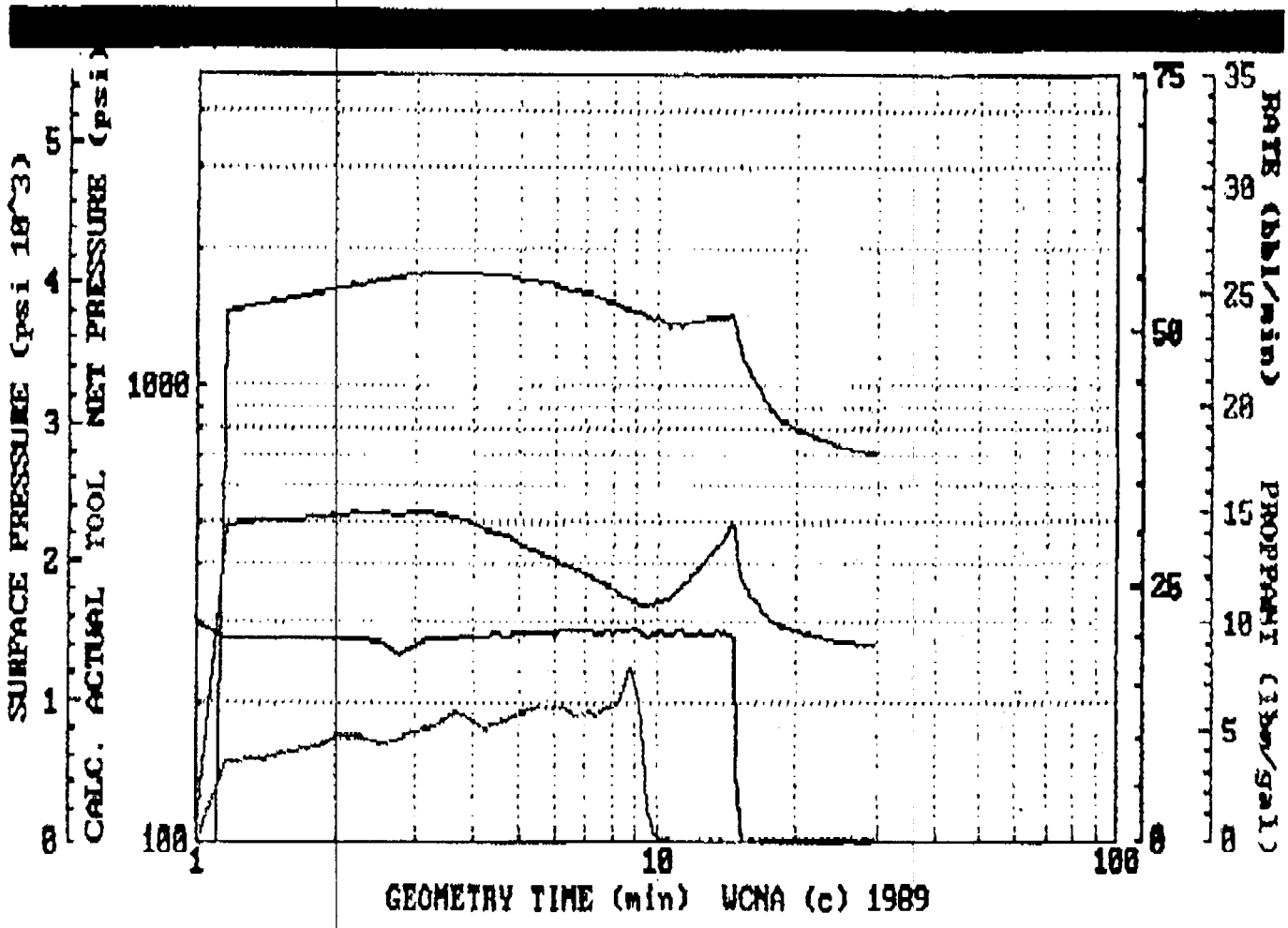
BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah

---TIGHT HOLE---

8-27-93 Cas "0" PSIG. RU Halliburton to do breakdown. Pressure test surface equipment to 4500 PSIG - OK. Pump 5 bbls water break @3400 PSI, break to 1500 @ 4 BPM. Pump 26 balls. No ball off at 4 BPM. Surge ball off perfs. Pump 18 bbls for rate, 6-1/4 BPM at 2500 PSIG. Made 5 swab runs. Swab back 22 bbls water, flow back 32 bbls water. ISIP 1550 PSIG, slight oil cut on swab. TOOH w/tbg & packer. SWIFN. Total load used - 125 bbls water; load recovered 54 bbls water; TOTAL LOAD TO RECOVER 71 bbls water.
DC: $2,464 CC: $218,854

8-28-93 Rig up Western to frac. Casing pressure "0" PSIG. Pressure test surface equipment to 5000 PSIG - OK. Frac well with 20,140 lbs of 20/40 & 15,380 lbs of 16/30 @ 20 BPM. Average treating pressure 1900 psi. Maximum treating pressure 2350 psi. ISIP 1850 psi, 5 minutes 1480 psi, 10 minutes 1450 psi, 15 minutes 1400 psi. SWIFN. Load used in frac 371 bbls water. Total load to recover 442 bbls water.
DC: $16,932 CC: $235,786

---SEE ATTACHED REPORT - 2 PAGES---


SURFACE PRESSURE (psi 10^3)
CALC. ACTUAL TOOL NET PRESSURE (psi)
RATE (bbl/min)
PROPPANT (lbm/gal)
GEOMETRY TIME (min) WCNA (c) 1989
0
1
2
3
4
5
1000
100
1
10
100
75
50
25
0
35
30
25
20
15
10
5
0

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

8-22-93 TD: 5,950' (199') Day 9
MW 8.4 VIS 27 pH 11.1
Formation: Green River
Present Operation: Lay down drill pipe.
Drill, circulate for logs, survey, trip out. Log well. TIH & circulate. Start to lay down drill pipe. Unload 139 jts 5-1/2" casing.
DC: $18,168 CC: $138,268

8-23-93: TD: 5,950 (-0-) Day 10
Formation: Green River
Prsent Operation: Move rig.
Lay down drill pipe & collars. Rig up casers & run 5-1/2" casing. Cement with Dowell. Set slips, ND BOP & clean tanks.

Guide shoe	.70'
1 jt 5-1/2", 15.50 K-55 shoe jt	44.86'
1 float collar	2.75'
138 jts 5-1/2", 15.50 csg w/20 centralizers	5,884.91'
landing joint	12.50'
	5,945.72'

Set @5,940.72'. PBTD 5,892'.

Cement with 145 sxs Hilift + additives & tail w/325 sxs Class "G" + additives. Good returns. Plug down 3:30 PM 8/22/93. Release rig 7:30 PM 8/22/93.
DC: $57,688 CC: $195,956

8-24-93 Dress up location w/grader. Set rig anchors; set tanks; move rig in.
DC: $2,304 CC: $2,304

8-25-93 Rig up AAA Well Service Rig #1. NU wellhead; NU BOP. TIH w/4-3/4" bit, 5-1/2" scraper, & 190 jts tbg. Tag PBTD @ 5,888'KB. Circulate well clean w/2% KCL water. TOOH w/tbg & scraper.
DC: $12,292 CC: $14,596

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

8-22-93 TD: 5,950' (199') Day 9
MW 8.4 VIS 27 pH 11.1
Formation: Green River
Present Operation: Lay down drill pipe.
Drill, circulate for logs, survey, trip out. Log well. TIH & circulate. Start to lay down drill pipe. Unload 139 jts 5-1/2" casing.
DC: $18,168 CC: $138,268

8-23-93: TD: 5,950 (-0-) Day 10
Formation: Green River
Present Operation: Move rig.
Lay down drill pipe & collars. Rig up casers & run 5-1/2" casing. Cement with Dowell. Set slips, ND BOP & clean tanks.

Guide shoe	.70'
1 jt 5-1/2", 15.50 K-55 shoe jt	44.86'
1 float collar	2.75'
138 jts 5-1/2", 15.50 csg W/20 centralizers	5,884.91'
landing joint	12.50'
	5,945.72'

Set @5,940.72'. PBTD 5,892'.

Cement with 145 sxs Hilift + additives & tail w/325 sxs Class "G" + additives. Good returns. Plug down 3:30 PM 8/22/93. **Release rig 7:30 PM 8/22/93.**
DC: $57,688 CC: $195,956

8-24-93 Dress up location w/grader. Set rig anchors; set tanks; move rig in.
DC: $2,304 CC: $198,260

8-25-93 Rig up AAA Well Service Rig #1. NU wellhead; NU BOP. TIH w/4-3/4" bit, 5-1/2" scraper, & 190 jts tbg. Tag PBTD @ 5,888'KB. Circulate well clean w/2% KCL water. TOOH w/tbg & scraper.
DC: $12,292 CC: $210,552

8-26-93 RU Schlumberger to Bond Log & perforate. Bond Log from PBTD to 3,500' and from 1650' to cement top at 1,040'KB. Perforate 4,751'-4,765'KB w/2 SPF. TIH w/hd packer & 150 jts of 2-7/8" tbg. Set packer @4,650'KB. SWIFN.
DC: $5,838 CC: $216,390

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

8-27-93 Cas "0" PSIG. RU Halliburton to do breakdown. Pressure test surface equipment to 4500 PSIG - OK. Pump 5 bbls water break @3400 PSI, break to 1500 @ 4 BPM. Pump 26 balls. No ball off at 4 BPM. Surge ball off perfs. Pump 18 bbls for rate, 6-1/4 BPM at 2500 PSIG. Made 5 swab runs. Swab back 22 bbls water, flow back 32 bbls water. ISIP 1550 PSIG, slight oil cut on swab. TOOH w/tbg & packer. SWIFN. Total load used - 125 bbls water; load recovered 54 bbls water; TOTAL LOAD TO RECOVER 71 bbls water.
DC: $2,464 CC: $218,854

8-28-93 Rig up Western to frac. Casing pressure "0" PSIG. Pressure test surface equipment to 5000 PSIG - OK. Frac well with 20,140 lbs of 20/40 & 15,380 lbs of 16/30 @ 20 BPM. Average treating pressure 1900 psi. Maximum treating pressure 2350 psi. ISIP 1850 psi, 5 minutes 1480 psi, 10 minutes 1450 psi, 15 minutes 1400 psi. SWIFN. Load used in frac 371 bbls water. Total load to recover 442 bbls water.
DC: $16,932 CC: $235,786

---SEE ATTACHED REPORT - 2 PAGES---

8-30-93 Casing PSIG "0", bleed well off. TIH w/5-1/2" packer & 2-7/8" tbg, tag fill @ 5,685'KB. POOH to 4,727'. Set packer. Made 18 swab runs. Flowed & swabbed 86 bbls fluid. Last three runs 30% oil, average oil % = 10. Last three runs - no sand. Release packer, tag fill @ 5,555'KB. Circulate down to PBTD. TOOH w/50 jts 2-7/8" tbg. SDFN.
DC: $2,531 CC: $238,317

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

8-27-93 Cas "0" PSIG. RU Halliburton to do breakdown. Pressure test surface equipment to 4500 PSIG - OK. Pump 5 bbls water break @3400 PSI, break to 1500 @ 4 BPM. Pump 26 balls. No ball off at 4 BPM. Surge ball off perfs. Pump 18 bbls for rate, 6-1/4 BPM at 2500 PSIG. Made 5 swab runs. Swab back 22 bbls water, flow back 32 bbls water. ISIP 1550 PSIG, slight oil cut on swab. TOOH w/tbg & packer. SWIFN. Total load used - 125 bbls water; load recovered 54 bbls water; TOTAL LOAD TO RECOVER 71 bbls water.
DC: $2,464 CC: $218,854

8-28-93 Rig up Western to frac. Casing pressure "0" PSIG. Pressure test surface equipment to 5000 PSIG - OK. Frac well with 20,140 lbs of 20/40 & 15,380 lbs of 16/30 @ 20 BPM. Average treating pressure 1900 psi. Maximum treating pressure 2350 psi. ISIP 1850 psi, 5 minutes 1480 psi, 10 minutes 1450 psi, 15 minutes 1400 psi. SWIFN. Load used in frac 371 bbls water. Total load to recover 442 bbls water.
DC: $16,932 CC: $235,786

---SEE ATTACHED REPORT - 2 PAGES---

8-30-93 Casing PSIG "0", bleed well off. TIH w/5-1/2" packer & 2-7/8" tbg, tag fill @ 5,685'KB. POOH to 4,727'. Set packer. Made 18 swab runs. Flowed & swabbed 86 bbls fluid. Last three runs 30% oil, average oil % = 10. Last three runs - no sand. Release packer, tag fill @ 5,555'KB. Circulate down to PBTD. TOOH w/50 jts 2-7/8" tbg. SDFN.
DC: $2,531 CC: $238,317

8-31-93 Cas "0" PSIG, tbg "0" PSIG. TOOH w/tbg & packer. RU Schlumberger to perf @ 4,309'-4,325', 2 SPM. RD Schlumberger. TIH w/5-1/2" retrievable bridge plug, right head, 1 jt 2-7/8" tbg, one 5-1/2" R-3 packer, seating nipple & 141 jts 2-7/8" tbg. Set bridge plug at 4,396'KB, pressure test bridge plug 1000 PSIG - OK 5 minutes. POOH w/7 jts 2-7/8" tbg, set packer @ 4,165'KB, bottom of tubing @ 4,196'KB. Pressure test surface equipment 4000 PSIG - OK. RU Western to break down perfs. Initial break @ 2500 PSIG, start 1 ball per bbl. Start break down, 37 bbls water, 6 balls total, no ball off. 3 & 4 BPM. Pump for rate 1350 PSIG at 6.0 BPM. Flow back 10 bbls water, made 4 swab runs, got trace of oil. Unseat packer. TOOH w/tbg & packer. Swabbed 30 bbls water. SWIFN.
DC: $5,039 CC: $243,356

EQUITABLE RESOURCES
ENERGY COMPANY

BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104

Office: (406) 259-7860
FAX: (406) 245-1365
FAX: (406) 245-1361

August 30, 1993

Bureau of Land Management
170 South 500 East
Vernal, UT 84078

Gentlemen:

Enclosed are sundry notices laying out the proposed site facility diagrams for the following wells:

Balcron Federal #21-13Y

Balcron Federal #41-21Y

Balcron Federal #44-14Y

Sincerely,

Bobbie Schuman

Bobbie Schuman
Coordinator of Operations,
Environmental and Regulatory Affairs

/rs

Enclosures

cc: Utah Division of Oil, Gas and Mining

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

CONFIDENTIAL

5. Lease Designation and Serial No.
U-64805

6. If Indian, Allottee or Tribe Name
n/a

7. If Unit or CA, Agreement Designation
n/a

1. Type of Well
[X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.
Balcron Federal #21-13Y

2. Name of Operator
Equitable Resources Energy Company, Balcron Oil Division

9. API Well No.
43-013-31400

3. Address and Telephone No.
P.O. Box 21017; Billings, MT 59104 (406) 259-7860

10. Field and Pool, or Exploratory Area
Monument Butte/Grn.River

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NE NW Section 13, T9S, R16E
702.7' FNL, 1830.5' FWL

11. County or Parish, State
Duchesne County, UTAH

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[X] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[ ] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other proposed production facilities	[ ] Dispose Water
		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Attached is our Proposed Production Facility Diagram for this well.

RECEIVED
SEP 0 1 1993
DIVISION OF
OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct
Signed Bobbie Schuman Title Coordinator of Environmental and Regulatory Affairs Date August 30, 1993
Bobbie Schuman
(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

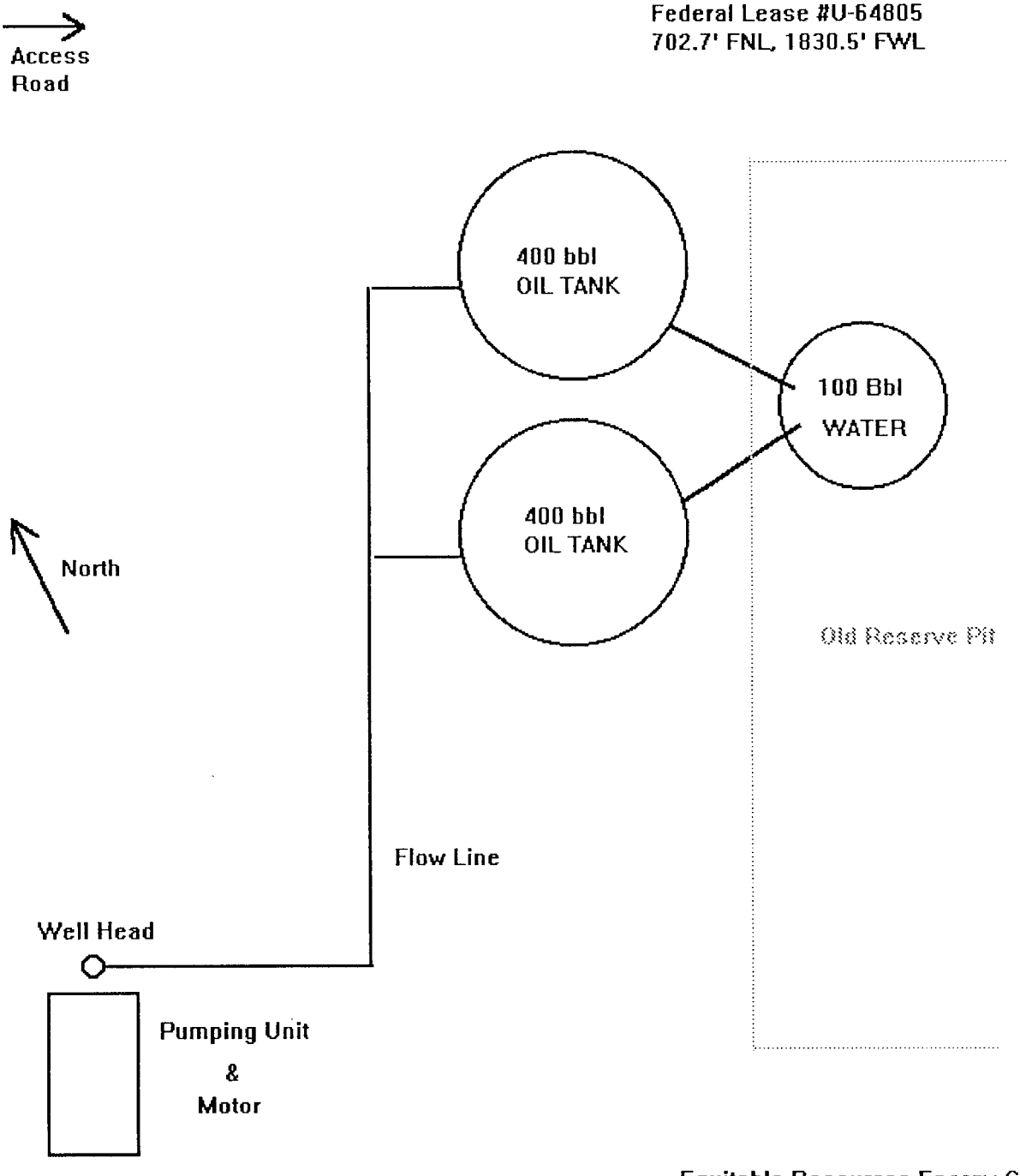
*See Instruction on Reverse Side

Equitable Resources Energy Company

Balcron Federal 21-13Y

Proposed Production Facility Diagram

Balcron Federal 21-13Y
NE NW Section 13, T9S, R16E
Duchesne County, Utah
Federal Lease #U-64805
702.7' FNL, 1830.5' FWL



Equitable Resources Energy Company
Balcron Oil Division
P.O. Box 21017
Billings, MT 59104
(406) 259-7860

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

9-1-93 RU Western & prepare to frac. Pressure test surface equipment to 4500 PSIG - OK. Frac well with 33,600# 16/30 sand. Max. treating pressure 2200 psi; average treating pressure 2050 psi; average rate 24.5 BPM. ISIP 1800 psi, 5 minutes 1550 psi, 10 minutes 1460 psi, 15 minutes 1360 psi. SWIFD. Load used 377 bbls water; total load to recover 820.
DC: $18,437 CC: $261,793

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

9-1-93 RU Western & prepare to frac. Pressure test surface equipment to 4500 PSIG - OK. Frac well with 33,600# 16/30 sand. Max. treating pressure 2200 psi; average treating pressure 2050 psi; average rate 24.5 BPM. ISIP 1800 psi, 5 minutes 1550 psi, 10 minutes 1460 psi, 15 minutes 1360 psi. SWIFD. Load used 377 bbls water; total load to recover 820.
DC: $18,437 CC: $261,793

9-2-93 Casing 100 PSIG. Flowed 5 bbls water. TIH w/1 bridge plug retrieving tool, 1 jt 2-7/8" tbg, one 5-1/2" packer & 125 jts 2-7/8" tbg. Tag fill @ 3,921' KB. RU to circulate sand out to 4,355'. Set packer @ 4,288'. Made 23 swab runs, swab fluid level down to 3,700'. Last 3 runs 30% oil. Still getting sand. SWIFN. Load recovered 65 bbls water. Total load to be recovered 755 bbls water.
DC: $2,235 CC: $264,028

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

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DC: $18,437 CC: $261,793

9-2-93 Casing 100 PSIG. Flowed 5 bbls water. TIH w/1 bridge plug retrieving tool, 1 jt 2-7/8" tbg, one 5-1/2" packer & 125 jts 2-7/8" tbg. Tag fill @ 3,921' KB. RU to circulate sand out to 4,355'. Set packer @ 4,288'. Made 23 swab runs, swab fluid level down to 3,700'. Last 3 runs 30% oil. Still getting sand. SWIFN. Load recovered 65 bbls water. Total load to be recovered 755 bbls water.
DC: $2,235 CC: $264,028

9-3-93 Completion
Csg - 9 psig, tbg - 230 psig. Flow back 1 BO. Made 8 swab runs. Recovered 42 BOF - 50% oil. Release packer, tag sand fill @ 4340', circ clean to 4396'. Release BP, TOOH w/tbg, BP & packer. TIH w/production string: 1 jt 2-7/8" tbg, EUE, J-55, 8RD, 6.5# set 4802' KB; 1 perf sub 2-7/8" x 3'; 1 seat nipple; 154 jts tbg 2-7/8" EUE, J-55, 8rd, 6/5#. Landed @ 4771' KB. Load recovered today 21 BOW. Total load to recover 734 BOW.
DC: $4,648 CC: $268,676

9-7-93 Completion.
TIH w/rods. TP - 0 psig; CP - Vac.

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

9-1-93 RU Western & prepare to frac. Pressure test surface equipment to 4500 PSIG - OK. Frac well with 33,600# 16/30 sand. Max. treating pressure 2200 psi; average treating pressure 2050 psi; average rate 24.5 BPM. ISIP 1800 psi, 5 minutes 1550 psi, 10 minutes 1460 psi, 15 minutes 1360 psi. SWIFD. Load used 377 bbls water; total load to recover 820.
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9-2-93 Casing 100 PSIG. Flowed 5 bbls water. TIH w/1 bridge plug retrieving tool, 1 jt 2-7/8" tbg, one 5-1/2" packer & 125 jts 2-7/8" tbg. Tag fill @ 3,921' KB. RU to circulate sand out to 4,355'. Set packer @ 4,288'. Made 23 swab runs, swab fluid level down to 3,700'. Last 3 runs 30% oil. Still getting sand. SWIFN. Load recovered 65 bbls water. Total load to be recovered 755 bbls water.
DC: $2,235 CC: $264,028

9-3-93 Completion
Csg - 9 psig, tbg - 230 psig. Flow back 1 BO. Made 8 swab runs. Recovered 42 BOF - 50% oil. Release packer, tag sand fill @ 4340', circ clean to 4396'. Release BP, TOOh w/tbg, BP & packer. TIH w/production string: 1 jt 2-7/8" tbg, EUE, J-55, 8RD, 6.5# set 4802' KB; 1 perf sub 2-7/8" x 3'; 1 seat nipple; 154 jts tbg 2-7/8" EUE, J-55, 8rd, 6/5#. Landed @ 4771' KB. Load recovered today 21 BOW. Total load to recover 734 BOW.
DC: $4,648 CC: $268,676

9-6-93 Completion.
TIH w/rods. TP - 0 psig; CP - Vac.

9-7-93 Completion
CP - 0 psig, TP - 0 psig. Flush tbg w/hot wtr. TIH w/1 BHP 2-1/2 x 1-1/2 x 16' ring plunger; one 3/4 x 2' pony; six 1" x 25' rods w/2-1/2" guides EL; 184 3/4" x 25' rods plain; one 3/4" x 6' pony; one 1/14" x 16' polish rod; spool out 4" off. Rig down & move off. Load to recover 734 BW.
DC: $23,103

BALCRON OIL COMPANY

BALCRON FEDERAL #21-13Y

NE NW SECTION 13, T9S, R16E

DUCHESNE COUNTY, UTAH

GEOLOGIC EVALUATION

The Balcron Federal #21-13Y was a development well drilled by Balcron Oil Company at Monument Butte Field. Located in the Uinta Basin of Utah, the field produces oil and gas from Tertiary age sediments in the Green River Formation. Numerous channel and deltaic sands in the Douglas Creek Member are the primary objectives. The #21-13Y attempts to establish production in the south central portion of Monument Butte Field.

The Balcron Federal #21-13Y was spudded on August 13, 1993 at a location in the NE NW of Section 13, T9S, R16E in Duchesne County, Utah. The well was drilled from under surface casing employing air and foam to a depth 4251', at which point the system was convert to KCL and fresh water. A total depth of 5950' was reached on August 21, 1993 and the #21-13Y was cased for completion on August 22, 1993. The well bore was evaluated by a well site geologist and two man mud logging unit in addition to a full suite of E-Logs.

Zones of Interest:

Sample and gas shows were noted from relatively shallow up hole sands beginning at 2660' through 2750'. A net total gas increase of 40 units occurred at 2660' to 2670', which chromatograph readings proved to contain methane, ethane, propane and traces of heavier gases. Abundant oil and tar were noted on the pits in association with this show. Samples were comprised of unconsolidated very fine grained sands with brown oil and asphaltic staining. Porosity logs indicate a 70' thick sand section from 2680' to 2750' averaging 17% cross-plotted porosity.

The Y-3 Sands were present at 4104' to 4116'. This interval was penetrated with a 40 unit total gas increase over a background of 40 units and was comprised entirely of methane. Samples indicated a fine to medium grained fairly consolidated Sandstone with brown uniform oil staining. Logs prove this zone to be silty or dirty with porosity ranging from 16 to 18% through the cleaner portions.

The Y-4 Sand occurred from 4308' to 4326' with porosity averaging 17% through this 18' thick section. A net total gas show of 546 units with the full range of gas components was recorded. Drill cuttings were comprised of fine to medium grained Sandstone with a trace of brown spotty oil stain.

The R-5 Sand was a 14' thick Sandstone section encountered from 4751' to 4765'. A significant gas increase of 820 units above a background of 10 units with C1 through NC4 gas components was detected from a poorly to fairly consolidated Sandstone with brown oil staining. Oil on the pits was also observed after penetrating this interval. Cross plotted porosity values range

from 14 to 16% through the R-5.

Drilling proceeded through the remainder of the Douglas Creek Member and Carbonate Marker to a total depth 116' below the Uteland Butte. No significant gas shows or porous Sandstone sections were encounter in either the Green or Blue zones. E-logs prove these intervals to be silty and/or tight.

Conclusions:

1.) Sample and gas shows indicate the R-5 and Y-4 zones have the best capacity for commercial oil production at the Balcron Federal #21-13Y. E-logs confirm the potential of these two Sandstone sections.

2.) Additional pay may be present in the Y-3 Sands and at 2680' to 2750'. Both intervals warrant further evaluation through production casing.

Respectfully submitted,

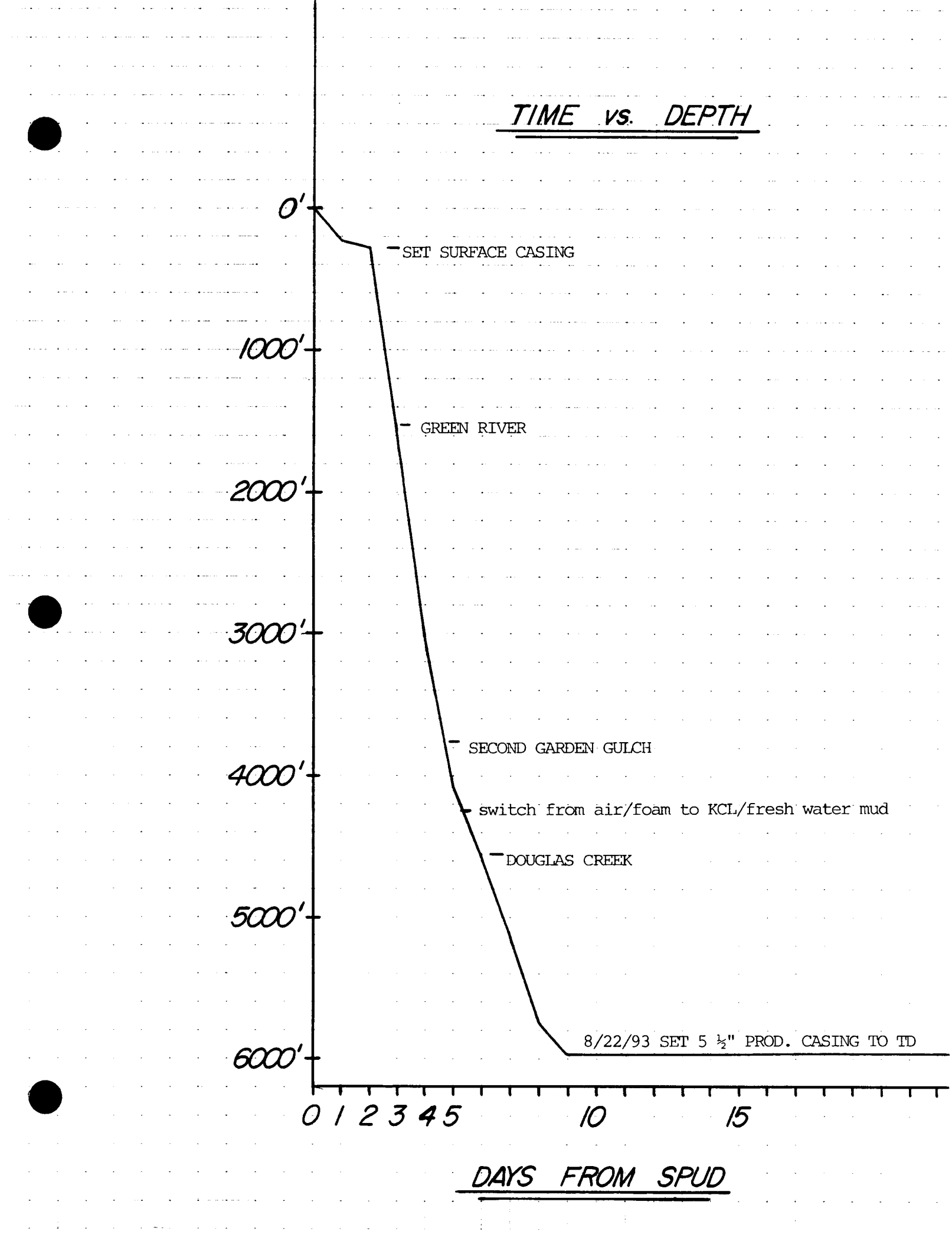
Roy L. Clement

Roy L. Clement
Wellsite Geologist

DAILY ACTIVITY

DAY	DATE	DEPTH	PROG	BIT	WOB	RPM	PP	WT*	VIS	WL	ACTIVITY	FORMATION
0	8/13/93	0'	0'	1	All	25	150	Air/Mist			Spud @ 1830 hours MDT	
1	8/14	231'	231'	1	6	10	200	8.4	27	n/c	Set Surface Casing	
2	8/15	275'	44'	2	45	45	150	8.4	27	n/c	Drill ahead	Uinta
3	8/16	1562'	1287'	2	45	50	200	8.3	27	n/c	Drill ahead	Green R.
4	8/17	3013'	1451'	2	50	50	250	8.4	27	n/c	Drill ahead	Green R.
5	8/18	4063'	1050'	2	40	55	260	8.4	27	n/c	Drill ahead	Green R.
6	8/19	4550'	487'	3	50	65	850	8.4	27	n/c	Trip for bit	Green R.
7	8/20	5122'	572'	3	50	65	875	8.4	27	n/c	Drill ahead	Douglas C.
8	8/21	5741'	619'	3	48	60	875	8.4	27	n/c	Drill to TD	Douglas C.
9	8/22	5950'	209'	-	--	--	---	Static	------		Run E-logs	Uteland B.

*Note: drilled with air and foam from under surface casing to 4251', switched to KCL and Fresh water from 4251' to TD.


TIME vs. DEPTH
0'
1000'
2000'
3000'
4000'
5000'
6000'
SET SURFACE CASING
GREEN RIVER
SECOND GARDEN GULCH
switch from air/foam to KCL/fresh water mud
DOUGLAS CREEK
8/22/93 SET 5 ½" PROD. CASING TO TD
0 1 2 3 4 5 10 15
DAYS FROM SPUD

BIT RECORD

CONTRACTOR: UNION DRILLING, RIG #17

SPUD: 8/13/93 **TOTAL DEPTH**: 8/21/93 **TOTAL ROTATING HOURS**: 150.00

BIT NO.	SIZE	TYPE/ MAKE	JETS SIZE	SERIAL #	DEPTH OUT	FEET	HOURS	ACCUM HOURS	WOB	RPM	DEV	PP	T	B	G
1	12 1/4	IR FB	open	9009391	275'	247'	8.5	8.5	6	10	-	200	-	-	-
2	7 7/8	HTC ATJ-44	24 24 24	X52PG	4251'	3976'	88.25	96.75	50	55	-	260	7	2	I
3	7 7/8	STC F-4H	13 13 13	KV8802	5950'	1699'	53.25	150.00	50	65	1.5^0	875	4	2	I

DEVIATION SURVEYS

DEPTH	DEVIATION
300'	3/4°
597'	1/2°
1050'	1 1/4°
1530'	1 1/4°
2030'	1 1/4°
2530'	1°
3030'	1 1/2°
3530'	1 3/4°
4063'	1 3/4°
4560'	2 1/2°
5059'	1 1/2°
5523'	2 1/4°
5950'	1 1/2°

FORMATION TOPS AND STRUCTURAL RELATIONSHIPS

SUBJECT WELL: Balcron Federal #21-13Y; NE NW Sec 13, T9S, R16E KB: 5543'
OFFSET #1: Gov't C&O #4; NE SW Sec 12, T9S, R16E KB: 5462'

AGE and FORMATION	PROG	SAMPLE	E-LOG	DATUM	THICK	DIP TO OFFSET #1
TERTIARY						
Uinta	Surface					
Green River	1456'	1465'	1492'	4051'	2274'	+ 67'
2nd Garden Gulch	3777'	3770'	3766'	1777'	338'	+103'
Y-3	4095	4084'	4104'	1439'	16'	+ 83'
Y-4	4315'	4304'	4308'	1235'	18'	+ 99'
Douglas Creek	4567'	4560'	4561'	982'	149'	+ 98'
R-5	4737'	4748'	4751'	792'	14'	+ 78'
G-1	4900'	Absent	----	----	----	----
G-4	5097'	Absent	----	----	----	----
Carbonate Mkr.	5412'	5410'	5410'	133'	430'	NDE
Uteland Butte	----	5836'	5840'	-297'	----	NDE

REFERENCE WELL

G. S. Cambell ETAL
GOVERNMENT C&O #4
NE SW SEC 12, T9S, R16E
KB: 5462'

AGE and FORMATION	DEPTH	DATUM	THICK
TERTIARY			
Uinta	Surface		
Green River	1478'	3984'	2310'
2nd Garden Gulch	3788'	1674'	318'
Y-3	4106'	1356'	10'
Y-4	4326'	1136'	13'
Douglas Creek	4578'	884'	170'
R-5	4748'	714'	28'
G-1	4911'	551'	15'
G-4	5108'	354'	30

LITHOLOGY

Sampling Program: 50' samples were taken beginning at 1400' with 30' samples were taken from 3800' to total depth. All samples were lagged and caught by mud loggers. Descriptions begin at 1400' in the lower Uinta formation. Sample quality was fair unless noted otherwise.

1400' - 1450'	Sandstone:	white, salt and peppered, fine to medium grained, angular, poorly sorted, predominantly unconsolidated, micaceous, interbedded with
	Shale:	light brown to graybrown, firm, blocky

Sample Top: Green River Formation @ 1450'

1450' - 1550'	Dolomite	tan to light graybrown, cryptocrystalline, firm, dense, calcareous in part, very argillaceous, grading to
	Shale:	light graybrown to brown, firm, blocky to sub platy, calcareous
1550' - 1750'	Dolomite:	light brown to graybrown, cryptocrystalline, firm, slightly hard and siliceous in part, dense to slightly chalky, calcareous in part, pyritic, very argillaceous, interbedded with
	Shale:	light gray to tan, firm, blocky to platy, calcareous to dolomitic, trace Pyrite
1750' - 1900'	Shale:	gray to graybrown, tan, firm, blocky to platy, calcareous to dolomitic, abundant Pyrite, grading to
	Dolomite:	tan to light graybrown, cryptocrystalline, firm, dense to slightly chalky, calcareous, argillaceous to shaly, siliceous in part
1900' - 2110'	Dolomite:	brown to graybrown, crypto to microcrystalline, firm, dense to micritic, calcareous in part, pyritic, argillaceous to shaly, trace white calcite and calcite healed fractures, interbedded with

	Shale:	gray to graybrown, tan, firm, blocky to platy, dolomitic to calcareous, trace Pyrite
2110' - 2150'	Limestone:	light gray to tan, microcrystalline, firm, chalky to fragmental, argillaceous, dolomitic, grading to
	Shale:	light brown to graybrown, firm, blocky to platy, calcareous
2150' - 2300'	Shale:	brown to graybrown, firm, blocky to platy, trace Pyrite, calcareous to marly, trace white to light orange calcite crystals
2300' - 2450'	Shale:	light to medium gray, graybrown, firm, platy to sub blocky, calcareous to dolomitic, trace Pyrite, grading to Dolomite in part
2450' - 2550'	Dolomite:	light gray to graybrown, cream in part, microcrystalline, firm, dense to slightly chalky, calcareous in part, argillaceous and grading to Shale: as above
2550' - 2660'	Sandstone:	white to light graywhite, very fine to medium grained, sub angular to sub rounded, poorly sorted, predominantly unconsolidated, Pyritic to Bituminous, trace brown spotty oil stain, scattered dull yellowgreen fluorescence, moderate yellowwhite streaming cut, interbedded with
	Shale:	light gray to graybrown, firm blocky to platy, calcareous, Pyritic
2660' - 2750'	Sandstone:	white to light brown, very fine grained, sub angular, fair sorting, unconsolidated, brown spotty oil stain and asphaltic residue, oil and tar on pits, dull gold fluorescence, immediate yellowgreen streaming to diffuse cut
2750' - 2840'	Shale:	medium to dark gray, graybrown, firm, platy, slightly calcareous, silty, Pyritic, interbeds of Sandstone: as above
2840' - 2940'	Sandstone:	light gray, salt & peppered, fine

		to medium gray, sub angular, poor sorting, fair consolidation and calcareous cemented, pyritic, interbeds of Shale: as above
2940' - 3000'	Dolomite:	tan to light graybrown, cream, crypto to microcrystalline, firm to slightly hard and siliceous, dense, argillaceous to shaly
3000' - 3050'	Limestone:	cream to buff, micro to very fine crystalline, firm, chalky, bioclastic to oolitic in part, dolomitic
3050' - 3100'	Sandstone:	white to light graywhite, very fine to fine grained, angular to sub angular, fair sorting, unconsolidated, calcareous cement in part, grading to Siltstone in part, trace brown spotty oil stain, dull gold fluorescence, moderate yellowgreen streaming cut
3100' - 3150'	Dolomite:	light to medium brown, graybrown, cryptocrystalline, firm to slightly hard and siliceous, dense, argillaceous, grading to Shale
3150' - 3250'	Limestone:	white to cream, microcrystalline, soft to firm, chalky to earthy, fragmental in part, interbedded with
	Shale:	light to medium gray, graybrown, firm, blocky to platy, calcareous
3250' - 3300'	Sandstone:	light gray, salt & peppered in part, fine to medium grained, sub angular, poorly sorted, fairly consolidated with calcareous to siliceous cement, grading to
	Siltstone:	light gray, firm, calcareous
3300' - 3365'	Limestone:	light brown, cream, crypto to microcrystalline, firm, dense to slightly chalky, argillaceous, interbeds of
	Shale:	gray to graybrown, soft to firm, blocky to platy, calcareous
3365' - 3400'	Sandstone:	white to light gray, very fine to fine grained, sub angular, fair sorting, unconsolidated

3400' - 3600'	Shale:	light to medium gray, graybrown, firm, blocky to platy, calcareous, grading to Siltstone in part, interbeds of
	Limestone:	tan to cream, microcrystalline, soft to firm, chalky to earthy, slightly argillaceous
3600' - 3700'	Dolomite:	tan to light graybrown, crypto to microcrystalline, firm, dense to chalky, argillaceous, calcareous in part, interbedded with
	Shale:	gray, brown to graybrown, firm, blocky to platy, calcareous to slightly silty
3700' - 3770'	Siltstone:	light to medium gray, firm, calcareous, grading to very fine grained Sandstone in part

Sample Top: Second Garden Gulch @ 3770'

3770' - 3806'	Limestone:	cream to buff, white in part, cryptocrystalline, soft to firm, chalky to earthy, dolomitic in part, argillaceous

Note: 30' samples beginning @ 3800'

3806' - 3880'	Siltstone:	light gray to graywhite, firm to slightly hard, calcareous, grading to
	Sandstone:	white to graywhite, very fine grained, sub angular, fair sorting, poor to fair consolidation with calcareous cement
3880' - 3930'	Shale:	light to medium gray, graybrown, firm, blocky, calcareous, silty to arenaceous, occasional interbeds of
	Limestone:	tan to cream, microcrystalline, firm, dense to chalky, argillaceous to dolomitic
3930' - 4050'	Siltstone:	light to medium gray, graywhite, firm to slightly hard, calcareous, grading to shale, occasional interbeds of Limestone: as above
4050' - 4084'	Siltstone:	gray to graywhite, firm to slightly hard, calcareous, grading to very fine grained sandstone in part, pyritic

Sample Top: Y-3 @ 4084'

4084' - 4092'	Sandstone:	light brown to white, fine to medium grained, angular, fair sorting, poor to fair consolidation, brown uniform oil stain through out, dull gold to yellowgreen fluorescence, immediate bright yellowgreen streaming to diffuse cut
4092' - 4251'	Siltstone:	light gray to graywhite, firm to slightly hard, calcareous, pyritic, grading to
	Shale:	gray to graybrown, firm, platy to blocky, calcareous

Note: Tripped for bit @ 4251' and switched from air & foam to KCL & fresh water drilling mud

4251' - 4320'	Shale:	light to medium gray, graybrown, firm, blocky to platy, calcareous, pyritic, grading to
	Siltstone:	light gray, firm, calcareous, sandy in part, very poor samples, abundant uphole cavings after trip

Note: 20' samples beginning @ 4300'

Sample Top: Y-4 @ 4304'

4304' - 4320'	Sandstone:	white, salt & peppered, fine to medium grained, angular to sub angular, poor sorting, fair consolidation, calcareous cement, trace brown spotty oil stain, bright yellowgreen fluorescence, immediate bright yellowgreen streaming cut
4320' - 4340'	Siltstone:	gray to graybrown, firm to slightly hard, calcareous
4340' - 4360'	Shale:	graybrown to brown, firm, blocky to platy, calcareous, silty, trace Pyrite
4360' - 4366'	Sandstone:	white to light gray, salt & peppered, fine to medium grained, angular to sub angular, poor sorting, fair consolidation, calcareous cement, tight
4366' - 4394'	Shale:	light to medium gray, firm, blocky,

		calcareous, trace Pyrite, silty and grading to siltstone
4394' - 4400'	Sandstone:	white to light gray, fine to medium grained, angular to sub angular, poor sorting, fair consolidation, calcareous cement, tight
4394' - 4436'	Shale:	graybrown to brown, firm, blocky to platy, calcareous to dolomitic, silty
4436' - 4446'	Sandstone:	gray to graywhite, brown in part, fine to medium grained, angular to sub rounded, poor sorting, fair consolidated, calcareous cement, brown spotty oil stain, dull gold fluorescence, moderate yellowgreen streaming cut
4446' - 4500'	Shale:	gray to graybrown, firm, blocky to platy, calcareous, silty in part, trace Pyrite
4500' - 4560'	Shale:	as above with occasional interbeds of
	Limestone:	tan to light gray brown, microcrystalline, firm, chalky to earthy, argillaceous

Sample Top: Douglas Creek @ 4560'

4560' - 4580'	Limestone:	cream to buff, tan, microcrystalline, soft, chalky to earthy, slightly argillaceous
4580' - 4636'	Shale:	light gray, graybrown to brown, firm, blocky to sub platy, slightly calcareous, silty
4636' - 4706'	Limestone:	tan to light gray, crypto to microcrystalline, firm, dense to chalky, slightly argillaceous, dolomitic in part, interbedded with
	Shale:	light gray to graybrown, firm, blocky to sub platy, calcareous to silty, pyritic
4706' - 4712'	Sandstone:	light gray to white, light brown in part, very fine to fine grained, sub angular, fair sorting, poorly consolidated to unconsolidated, calcareous cement in part, trace brown spotty oil stain & dull gold fluorescence, yellowwhite diffuse

		to streaming cut
4712' - 4748'	Shale:	light to medium gray, firm, platy to blocky, calcareous to silty

Sample Top: R-5 @ 4748'

4748' - 4762'	Sandstone:	light brown to white, very fine to fine grained, sub angular, fair sorting, poor to fair consolidation, calcareous cement, brown spotty oil stain and oil on pits, bright yellowgreen fluorescence, moderate yellowgreen streaming cut
4762' - 4798'	Shale:	light to medium gray, graybrown, firm, blocky to platy, calcareous, silty in part
4798' - 4812'	Shale:	as above, grading to Siltstone
4812' - 4910'	Shale:	light to medium gray, graybrown to brown, firm, blocky to sub platy, calcareous to marly in part, silty, trace Limestone: tan to light graybrown, microcrystalline, firm, chalky, argillaceous
4910' - 4944'	Shale:	dark brown to grayblack, soft, platy, calcareous, carbonaceous, no fluorescence, slow yellowwhite streaming cut, trace Sandstone: white to light brown, fine to medium grained, sub angular, poor sorting, fair consolidation, calcareous cement, trace brown spotty oil stain, moderate yellowgreen fluorescence, moderate yellowgreen streaming cut
4944' - 4970'	Siltstone:	light gray to graywhite, firm to slightly hard, calcareous, grading to Shale in part
4970' - 5028'	Shale:	light to medium gray, graybrown, firm, blocky to sub platy, calcareous, grading to
	Siltstone:	gray to graywhite, firm to slightly hard, calcareous
5028' - 5044'	Sandstone:	light brown to white, very fine to medium grained, sub angular, poor sorting, fairly consolidated,

		calcareous cement, brown spotty oil stain, moderate yellowgreen spotty fluorescence, moderate yellowgreen streaming cut
5044' - 5060'	Shale:	gray to graybrown, soft to firm, platy, calcareous to carbonaceous, silty in part
5060' - 5080'	Sandstone:	white to light brown, fine to medium grained, sub angular, poor to fair sorting, fair consolidation, brown spotty oil stain, moderate yellowgreen spotty fluorescence, yellowgreen streaming cut, grading to Siltstone in part
5080' - 5134'	Shale:	light to medium gray, graybrown, firm, platy to blocky, calcareous, grading to
	Siltstone:	gray to graywhite, firm, calcareous
5134' - 5184'	Shale:	light to medium gray, graybrown, firm, platy to blocky, calcareous to silty, trace Sandstone: light brown to white, very fine grained, sub angular, fair consolidation, fair sorting, trace brown spotty oil stain, moderate yellowgreen spotty fluorescence, yellowgreen streaming cut
5184' - 5216'	Shale:	gray to graybrown, becoming dark gray, firm, platy to blocky, calcareous to silty in part, trace Pyrite
5216' - 5244'	Shale:	dark gray to grayblack, soft to firm, calcareous to marly, carbonaceous to petroliferous, no fluorescence, slow yellowwhite streaming to diffuse cut
5244' - 5296'	Shale:	dark brown to black, soft to firm, platy, very slightly calcareous, carbonaceous to petroliferous trace white calcite and pyrite, no fluorescence, cut as above
5296' - 5338'	Shale:	black to blackbrown, soft to firm, platy to blocky in part, slightly calcareous in part, trace pyrite and white to brown calcite crystals, carbonaceous to

petroliferous, no fluorescence, slow yellowwhite streaming to diffuse cut

5338' - 5382' Shale: grayblack to black, soft, platy to fissile in part, calcareous, carbonaceous to petroliferous, trace pyrite, no fluorescence, cut as above

5382' - 5410' Shale: light to medium gray, grayblack, platy to blocky, firm, calcareous to marly, silty, interbeds of

Siltstone: light to medium gray, firm, calcareous

Sample Top: Carbonate Marker @ 5410'

5410' - 5420' Limestone: white to cream, tan, microcrystalline, soft, chalky to earthy, slightly argillaceous to arenaceous

5420' - 5456' Siltstone: light gray to graywhite, firm to slightly hard, calcareous, grading to very fine grained sandstone in part

5456' - 5482' Sandstone: light gray to white, fine to medium grained, sub angular, poor sorting, fair consolidation, calcareous cement, grading to Siltstone, trace brown oil stain, dull yellowgreen fluorescence, slow yellowwhite streaming cut

5482' - 5528' Siltstone: light to medium gray, firm, calcareous, interbeds of

Shale: gray to graybrown, firm, blocky, calcareous, trace pyrite

5528' - 5542' Shale: dark gray, blackbrown, soft, platy, calcareous to marly, carbonaceous, trace pyrite

5542' - 5596' Siltstone: light to medium gray, graywhite, firm to slightly hard, calcareous, grading to very fine grained sandstone in part, interbeds of Shale: as above

5596' - 5682' Sandstone: white to light gray, fine to medium grained, sub angular. poor sorting, fair consolidation, calcareous

		cement, tight, grading to
	Siltstone:	light to medium gray, firm to slightly hard, calcareous
5682' - 5710'	Siltstone:	gray to graywhite, firm to slightly hard, calcareous, interbeds of
	Shale:	light to medium gray, graybrown, firm, blocky to platy, calcareous to marly
5710' - 5772'	Sandstone:	white to light gray, fine to medium grained, sub angular to sub rounded, poor sorting, poorly consolidated to unconsolidated, grading to Siltstone
5772' - 5800'	Shale:	dark gray to black, platy to blocky, firm, slightly calcareous, carbonaceous, no fluorescence, dull yellowwhite streaming cut
5800' - 5836'	Limestone:	tan to buff, light graybrown, microcrystalline, firm, micritic to slightly chalky, dolomitic, interbeds of Shale: as above

Sample Top: Uteland Butte @ 5836'

5836' - 5858'	Limestone:	dark brown to black, microcrystalline, firm, dense to earthy, slightly argillaceous, abundant dark brown organic material
5858' - 5888'	Limestone:	as above, grading to
	Shale:	black to grayblack, firm, platy, calcareous to marly, carbonaceous
5888' - 5950'	Shale:	dark brown to graybrown, firm, platy, calcareous to marly, carbonaceous, grading to
	Limestone:	black to blackbrown, cryptocrystalline, firm to slightly hard and siliceous, dense to earthy, argillaceous to shaly, abundant dark brown organic material

Note: Driller's Total Depth @ 5950'

LOGGING REPORT

Logging Company: Schlumberger **Engineer**: Jeff Gebhart **Date**: 8/21/93

Witnessed by: Roy Clement and Al Plunkett

Driller's TD Depth: 5950' **Logger's TD Depth**: 5956'

Driller's Casing Depth: 259' **Logger's Casing Depth**: 260'

Elevation: **GL**: 5533' **Sub**: 10' **KB**: 5543'

Mud Conditions: **Wt**: 8.4 **Vis**: 27 **WL**: n/c
BHT: 144^0 F

Hole Conditions: Good

Logging Time: **Time Arrived**: 1800 hrs **First Tool in Hole**: 1930 hrs
Last Tool Out: 2400 hrs **Time of Departure**: 0300 hrs

Electric Logging Program: 1.) Dual Laterlog with Gamma Ray & Caliper from 5941' to 260'; Compensated Neutron-Litho Density Log with Gamma Ray and Caliper from 5941' to 2400' (tools were stacked, one logging run was made; due to tool failure, the MSFL was not run).

Log Tops: Green River Formation @ 1492'; Second Garden Gulch @ 3766'; Y-3 @ 4104'; Y-4 @ 4308'; Douglas Creek @ 4561'; R-5 @ 4751'; Carbonate Marker @ 5410'; Uteland Butte @ 5840'; Total Depth @ 5956'.

Zones of Interest: 2680' to 2750': 70' averaging 17% porosity

Y-3 @ 4104' to 4116': 9' with 16-18% porosity

4243' to 4252': 9' with 16-19% porosity

Y-4 @ 4308' to 4326': 18' with 16-18% porosity

4439' to 4443': 3' with 14% porosity

R-5 @ 4751' to 4765': 14' with 14-16% porosity;

Note: The following pages contain log excerpts over zones of interest.

Schlumberger

SIMULTANEOUS

COMPENSATED NEUTRON-LITHO-DENSITY

COMPANY	BALCRON OIL COMPANY
WELL	BALCRON FEDERAL 21-13Y
FIELD	MONUMENT BUTTE
COUNTY	DUCHESNE STATE UTAH

DUCHE SHE / COUNTY
MONUMENT BUTTE / FIELD
703'FNL & 1830'FWL / LOCATION
BALCRON FEDERAL 21-13Y / WELL
BALCRON OIL COMPANY / COMPANY

LOCATION: 703'FNL & 1830'FWL
NE NW

Other Services:
DLL
LDT
CNL

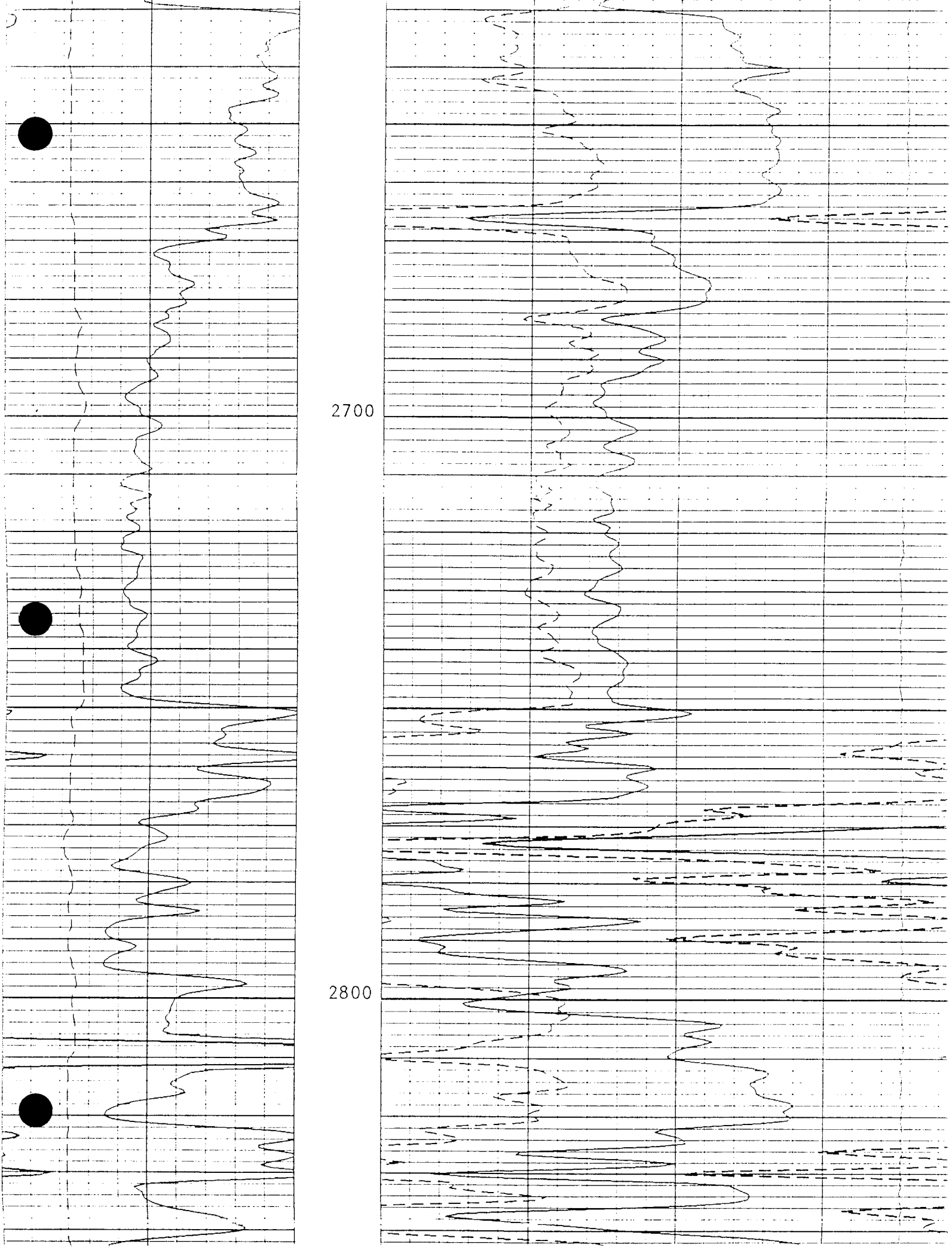
API SERIAL NO.	SECT.	TWP.	RANGE
43-013-31400	13	9S	16E

Permanent Datum	GROUND LEVEL	Elev.	5533.0 F
Log Measured From	KB	10.0 F	above Perm. Datum
Drilling Measured From	KB		

Elev.: K.B.5543.0 F
D.F.5542.0 F
G.L.5533.0 F

Date	21-AUG-1993		
Run No.	ONE		
Depth Driller	5950.0 F		
Depth Logger (Schl.)	5956.0 F		
Btm. Log Interval	5941.0 F		
Top Log Interval	2400.0 F		
Casing-Driller	8 5/8" @ 248.0 F	@	@
Casing-Logger	260.0 F		
Bit Size	7 7/8" @	@	@
Type Fluid in Hole	KCL WATER		
Dens. / Visc.	8.40 LB/G / 27.0 S		
pH / Fld. Loss	11.1		
Source of Sample	PIT		
Rm @ Meas. Temp.	.184 OHMM @ 84.0 DEGF	@	
Rmf @ Meas. Temp.	.184 OHMM @ 84.0 DEGF	@	
Rmc @ Meas. Temp.	@	@	
Source: Rmf / Rmc	MEAS / NA		
Rm @ BHT	.111 OHMM @ 144. DEGF	@	
TIME: Circulation Ended	8-21 @ 15:30		
TIME: Logger on Bottom	8-21 @ 20:01		
Max. Rec. Temp.	144. DEGF		
Equip. / Location	8264 / VERNAL,UT		
Recorded By	JEFF GEBHART		
Witnessed By	R.CLEMENT / A.PLUNKETT		

The well name, location and borehole reference data were furnished by the customer.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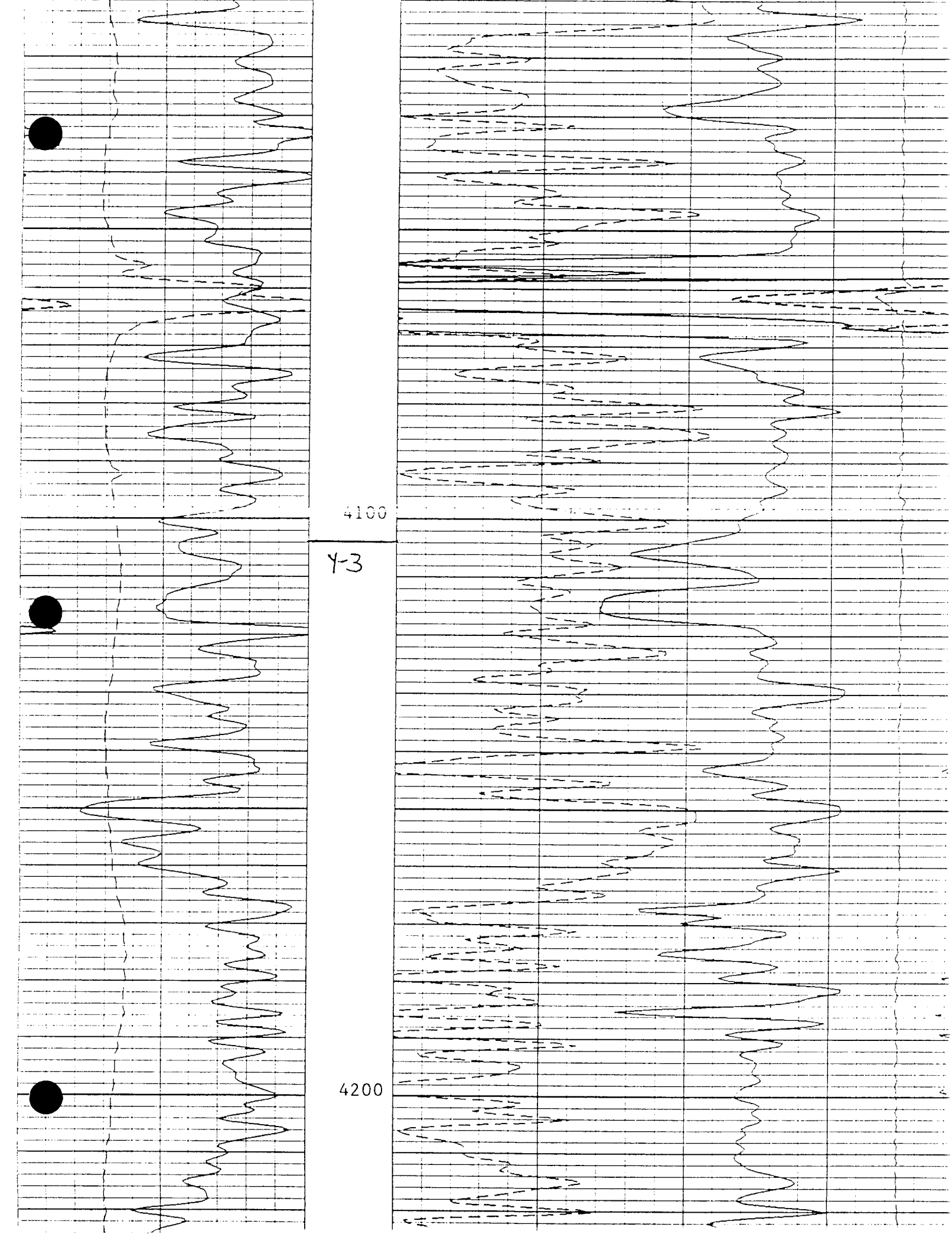
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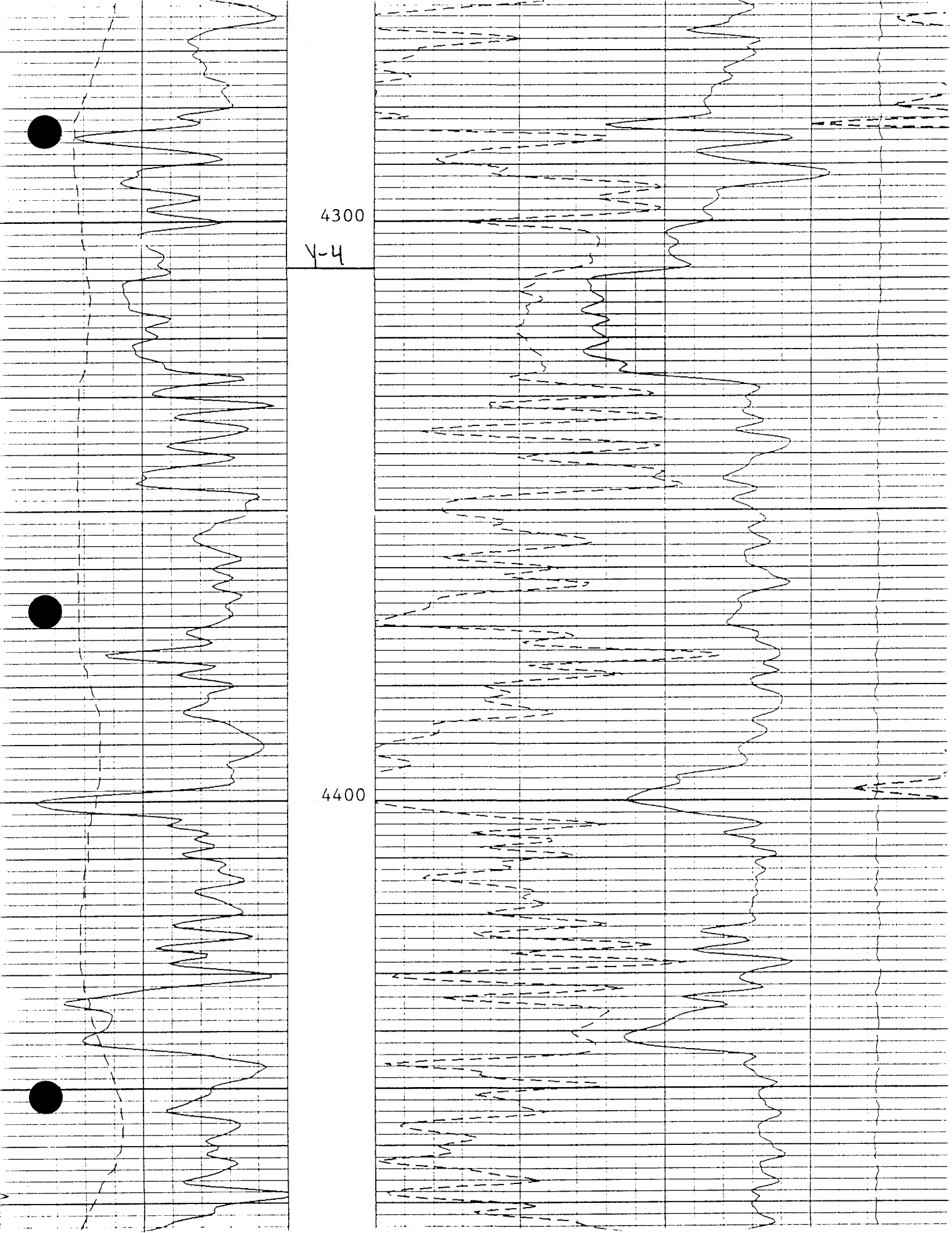
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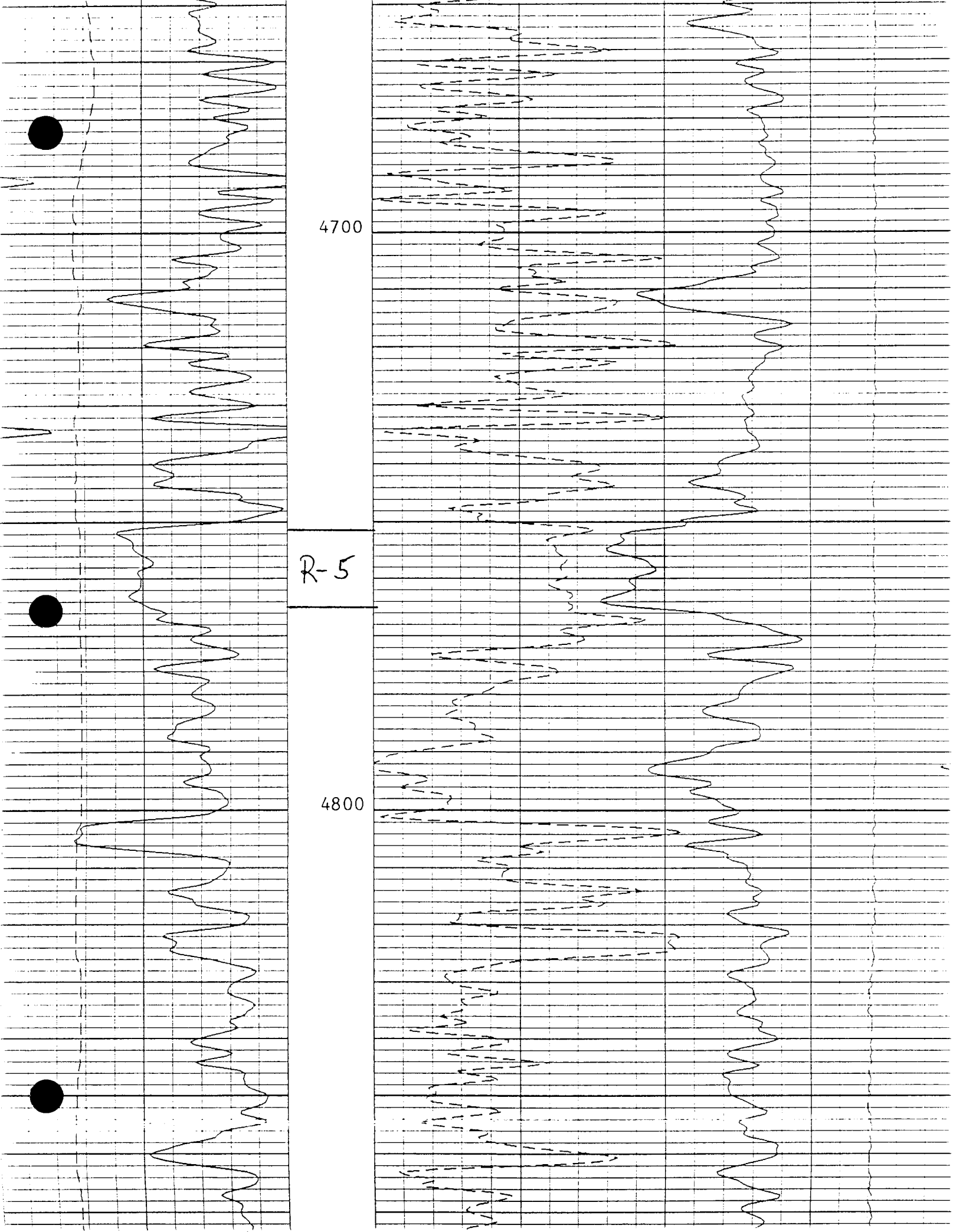

4700
R-5
4800

SEP 14

BALCRON OIL COMPANY

BALCRON FEDERAL #21-13Y

NE NW SECTION 13, T9S, R16E

DUCHESNE COUNTY, UTAH

Prepared by:

Roy L. Clement
c/o Clement Consulting
7703 Clark Avenue
Billings, Montana 59106
(406) 656-9514

Prepared for:

Keven K. Reinschmidt &
Steve VanDelinder
c/o Balcron Oil Company
Post Office Box 21017
Billings, MT 59104
(406) 259-7860

WELL DATA SUMMARY

OPERATOR:	BALCRON OIL COMPANY
ADDRESS:	Post Office Box 21017 Billings, Montana 59104
WELL NAME:	Balcron Federal #21-13Y
FIELD:	Monument Butte
LOCATION:	703' FNL & 1830' FWL NE NW SECTION 13, T9S, R16E
API#:	43-013-31400
COUNTY:	Duchesne
STATE:	Utah
BASIN:	Uinta
WELL TYPE:	Development Well and Potential Water Injection Well
BASIS OF PROSPECT:	Oil Production @ Monument Butte Field
ELEVATION:	**GL:** 5533' **SUB:** 10' **KB:** 5543'
SPUD DATE:	August 13, 1993 @ 1830 hrs MDT
TOTAL DEPTH/DATE:	5950' on August 21, 1993
TOTAL DRILLING DAYS:	8 **TOTAL ROTATING HOURS:** 150.00
STATUS OF WELL:	Cased for Completion on August 22, 1993
CONTRACTOR:	Union Drilling Company, Rig #17
TOOLPUSHER:	Dave Gray
FIELD SUPERVISOR:	Al Plunkett
MUD ENGINEER:	Craig Hart of Mustang Drilling Fluids
MUD TYPE:	Air/Foam from surface to 4251'; KCL/Fresh Water from 4251' to TD.
WELLSITE GEOLOGIST:	Roy L. Clement
PROSPECT GEOLOGISTS:	Keven K. Reinschmidt and Steve W. VanDelinder of Balcron Oil Company
MUDLOGGERS:	Larry Vodall and Scott Olson of Continental Labs
SAMPLING PROGRAM:	50' samples from 1400' to 3800'; 30' samples from

3800' to 4300'; 20' samples from 4300' to 5950' (TD). All samples lagged and caught by mud loggers. One dry set of samples sent to the state of Utah.

HOLE SIZE: 12 1/4" to 275'
7 7/8" to TD

CASING: 8 5/8" surface casing set at 259'
5 1/2" production casing to Total Depth

DRILL STEM TEST: None

CORE PROGRAM: None

ELECTRIC LOGGING PROGRAM:
1.) DLL//GR/CAL from 5941' - 260'
2.) LDT/CNL/GR/CAL from 5941' - 2400'

LOG TOPS: Green River @ 1492'; Second Garden Gulch @ 3766'; Y-3 @ 4104'; Y-4 @ 4308'; Douglas Creek @ 4561; R-5 @ 4751'; Carbonate Marker @ 5410'; Uteland Butte @ 5840; TD @ 5956'.

LOGGING COMPANY: Schlumberger
LOGGING ENGINEER: Jeff Gebhart

CORRELATION WELL: 1.) G. S. Campbell Et Al
Government C&O #4
Ne Sw Section 12, T9S, R16E

DISTRIBUTION LIST:

Balcron Oil Company
Attn: Keven K. Reinschmidt & Steve W. VanDelinder
Post Office Box 21017
Billings, MT 59104

Balcron Oil Company
Attn: Dale Griffen
275-CO.RD-120
Craig, CO 81625

Yates Petroleum Corporation
Attn: Mark Mauritsen
105 South Fourth Street
Artesia, NM 88210

Bureau of Land Management
Vernal District Office
170 South 500 East
Vernal, UT 84078

State of Utah
Division of Oil, Gas, and Mining
355 W. North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180

CLEMENT CONSULTING
7703 CLARK AVENUE
BILLINGS, MONTANA 59106
(406) 656-9514

SEP 14 1993

COMPANY: BALCRON OIL COMPANY
WELL: BALCRON FEDERAL NO. 21-13Y
LOCATION: NE NW (703' FNL & 1830' FWL) SEC. 13-T9S-R16E
DUCHESNE COUNTY, UTAH
DEPTH LOGGED: 1400' - 5950' DATE LOGGED: 16 AUG 93 - 21 AUG 93
KB: 5543' GL: 5533'
GEOLOGIST: ROY L. CLEMENT
CONTRACTOR: UNION DRILLING RIG 17
DRILLING FLUID: AIR/FOAM 0' - 4251'
KCL/WATER 4251' - TD

Porosity Oil Show

8 5/8" Surface Casing set at 259'

Drlg 7 7/8" Borehole w/ Bit 2 ATJ-44 in at 275'

LOG TOPS

API - GR

Sample Tops

DRILL RATE (min/ft)

0 1 2 3 4 5

1300

50' samples lagged & caught by mud loggers from 1400' to 3800'

1400

SS: wh, S & P, f-m gr, ang, p srt, pred unconsol mica, intbds of SH

Green River 1450'

GREEN RIVER
1492' (405')

DOL: tn-lt gybrn, crpxl, frm, dns, calc ip, v arg

1500

1 1/4°

SH: lt gybrn-brn, frm, blky-sub plty, calc

8/16/95

WOB 45
RPM 50
PP 200

P

1600

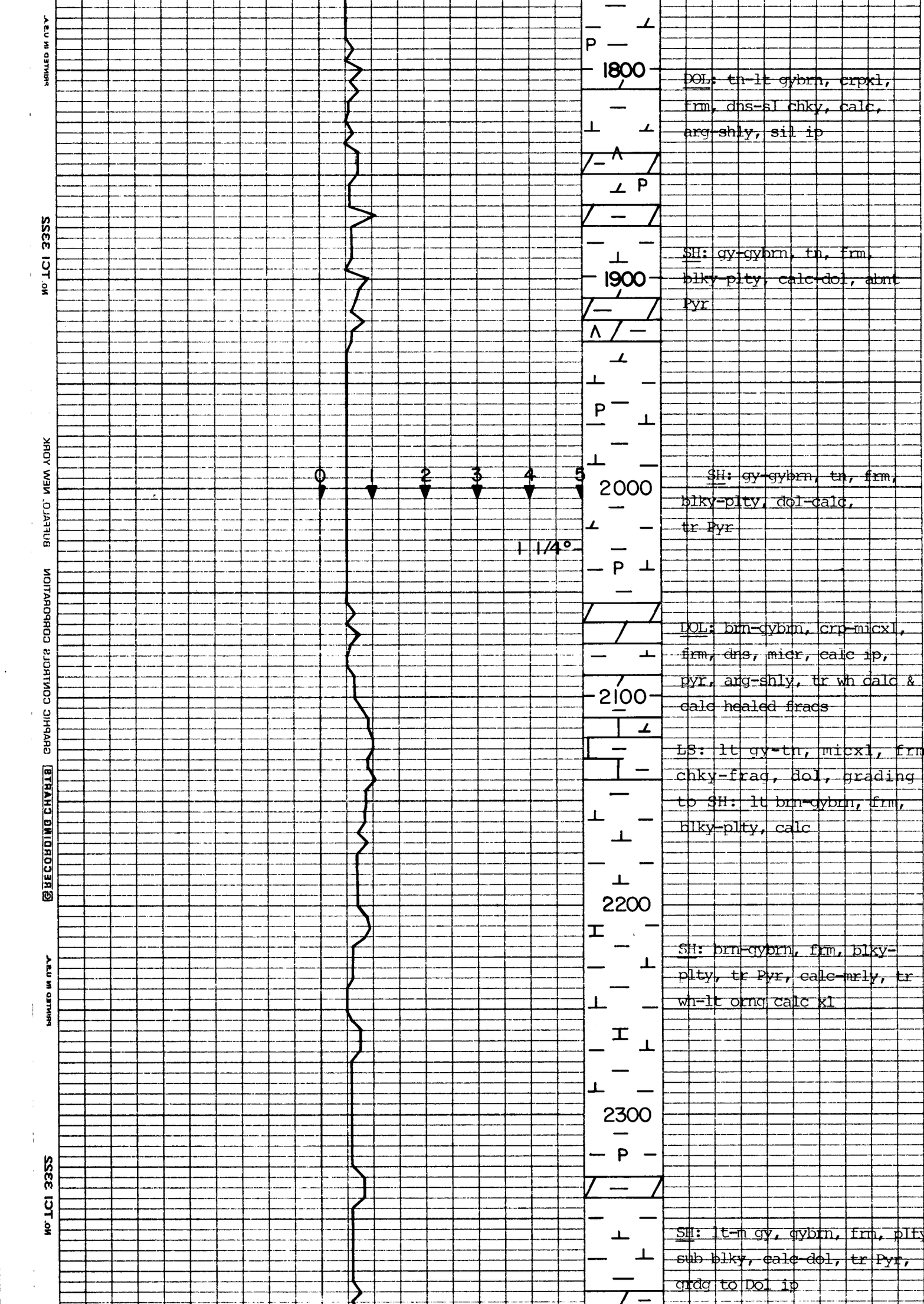
DOL: lt brn-gybrn, crpxl, frm, sl hd & sil ip, dns-sl chky, calc ip, Pyr, v arg

P

1700

SH: lt gy-tn, frm, blky-plty, calc-dol, tr Pyr

P



DOL: tn-lt gybrn, crpxl, frm, dns-sl chky, calc, arg-shly, sil ip

SH: gy-gybrn, tn, frm, blky-plty, calc-dol, abnt Pyr

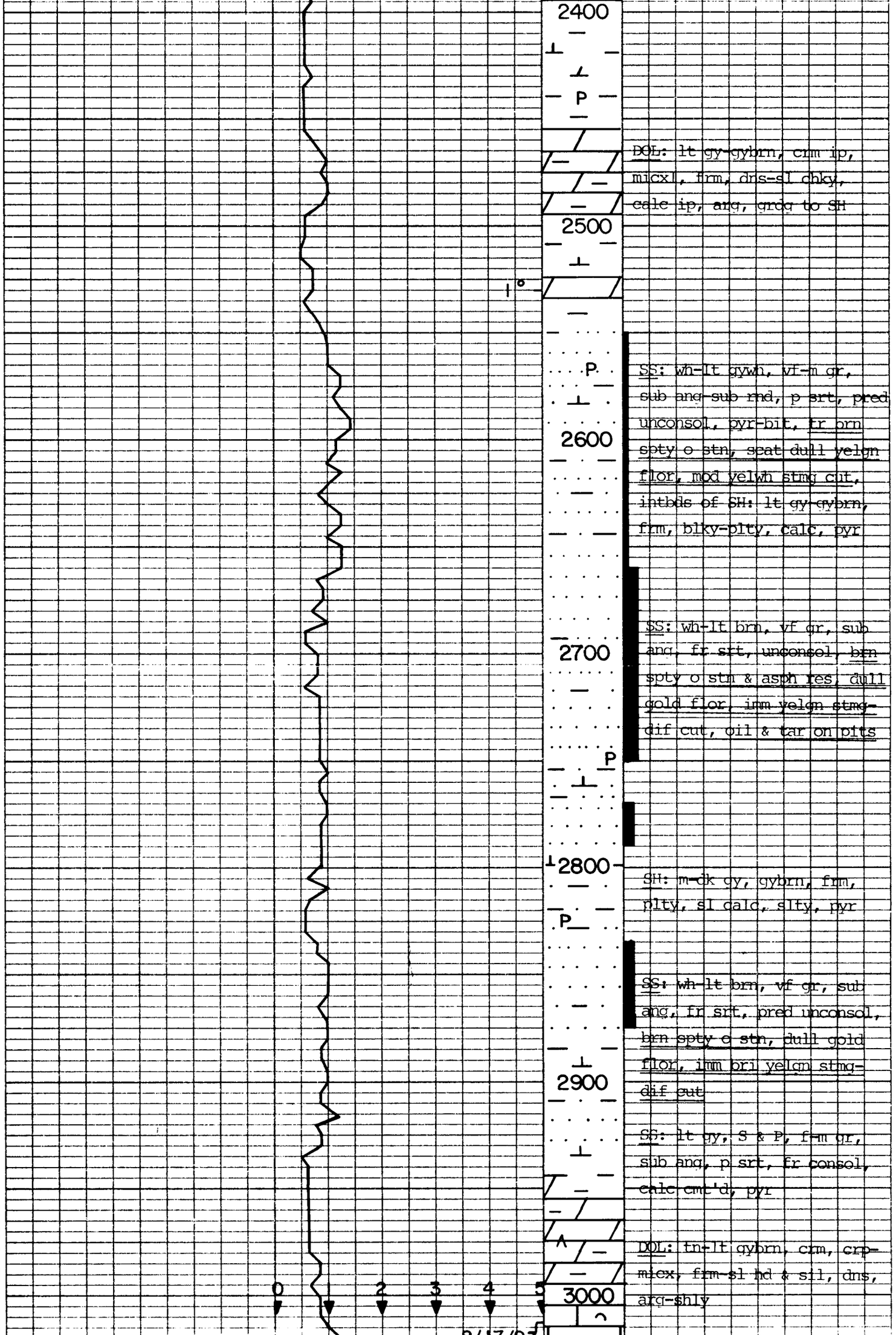
SH: gy-gybrn, tn, frm, blky-plty, dol-calc, tr Pyr

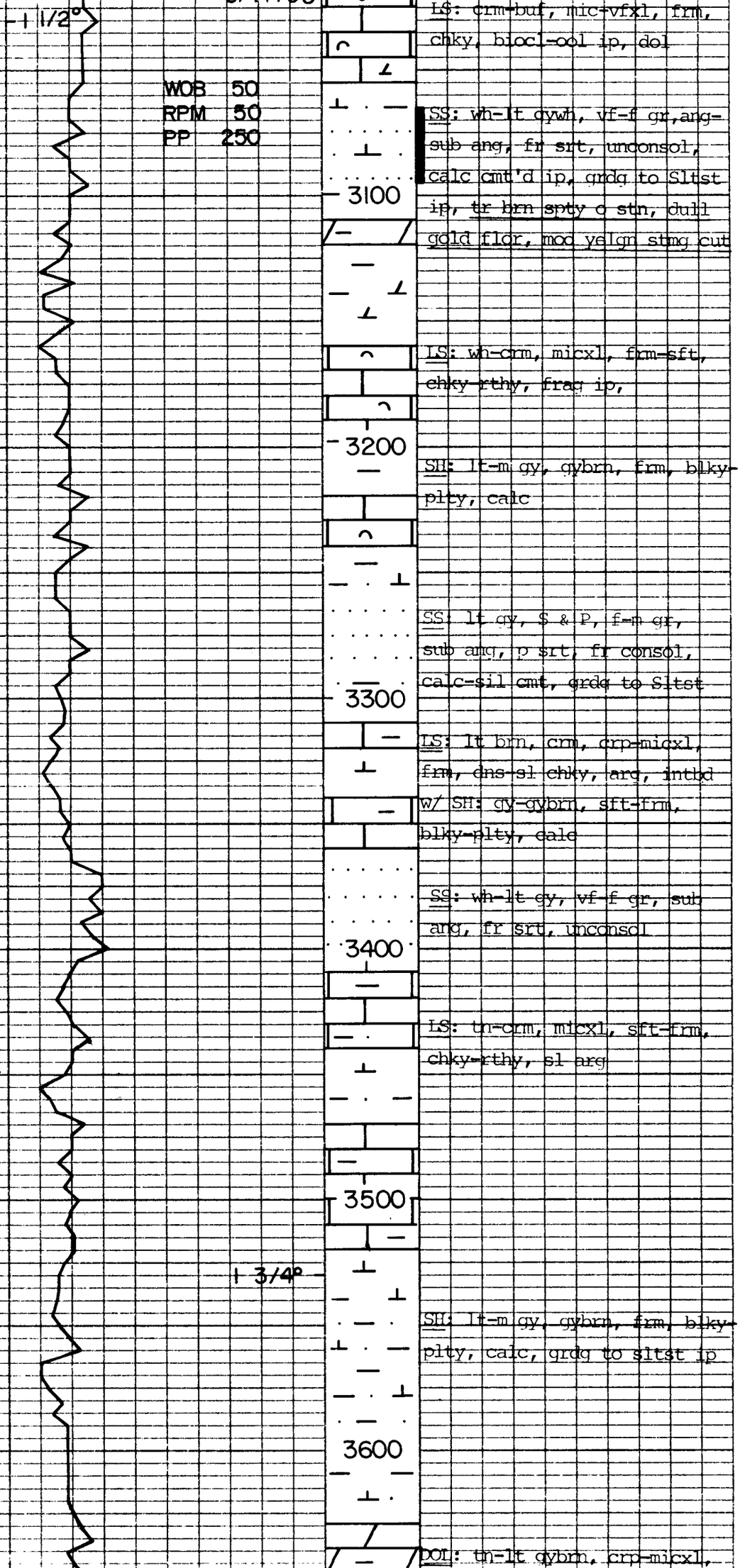
DOL: brn-gybrn, crp-micxl, frm, dns, micr, calc ip, pyr, arg-shly, tr wh calc & calc healed frads

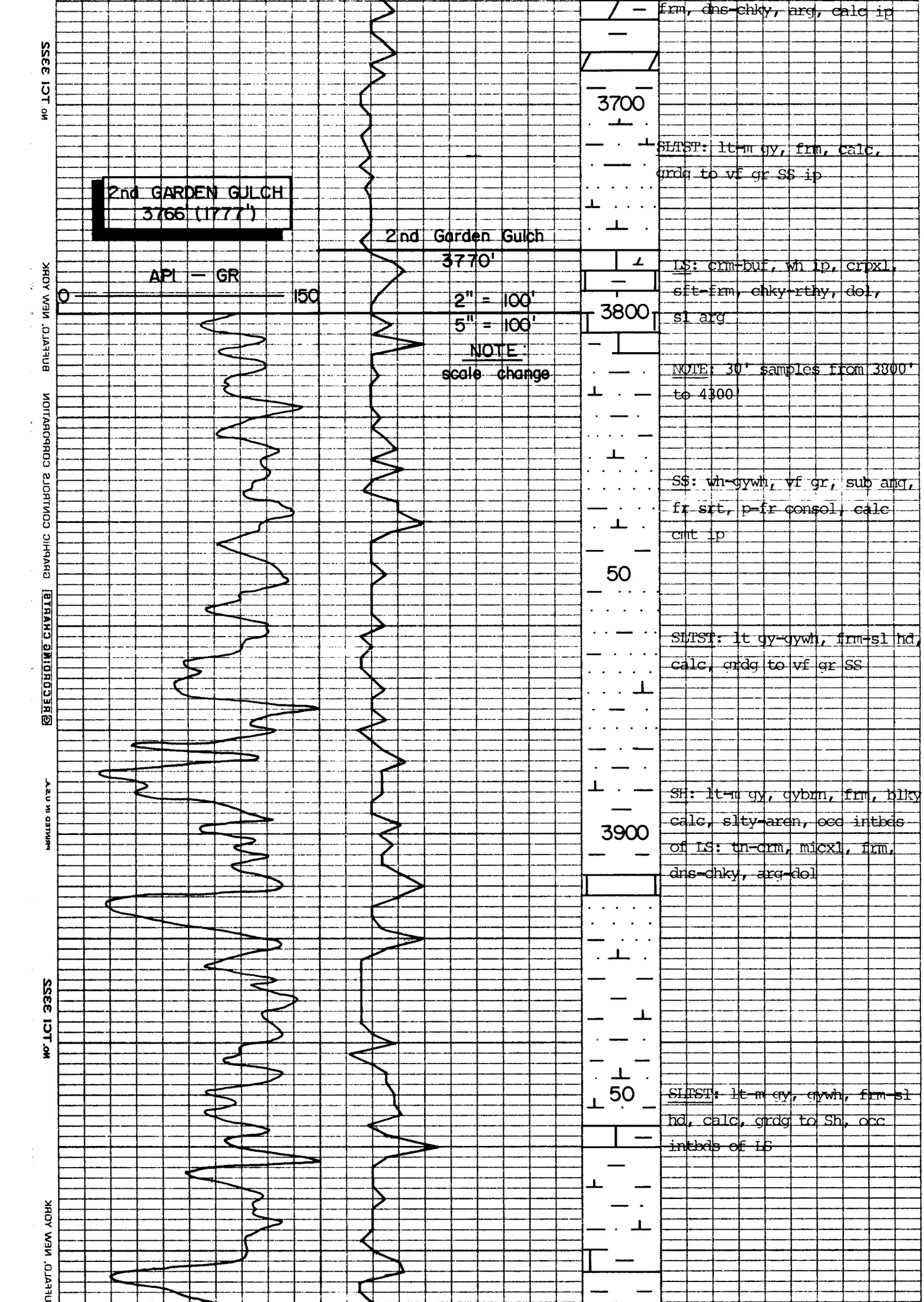
LS: lt gy-tn, micxl, frm, chky-frac, dol, grading to SH: lt brn-gybrn, frm, blky-plty, calc

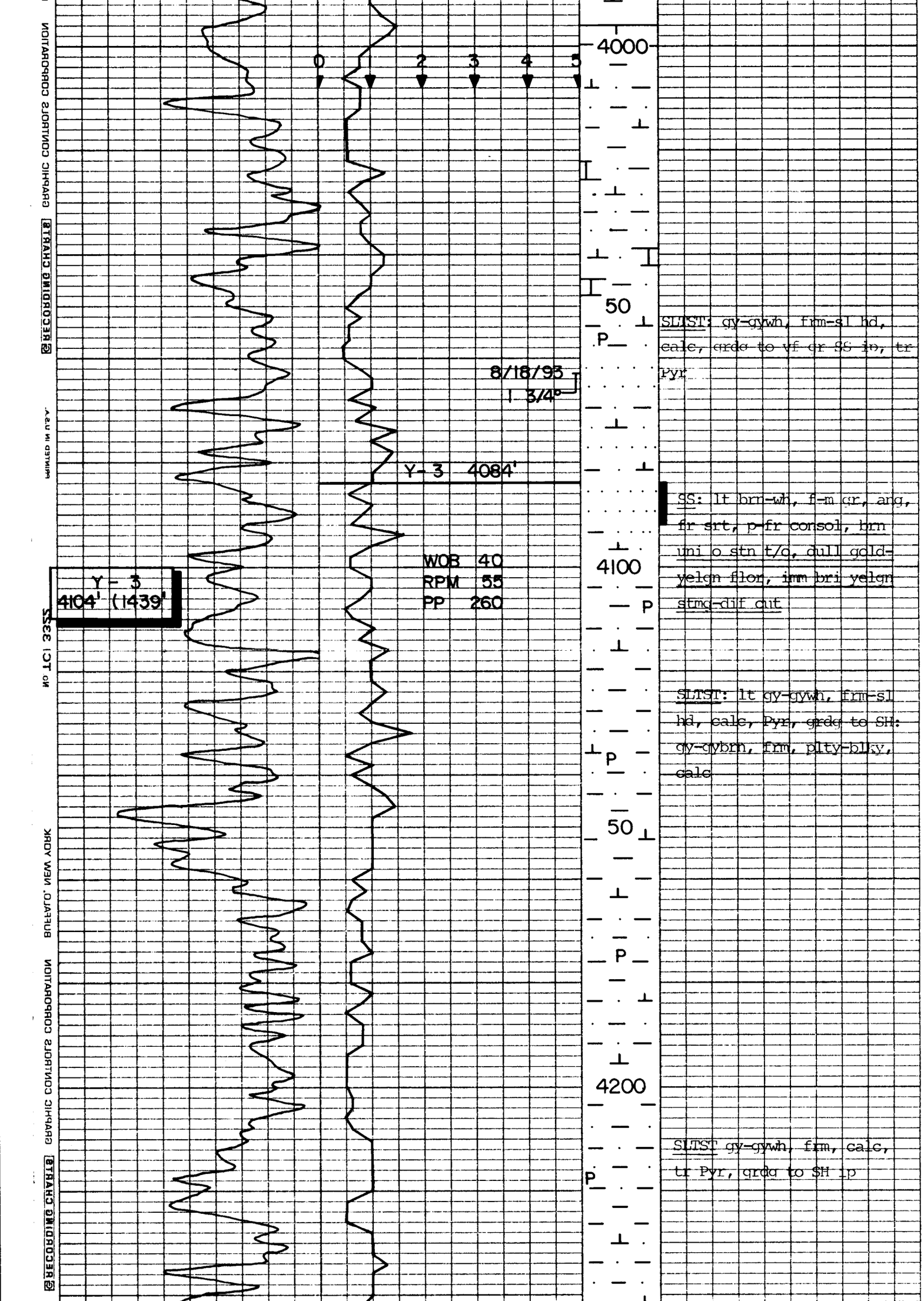
SH: brn-gybrn, frm, blky-plty, tr Pyr, calc-mrly, tr wh-lt orng calc xl

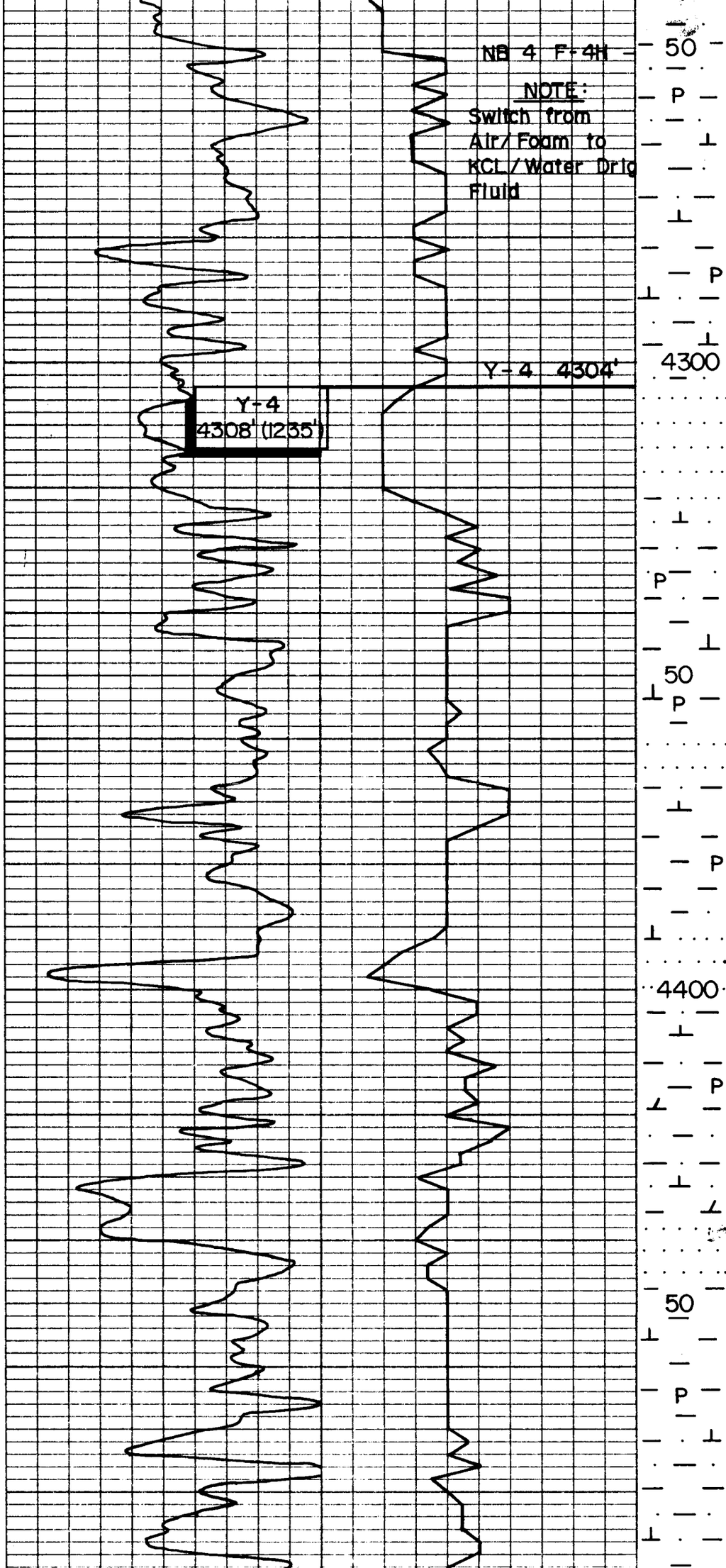
SH: lt-m gy, gybrn, frm, plty-sub blky, calc-dol, tr Pyr, grdg to Dol ip






2nd GARDEN GULCH
3766 (1777')
2nd Garden Gulch
3770'
API — GR
0
150
2" = 100'
5" = 100'
NOTE:
scale change
3700
3800
3900
50
50
frm, dns-chky, arg, calc ip
SLTST: lt-m gy, frm, calc, grdg to vf gr SS ip
LS: crm-buf, wh ip, crpxl, sft-frm, chky-rthy, dol, sl arg
NOTE: 30' samples from 3800' to 4300'
SS: wh-gywh, vf gr, sub ang, fr srt, p-fr consol, calc cmt ip
SLTST: lt gy-gywh, frm-sl hd, calc, grdg to vf gr SS
SH: lt-m gy, gybrn, frm, blky, calc, slty-aren, occ intbds of LS: tn-crm, micxl, frm, dns-chky, arg-dol
SLTST: lt-m gy, gywh, frm-sl hd, calc, grdg to Sh, occ intbds of LS


0
1
2
3
4
5
4000
50
4100
50
4200
8/18/93
1 3/4°
Y-3 4084'
WOB 40
RPM 55
PP 260
Y-3
4104' (1439'
SLTST: gy-gywh, frm-sl hd, calc, grdg to vf gr SS in, tr Pyr
SS: lt brn-wh, f-m gr, ang, fr srt, p-fr consol, brn uni o stn t/o, dull gold-yelgn flor, imm bri yelgn strmg-dif cut
SLTST: lt gy-gywh, frm-sl hd, calc, Pyr, grdg to SH: gy-gybrn, frm, plty-blky, calc
SLTST gy-gywh, frm, calc, tr Pyr, grdg to SH ip
P
RECORDED BY STRATA CHART
GRAPHIC CONTROLS CORPORATION BUFFALO, NEW YORK
MADE IN U.S.A.
No. ICI 3333



SH: lt-m gy, gybrn, frm, blky-plty, calc, pyr, grdg to SLTST: lt gy, frm, calc, sndy ip, very poor samples, abnt uphole cvgs after trip and mudding up

SS: wh, S & P, f-m gr, ang-sub ang, p srt, fr consol, calc cmt, tr brn spty o stn, bri yelgn flor, imm bri yelgn stmg cut

SH: gybrn-brn, frm, blky-plty, slty, tr pyr

SS: wh-lt gy, S & P, f-m gr, ang-sub ang, p srt, fr consol, calc cmt, tt

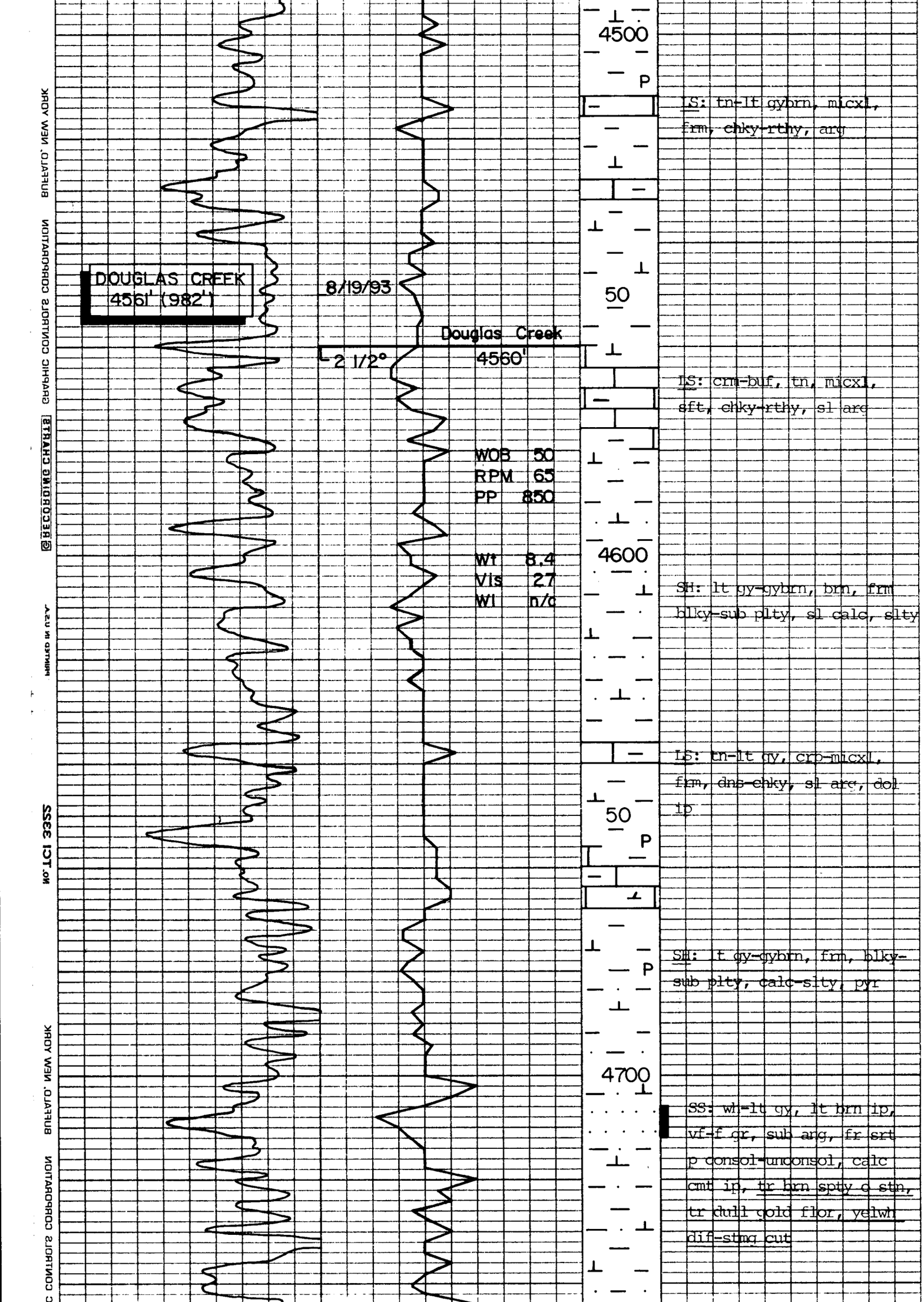
SH: lt-m gy, frm, blky, calc, tr Pyr, slty & grdg to SLTST

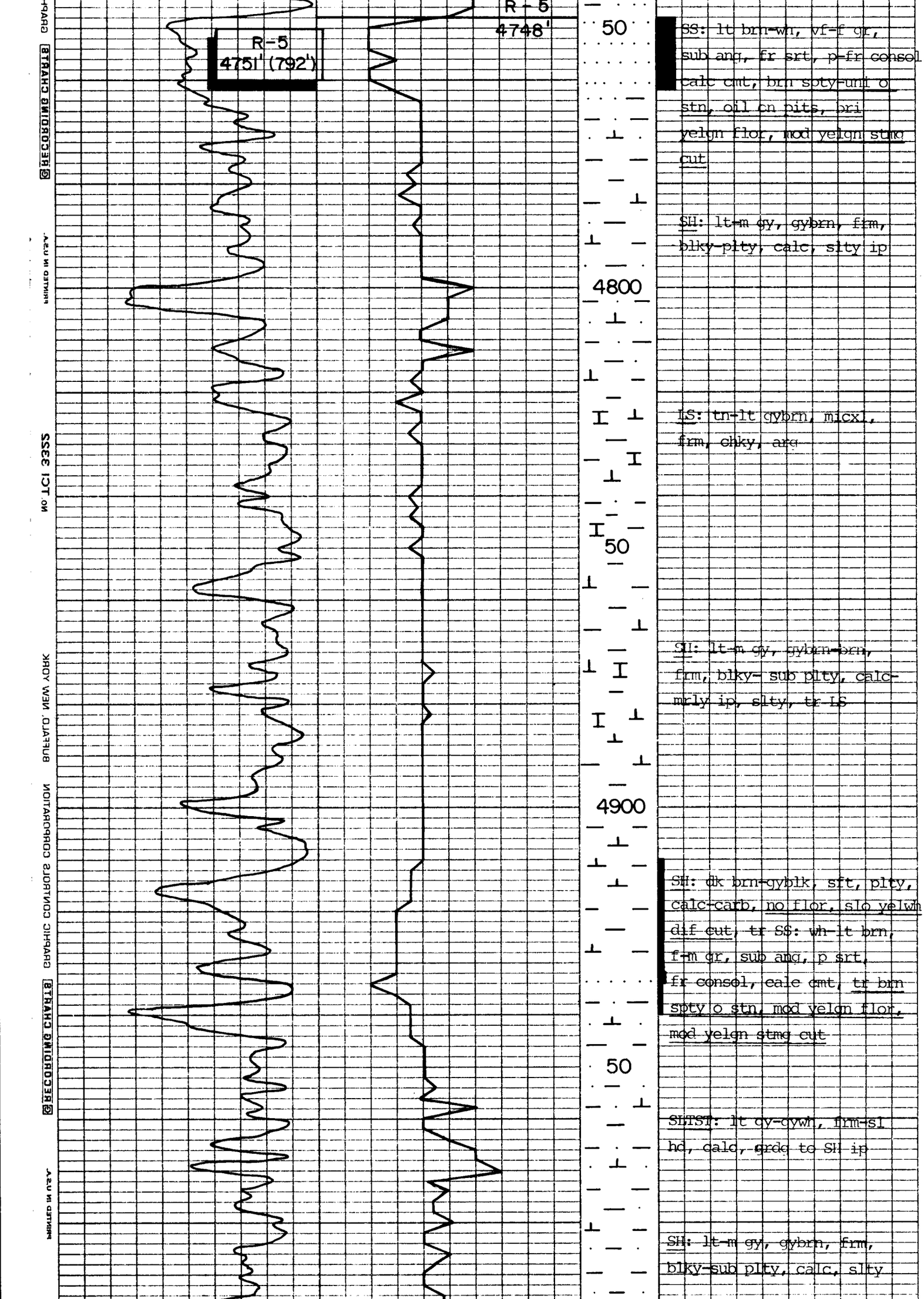
SS: wh-lt gy, f-m gr, ang-sub ang, p srt, fr consol, calc cmt, tt

SH: gybrn-brn, frm, blky-plty, calc-dol, slty

SS: gy-wh, brn ip, f-m gr, ang-sub ang, p srt, fr consol, calc cmt, brn spty o stn, dull gold flor, mod yelgn stmg cut

SH: gy-gybrn, frm, blky-plty, calc, slty ip, tr Pyr


DOUGLAS CREEK
4561' (982')
8/19/93
Douglas Creek
4560'
2 1/2°
WOB 50
RPM 65
PP 850
Wt 8.4
Vis 27
Wl n/c
4500
50
4600
50
4700
LS: tn-lt gybrn, micxl, frm, chky-rthy, arg
LS: crm-buf, tn, micxl, sft, chky-rthy, sl arg
SH: lt gy-gybrn, brn, frm blky-sub plty, sl calc, slty
LS: tn-lt gy, cpd-micxl, frm, dns-chky, sl arg, dol ip
SH: lt gy-gybrn, frm, blky-sub plty, calc-slty, pyr
SS: wh-lt gy, lt brn ip, vf-f gr, sub ang, fr srt p consol-unconsol, calc cmt ip, tr brn spty o stn, tr dull gold flor, yelwh dif-stmg cut
RECORDING CHART
GRAPHIC CONTROLS CORPORATION BUFFALO, NEW YORK
MOTCI 3SSE



SS: lt brn-wh, vf-f gr, sub ang, fr srt, p-fr consol, calc cmt, brn spty-unif o stn, oil cn pits, bri yelgn flor, mod yelgn stmg cut

SH: lt-m gy, gybrn, frm, blky-plty, calc, slty ip

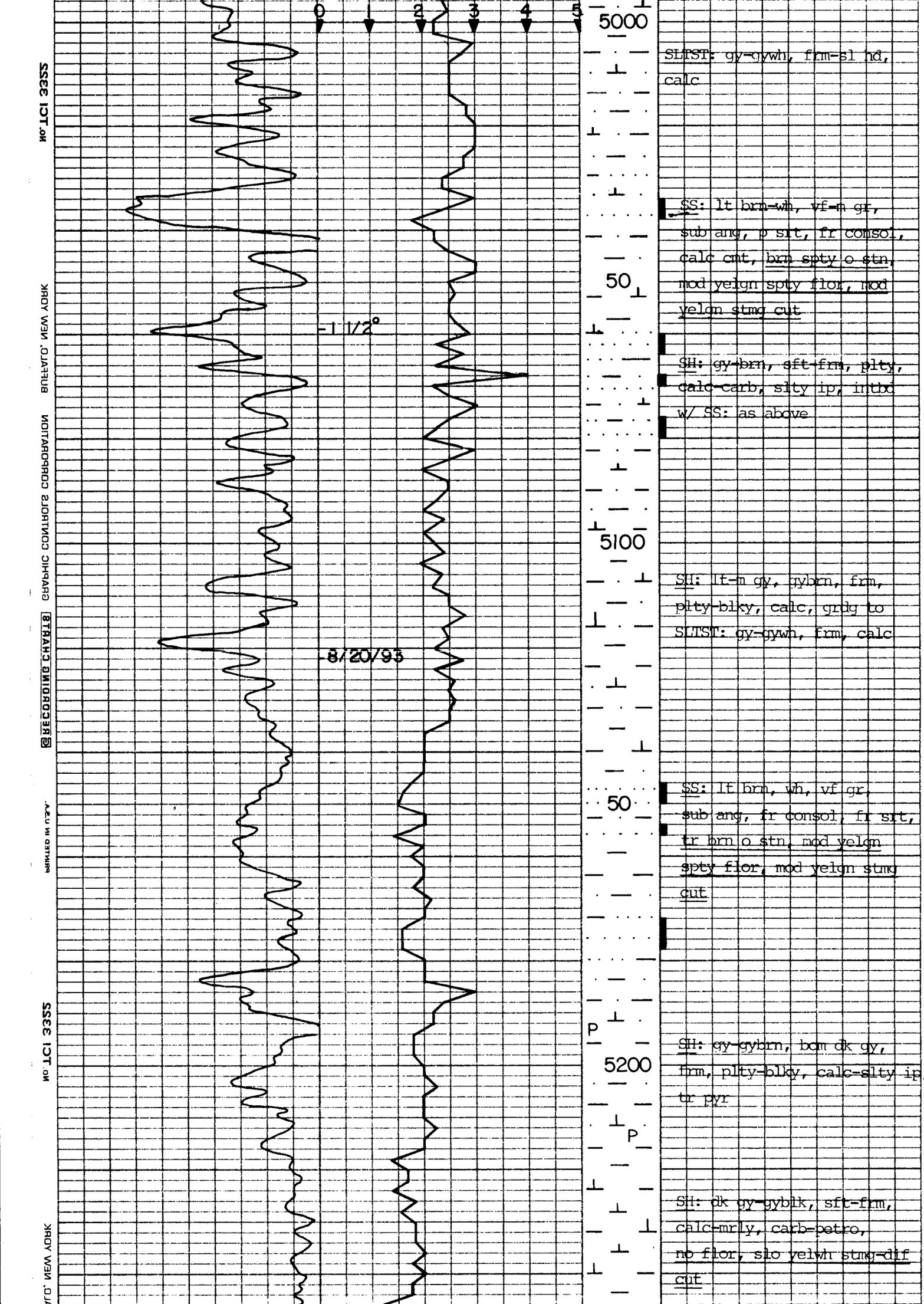
LS: tn-lt gybrn, micxl, frm, chky, arg

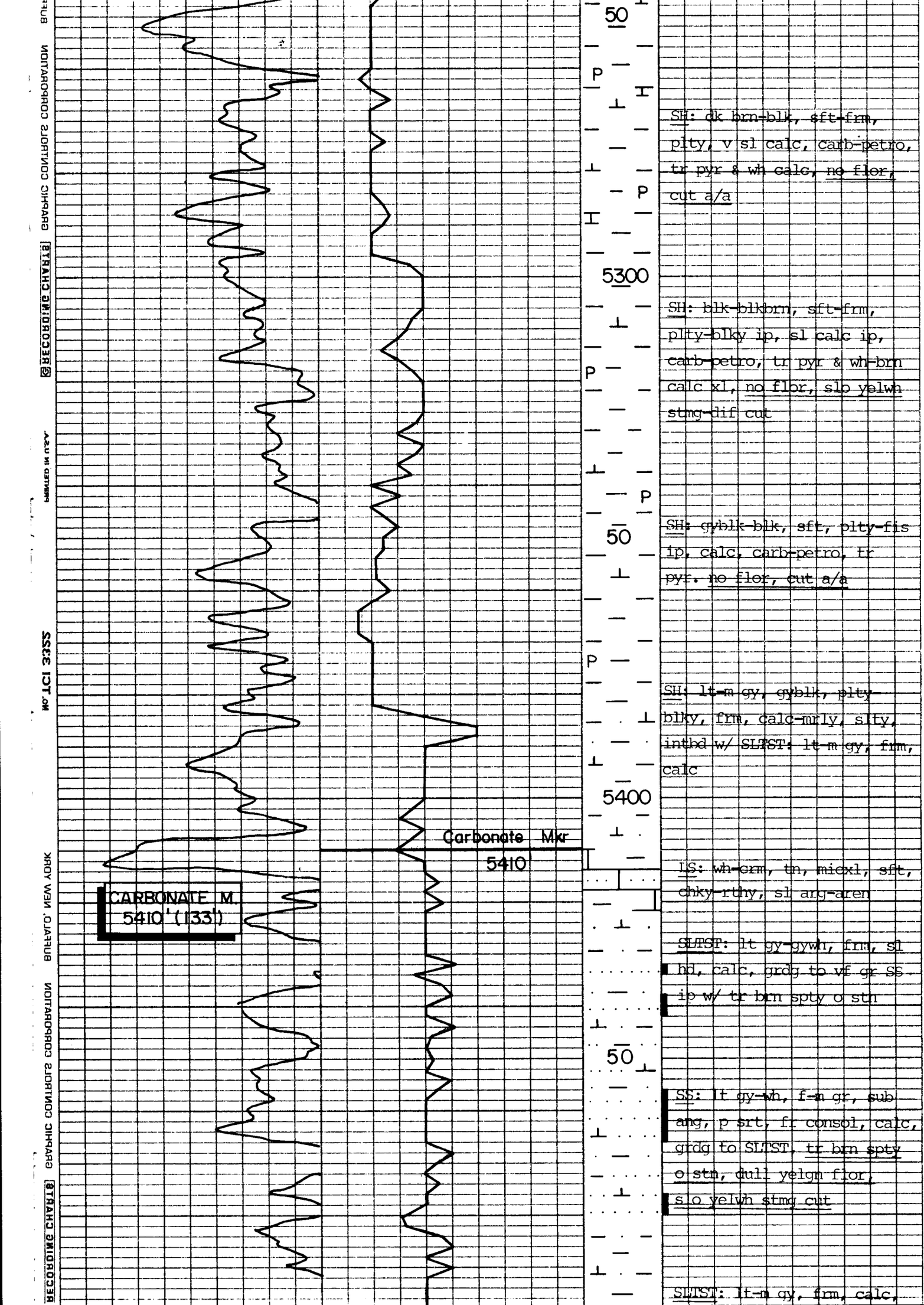
SH: lt-m gy, gybrn-brn, frm, blky- sub plty, calc-mrly ip, slty, tr LS

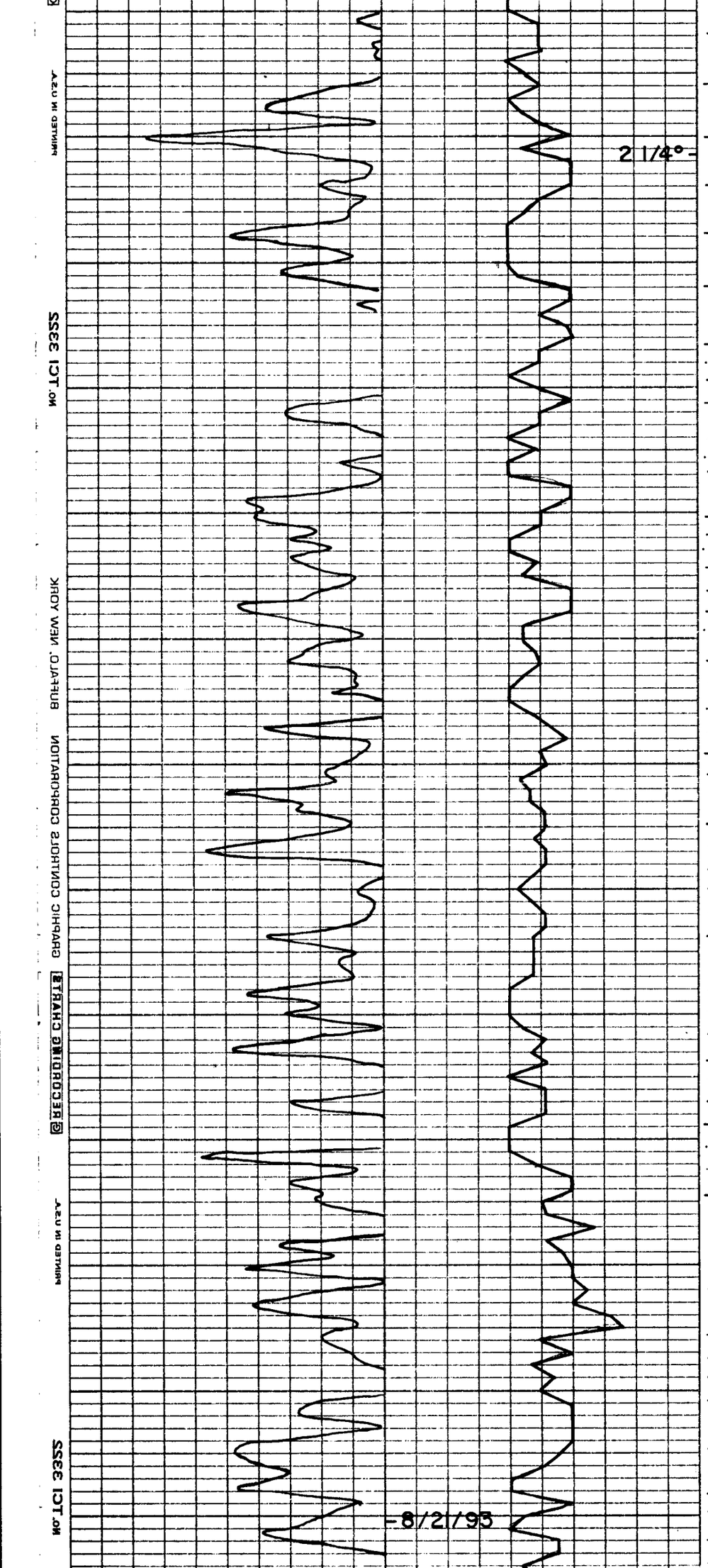
SH: dk brn-gyblk, sft, plty, calc-carb, no flor, slo yelwh dif cut, tr SS: wh-lt brn, f-m gr, sub ang, p srt, fr consol, calc cmt, tr brn spty o stn, mod yelgn flor, mod yelgn stmg cut

SLTST: lt gy-gywh, frm-sl hd, calc, grdg to SH ip

SH: lt-m gy, gybrn, frm, blky-sub plty, calc, slty


0
2
3
4
5
5000
50
-1 1/2°
5100
8/20/93
50
P
5200
P
SLTST: gy-gywh, frm-sl hd, calc
SS: lt brn-wh, vf-m gr, sub ang, p srt, fr consol, calc cmt, brn spty o stn, mod yelgn spty flor, mod yelgn stmg cut
SH: gy-brn, sft-frm, plty, calc-carb, slty ip, intbd w/ SS: as above
SH: lt-m gy, gybrn, frm, plty-blky, calc, grdg to SLTST: gy-gywh, frm, calc
SS: lt brn, wh, vf gr, sub ang, fr consol, fr srt, tr brn o stn, mod yelgn spty flor, mod yelgn stmg cut
SH: gy-gybrn, bcm dk gy, frm, plty-blky, calc-slty ip, tr pyr
SH: dk gy-gyblk, sft-frm, calc-mrly, carb-petro, no flor, slo yelwh stmg-dif cut
RECORDING CHART
GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
NO. 1C1 3SSE


CARBONATE M.
5410' (133')
Carbonate Mkr
5410'
50
P
H
5300
50
50
5400
SH: dk brn-blk, sft-frm, plty, v sl calc, carb-petro, tr pyr & wh calc, no flor, cut a/a
SH: blk-blkbrn, sft-frm, plty-blky ip, sl calc ip, carb-petro, tr pyr & wh-brn calc xl, no flor, slo yelwh stmg-dif cut
SH: gyblk-blk, sft, plty-fis ip, calc, carb-petro, tr pyr, no flor, cut a/a
SH: lt-m gy, gyblk, plty-blky, frm, calc-mrly, slty, inthd w/ SLTST: lt-m gy, frm, calc
LS: wh-crm, tn, micxl, sft, chky-rthy, sl arg-aren
SLTST: lt gy-gywh, frm, sl hd, calc, grdg to vf gr SS ip w/ tr brn spty o stn
SS: lt gy-wh, f-m gr, sub ang, p srt, fr consol, calc, grdg to SLTST, tr brn spty o stn, dull yelgn flor, slo yelwh stmg cut
SLTST: lt-m gy, frm, calc,



intbds of SH: gy-gybrn, frm, blky, calc, tr pyr

SH: dk gy-blkbrn, sft, plty, calc-nrly, carb, tr pyr

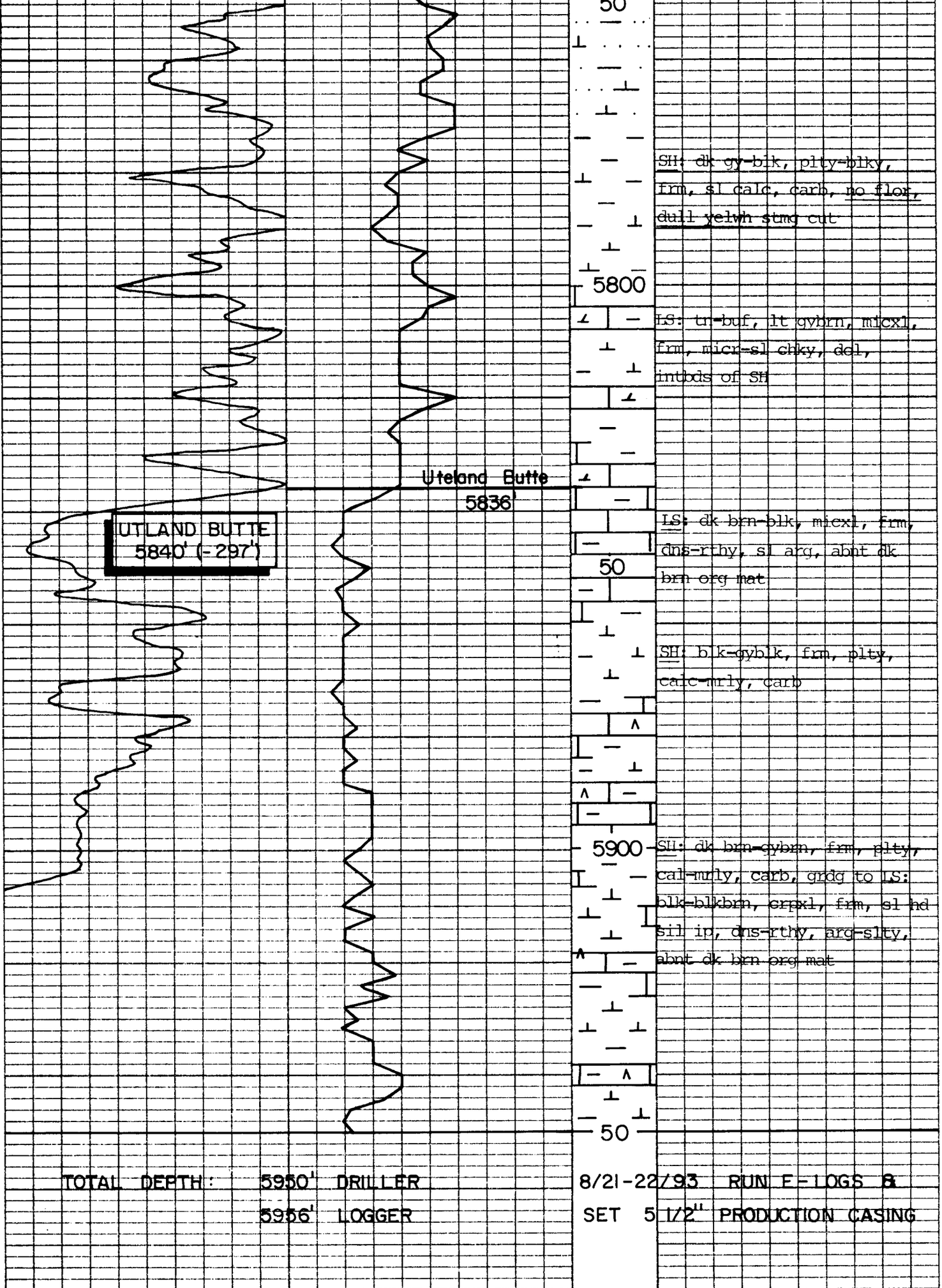
SLTST: lt-m gy, gywh, frm-sl hd, calc, grdg to vf gr SS

SS: wh-lt gy, f-m gr, sub ang, p srt, fr consol, calc cmt, tt

SLTST: lt-m gy, frm-sl hd, calc

SH: lt-m gy, gybrn, frm, blky-plty, calc-nrly, slty

SS: wh-lt gy, f-m gr, sub ang-sub rnd, p srt, p consol-unconsol, grdg to SLTST



TOTAL DEPTH: 5950' DRILLER
5956' LOGGER

8/21-22/93 RUN E-LOGS &
SET 5 1/2" PRODUCTION CASING

BALCRON OIL COMPANY

BALCRON FEDERAL #21-13Y

NE NW SECTION 13, T9S, R16E

DUCHESNE COUNTY, UTAH

BALCRON OIL COMPANY

BALCRON FEDERAL #21-13Y

NE NW SECTION 13, T9S, R16E

DUCHESNE COUNTY, UTAH

43-013-31400

CONFIDENTIAL

Prepared by:

Roy L. Clement
c/o Clement Consulting
7703 Clark Avenue
Billings, Montana 59106
(406) 656-9514

Prepared for:

Keven K. Reinschmidt &
Steve VanDelinder
c/o Balcron Oil Company
Post Office Box 21017
Billings, MT 59104
(406) 259-7860

3800' to 4300'; 20' samples from 4300' to 5950' (TD). All samples lagged and caught by mud loggers. One dry set of samples sent to the state of Utah.

HOLE SIZE: 12 1/4" to 275'
7 7/8" to TD

CASING: 8 5/8" surface casing set at 259'
5 1/2" production casing to Total Depth

DRILL STEM TEST: None

CORE PROGRAM: None

ELECTRIC LOGGING PROGRAM: 1.) DLL//GR/CAL from 5941' - 260'
2.) LDT/CNL/GR/CAL from 5941' - 2400'

LOG TOPS: Green River @ 1492'; Second Garden Gulch @ 3766'; Y-3 @ 4104'; Y-4 @ 4308'; Douglas Creek @ 4561; R-5 @ 4751'; Carbonate Marker @ 5410'; Uteland Butte @ 5840; TD @ 5956'.

LOGGING COMPANY: Schlumberger
LOGGING ENGINEER: Jeff Gebhart

CORRELATION WELL: 1.) G. S. Campbell Et Al
Government C&O #4
Ne Sw Section 12, T9S, R16E

DISTRIBUTION LIST: Balcron Oil Company
Attn: Keven K. Reinschmidt & Steve W. VanDelinder
Post Office Box 21017
Billings, MT 59104

Balcron Oil Company
Attn: Dale Griffen
275-CO.RD-120
Craig, CO 81625

Yates Petroleum Corporation
Attn: Mark Mauritsen
105 South Fourth Street
Artesia, NM 88210

Bureau of Land Management
Vernal District Office
170 South 500 East
Vernal, UT 84078

State of Utah
Division of Oil, Gas, and Mining
355 W. North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180

WELL DATA SUMMARY

OPERATOR:	BALCRON OIL COMPANY
ADDRESS:	Post Office Box 21017 Billings, Montana 59104
WELL NAME:	Balcron Federal #21-13Y
FIELD:	Monument Butte
LOCATION:	703' FNL & 1830' FWL NE NW SECTION 13, T9S, R16E
API#:	43-013-31400
COUNTY:	Duchesne
STATE:	Utah
BASIN:	Uinta
WELL TYPE:	Development Well and Potential Water Injection Well
BASIS OF PROSPECT:	Oil Production @ Monument Butte Field
ELEVATION:	**GL:** 5533' **SUB:** 10' **KB:** 5543'
SPUD DATE:	August 13, 1993 @ 1830 hrs MDT
TOTAL DEPTH/DATE:	5950' on August 21, 1993
TOTAL DRILLING DAYS:	8 **TOTAL ROTATING HOURS:** 150.00
STATUS OF WELL:	Cased for Completion on August 22, 1993
CONTRACTOR:	Union Drilling Company, Rig #17
TOOLPUSHER:	Dave Gray
FIELD SUPERVISOR:	Al Plunkett
MUD ENGINEER:	Craig Hart of Mustang Drilling Fluids
MUD TYPE:	Air/Foam from surface to 4251'; KCL/Fresh Water from 4251' to TD.
WELLSITE GEOLOGIST:	Roy L. Clement
PROSPECT GEOLOGISTS:	Keven K. Reinschmidt and Steve W. VanDelinder of Balcron Oil Company
MUDLOGGERS:	Larry Vodall and Scott Olson of Continental Labs
SAMPLING PROGRAM:	50' samples from 1400' to 3800'; 30' samples from

GEOLOGIC EVALUATION

The Balcron Federal #21-13Y was a development well drilled by Balcron Oil Company at Monument Butte Field. Located in the Uinta Basin of Utah, the field produces oil and gas from Tertiary age sediments in the Green River Formation. Numerous channel and deltaic sands in the Douglas Creek Member are the primary objectives. The #21-13Y attempts to establish production in the south central portion of Monument Butte Field.

The Balcron Federal #21-13Y was spudded on August 13, 1993 at a location in the NE NW of Section 13, T9S, R16E in Duchesne County, Utah. The well was drilled from under surface casing employing air and foam to a depth 4251', at which point the system was convert to KCL and fresh water. A total depth of 5950' was reached on August 21, 1993 and the #21-13Y was cased for completion on August 22, 1993. The well bore was evaluated by a well site geologist and two man mud logging unit in addition to a full suite of E-Logs.

Zones of Interest:

Sample and gas shows were noted from relatively shallow up hole sands beginning at 2660' through 2750'. A net total gas increase of 40 units occurred at 2660' to 2670', which chromatograph readings proved to contain methane, ethane, propane and traces of heavier gases. Abundant oil and tar were noted on the pits in association with this show. Samples were comprised of unconsolidated very fine grained sands with brown oil and asphaltic staining. Porosity logs indicate a 70' thick sand section from 2680' to 2750' averaging 17% cross-plotted porosity.

The Y-3 Sands were present at 4104' to 4116'. This interval was penetrated with a 40 unit total gas increase over a background of 40 units and was comprised entirely of methane. Samples indicated a fine to medium grained fairly consolidated Sandstone with brown uniform oil staining. Logs prove this zone to be silty or dirty with porosity ranging from 16 to 18% through the cleaner portions.

The Y-4 Sand occurred from 4308' to 4326' with porosity averaging 17% through this 18' thick section. A net total gas show of 546 units with the full range of gas components was recorded. Drill cuttings were comprised of fine to medium grained Sandstone with a trace of brown spotty oil stain.

The R-5 Sand was a 14' thick Sandstone section encountered from 4751' to 4765'. A significant gas increase of 820 units above a background of 10 units with C1 through NC4 gas components was detected from a poorly to fairly consolidated Sandstone with brown oil staining. Oil on the pits was also observed after penetrating this interval. Cross plotted porosity values range

from 14 to 16% through the R-5.

Drilling proceeded through the remainder of the Douglas Creek Member and Carbonate Marker to a total depth 116' below the Uteland Butte. No significant gas shows or porous Sandstone sections were encounter in either the Green or Blue zones. E-logs prove these intervals to be silty and/or tight.

Conclusions:

1.) Sample and gas shows indicate the R-5 and Y-4 zones have the best capacity for commercial oil production at the Balcron Federal #21-13Y. E-logs confirm the potential of these two Sandstone sections.

2.) Additional pay may be present in the Y-3 Sands and at 2680' to 2750'. Both intervals warrant further evaluation through production casing.

Respectfully submitted,

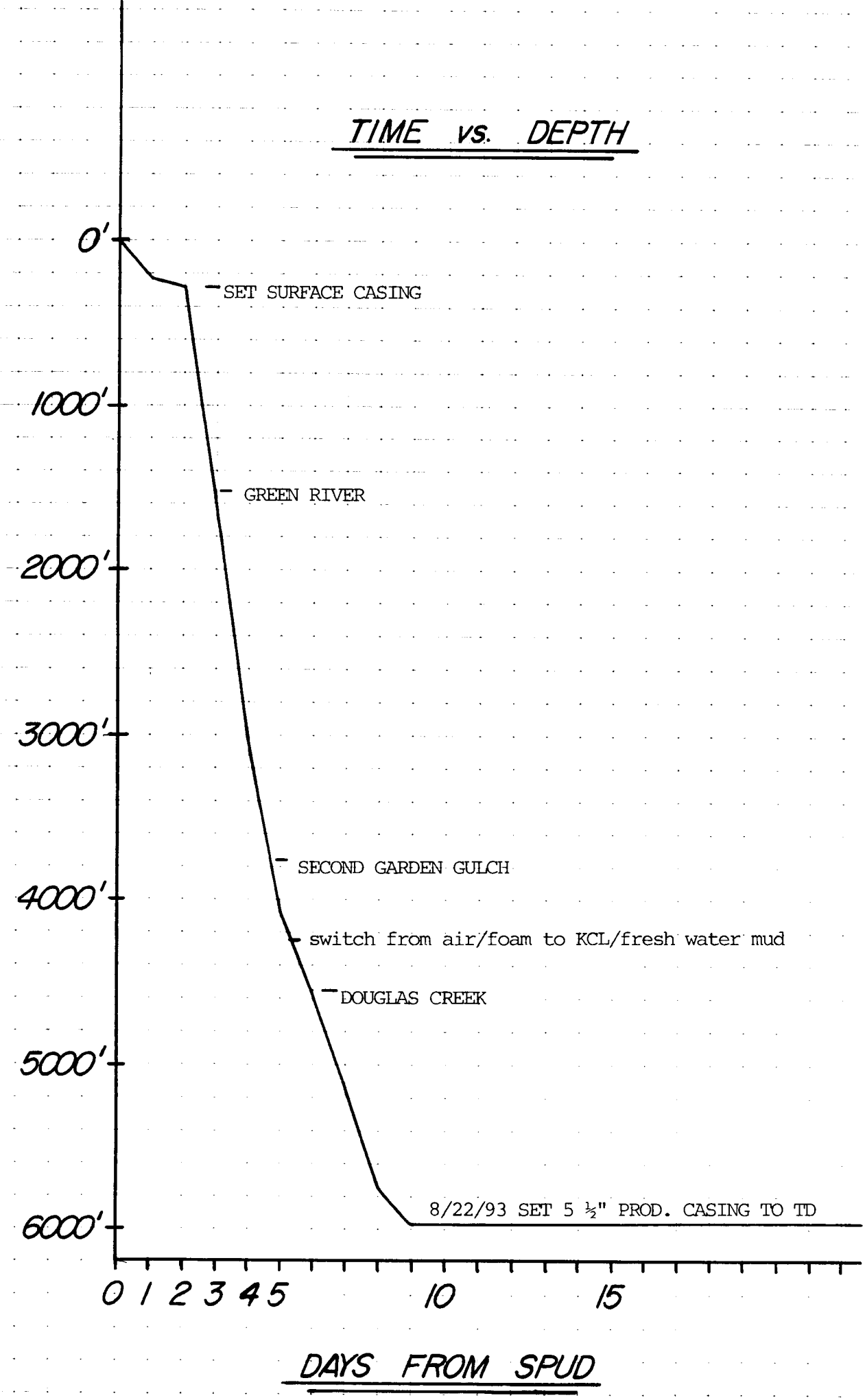
Roy L. Clement

Roy L. Clement
Wellsite Geologist

DAILY ACTIVITY

DAY	DATE	DEPTH	PROG	BIT	WOB	RPM	PP	WT*	VIS	WL	ACTIVITY	FORMATION
0	8/13/93	0'	0'	1	All	25	150	Air/Mist			Spud @ 1830 hours MDT	
1	8/14	231'	231'	1	6	10	200	8.4	27	n/c	Set Surface Casing	
2	8/15	275'	44'	2	45	45	150	8.4	27	n/c	Drill ahead	Uinta
3	8/16	1562'	1287'	2	45	50	200	8.3	27	n/c	Drill ahead	Green R.
4	8/17	3013'	1451'	2	50	50	250	8.4	27	n/c	Drill ahead	Green R.
5	8/18	4063'	1050'	2	40	55	260	8.4	27	n/c	Drill ahead	Green R.
6	8/19	4550'	487'	3	50	65	850	8.4	27	n/c	Trip for bit	Green R.
7	8/20	5122'	572'	3	50	65	875	8.4	27	n/c	Drill ahead	Douglas C.
8	8/21	5741'	619'	3	48	60	875	8.4	27	n/c	Drill to TD	Douglas C.
9	8/22	5950'	209'	-	--	--	---	Static	------		Run E-logs	Uteland B.

*Note: drilled with air and foam from under surface casing to 4251', switched to KCL and Fresh water from 4251' to TD.


TIME vs. DEPTH
0'
1000'
2000'
3000'
4000'
5000'
6000'
SET SURFACE CASING
GREEN RIVER
SECOND GARDEN GULCH
switch from air/foam to KCL/fresh water mud
DOUGLAS CREEK
8/22/93 SET 5 ½" PROD. CASING TO TD
0 1 2 3 4 5 10 15
DAYS FROM SPUD

BIT RECORD

CONTRACTOR: UNION DRILLING, RIG #17

SPUD: 8/13/93 **TOTAL DEPTH**: 8/21/93 **TOTAL ROTATING HOURS**: 150.00

BIT NO.	SIZE	TYPE/ MAKE	JETS SIZE	SERIAL #	DEPTH OUT	FEET	HOURS	ACCUM HOURS	WOB	RPM	DEV	PP	T	B	G
1	12 1/4	IR FB	open	9009391	275'	247'	8.5	8.5	6	10	-	200	-	-	-
2	7 7/8	HTC ATJ-44	24 24 24	X52PG	4251'	3976'	88.25	96.75	50	55	-	260	7	2	I
3	7 7/8	STC F-4H	13 13 13	KV8802	5950'	1699'	53.25	150.00	50	65	1.5^0	875	4	2	I

DEVIATION SURVEYS

DEPTH	DEVIATION
300'	3/4°
597'	1/2°
1050'	1 1/4°
1530'	1 1/4°
2030'	1 1/4°
2530'	1°
3030'	1 1/2°
3530'	1 3/4°
4063'	1 3/4°
4560'	2 1/2°
5059'	1 1/2°
5523'	2 1/4°
5950'	1 1/2°

FORMATION TOPS AND STRUCTURAL RELATIONSHIPS

SUBJECT WELL: Balcron Federal #21-13Y; NE NW Sec 13, T9S, R16E KB: 5543'
OFFSET #1: Gov't C&O #4; NE SW Sec 12, T9S, R16E KB: 5462'

AGE and FORMATION	PROG	SAMPLE	E-LOG	DATUM	THICK	DIP TO OFFSET #1
TERTIARY						
Uinta	Surface					
Green River	1456'	1465'	1492'	4051'	2274'	+ 67'
2nd Garden Gulch	3777'	3770'	3766'	1777'	338'	+103'
Y-3	4095	4084'	4104'	1439'	16'	+ 83'
Y-4	4315'	4304'	4308'	1235'	18'	+ 99'
Douglas Creek	4567'	4560'	4561'	982'	149'	+ 98'
R-5	4737'	4748'	4751'	792'	14'	+ 78'
G-1	4900'	Absent	----	----	----	----
G-4	5097'	Absent	----	----	----	----
Carbonate Mkr.	5412'	5410'	5410'	133'	430'	NDE
Uteland Butte	----	5836'	5840'	-297'	----	NDE

REFERENCE WELL

G. S. Cambell ETAL
GOVERNMENT C&O #4
NE SW SEC 12, T9S, R16E
KB: 5462'

AGE and FORMATION	DEPTH	DATUM	THICK
TERTIARY			
Uinta	Surface		
Green River	1478'	3984'	2310'
2nd Garden Gulch	3788'	1674'	318'
Y-3	4106'	1356'	10'
Y-4	4326'	1136'	13'
Douglas Creek	4578'	884'	170'
R-5	4748'	714'	28'
G-1	4911'	551'	15'
G-4	5108'	354'	30

LITHOLOGY

Sampling Program: 50' samples were taken beginning at 1400' with 30' samples were taken from 3800' to total depth. All samples were lagged and caught by mud loggers. Descriptions begin at 1400' in the lower Uinta formation. Sample quality was fair unless noted otherwise.

1400' - 1450'	Sandstone:	white, salt and peppered, fine to medium grained, angular, poorly sorted, predominantly unconsolidated, micaceous, interbedded with
	Shale:	light brown to graybrown, firm, blocky

Sample Top: Green River Formation @ 1450'

1450' - 1550'	Dolomite	tan to light graybrown, cryptocrystalline, firm, dense, calcareous in part, very argillaceous, grading to
	Shale:	light graybrown to brown, firm, blocky to sub platy, calcareous
1550' - 1750'	Dolomite:	light brown to graybrown, cryptocrystalline, firm, slightly hard and siliceous in part, dense to slightly chalky, calcareous in part, pyritic, very argillaceous, interbedded with
	Shale:	light gray to tan, firm, blocky to platy, calcareous to dolomitic, trace Pyrite
1750' - 1900'	Shale:	gray to graybrown, tan, firm, blocky to platy, calcareous to dolomitic, abundant Pyrite, grading to
	Dolomite:	tan to light graybrown, cryptocrystalline, firm, dense to slightly chalky, calcareous, argillaceous to shaly, siliceous in part
1900' - 2110'	Dolomite:	brown to graybrown, crypto to microcrystalline, firm, dense to micritic, calcareous in part, pyritic, argillaceous to shaly, trace white calcite and calcite healed fractures, interbedded with

	Shale:	gray to graybrown, tan, firm, blocky to platy, dolomitic to calcareous, trace Pyrite
2110' - 2150'	Limestone:	light gray to tan, microcrystalline, firm, chalky to fragmental, argillaceous, dolomitic, grading to
	Shale:	light brown to graybrown, firm, blocky to platy, calcareous
2150' - 2300'	Shale:	brown to graybrown, firm, blocky to platy, trace Pyrite, calcareous to marly, trace white to light orange calcite crystals
2300' - 2450'	Shale:	light to medium gray, graybrown, firm, platy to sub blocky, calcareous to dolomitic, trace Pyrite, grading to Dolomite in part
2450' - 2550'	Dolomite:	light gray to graybrown, cream in part, microcrystalline, firm, dense to slightly chalky, calcareous in part, argillaceous and grading to Shale: as above
2550' - 2660'	Sandstone:	white to light graywhite, very fine to medium grained, sub angular to sub rounded, poorly sorted, predominantly unconsolidated, Pyritic to Bituminous, trace brown spotty oil stain, scattered dull yellowgreen fluorescence, moderate yellowwhite streaming cut, interbedded with
	Shale:	light gray to graybrown, firm blocky to platy, calcareous, Pyritic
2660' - 2750'	Sandstone:	white to light brown, very fine grained, sub angular, fair sorting, unconsolidated, brown spotty oil stain and asphaltic residue, oil and tar on pits, dull gold fluorescence, immediate yellowgreen streaming to diffuse cut
2750' - 2840'	Shale:	medium to dark gray, graybrown, firm, platy, slightly calcareous, silty, Pyritic, interbeds of Sandstone: as above
2840' - 2940'	Sandstone:	light gray, salt & peppered, fine

		to medium gray, sub angular, poor sorting, fair consolidation and calcareous cemented, pyritic, interbeds of Shale: as above
2940' - 3000'	Dolomite:	tan to light graybrown, cream, crypto to microcrystalline, firm to slightly hard and siliceous, dense, argillaceous to shaly
3000' - 3050'	Limestone:	cream to buff, micro to very fine crystalline, firm, chalky, bioclastic to oolitic in part, dolomitic
3050' - 3100'	Sandstone:	white to light graywhite, very fine to fine grained, angular to sub angular, fair sorting, unconsolidated, calcareous cement in part, grading to Siltstone in part, trace brown spotty oil stain, dull gold fluorescence, moderate yellowgreen streaming cut
3100' - 3150'	Dolomite:	light to medium brown, graybrown, cryptocrystalline, firm to slightly hard and siliceous, dense, argillaceous, grading to Shale
3150' - 3250'	Limestone:	white to cream, microcrystalline, soft to firm, chalky to earthy, fragmental in part, interbedded with
	Shale:	light to medium gray, graybrown, firm, blocky to platy, calcareous
3250' - 3300'	Sandstone:	light gray, salt & peppered in part, fine to medium grained, sub angular, poorly sorted, fairly consolidated with calcareous to siliceous cement, grading to
	Siltstone:	light gray, firm, calcareous
3300' - 3365'	Limestone:	light brown, cream, crypto to microcrystalline, firm, dense to slightly chalky, argillaceous, interbeds of
	Shale:	gray to graybrown, soft to firm, blocky to platy, calcareous
3365' - 3400'	Sandstone:	white to light gray, very fine to fine grained, sub angular, fair sorting, unconsolidated

3400' - 3600'	Shale:	light to medium gray, graybrown, firm, blocky to platy, calcareous, grading to Siltstone in part, interbeds of
	Limestone:	tan to cream, microcrystalline, soft to firm, chalky to earthy, slightly argillaceous
3600' - 3700'	Dolomite:	tan to light graybrown, crypto to microcrystalline, firm, dense to chalky, argillaceous, calcareous in part, interbedded with
	Shale:	gray, brown to graybrown, firm, blocky to platy, calcareous to slightly silty
3700' - 3770'	Siltstone:	light to medium gray, firm, calcareous, grading to very fine grained Sandstone in part

Sample Top: Second Garden Gulch @ 3770'

3770' - 3806'	Limestone:	cream to buff, white in part, cryptocrystalline, soft to firm, chalky to earthy, dolomitic in part, argillaceous

Note: 30' samples beginning @ 3800'

3806' - 3880'	Siltstone:	light gray to graywhite, firm to slightly hard, calcareous, grading to
	Sandstone:	white to graywhite, very fine grained, sub angular, fair sorting, poor to fair consolidation with calcareous cement
3880' - 3930'	Shale:	light to medium gray, graybrown, firm, blocky, calcareous, silty to arenaceous, occasional interbeds of
	Limestone:	tan to cream, microcrystalline, firm, dense to chalky, argillaceous to dolomitic
3930' - 4050'	Siltstone:	light to medium gray, graywhite, firm to slightly hard, calcareous, grading to shale, occasional interbeds of Limestone: as above
4050' - 4084'	Siltstone:	gray to graywhite, firm to slightly hard, calcareous, grading to very fine grained sandstone in part, pyritic

Sample Top: Y-3 @ 4084'

4084' - 4092'	Sandstone:	light brown to white, fine to medium grained, angular, fair sorting, poor to fair consolidation, brown uniform oil stain through out, dull gold to yellowgreen fluorescence, immediate bright yellowgreen streaming to diffuse cut
4092' - 4251'	Siltstone:	light gray to graywhite, firm to slightly hard, calcareous, pyritic, grading to
	Shale:	gray to graybrown, firm, platy to blocky, calcareous

Note: Tripped for bit @ 4251' and switched from air & foam to KCL & fresh water drilling mud

4251' - 4320'	Shale:	light to medium gray, graybrown, firm, blocky to platy, calcareous, pyritic, grading to
	Siltstone:	light gray, firm, calcareous, sandy in part, very poor samples, abundant uphole cavings after trip

Note: 20' samples beginning @ 4300'

Sample Top: Y-4 @ 4304'

4304' - 4320'	Sandstone:	white, salt & peppered, fine to medium grained, angular to sub angular, poor sorting, fair consolidation, calcareous cement, trace brown spotty oil stain, bright yellowgreen fluorescence, immediate bright yellowgreen streaming cut
4320' - 4340'	Siltstone:	gray to graybrown, firm to slightly hard, calcareous
4340' - 4360'	Shale:	graybrown to brown, firm, blocky to platy, calcareous, silty, trace Pyrite
4360' - 4366'	Sandstone:	white to light gray, salt & peppered, fine to medium grained, angular to sub angular, poor sorting, fair consolidation, calcareous cement, tight
4366' - 4394'	Shale:	light to medium gray, firm, blocky,

		calcareous, trace Pyrite, silty and grading to siltstone
4394' - 4400'	Sandstone:	white to light gray, fine to medium grained, angular to sub angular, poor sorting, fair consolidation, calcareous cement, tight
4394' - 4436'	Shale:	graybrown to brown, firm, blocky to platy, calcareous to dolomitic, silty
4436' - 4446'	Sandstone:	gray to graywhite, brown in part, fine to medium grained, angular to sub rounded, poor sorting, fair consolidated, calcareous cement, brown spotty oil stain, dull gold fluorescence, moderate yellowgreen streaming cut
4446' - 4500'	Shale:	gray to graybrown, firm, blocky to platy, calcareous, silty in part, trace Pyrite
4500' - 4560'	Shale:	as above with occasional interbeds of
	Limestone:	tan to light gray brown, microcrystalline, firm, chalky to earthy, argillaceous

Sample Top: Douglas Creek @ 4560'

4560' - 4580'	Limestone:	cream to buff, tan, microcrystalline, soft, chalky to earthy, slightly argillaceous
4580' - 4636'	Shale:	light gray, graybrown to brown, firm, blocky to sub platy, slightly calcareous, silty
4636' - 4706'	Limestone:	tan to light gray, crypto to microcrystalline, firm, dense to chalky, slightly argillaceous, dolomitic in part, interbedded with
	Shale:	light gray to graybrown, firm, blocky to sub platy, calcareous to silty, pyritic
4706' - 4712'	Sandstone:	light gray to white, light brown in part, very fine to fine grained, sub angular, fair sorting, poorly consolidated to unconsolidated, calcareous cement in part, trace brown spotty oil stain & dull gold fluorescence, yellowwhite diffuse

		to streaming cut
4712' - 4748'	Shale:	light to medium gray, firm, platy to blocky, calcareous to silty
Sample Top: R-5 @ 4748'		
4748' - 4762'	Sandstone:	light brown to white, very fine to fine grained, sub angular, fair sorting, poor to fair consolidation, calcareous cement, brown spotty oil stain and oil on pits, bright yellowgreen fluorescence, moderate yellowgreen streaming cut
4762' - 4798'	Shale:	light to medium gray, graybrown, firm, blocky to platy, calcareous, silty in part
4798' - 4812'	Shale:	as above, grading to Siltstone
4812' - 4910'	Shale:	light to medium gray, graybrown to brown, firm, blocky to sub platy, calcareous to marly in part, silty, trace Limestone: tan to light graybrown, microcrystalline, firm, chalky, argillaceous
4910' - 4944'	Shale:	dark brown to grayblack, soft, platy, calcareous, carbonaceous, no fluorescence, slow yellowwhite streaming cut, trace Sandstone: white to light brown, fine to medium grained, sub angular, poor sorting, fair consolidation, calcareous cement, trace brown spotty oil stain, moderate yellowgreen fluorescence, moderate yellowgreen streaming cut
4944' - 4970'	Siltstone:	light gray to graywhite, firm to slightly hard, calcareous, grading to Shale in part
4970' - 5028'	Shale:	light to medium gray, graybrown, firm, blocky to sub platy, calcareous, grading to
	Siltstone:	gray to graywhite, firm to slightly hard, calcareous
5028' - 5044'	Sandstone:	light brown to white, very fine to medium grained, sub angular, poor sorting, fairly consolidated,

		calcareous cement, brown spotty oil stain, moderate yellowgreen spotty fluorescence, moderate yellowgreen streaming cut
5044' - 5060'	Shale:	gray to graybrown, soft to firm, platy, calcareous to carbonaceous, silty in part
5060' - 5080'	Sandstone:	white to light brown, fine to medium grained, sub angular, poor to fair sorting, fair consolidation, brown spotty oil stain, moderate yellowgreen spotty fluorescence, yellowgreen streaming cut, grading to Siltstone in part
5080' - 5134'	Shale:	light to medium gray, graybrown, firm, platy to blocky, calcareous, grading to
	Siltstone:	gray to graywhite, firm, calcareous
5134' - 5184'	Shale:	light to medium gray, graybrown, firm, platy to blocky, calcareous to silty, trace Sandstone: light brown to white, very fine grained, sub angular, fair consolidation, fair sorting, trace brown spotty oil stain, moderate yellowgreen spotty fluorescence, yellowgreen streaming cut
5184' - 5216'	Shale:	gray to graybrown, becoming dark gray, firm, platy to blocky, calcareous to silty in part, trace Pyrite
5216' - 5244'	Shale:	dark gray to grayblack, soft to firm, calcareous to marly, carbonaceous to petroliferous, no fluorescence, slow yellowwhite streaming to diffuse cut
5244' - 5296'	Shale:	dark brown to black, soft to firm, platy, very slightly calcareous, carbonaceous to petroliferous trace white calcite and pyrite, no fluorescence, cut as above
5296' - 5338'	Shale:	black to blackbrown, soft to firm, platy to blocky in part, slightly calcareous in part, trace pyrite and white to brown calcite crystals, carbonaceous to

		petroliferous, no fluorescence, slow yellowwhite streaming to diffuse cut
5338' - 5382'	Shale:	grayblack to black, soft, platy to fissile in part, calcareous, carbonaceous to petroliferous, trace pyrite, no fluorescence, cut as above
5382' - 5410'	Shale:	light to medium gray, grayblack, platy to blocky, firm, calcareous to marly, silty, interbeds of
	Siltstone:	light to medium gray, firm, calcareous

Sample Top: Carbonate Marker @ 5410'

5410' - 5420'	Limestone:	white to cream, tan, microcrystalline, soft, chalky to earthy, slightly argillaceous to arenaceous
5420' - 5456'	Siltstone:	light gray to graywhite, firm to slightly hard, calcareous, grading to very fine grained sandstone in part
5456' - 5482'	Sandstone:	light gray to white, fine to medium grained, sub angular, poor sorting, fair consolidation, calcareous cement, grading to Siltstone, trace brown oil stain, dull yellowgreen fluorescence, slow yellowwhite streaming cut
5482' - 5528'	Siltstone:	light to medium gray, firm, calcareous, interbeds of
	Shale:	gray to graybrown, firm, blocky, calcareous, trace pyrite
5528' - 5542'	Shale:	dark gray, blackbrown, soft, platy, calcareous to marly, carbonaceous, trace pyrite
5542' - 5596'	Siltstone:	light to medium gray, graywhite, firm to slightly hard, calcareous, grading to very fine grained sandstone in part, interbeds of Shale: as above
5596' - 5682'	Sandstone:	white to light gray, fine to medium grained, sub angular. poor sorting, fair consolidation, calcareous

		cement, tight, grading to
	Siltstone:	light to medium gray, firm to slightly hard, calcareous
5682' - 5710'	Siltstone:	gray to graywhite, firm to slightly hard, calcareous, interbeds of
	Shale:	light to medium gray, graybrown, firm, blocky to platy, calcareous to marly
5710' - 5772'	Sandstone:	white to light gray, fine to medium grained, sub angular to sub rounded, poor sorting, poorly consolidated to unconsolidated, grading to Siltstone
5772' - 5800'	Shale:	dark gray to black, platy to blocky, firm, slightly calcareous, carbonaceous, no fluorescence, dull yellowwhite streaming cut
5800' - 5836'	Limestone:	tan to buff, light graybrown, microcrystalline, firm, micritic to slightly chalky, dolomitic, interbeds of Shale: as above

Sample Top: Uteland Butte @ 5836'

5836' - 5858'	Limestone:	dark brown to black, microcrystalline, firm, dense to earthy, slightly argillaceous, abundant dark brown organic material
5858' - 5888'	Limestone:	as above, grading to
	Shale:	black to grayblack, firm, platy, calcareous to marly, carbonaceous
5888' - 5950'	Shale:	dark brown to graybrown, firm, platy, calcareous to marly, carbonaceous, grading to
	Limestone:	black to blackbrown, cryptocrystalline, firm to slightly hard and siliceous, dense to earthy, argillaceous to shaly, abundant dark brown organic material

Note: Driller's Total Depth @ 5950'

LOGGING REPORT

Logging Company: Schlumberger **Engineer**: Jeff Gebhart **Date**: 8/21/93

Witnessed by: Roy Clement and Al Plunkett

Driller's TD Depth: 5950' **Logger's TD Depth**: 5956'

Driller's Casing Depth: 259' **Logger's Casing Depth**: 260'

Elevation: **GL**: 5533' **Sub**: 10' **KB**: 5543'

Mud Conditions: **Wt**: 8.4 **Vis**: 27 **WL**: n/c
BHT: 144^0 F

Hole Conditions: Good

Logging Time: **Time Arrived**: 1800 hrs **First Tool in Hole**: 1930 hrs
Last Tool Out: 2400 hrs **Time of Departure**: 0300 hrs

Electric Logging Program: 1.) Dual Laterlog with Gamma Ray & Caliper from 5941' to 260'; Compensated Neutron-Litho Density Log with Gamma Ray and Caliper from 5941' to 2400' (tools were stacked, one logging run was made; due to tool failure, the MSFL was not run).

Log Tops: Green River Formation @ 1492'; Second Garden Gulch @ 3766'; Y-3 @ 4104'; Y-4 @ 4308'; Douglas Creek @ 4561'; R-5 @ 4751'; Carbonate Marker @ 5410'; Uteland Butte @ 5840'; Total Depth @ 5956'.

Zones of Interest: 2680' to 2750': 70' averaging 17% porosity

Y-3 @ 4104' to 4116': 9' with 16-18% porosity

4243' to 4252': 9' with 16-19% porosity

Y-4 @ 4308' to 4326': 18' with 16-18% porosity

4439' to 4443': 3' with 14% porosity

R-5 @ 4751' to 4765': 14' with 14-16% porosity;

Note: The following pages contain log excerpts over zones of interest.

Schlumberger

SIMULTANEOUS

COMPENSATED NEUTRON-LITHO-DENSITY

COMPANY BALCRON OIL COMPANY

WELL BALCRON FEDERAL 21-13Y

FIELD MONUMENT BUTTE

COUNTY DUCHESNE STATE UTAH

COUNTY	FIELD	LOCATION	WELL	COMPANY
DUCHESNE	MONUMENT BUTTE	703'FNL & 1830'FWL	BALCRON FEDERAL 21-13Y	BALCRON OIL COMPANY

LOCATION: 703'FNL & 1830'FWL
NE NW

Other Services:
DLL
LDT
CNL

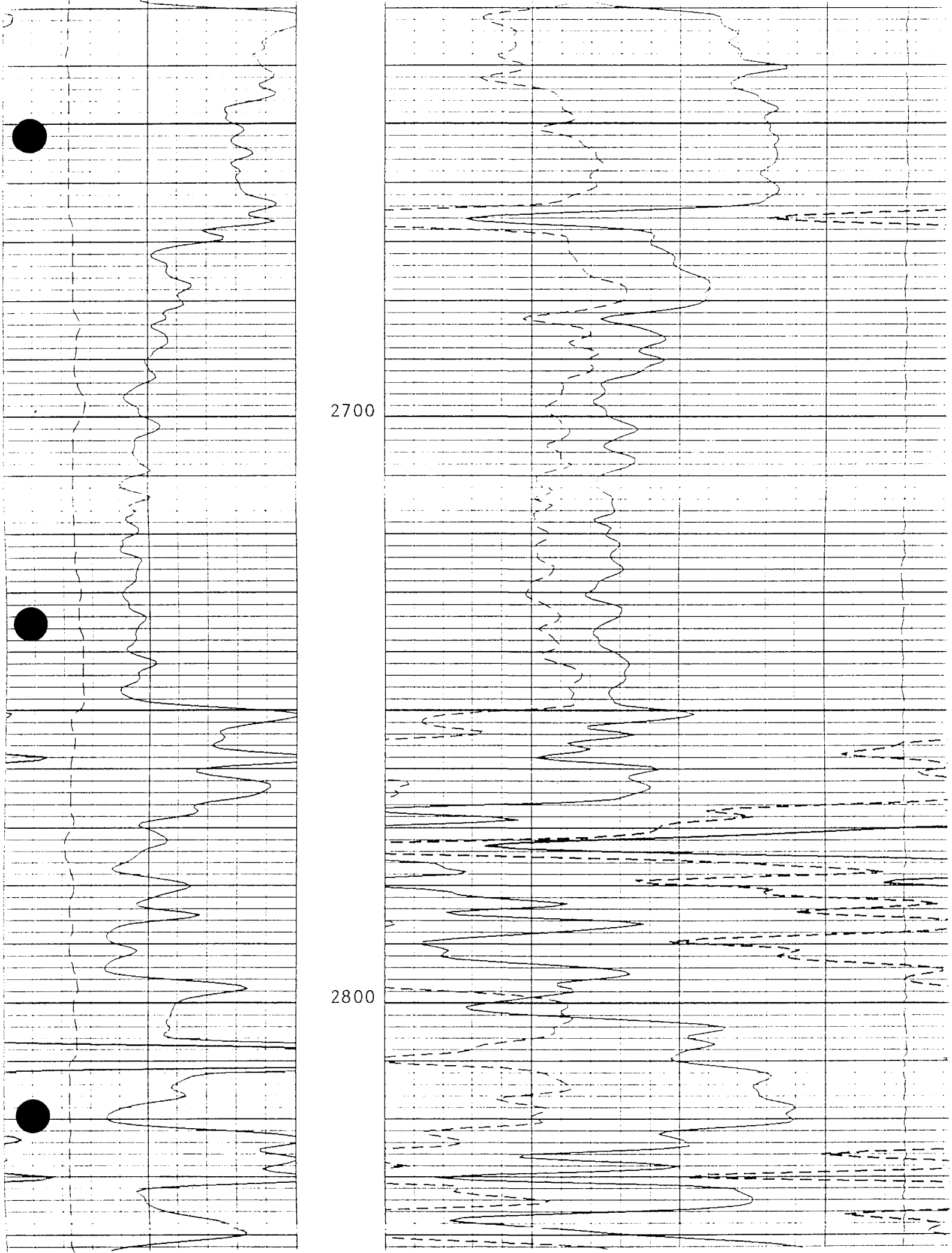
API SERIAL NO.	SECT.	TWP.	RANGE
43-013-31400	13	9S	16E

Permanent Datum	GROUND LEVEL	Elev.	5533.0 F
Log Measured From	KB	10.0 F	above Perm. Datum
Drilling Measured From	KB		

Elev.: K.B.5543.0 F
D.F.5542.0 F
G.L.5533.0 F

Date	21-AUG-1993		
Run No.	ONE		
Depth Driller	5950.0 F		
Depth Logger (Schl.)	5956.0 F		
Btm. Log Interval	5941.0 F		
Top Log Interval	2400.0 F		
Casing-Driller	8 5/8" @ 248.0 F	@	@
Casing-Logger	260.0 F		
Bit Size	7 7/8" @	@	@
Type Fluid in Hole	KCL WATER		
Dens. / Visc.	8.40 LB/G / 27.0 S		
pH / Fld. Loss	11.1		
Source of Sample	PIT		
Rm @ Meas. Temp.	.184 OHMM @ 84.0 DEGF	@	
Rmf @ Meas. Temp.	.184 OHMM @ 84.0 DEGF	@	
Rmc @ Meas. Temp.	@	@	
Source: Rmf / Rmc	MEAS / NA		
Rm @ BHT	.111 OHMM @ 144. DEGF	@	
TIME: Circulation Ended	8-21 @ 15:30		
TIME: Logger on Bottom	8-21 @ 20:01		
Max. Rec. Temp.	144. DEGF		
Equip. / Location	8264 / VERNAL,UT		
Recorded By	JEFF GEBHART		
Witnessed By	R.CLEMENT / A.PLUNKETT		

The well name, location and borehole reference data were furnished by the customer.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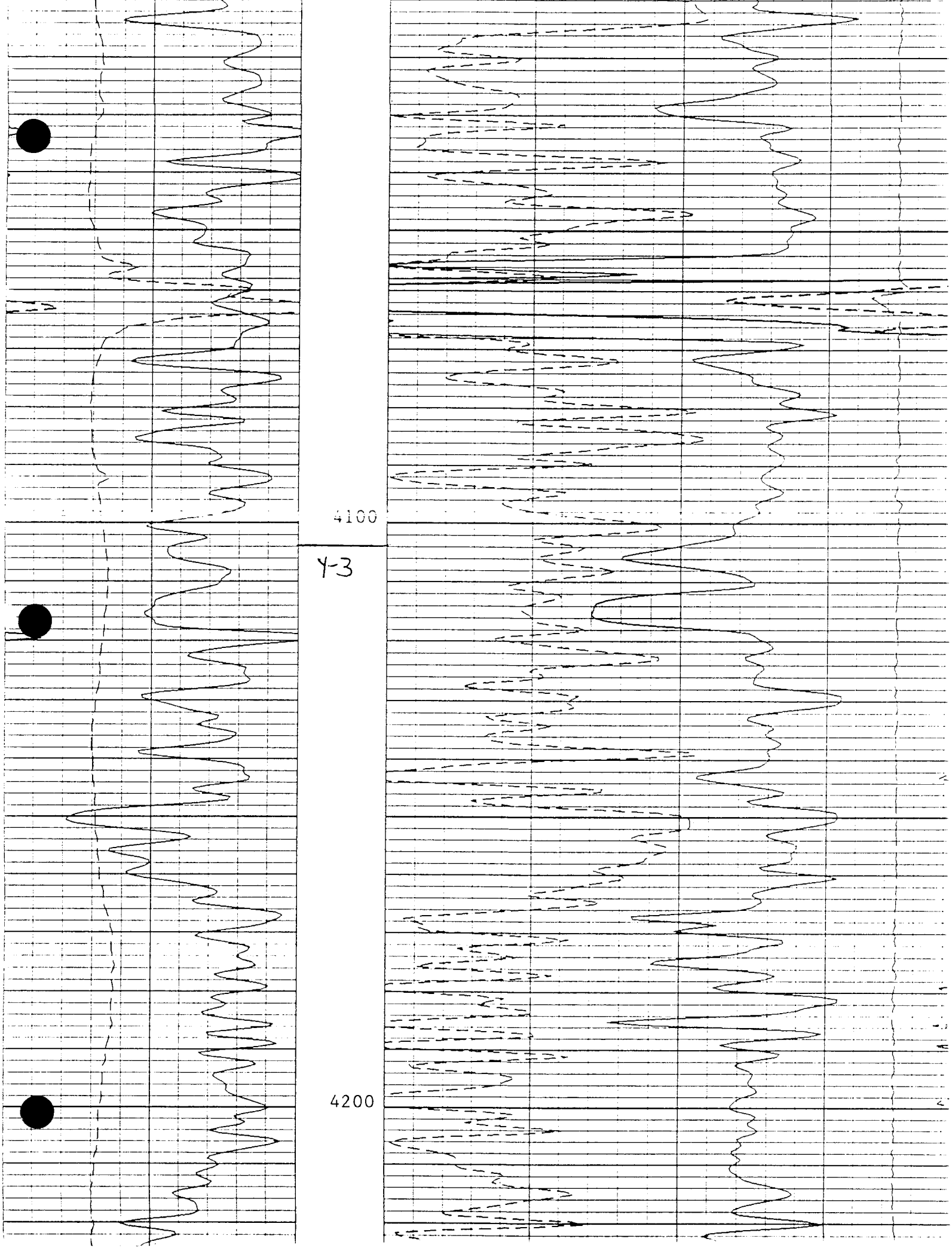
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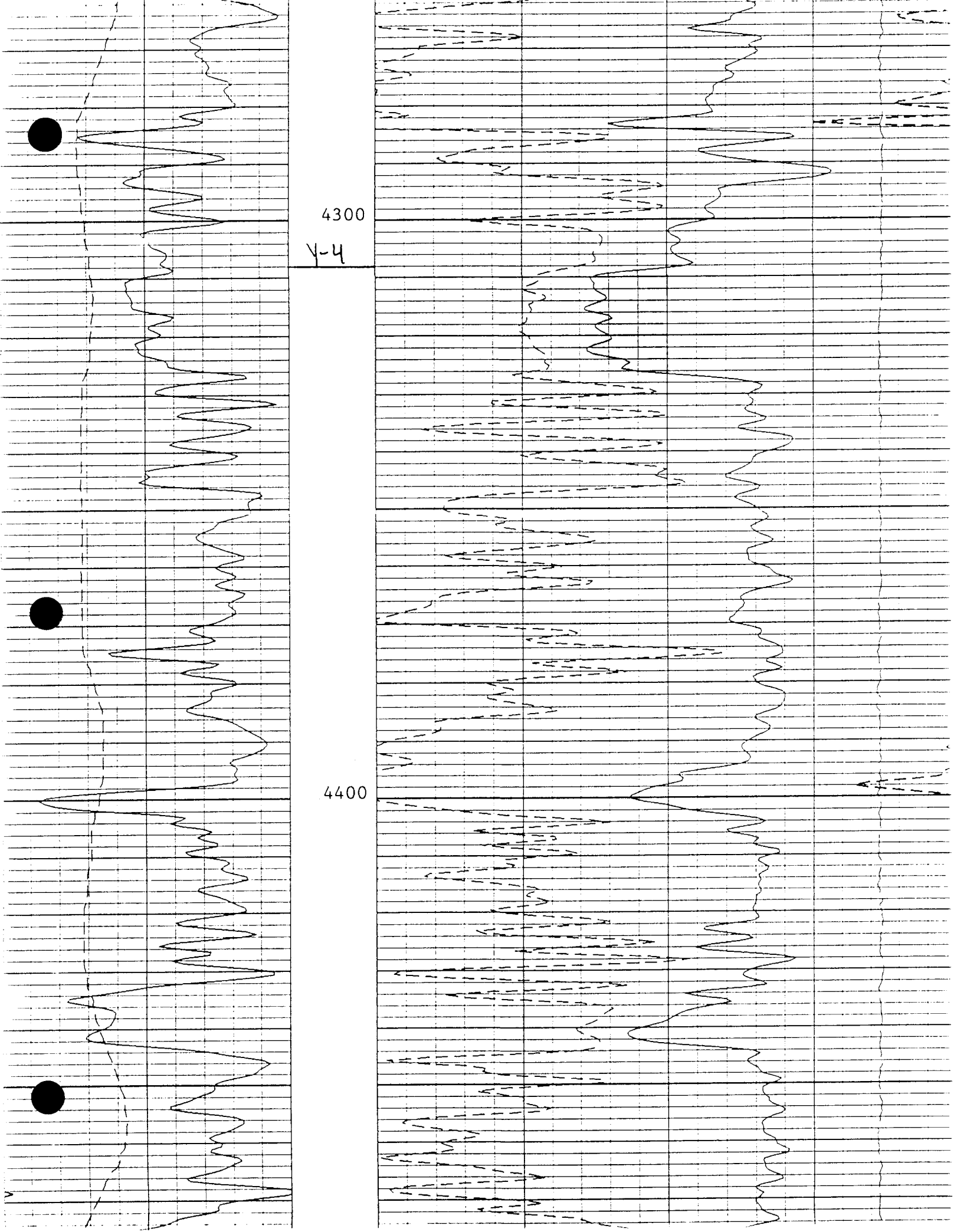
Y-3
4200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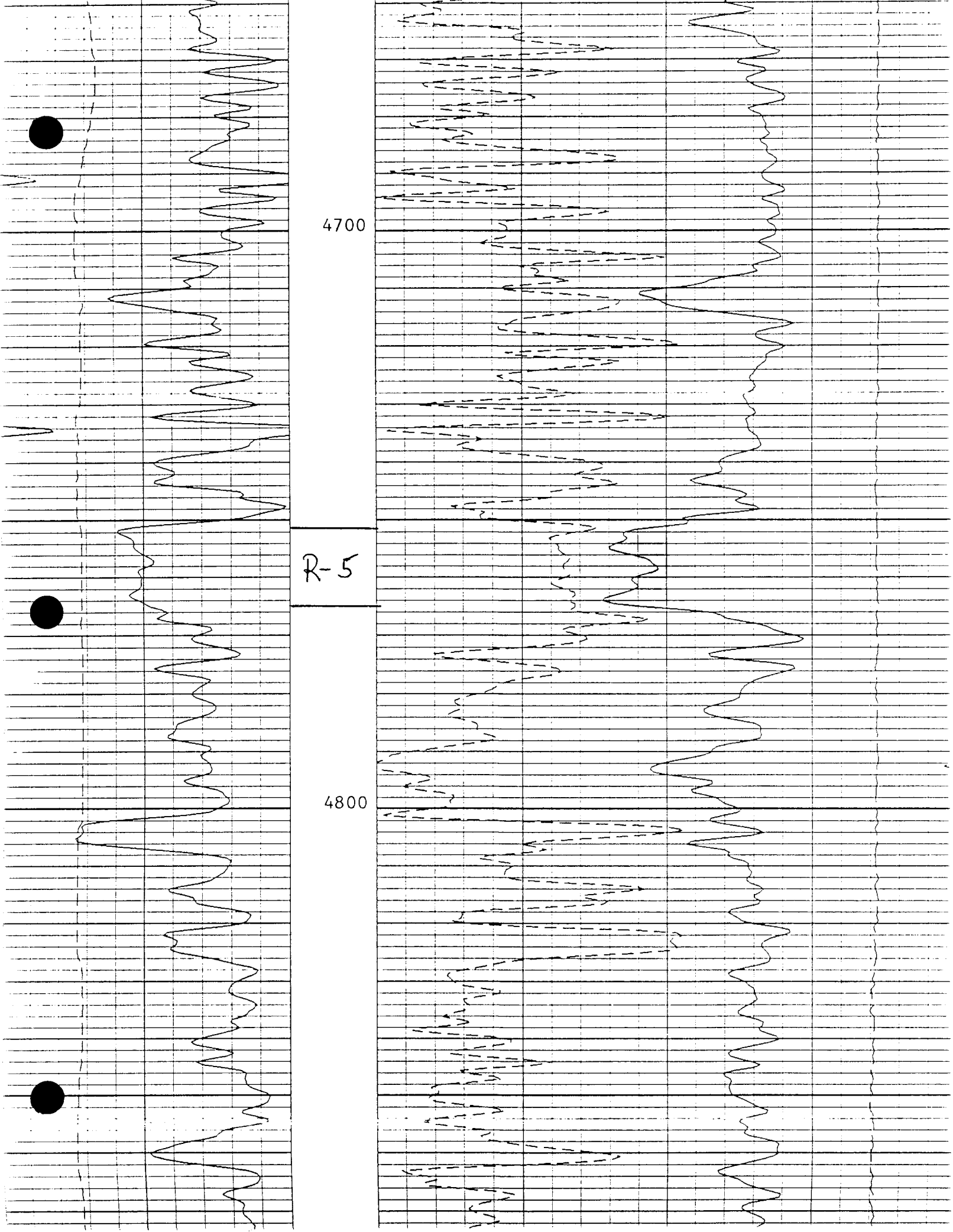

4700
R-5
4800

CLEMENT CONSULTING
7703 CLARK AVENUE
BILLINGS, MONTANA 59106
(406) 656-9514

COMPANY: BALCRON OIL COMPANY

WELL: BALCRON FEDERAL NO. 21-13Y 43-013-31400 dkl

LOCATION: NE NW (703' FNL & 1830' FWL) SEC. 13-T9S-R16E
DUCHESNE COUNTY, UTAH

DEPTH LOGGED: 1400' - 5950' DATE LOGGED: 16 AUG 93 - 21 AUG 93

KB: 5543' GL: 5533'

GEOLOGIST: ROY L. CLEMENT

CONTRACTOR: UNION DRILLING RIG 17

DRILLING FLUID: AIR/FOAM 0' - 4251'
KCL/WATER 4251' - TD

Porosity

Oil Show

8 5/8" Surface Casing set at 259'

Drlg 7 7/8" Borehole w/ Bit 2 ATJ-44 in at 275'

LOG TOPS

API - GR

Sample Tops

DRILL RATE (min/ft)

0 1 2 3 4 5

1300

1400

Green River 1450'

GREEN RIVER
1492' (405')

1500

1 1/4°

8/16/95

WOB 45
RPM 50
PP 200

1600

1700

50' samples lagged & caught by mud loggers from 1400' to 3800'

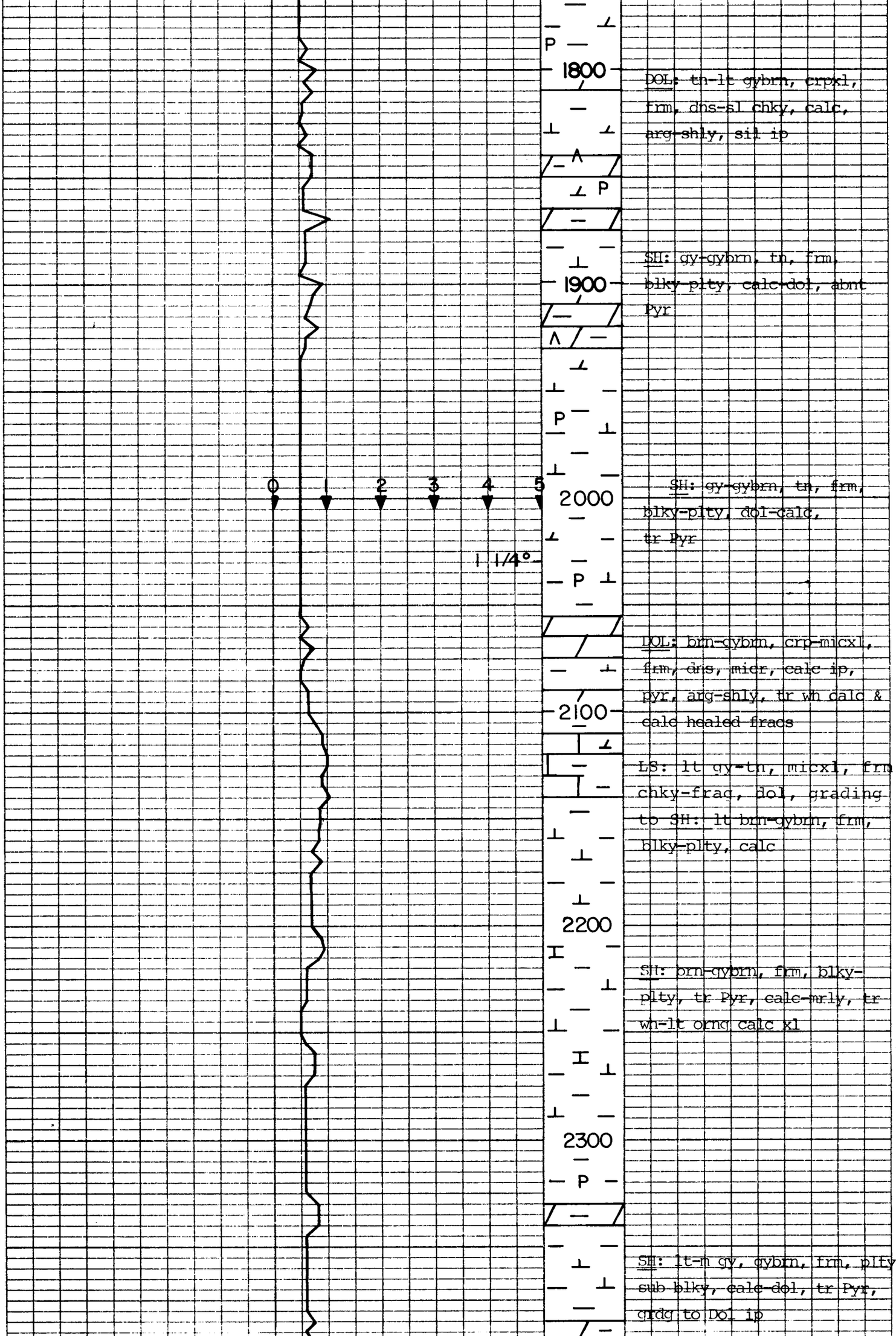
SS: wh, S & P, f-m gr, ang, p srt, prod unconsol mica, intbds of SH

DOL: tn-lt gybrn, crpxl, frm, dns, calc ip, v arg

SH: lt gybrn-brn, frm, blky-sub plty, calc

DOL: lt brn-gybrn, crpxl, frm, sl hd & sil ip, dns-sl chky, calc ip, Pyr, v arg

SH: lt gy-tn, frm, blky-plty, calc dol, tr Pyr



DOL: tn-lt gybrn, crpxl, frm, dns-sl chky, calc, arg-shly, sil ip

SH: gy-gybrn, tn, frm, blky-plty, calc-dol, abnt Pyr

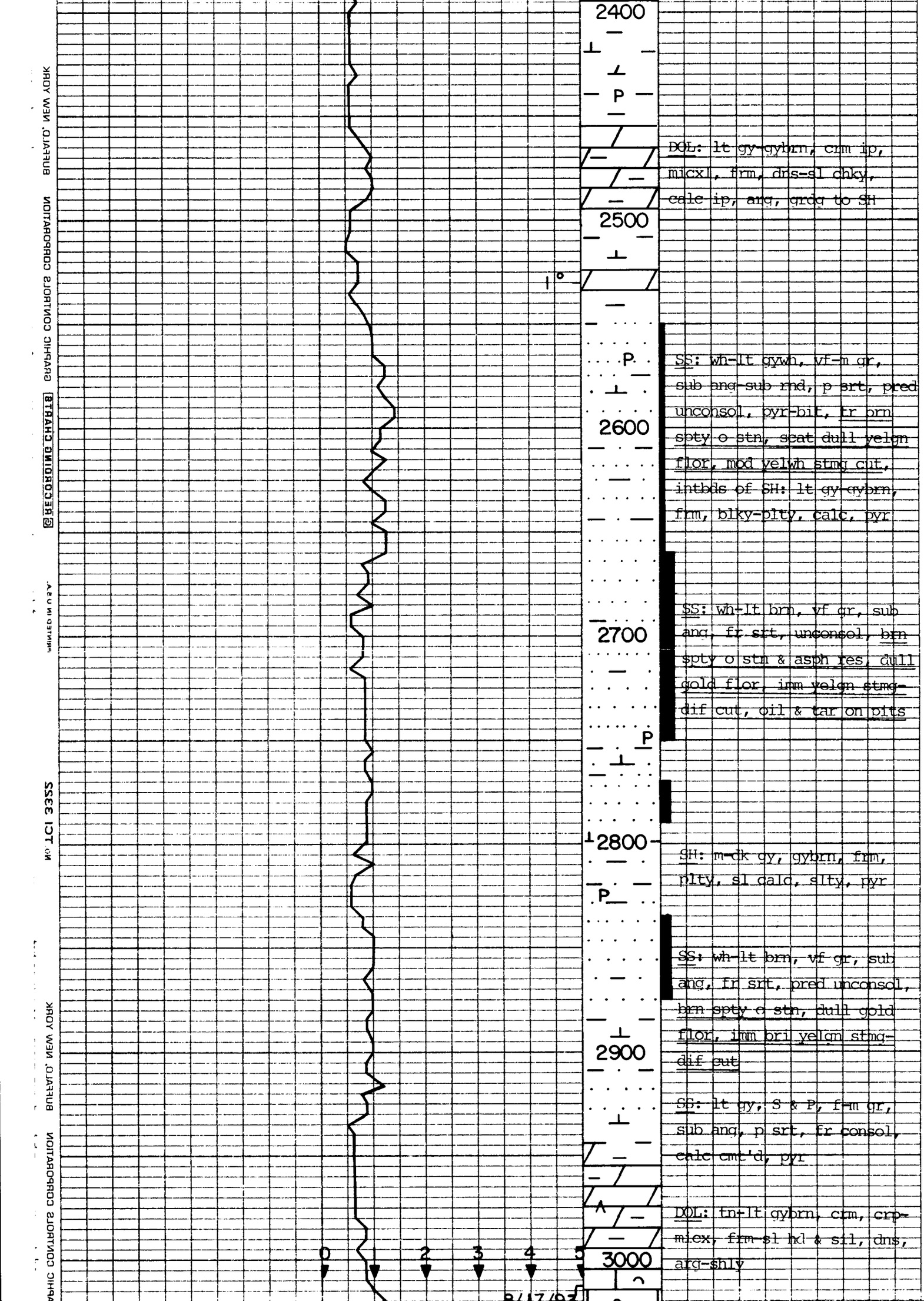
SH: gy-gybrn, tn, frm, blky-plty, dol-calc, tr Pyr

DOL: brn-gybrn, crp-micxl, frm, dns, micr, calc ip, pyr, arg-shly, tr wh calc & calc healed fracs

LS: lt gy-tn, micxl, frm, chky-fraq, dol, grading to SH: lt brn-gybrn, frm, blky-plty, calc

SH: brn-gybrn, frm, blky-plty, tr Pyr, calc-mrly, tr wh-lt orng calc xl

SH: lt-m gy, gybrn, frm, plty-sub blky, calc-dol, tr Pyr, grdg to Dol ip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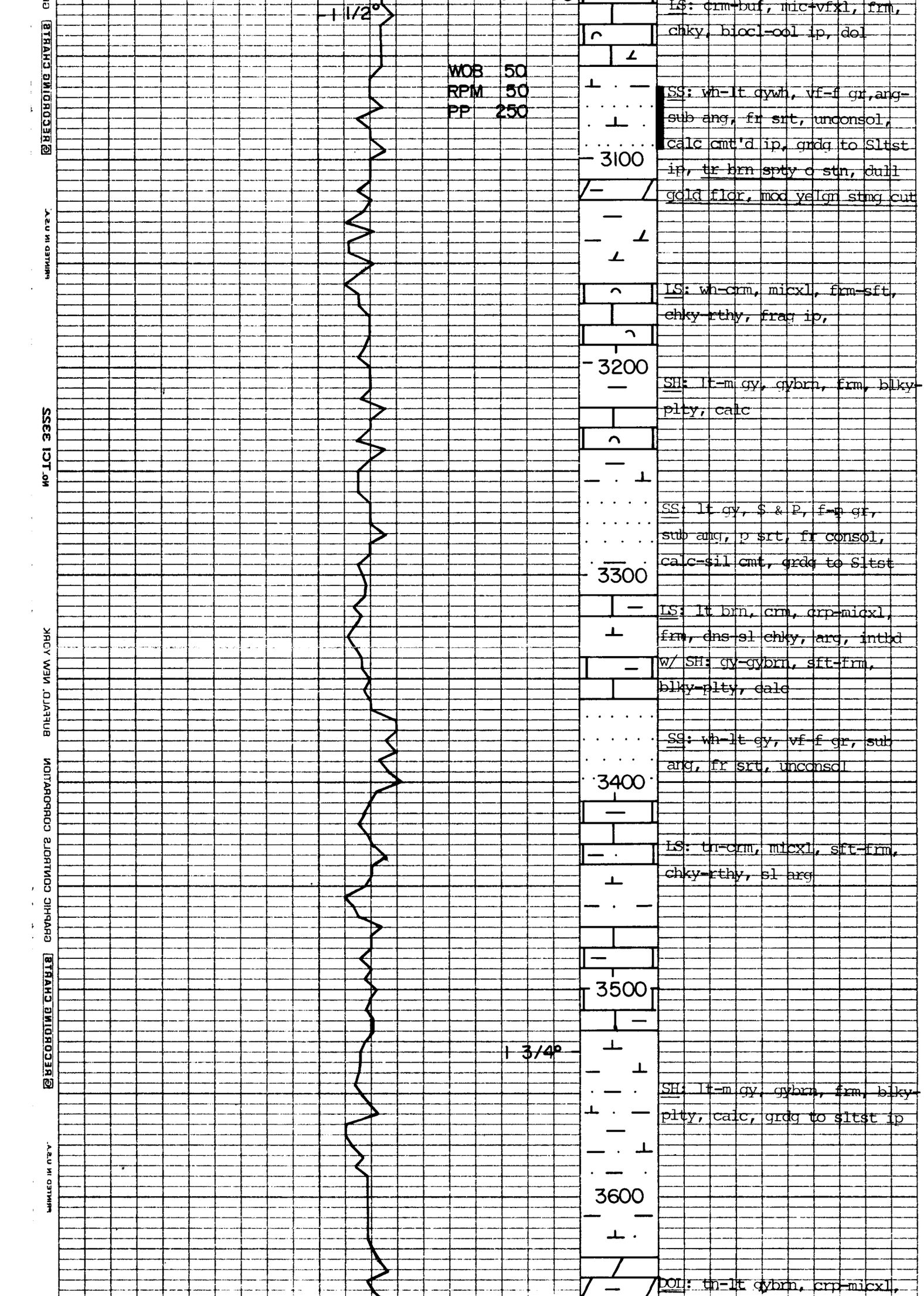
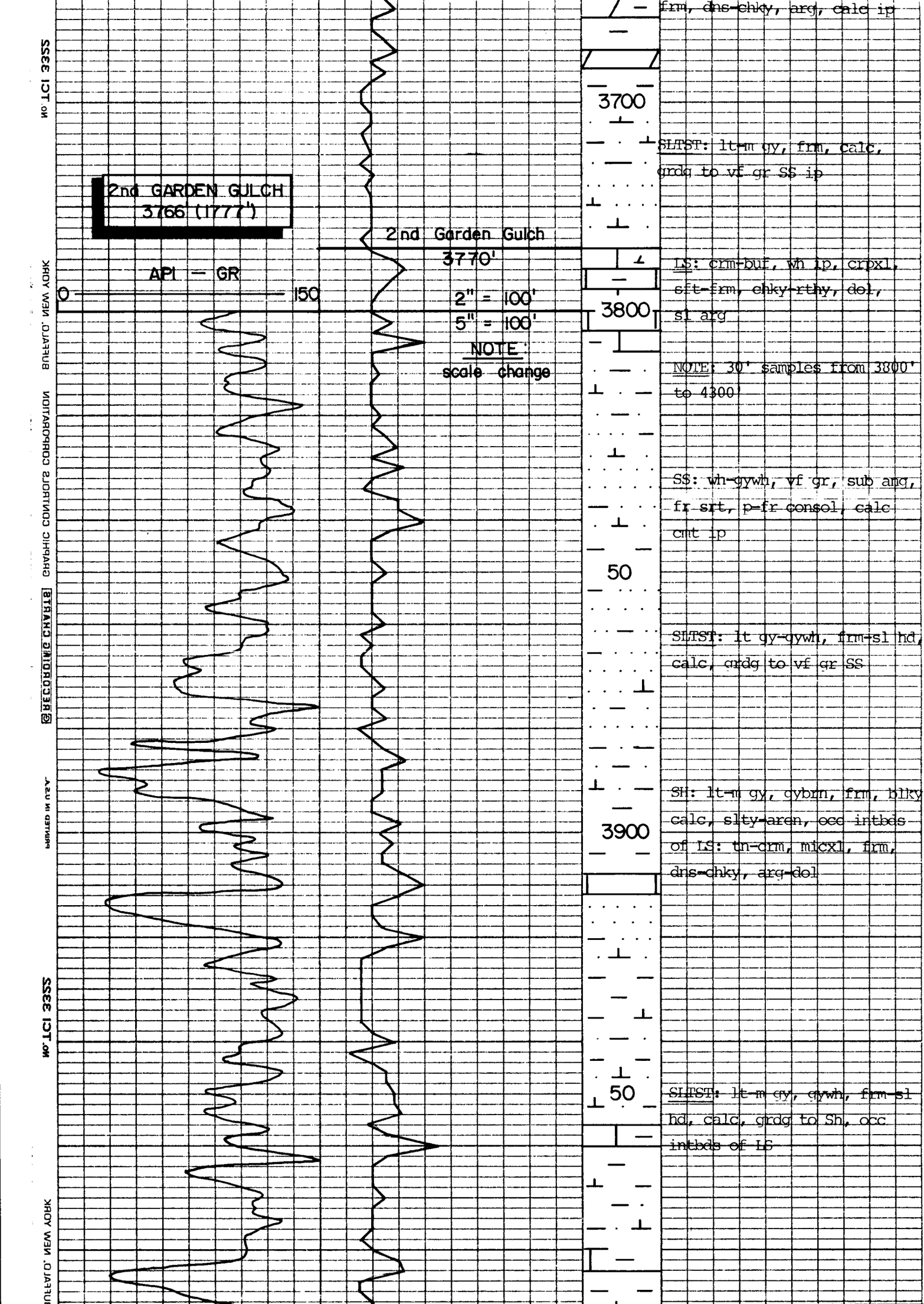
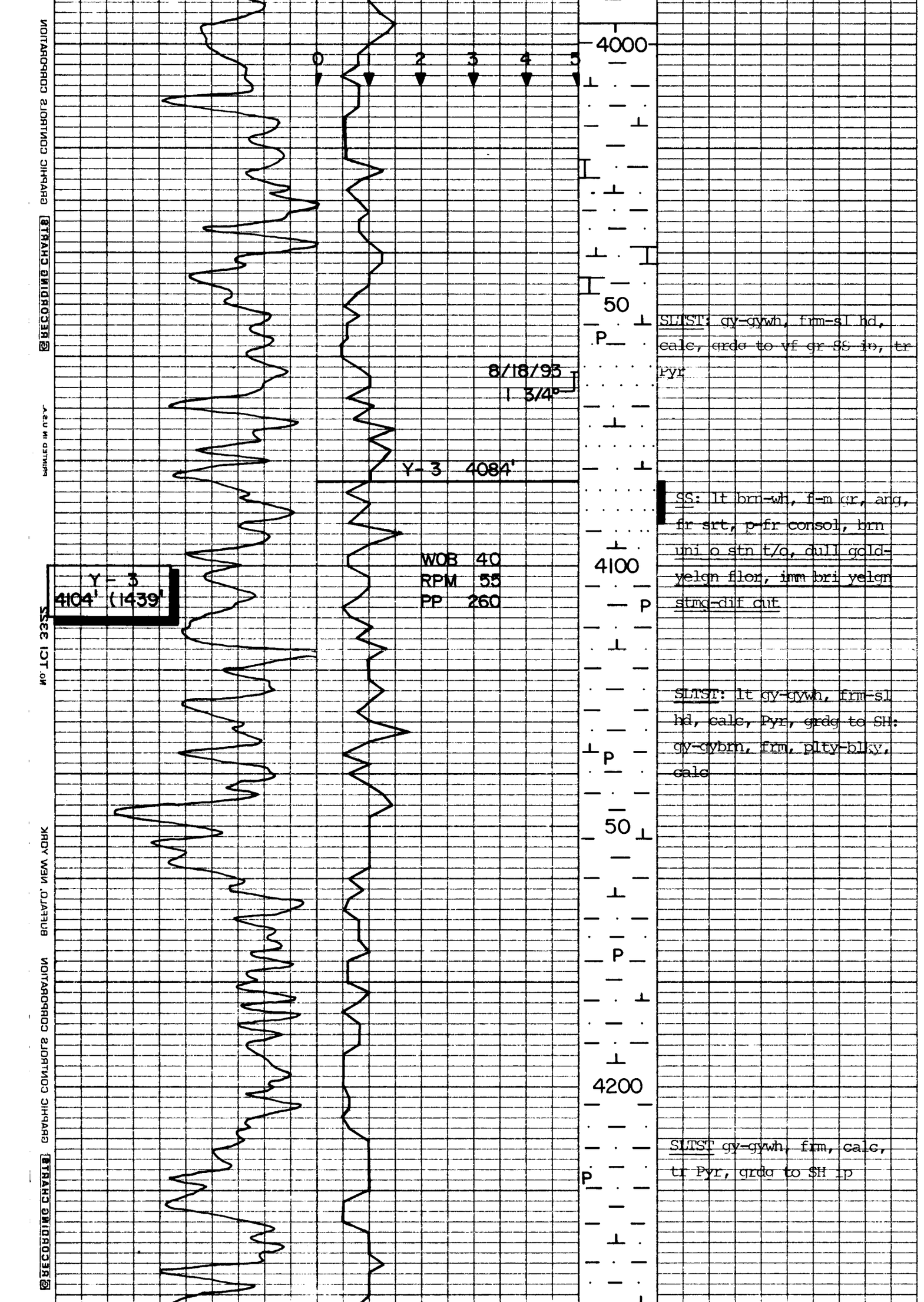
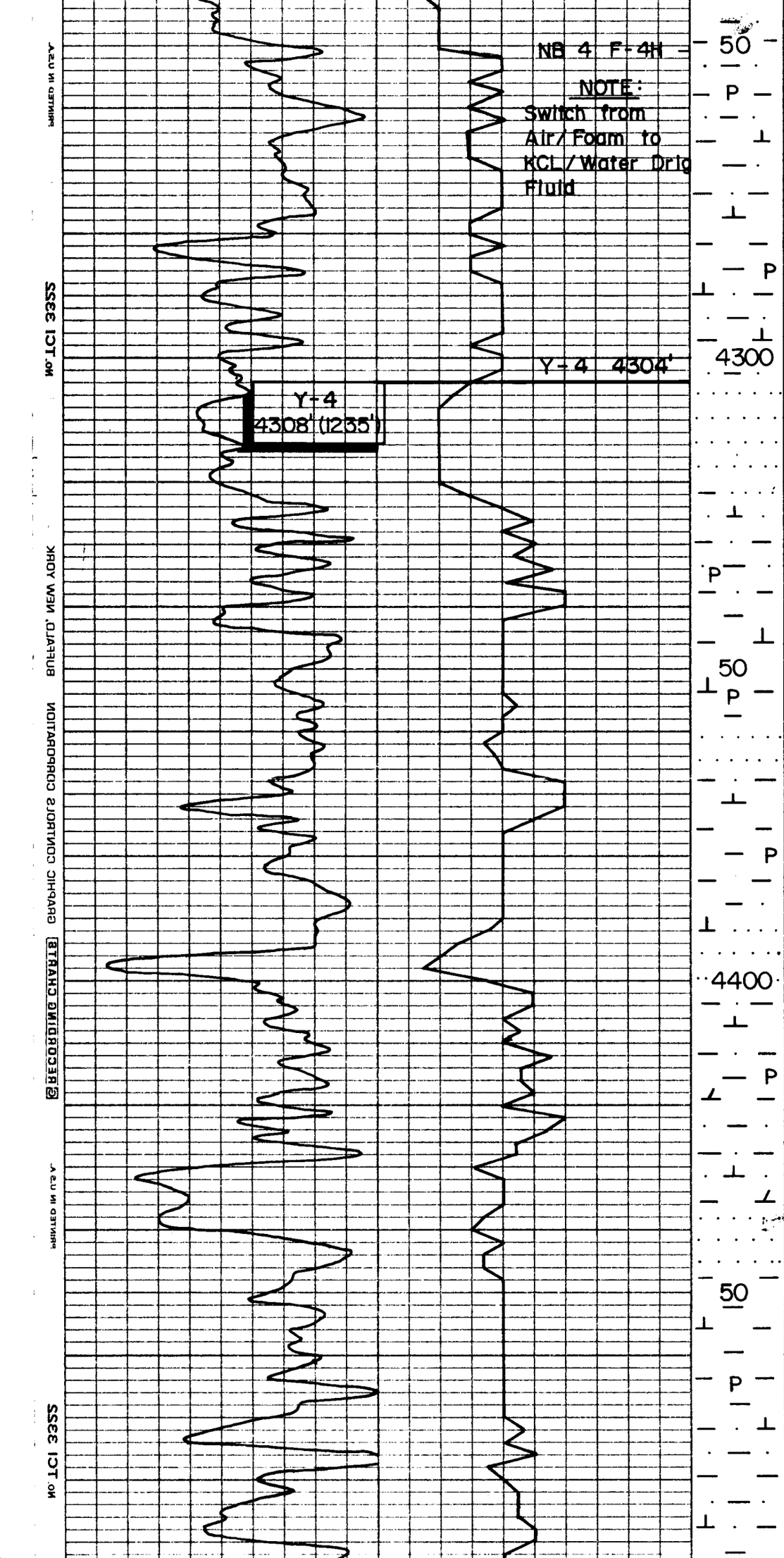
P
DOL: lt gy-gybrn, crm ip, micxl, frm, dns-sl chky, calc ip, arg, grdg to SH
2500
1°
P
SS: wh-lt gywh, vf-m gr, sub ang-sub rnd, p srt, pred unconsol, pyr-bit, tr orn spty o stn, scat dull yelgn flor, mod yelwh stmg cut, intbds of SH: lt gy-gybrn, frm, blky-plty, calc, pyr
2600
SS: wh-lt brn, vf gr, sub ang, fr srt, unconsol, brn spty o stn & asph res, dull gold flor, imm yelgn stmg-dif cut, oil & tar on pits
2700
P
P
2800
SH: m-dk gy, gybrn, frm, plty, sl calc, slty, pyr
P
SS: wh-lt brn, vf gr, sub ang, fr srt, pred unconsol, brn spty o stn, dull gold flor, imm bri yelgn stmg-dif cut
2900
SS: lt gy, S & P, f-m gr, sub ang, p srt, fr consol, calc cmt'd, pyr
DOL: tn-lt gybrn, crm, crp-micx, frm-sl hd & sil, dns, arg-shly
3000
0
2
3
4
5
8/17/93
RECORDING CHART
GRAPHIC CONTROLS CORPORATION BUFFALO, NEW YORK
MADE IN U.S.A.
GRAPHIC CONTROLS CORPORATION BUFFALO, NEW YORK
NO. TCI 3355


1 1/2°
WOB 50
RPM 50
PP 250
3100
3200
3300
3400
3500
1 3/4°
3600
LS: crm-buf, mic-vfxl, frm, chky, biocl-ool ip, dol
SS: wh-lt gywh, vf-f gr, ang-sub ang, fr srt, unconsol, calc cmt'd ip, grdg to Sltst ip, tr brn spty o stn, dull gold flor, mod yelgn strng cut
LS: wh-crm, micxl, frm-sft, chky-rthy, frag ip,
SH: lt-m gy, gybrn, frm, blky-plty, calc
SS: lt gy, S & P, f-m gr, sub ang, p srt, fr consol, calc-sil cmt, grdg to Sltst
LS: lt brn, crm, crp-micxl, frm, dns-sl chky, arg, intbd w/ SH: gy-gybrn, sft-frm, blky-plty, calc
SS: wh-lt gy, vf-f gr, sub ang, fr srt, unconsol
LS: tn-crm, micxl, sft-frm, chky-rthy, sl arg
SH: lt-m gy, gybrn, frm, blky-plty, calc, grdg to sltst ip
DOL: tn-lt gybrn, crp-micxl,


2nd GARDEN GULCH
3766' (1777')
2nd Garden Gulch
3770'
API — GR
0
150
2" = 100'
5" = 100'
NOTE:
scale change
3700
3800
50
3900
50
frm, dns-chky, arg, calc ip
SLTST: lt-m gy, frm, calc, grdg to vf gr SS ip
LS: crm-buf, wh ip, crpxl, sft-frm, chky-rthy, dol, sl arg
NOTE: 30' samples from 3800' to 4300'
SS: wh-gywh, vf gr, sub ang, fr srt, p-fr consol, calc cmt ip
SLTST: lt gy-gywh, frm-sl hd, calc, grdg to vf gr SS
SH: lt-m gy, gybrn, frm, blky, calc, slty-aren, occ intbds of LS: tn-crm, micxl, frm, dns-chky, arg-dol
SLTST: lt-m gy, gywh, frm-sl hd, calc, grdg to Sh, occ intbds of LS


0
1
2
3
4
5
4000
50
4100
50
4200
P
8/18/93
1 3/4°
Y-3 4084'
WOB 40
RPM 55
PP 260
Y-3
4104' (1439'
SLTST: gy-gywh, frm-sl hd, calc, grdg to vf gr SS in, tr Pyr
SS: lt brn-wh, f-m gr, ang, fr srt, p-fr consol, brn uni o stn t/o, dull gold-yelgn flor, imm bri yelgn strmg-dif cut
SLTST: lt gy-gywh, frm-sl hd, calc, Pyr, grdg to SH: gy-gybrn, frm, plty-blky, calc
SLTST gy-gywh, frm, calc, tr Pyr, grdg to SH ip
RECORDED CHART
GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
MADE IN U.S.A.



SH: lt-m gy, gybrn, frm, blky-plty, calc, pyr, grdg to SLTST: lt gy, frm, calc, sndy ip, very poor samples, abnt uphole cvgs after trip and mudding up

SS: wh, S & P, f-m gr, ang-sub ang, p srt, fr consol, calc cmt, tr brn spty o stn, bri yelgn flor, imm bri yelgn strmg cut

SH: gybrn-brn, frm, blky-plty, slty, tr pyr

SS: wh-lt gy, S & P, f-m gr, ang-sub ang, p srt, fr consol, calc cmt, tt

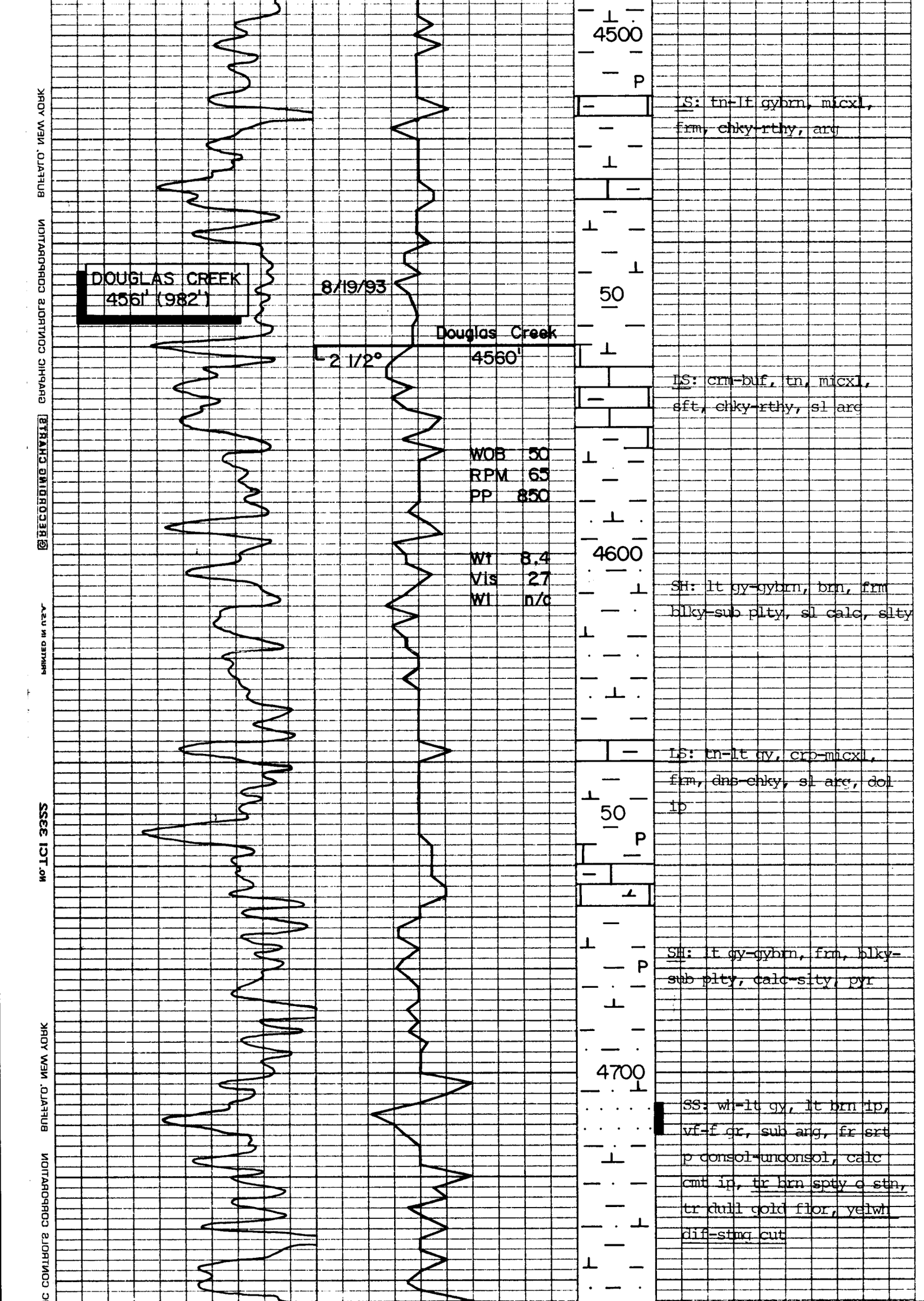
SH: lt-m gy, frm, blky, calc, tr Pyr, slty & grdg to SLTST

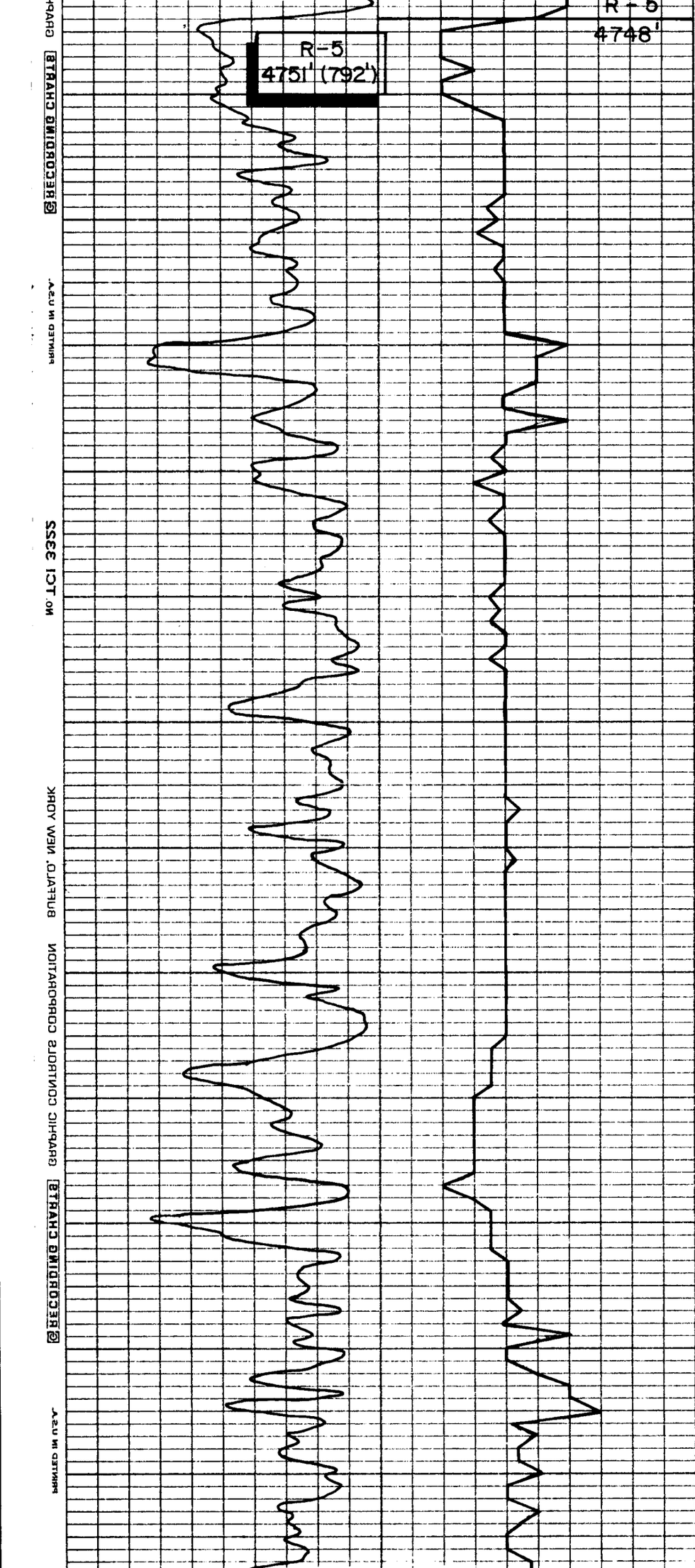
SS: wh-lt gy, f-m gr, ang-sub ang, p srt, fr consol, calc cmt, tt

SH: gybrn-brn, frm, blky-plty, calc-dol, slty

SS: gy-wh, brn ip, f-m gr, ang-sub ang, p srt, fr consol, calc cmt, brn spty o stn, dull gold flor, mod yelgn strmg cut

SH: gy-gybrn, frm, blky-plty, calc, slty ip, tr Pyr


DOUGLAS CREEK
4561' (982')
8/19/93
Douglas Creek
4560'
2 1/2°
WOB 50
RPM 65
PP 850
Wt 8.4
Vis 27
Wl n/c
4500
50
4600
50
4700
LS: tn-lt gybrn, micxl, frm, chky-rthy, arg
LS: crm-buf, tn, micxl, sft, chky-rthy, sl arg
SH: lt gy-gybrn, brn, frm blky-sub plty, sl calc, slty
LS: tn-lt gy, crp-micxl, frm, dns-chky, sl arg, dol ip
SH: lt gy-gybrn, frm, blky-sub plty, calc-slty, pyr
SS: wh-lt gy, lt brn ip, vf-f gr, sub ang, fr srt p consol-unconsol, calc cmt ip, tr brn spty o stn, tr dull gold flor, yelwh dif-stmg cut



SS: lt brn-wh, vf-f gr, sub ang, fr srt, p-fr consol, calc cmt, brn spty-unif o stn, oil cn pits, bri yelgn flor, mod yelgn stmg cut

SH: lt-m gy, gybrn, frm, blky-plty, calc, slty ip

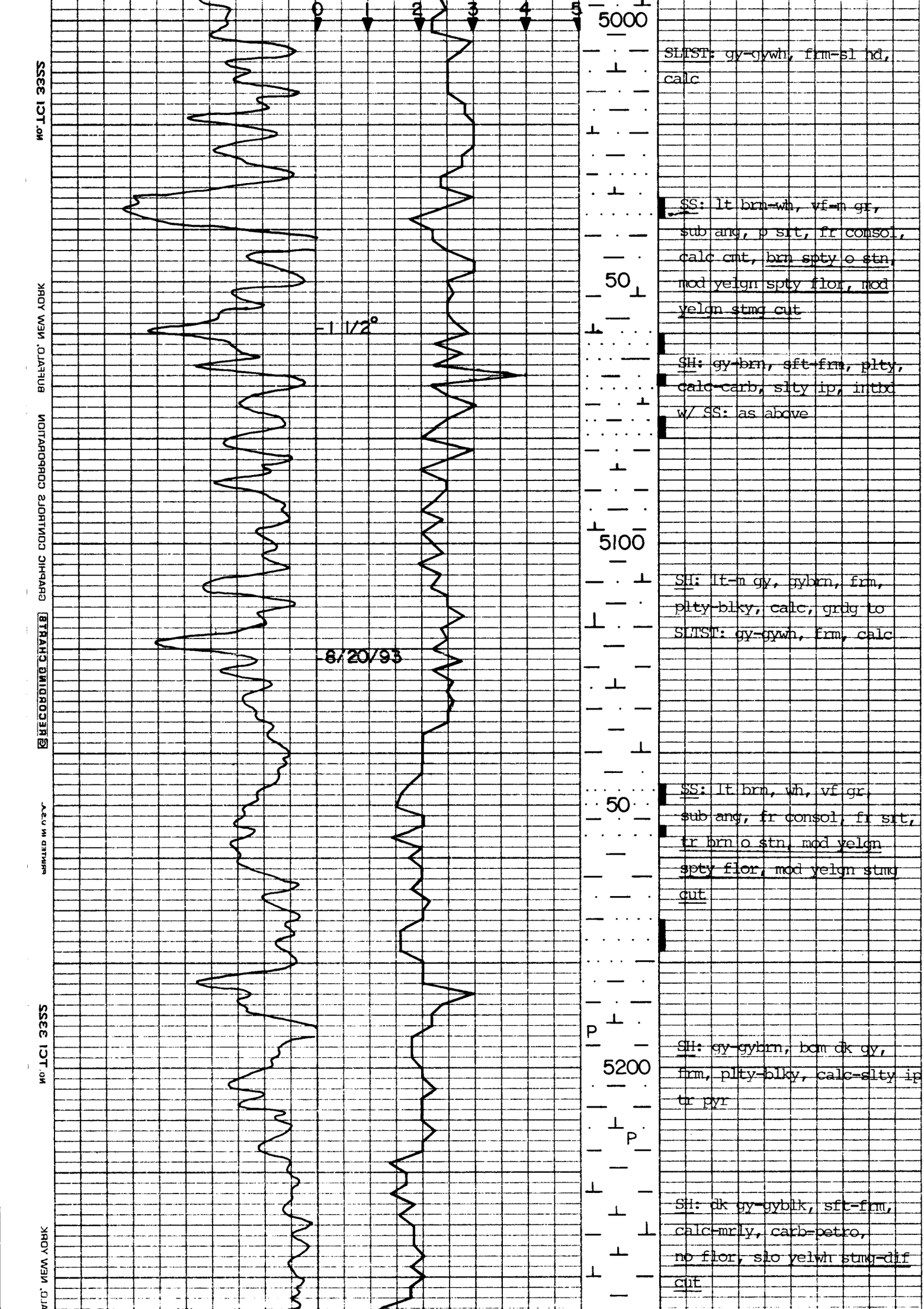
LS: tn-lt gybrn, micxl, frm, chky, arg

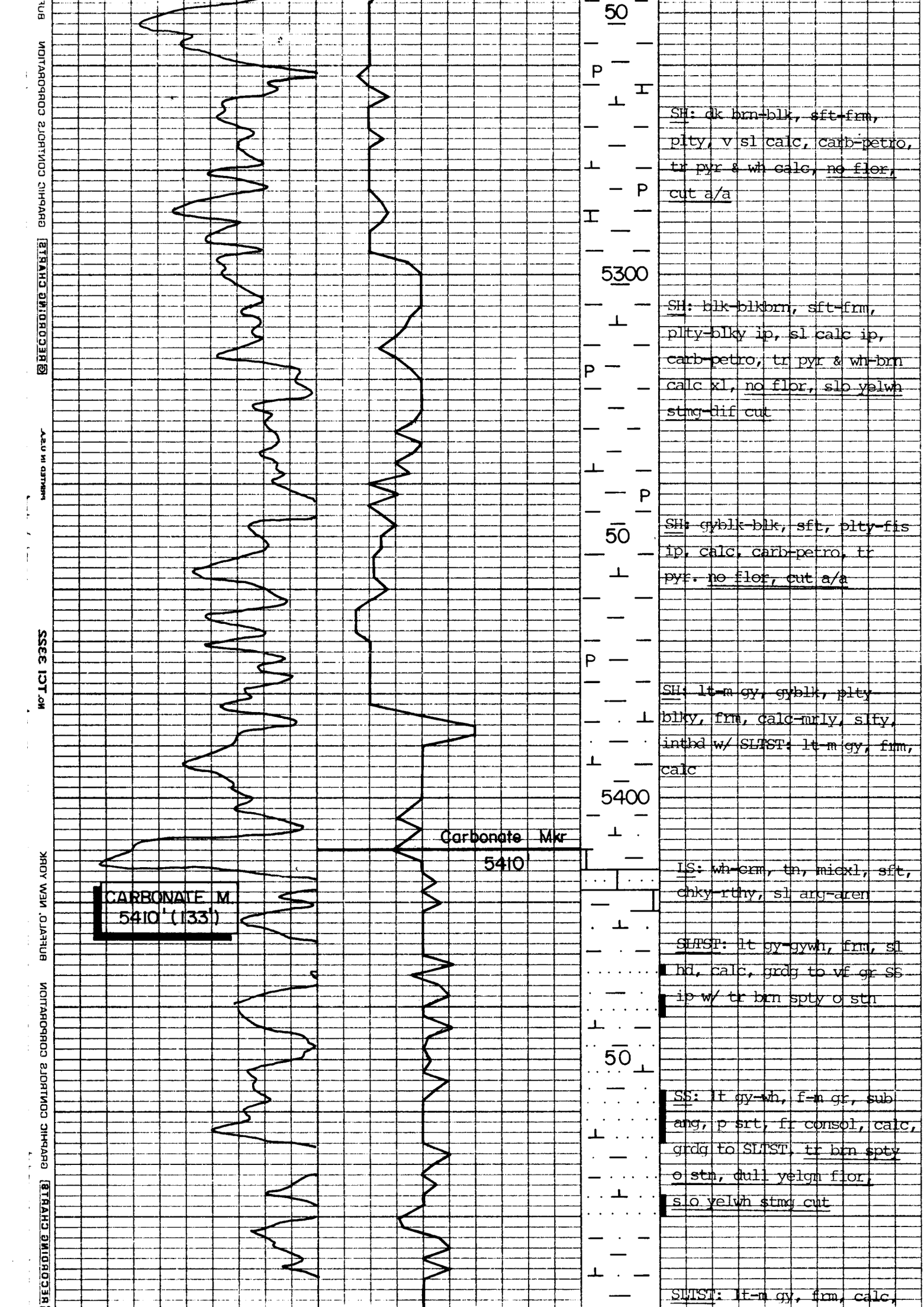
SH: lt-m gy, gybrn-brn, frm, blky- sub plty, calc-mrly ip, slty, tr LS

SH: dk brn-gyblk, sft, plty, calc-carb, no flor, slo yelwh dif cut, tr SS: wh-lt brn, f-m gr, sub ang, p srt, fr consol, calc cmt, tr brn spty o stn, mod yelgn flor, mod yelgn stmg cut

SH/ST: lt gy-gywh, frm-sl hd, calc, grdg to SH ip

SH: lt-m gy, gybrn, frm, blky-sub plty, calc, slty


0
1
2
3
4
5
5000
SLTST: gy-gywh, frm-sl hd, calc
SS: lt brn-wh, vf-m gr, sub ang, p srt, fr consol, calc cmt, brn spty o stn, mod yelgn spty flor, mod yelgn stmg cut
SH: gy-brn, sft-frm, plty, calc-carb, slty ip, intbd w/ SS: as above
-1 1/2°
50
5100
SH: lt-m gy, gybrn, frm, plty-blky, calc, grdg to SLTST: gy-gywh, frm, calc
-6/20/93
SS: lt brn, wh, vf gr, sub ang, fr consol, fr srt, tr brn o stn, mod yelgn spty flor, mod yelgn stmg cut
50
P
5200
SH: gy-gybrn, bcm dk gy, frm, plty-blky, calc-slty ip, tr pyr
P
SH: dk gy-gyblk, sft-frm, calc-mrly, carb-petro, no flor, slo yelwh stmg-dif cut
RECORDING CHART
GRAPHIC CONTROLS CORPORATION BUFFALO, NEW YORK
No. 1CI 3335
No. 1CI 3335



SH: dk brn-blk, sft-frm, plty, v sl calc, carb-petro, tr pyr & wh calc, no flor, cut a/a

SH: blk-blkbrn, sft-frm, plty-blky ip, sl calc ip, carb-petro, tr pyr & wh-brn calc xl, no flor, slo yelwh stmg-dif cut

SH: gyblk-blk, sft, plty-fis ip, calc, carb-petro, tr pyr. no flor, cut a/a

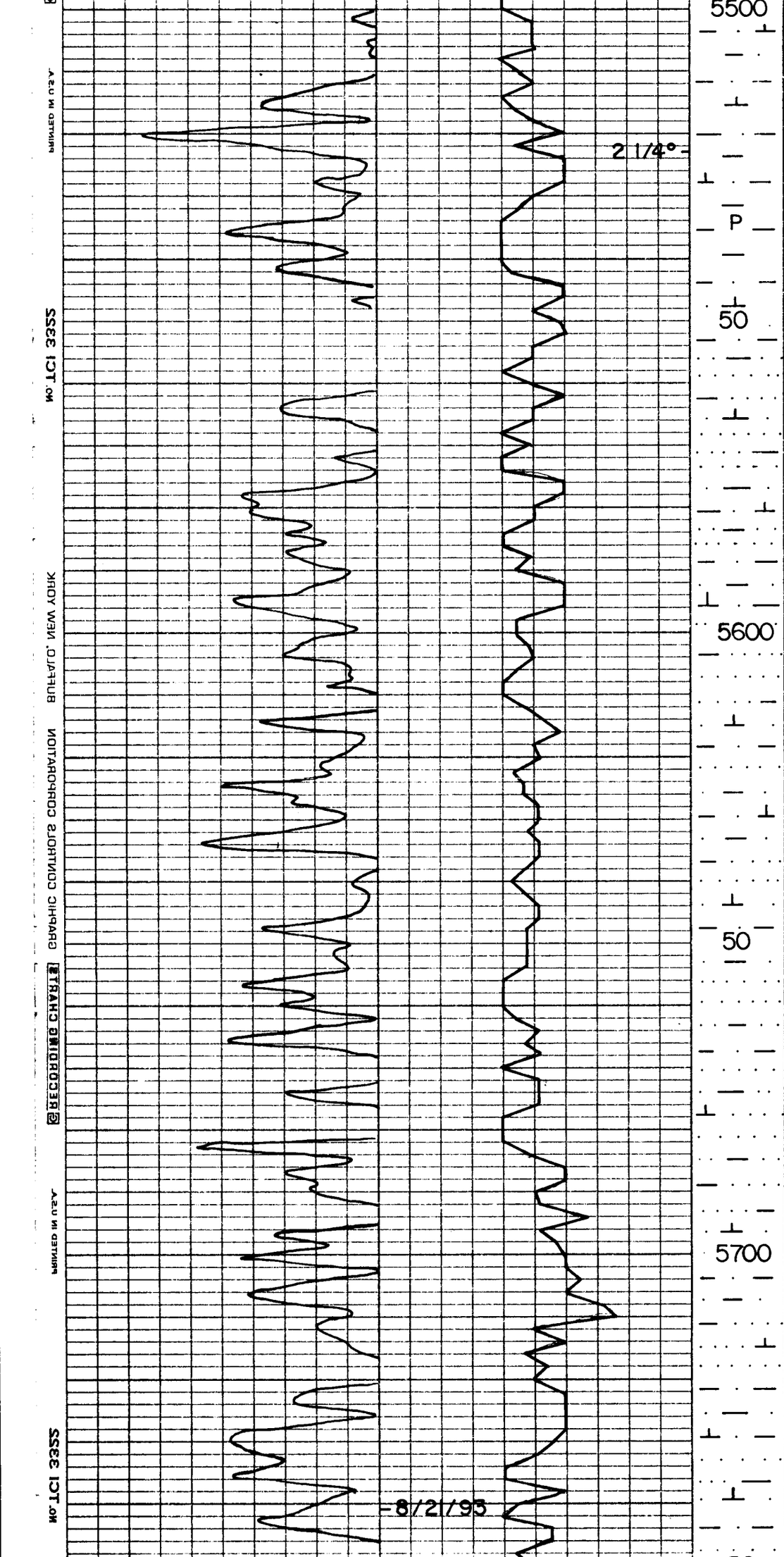
SH: lt-m gy, gyblk, plty blky, frm, calc-mrly, slty, intbd w/ SLTST: lt-m gy, frm, calc

LS: wh-crm, tn, micxl, sft, chky-rthy, sl arg-aren

SLTST: lt gy-gywh, frm, sl hd, calc, grdg to vf gr SS ip w/ tr brn spty o stn

SS: lt gy-wh, f-m gr, sub ang, p srt, fr consol, calc, grdg to SLTST, tr brn spty o stn, dull yelgn flor, slo yelwh stmg cut

SLTST: lt-m gy, frm, calc,



intbds of SH: gy-gybrn, frm, blky, calc, tr pyr

SH: dk gy-blkbrn, sft, plty, calc-mrly, carb, tr pyr

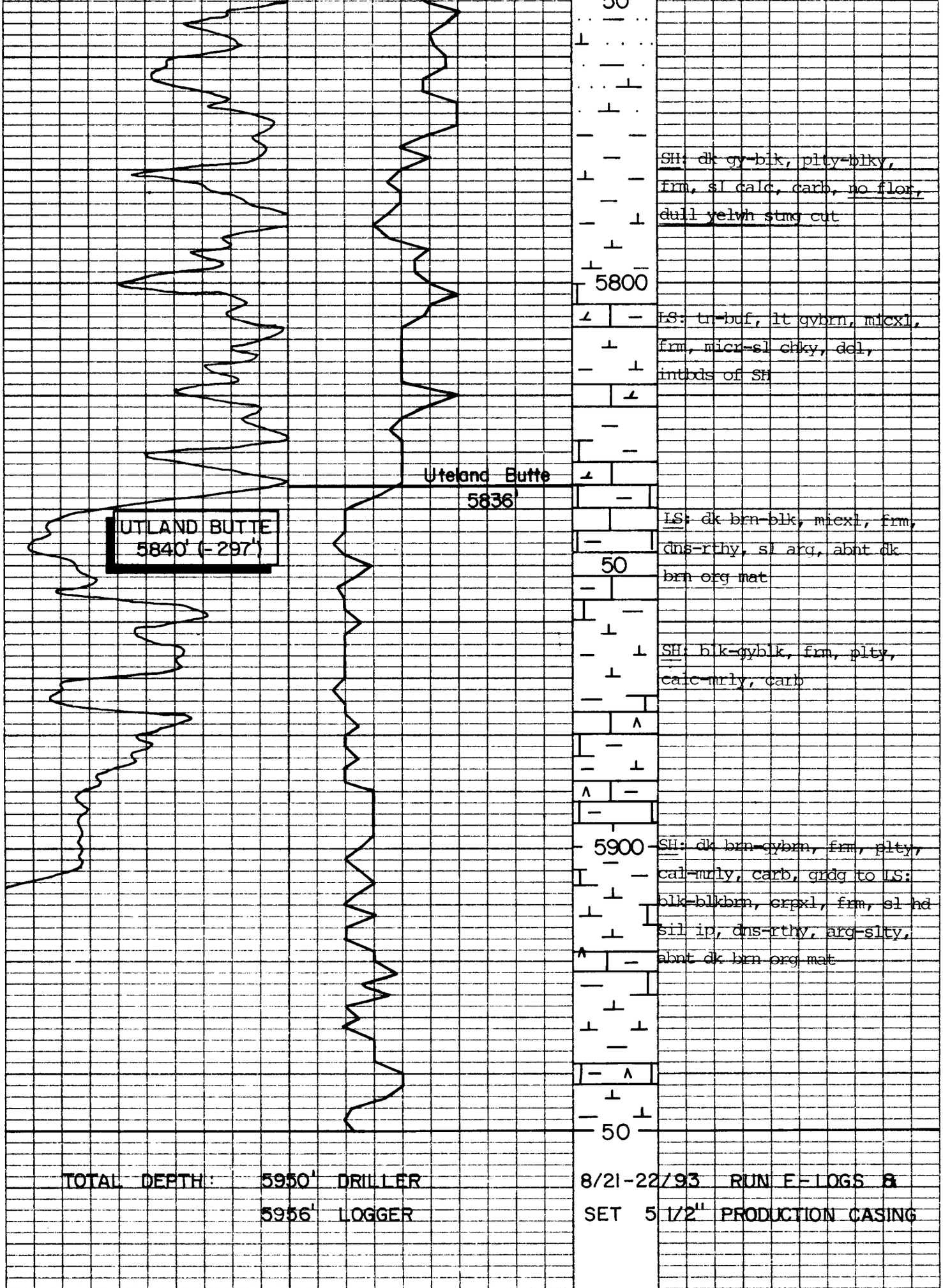
SLTST: lt-m gy, gywh, frm-sl hd, calc, grdg to vf gr SS

SS: wh-lt gy, f-m gr, sub ang, p srt, fr consol, calc cmt, tt

SLTST: lt-m gy, frm-sl hd, calc

SH: lt-m gy, gybrn, frm, blky-plty, calc-mrly, slty

SS: wh-lt gy, f-m gr, sub ang-sub rnd, p srt, p consol-unconsol, grdg to SLTST



TOTAL DEPTH: 5950' DRILLER
5956' LOGGER

8/21-22/93 RUN E-LOGS &
SET 5 1/2" PRODUCTION CASING

Balcron Oil
DAILY OPERATING REPORT

DATE: 9/17/93

****Yates Daily Operating Reports****

BALCRON FEDERAL #21-9Y
--TIGHT HOLE--

Operator: EREC/Balcron
Location: NE NW Section 9, T9S, R16E
Duchesne County, Utah
Prospect: Monument Butte

9-16-93 Completion
CP - 0. TP - 100 psig. Tag fluid @ 3000' from surface. made 3 swab runs, swabbed down to 4500', 30% swab back 12 bbls. Release packer. TIH, tag sand @ 5395' KB. Circ well clean to 6112', TOH w/tbg & pzcker. RU Schlumberger to perf, 4780'82', 4885'-96' KB 2 SPF. RD Schlumberger. TIH w/BP, 1 jt 2-7/8" tbg, 5-1/2" packer, seat nipple & 10 stds of 2-7/8" tbg. SWIFN.
DC: $5,056

BALCRON FEDERAL #21-13Y
---TIGHT HOLE---

Operator: Balcron/EREC
Location: NE NW Section 13, T9S, R16E
Duchesne County, Utah
Prospect: Green River

9-16-93 Completion
Start pumping, SPM 9, stroke length - 64".
DC: $975

EQUITABLE RESOURCES
ENERGY COMPANY

BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104

Office: (406) 259-7860
FAX: (406) 245-1365
FAX: (406) 245-1361

September 20, 1993

Bureau of Land Management
170 South 500 East
Vernal, UT 84078

Gentlemen:

RE: Balcron Federal #21-13Y
NE NW Section 13, T9S, R16E
Duchesne County, Utah

Enclosed is our report of first production on the referenced well. A site security diagram is also enclosed.

Sincerely,

Bobbie Schuman

Bobbie Schuman
Coordinator of Operations,
Environmental and Regulatory Affairs

/rs

Enclosures

cc: Utah Division of Oil, Gas and Mining

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.: U-64805

6. If Indian, Allottee or Tribe Name: n/a

7. If Unit or CA, Agreement Designation: n/a

1. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.: Balcron Federal #21-13Y

2. Name of Operator: Equitable Resources Energy Company, Balcron Oil Division

9. API Well No.: 43-013-31400

3. Address and Telephone No.: P.O. Box 21017; Billings, MT 59104 (406) 259-7860

10. Field and Pool, or Exploratory Area: Monument Butte/Grn. River

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NE NW Section 13, T9S, R16E
702.7' FNL, 1830.5' FWL

11. County or Parish, State: Duchesne County, UTAH

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other 1st production and site security diagram	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

First production on this well was on September 16, 1993.

A site security diagram is attached to this sundry notice.

RECEIVED
SEP 22 1993
DIVISION OF
OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct
Signed Bobbie Schuman Title Coordinator of Environmental and Regulatory Affairs Date 9-16-93
Bobbie Schuman

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

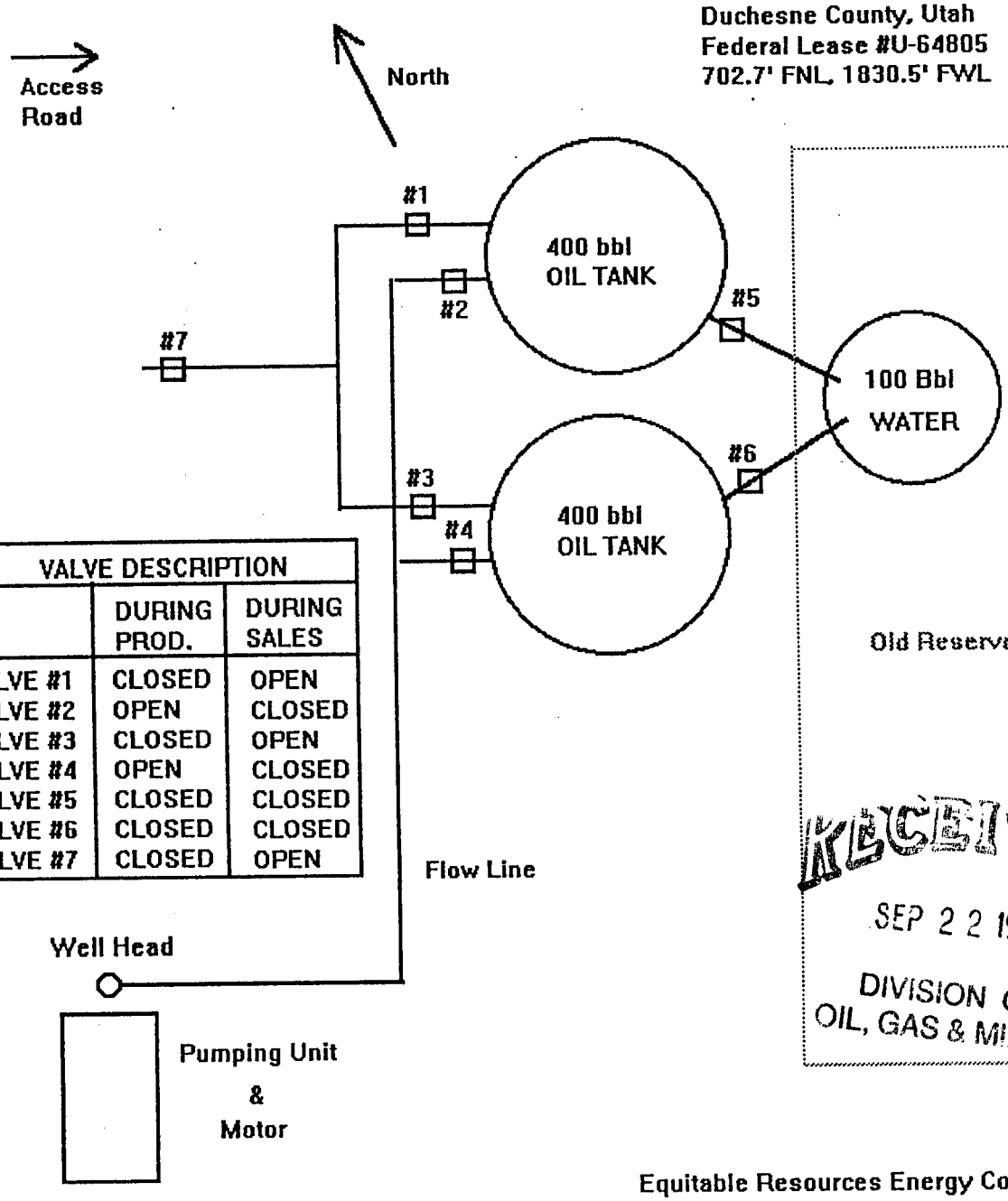
*See Instruction on Reverse Side

Equitable Resources Energy Company

Balcron Federal 21-13Y

Production Facility Diagram

Balcron Federal 21-13Y
NE NW Section 13, T9S, R16E
Duchesne County, Utah
Federal Lease #U-64805
702.7' FNL, 1830.5' FWL



VALVE DESCRIPTION		
	DURING PROD.	DURING SALES
VALVE #1	CLOSED	OPEN
VALVE #2	OPEN	CLOSED
VALVE #3	CLOSED	OPEN
VALVE #4	OPEN	CLOSED
VALVE #5	CLOSED	CLOSED
VALVE #6	CLOSED	CLOSED
VALVE #7	CLOSED	OPEN

Equitable Resources Energy Company
Balcron Oil Division
P.O. Box 21017
Billings, MT 59104
(406) 259-7860

DIAGRAM NOT TO SCALE

EQUITABLE RESOURCES
ENERGY COMPANY

BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104

Office: (406) 259-7860
FAX: (406) 245-1365
FAX: (406) 245-1361

October 25, 1994

Bureau of Land Management
170 South 500 East
Vernal, UT 84078

Gentlemen:

RE: Balcron Federal #21-13Y

Balcron Federal #41-21Y

Balcron Monument Fedeal #13-5

Balcron Monument Federal #22-5

Balcron Monument Federal #32-11J

Enclosed are the following items for the referenced wells:

Well Completion Report

The following items will follow under separate cover in a few days:

Site Security Diagram (Sundry Notice)
NTL2B Disposition of Produced Water (Sundry Notice)

Sincerely,

Molly Conrad

Molly Conrad
Operations Secretary

/mc

Enclosures

cc: Utah Division of Oil, Gas and Mining: Also enclosed is the Report of Water Encountered (Utah Form 7)

Form 3160-4
(November 1983)
(formerly 9-330)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

CONFIDENTIAL

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

2. NAME OF OPERATOR: Equitable Resources Energy Company, Balcron Oil Division

3. ADDRESS OF OPERATOR: P.O. Box 21017, Billings, MT 59104 (406) 259-7860

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: NE NW Section 13, T9S, R16E 702.7' FNL, 1830.5' FWL
At top prod. interval reported below
At total depth

5. LEASE DESIGNATION AND SERIAL NO.: U-64805
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: n/a
7. UNIT AGREEMENT NAME: n/a
8. FARM OR LEASE NAME: Balcron Federal
9. WELL NO.: #21-13Y
10. FIELD AND POOL, OR WILDCAT: Monument Butte/Green River
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Section 13, T9S, R16E

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
43-013-31400	6-21-93	Duchesne	Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
8-13-93	8-22-93	9-16-93	5535.5' GL	n/a

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
5950'	5892'	n/a	→	Sfc - TD	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
4751'-4765'
4309'-4325'
Green River

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: DLL - LDT - CNL - GR, CBL, CCL, mud log 8-24-93

27. WAS WELL CORED: No

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	259'	12-1/4"	150 sxs Premium + additives	n/a
5-1/2"	15.5#	5945.72'	7-7/8"	145 sxs Hilift + additives	n/a
				325 sxs Class "G" + additives	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)
n/a				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	4802'	n/a

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OCT 28 1993
DIVISION OF
OIL, GAS & MINING

31. PERFORATION RECORD (*Interval, size and number*)
4751'-4765' (2 SPF)
4309'-4325' (2 SPF)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4751'-4765'	20,140# 20/40 sand & 15,380# 16/30 sand w/371 bbls gelled 2% KCL water.
4309'-4325'	33,600# 16/30 sand w/377 bbls gelled 2% KCL water.

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
9-16-93	Pump - 1-1/2" Insert Pump	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
9-24-93	24	n/a		84	126	7	1500

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
n/a	n/a		84	126	7	34

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): Used for fuel.
TEST WITNESSED BY: Dale Griffin

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED [signature] TITLE Operations Manager DATE October 25, 1993

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RECEIVED

OCT 2 8 1993

DIVISION OF OIL, GAS & MINING

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries)

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
			No DST 's run.

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
See Geologic REport.		

REPORT OF WATER ENCOUNTERED DURING DRILLING - FORM 7 (1/89)

1. Well name and number: Balcron Federal #21-13Y
   API number: 43-013-31400

2. Well location: QQ NE NW section 13 township 9S range 16E county Duchesne

3. Well operator: Equitable Resources Energy Company, Balcron Oil Division
   Address: P.O. Box 21017 phone: (406) 259-7860
   Billings, MT 59104

4. Drilling contractor: Union Drilling Rig #18
   Address: Drawer 40 phone: (304)472-4610
   Buckhannon, WV 26201

5. Water encountered (continue on reverse side if necessary)

Depth		Volume (flow rate or head)	Quality (fresh or salty)
from	to		
		No water encountered.	

6. Formation tops: See Geologic Report.

If an analysis has been made of the water encountered, please attach a copy of the report to this form.

I certify that this report is true and complete to the best of my knowledge.

Name Dave McCoskery Signature
Title Operations Manager Date October 25, 1993

RECEIVED
OCT 28 1993
DIVISION OF OIL, GAS & MINING

Comments:

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIDENTIAL

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.: U-64805

6. If Indian, Allottee or Tribe Name: n/a

7. If Unit or CA, Agreement Designation: n/a

1. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.: Balcron Federal #21-13Y

2. Name of Operator: Equitable Resources Energy Company, Balcron Oil Division

9. API Well No.: 43-013-31400

3. Address and Telephone No.: P.O. Box 21017, Billings, MT 59104 (406) 259-7860

10. Field and Pool, or Exploratory Area: Monument Butte/Green River

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NE NW Section 13, T9S, R16E
702.7' FNL, 1830.5' FWL

11. County or Parish, State: Duchesne County, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[X] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other NTL2B	[ ] Dispose Water
		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

This sundry notice is to be considered as our NTL2B (Disposition of Produced Water) for this well.

Any water produced by this well will be held in a produced water tank and then hauled to a commercial disposal facility. See Site Security Diagram for location of water tank.

RECEIVED
NOV 02 1993
DIVISION OF
OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed [signature] Title Operations Manager Date October 25, 1993

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

EQUITABLE RESOURCES
ENERGY COMPANY

BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104

Office: (406) 259-7860
FAX: (406) 245-1365
FAX: (406) 245-1361

November 1, 1993

Bureau of Land Management
170 South 500 East
Vernal, UT 84078

Gentlemen:

RE: Balcron Federal #21-13Y

Balcron Federal #41-21Y

Balcron Monument Federal #13-5

Balcron Monument Federal #22-5

Balcron Monument Federal #32-11

Enclosed are our Site Security Diagrams and Sundries reporting Disposition of Produced Water for the referenced wells.

Please feel free to contact me if you need any additional information.

Sincerely,

Molly Conrad

Molly M. Conrad
Operations Secretary

/mc

cc: State of Utah, Division of Oil, Gas, & Mining

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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SUBMIT IN TRIPLICATE

CONFIDENTIAL

5. Lease Designation and Serial No.: U-64805

6. If Indian, Allottee or Tribe Name: n/a

7. If Unit or CA, Agreement Designation: n/a

1. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.: Balcron Fedeal #21-13Y

2. Name of Operator: Equitable Resources Energy Company, Balcron Oil Division

9. API Well No.: 43-013-31400

3. Address and Telephone No.: P.O. Box 21017; Billings, MT 59104 (406) 259-7860

10. Field and Pool, or Exploratory Area: Monument Butte/Grn.River

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NE NW Section 13, T9S, R16E
702.7' FNL, 1830.5' FWL

11. County or Parish, State: Duchesne County, UTAH

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other Site Security Diagram	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Attached is the Site Security Diagram for this well.

CONFIDENTIAL

NOV 0 2 1993

DIVISION OF
OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed Bobbie Schuman Title Coordinator of Environmental and Regulatory Affairs Date 11-1-93

Bobbie Schuman

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

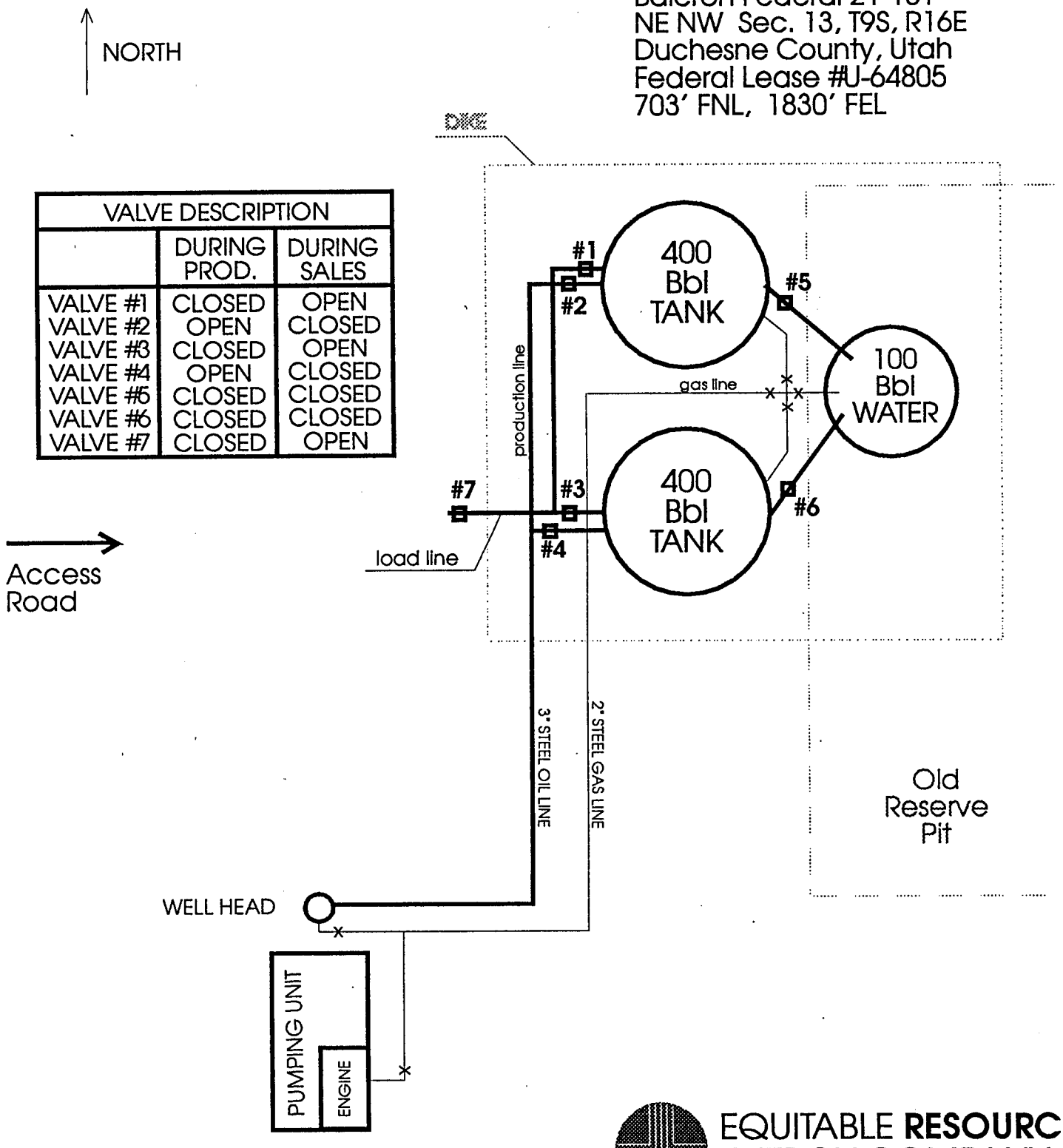
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

Equitable Resources Energy Company
Balcron Federal 21-13Y
Production Facility Diagram

Balcron Federal 21-13Y
NE NW Sec. 13, T9S, R16E
Duchesne County, Utah
Federal Lease #U-64805
703' FNL, 1830' FEL



VALVE DESCRIPTION		
	DURING PROD.	DURING SALES
VALVE #1	CLOSED	OPEN
VALVE #2	OPEN	CLOSED
VALVE #3	CLOSED	OPEN
VALVE #4	OPEN	CLOSED
VALVE #5	CLOSED	CLOSED
VALVE #6	CLOSED	CLOSED
VALVE #7	CLOSED	OPEN

DIAGRAM NOT TO SCALE

EQUITABLE **RESOURCES**
ENERGY COMPANY
BALCRON OIL DIVISION
1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104-1017
(406) 259-7860

EQUITABLE RESOURCES
ENERGY COMPANY

BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104

Office: (406) 259-7860
FAX: (406) 245-1365 ☐
FAX: (406) 245-1361 ☒

November 30, 1993

Bureau of Land Management
170 South 500 East
Vernal, UT 84078

Gentlemen:

As requested, enclosed are sundry notices which are being resubmitted to comply with Onshore Order #7 which covers disposition of produced waters. These are being resubmitted for the following wells:

Balcron Monument Federal #32-11
Balcron Monument Federal #22-5
Balcron Monument Federal #13-5
Balcron Federal #41-21Y
Balcron Federal #21-13Y
Balcron Federal #21-9Y
Balcron Monument Federal #23-5
Balcron Monument Federal #23-11
Balcron Federal #22-10Y
Balcron Federal #44-14Y
Balcron Federal #24-3Y

These are to replace the sundry notices which were filed as NTL2B.

Also enclosed for your information is a copy of the State approval of the primary facility at which we dispose of our produced water.

Sincerely,

Bobbie Schuman

Bobbie Schuman
Coordinator of Operations,
Environmental and Regulatory Affairs

/rs

Enclosures

cc: Utah Division of Oil, Gas and Mining

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

CONFIDENTIAL

5. Lease Designation and Serial No.: U-64805

6. If Indian, Allottee or Tribe Name: n/a

7. If Unit or CA, Agreement Designation: n/a

1. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.: Balcron Federal #21-13Y

2. Name of Operator: Equitable Resources Energy Company, Balcron Oil Division

9. API Well No.: 43-013-31400

3. Address and Telephone No.: P.O. Box 21017; Billings, MT 59104 (406) 259-7860

10. Field and Pool, or Exploratory Area: Monument Butte/Grn.River

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NE NW Section 13, T9S, R16E
702.7' FNL, 1830.5' FWL

11. County or Parish, State: Duchesne County, UTAH

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[X] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[XX] Other Onshore Order #7	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

DEC 01 1993

DIVISION OF
OIL, GAS & MINING

Any water produced by this well will be held in a produced water tank and trucked to a commercial disposal facility. The primary facility to be used is the R.N. Industries produced water disposal facility located in Section 9, T2S, R2W in Duchesne County, Utah. A copy of the State-issued permit for that facility is on file at the Vernal Bureau of Land Management. If for some reason the operator is unable to use this primary disposal facility, the produced water will be trucked to another State-approved disposal facility. If applicable, Operator has received approved Right-of-Way access to this well location from the Vernal Bureau of Land Management.

14. I hereby certify that the foregoing is true and correct

Signed Bobbie Schuman (Bobbie Schuman) Title Coordinator of Environmental and Regulatory Affairs Date November 30, 1993

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any: Federal Approval of this Action is Necessary

Accepted by the State of Utah Division of Oil, Gas and Mining

Date: 12-3-93

By: [signature]

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

UTAH DIVISION OF OIL, GAS AND MINING
EQUIPMENT INVENTORY

Operator: EQUITABLE RESOURCES COMPANY Lease: State: ____ Federal: Y
Indian: ____ Fee: ____

Well Name: BALCRON FEDERAL # 21-13Y API Number: 43-013-31400
Section: 13 Township: 9S Range: 16E County: DUCHESNE Field:
MONUMENT BUTTES
Well Status: POW Well Type: Oil: Y Gas: ____

PRODUCTION LEASE EQUIPMENT: Y CENTRAL BATTERY: ____

Y Well head ____ Boiler(s) ____ Compressor ____ Separator(s)
____ Dehydrator(s) ____ Shed(s) ____ Line Heater(s) ____ Heated Separator
____ VRU ____ Heater Treater(s)

PUMPS:
____ Triplex ____ Chemical (1) Centrifugal

LIFT METHOD:
Y Pumpjack ____ Hydraulic ____ Submersible ____ Flowing

GAS EQUIPMENT:

N Gas Meters N Purchase Meter N Sales Meter

TANKS:	NUMBER		SIZE
	Y	Oil Storage Tank(s)	2-400 BARREL OIL TANKS BBLS
	Y	Water Tank(s)	1-130 BARREL PIT TANK BBLS
	____	Power Water Tank	____ BBLS
	____	Condensate Tank(s)	____ BBLS
	(1)	Propane Tank	

REMARKS: VENTING SMALL AMOUNT OF GAS AT PIT (NO SALES LINE AT PRESENT TIME). PIT TANK IS OPEN-TOP, SUBSURFACE WITH OPEN AREA AROUND SAME FOR LEAK DETECTION. CENTRIFUGAL IS GLYCOL TRACE PUMP.

Location central battery: Qtr/Qtr: ____ Section: ____ Township: ____
Range: ____

Inspector: DENNIS INGRAM Date: 1/20/94

EQUITABLE **RESOURCES**
ENERGY COMPANY

BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104

Office: (406) 259-7860
FAX: (406) 245-1365
FAX: (406) 245-1361

CONFIDENTIAL

RECEIVED
FEB 11 1994

DIVISION OF
OIL GAS & MINING

February 9, 1994

Bureau of Land Management
170 South 500 East
Vernal, UT 84078

Gentlemen:

RE: Balcron Federal #21-9Y
Balcron Federal #22-10Y
Balcron Federal #21-13Y 43-013-31400
Balcron Federal #44-14Y

Enclosed for your files is a copy of the daily operating reports for the referenced well.

Please feel free to contact me if you need any additional information.

Sincerely,

Molly Conrad

Molly M. Conrad
Operations Secretary

/mc

Enclosures

cc: State of Utah, Division of Oil, Gas, & Mining

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**
702.7' FNL, 1830.5' FWL
PTD: 5900' Formation: Green River
Green River Prospect/Monument Butte Field
Elevations: 5535.5' GL
Contractor: Union Drilling Rig #18
Operator: Balcron/EREC
Spud: 8/13/93 @ 11:45 p.m.
Casing: 8-5/8" @ 259
5-1/2" @ 5940.72'
Tubing: 2-7/8" @ 4820'

8-5-93 Present Operation: Building location.
Start location, move rock and dirt.

8-6-93 Present Operation: Build location.

8-7-93 Present Operation: Work on pit.
Had to drill 35 holes & shoot.

8-8-93 Present Operation: Shut down.

8-9-93 Present Operation: Finish location & road.

8-11-93 Present Operation: Install pit liner & haul water.
CC: $19,656

8-14-93 TD: 232' (232') Day 1
Formation: Uintah
Present Operation: Drilling surface.
SPUD @ 11:45 PM, 8/13/93. Move & rig up. Drill rat hole, drill & set conductor. Nipple up air head, drill surface hole.
DC: $14,553 CC: $34,209

8-15-93 TD: 275' (43') Day 2
Present Operation: Drill cement.
Finish drill surface hole. Nipple down air head. Pull conductor pipe & run 6 jts 8-5/8" casing. Cement with 150 sx Premium Plus cement with 2% CCL & 1/4# per sx Flocele. Good returns, approx 6 BBLS cement back. Plug down @ 11:15 AM, 8/14/93. Cement with Halliburton. WOC. Weld on head, nipple up. Test BOP & manifold to 2000# - OK. Had to run cup plug to test pipe to 1500#.
DC: $8,999 CC: $43,208

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

8-16-93 TD: 1,555' (1,280') Day 3
MW 8.4 Vis 27 pH 10
Formation: Green River
Present Opertion: Drilling.
Drill cement, survey, change air head rubber, drill.
DC: $16,555 CC: $59,763

8-17-93 TD: 3,013' (1,458') Day 4
Formation: Green River
Present Operation: Drilling.
Drill, survey, clean on rig.
DC: $20,202 CC: $79,965

8-18-93 TD: 4,062' (1,049') Day 5
MW 8.4 Vis 27 pH 10
Formation: Green River
Present Operation: Survey.
Drill, survey, clean on rig.
DC: $14,278 CC: $94,243

8-19-93 TD: 4,550' (488') Day 6
MW 8.4 VIS 27 pH 10.3
Formation: Green River
Present Operation: Drilling.
Drill, survey, load hole with fluid, trip out for bit.
Trip in & drill with fluid.
DC: $7,776; CC: $102,019

8-20-93 TD: 5,122' (572') Day 7
MW 8.4, VIS 27 pH 10.6
Formation: Green River
Present Operation: Drilling.
Drill, survey, clean on rig, repair lights.
DC: $9,451 CC: $111,470

8-21-93 TD: 5,741' (619') Day 8
MW 8.4 VIS 27 pH 10.4
Formation: Green River
Present Operation: Drilling.
Drill, survey, clean on rig.
DC: $8,630; CC: $120,100

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

8-22-93 TD: 5,950' (199') Day 9
MW 8.4 VIS 27 pH 11.1
Formation: Green River
Present Operation: Lay down drill pipe.
Drill, circulate for logs, survey, trip out. Log well. TIH & circulate. Start to lay down drill pipe. Unload 139 jts 5-1/2" casing.
DC: $18,168 CC: $138,268

8-23-93: TD: 5,950 (-0-) Day 10
Formation: Green River
Prsent Operation: Move rig.
Lay down drill pipe & collars. Rig up casers & run 5-1/2" casing. Cement with Dowell. Set slips, ND BOP & clean tanks.

Guide shoe	.70'
1 jt 5-1/2", 15.50 K-55 shoe jt	44.86'
1 float collar	2.75'
138 jts 5-1/2", 15.50 csg w/20 centralizers	5,884.91'
landing joint	12.50'
	5,945.72'

Set @5,940.72'. PBTD 5,892'.

Cement with 145 sxs Hilift + additives & tail w/325 sxs Class "G" + additives. Good returns. Plug down 3:30 PM 8/22/93. **Release rig 7:30 PM 8/22/93.**
DC: $57,688 CC: $195,956

8-24-93 Dress up location w/grader. Set rig anchors; set tanks; move rig in.
DC: $2,304 CC: $198,260

8-25-93 Rig up AAA Well Service Rig #1. NU wellhead; NU BOP. TIH w/4-3/4" bit, 5-1/2" scraper, & 190 jts tbg. Tag PBTD @ 5,888'KB. Circulate well clean w/2% KCL water. TOOH w/tbg & scraper.
DC: $12,292 CC: $210,552

8-26-93 RU Schlumberger to Bond Log & perforate. Bond Log from PBTD to 3,500' and from 1650' to cement top at 1,040'KB. Perforate 4,751'-4,765'KB w/2 SPF. TIH w/hd packer & 150 jts of 2-7/8" tbg. Set packer @4,650'KB. SWIFN.
DC: $5,838 CC: $216,390

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

8-27-93 Cas "0" PSIG. RU Halliburton to do breakdown. Pressure test surface equipment to 4500 PSIG - OK. Pump 5 bbls water break @3400 PSI, break to 1500 @ 4 BPM. Pump 26 balls. No ball off at 4 BPM. Surge ball off perfs. Pump 18 bbls for rate, 6-1/4 BPM at 2500 PSIG. Made 5 swab runs. Swab back 22 bbls water, flow back 32 bbls water. ISIP 1550 PSIG, slight oil cut on swab. TOOH w/tbg & packer. SWIFN. Total load used - 125 bbls water; load recovered 54 bbls water; TOTAL LOAD TO RECOVER 71 bbls water.
DC: $2,464 CC: $218,854

8-28-93 Rig up Western to frac. Casing pressure "0" PSIG. Pressure test surface equipment to 5000 PSIG - OK. Frac well with 20,140 lbs of 20/40 & 15,380 lbs of 16/30 @ 20 BPM. Average treating pressure 1900 psi. Maximum treating pressure 2350 psi. ISIP 1850 psi, 5 minutes 1480 psi, 10 minutes 1450 psi, 15 minutes 1400 psi. SWIFN. Load used in frac 371 bbls water. Total load to recover 442 bbls water.
DC: $16,932 CC: $235,786

---SEE ATTACHED REPORT - 2 PAGES---

8-30-93 Casing PSIG "0", bleed well off. TIH w/5-1/2" packer & 2-7/8" tbg, tag fill @ 5,685'KB. POOH to 4,727'. Set packer. Made 18 swab runs. Flowed & swabbed 86 bbls fluid. Last three runs 30% oil, average oil % = 10. Last three runs - no sand. Release packer, tag fill @ 5,555'KB. Circulate down to PBTD. TOOH w/50 jts 2-7/8" tbg. SDFN.
DC: $2,531 CC: $238,317

8-31-93 Cas "0" PSIG, tbg "0" PSIG. TOOH w/tbg & packer. RU Schlumberger to perf @ 4,309'-4,325', 2 SPM. RD Schlumberger. TIH w/5-1/2" retrievable bridge plug, right head, 1 jt 2-7/8" tbg, one 5-1/2" R-3 packer, seating nipple & 141 jts 2-7/8" tbg. Set bridge plug at 4,396'KB, pressure test bridge plug 1000 PSIG - OK 5 minutes. POOH w/7 jts 2-7/8" tbg, set packer @ 4,165'KB, bottom of tubing @ 4,196'KB. Pressure test surface equipment 4000 PSIG - OK. RU Western to break down perfs. Initial break @ 2500 PSIG, start 1 ball per bbl. Start break down, 37 bbls water, 6 balls total, no ball off. 3 & 4 BPM. Pump for rate 1350 PSIG at 6.0 BPM. Flow back 10 bbls water, made 4 swab runs, got trace of oil. Unseat packer. TOOH w/tbg & packer. Swabbed 30 bbls water. SWIFN.
DC: $5,039 CC: $243,356

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

9-1-93 RU Western & prepare to frac. Pressure test surface equipment to 4500 PSIG - OK. Frac well with 33,600# 16/30 sand. Max. treating pressure 2200 psi; average treating pressure 2050 psi; average rate 24.5 BPM. ISIP 1800 psi, 5 minutes 1550 psi, 10 minutes 1460 psi, 15 minutes 1360 psi. SWIFD. Load used 377 bbls water; total load to recover 820.
DC: $18,437 CC: $261,793

9-2-93 Casing 100 PSIG. Flowed 5 bbls water. TIH w/1 bridge plug retrieving tool, 1 jt 2-7/8" tbg, one 5-1/2" packer & 125 jts 2-7/8" tbg. Tag fill @ 3,921' KB. RU to circulate sand out to 4,355'. Set packer @ 4,288'. Made 23 swab runs, swab fluid level down to 3,700'. Last 3 runs 30% oil. Still getting sand. SWIFN. Load recovered 65 bbls water. Total load to be recovered 755 bbls water.
DC: $2,235 CC: $264,028

9-3-93 Completion
Csg - 9 psig, tbg - 230 psig. Flow back 1 BO. Made 8 swab runs. Recovered 42 BOF - 50% oil. Release packer, tag sand fill @ 4340', circ clean to 4396'. Release BP, TOOh w/tbg, BP & packer. TIH w/production string: 1 jt 2-7/8" tbg, EUE, J-55, 8RD, 6.5# set 4802' KB; 1 perf sub 2-7/8" x 3'; 1 seat nipple; 154 jts tbg 2-7/8" EUE, J-55, 8rd, 6/5#. Landed @ 4771' KB. Load recovered today 21 BOW. Total load to recover 734 BOW.
DC: $4,648 CC: $268,676

9-6-93 Completion.
TIH w/rods. TP - 0 psig; CP - Vac.

9-7-93 Completion
CP - 0 psig, TP - 0 psig. Flush tbg w/hot wtr. TIH w/1 BHP 2-1/2 x 1-1/2 x 16' ring plunger; one 3/4 x 2' pony; six 1" x 25' rods w/2-1/2" guides EL; 184 3/4" x 25' rods plain; one 3/4" x 6' pony; one 1/14" x 16' polish rod; spool out 4" off. Rig down & move off. Load to recover 734 BW.
DC: $23,103

9-16-93 Completion
Start pumping, SPM 9, stroke length - 64".
DC: $975

The Western Company—Treatment Report

Date 8-28-93 District VERNAL F. Receipt 262241 Operator BALCRON OIL CO.
Lease FEDERAL Well No. 21-134 Field MONUMENT BUTTES Location S13-T9S-R16E
County DUCHESNE State UT. Stage Number 1 This Zone X This Well X

WELL DATA OG☐ NG☐ NO☒ OO☐ WD☐ IW☐ Misc.☐ Depth TD (PB) 5888 Formation GREEN RIVER
Tubing Size — WT. — Set at: — Type Packer — Set At —
Casing Size 5½ WT. 15.5# Set From SURFACE To TD Liner Size — Wt. —
Liner Set From — To — Open Hole: Size — From — To — Casing Perforations: Size 49
Holes Per Foot 2 Intervals 4751 - 4765' (28 HOLES)
Previous Treatment N/A Prior Production N/A

TREATMENT DATA Pad Used: Yes☒ No☐ Pad Type VIKING I 35#
Treating Fluid Type: Foam☐ Water☐ Acid☒ Oil☐ Treat. Fluid Vol. 10,878 Gal.
Base Fluid Type VIKING I 35# Base Fluid Vol. 10,878 Gal.
Foam Qual.: ____ % Mitchell☐ Slurry☐ Surface☐ Downhole☐ Total Prop Qty. 37,980 Lbs.
Prop Type: Sand☒ WP-1☐ WP-3☐ Baux.☐ Other
Prop Mesh Sizes, Types and Quantities 20/40 - 22,600 16/30 - 15,380
Hole Loaded With KCL WATER Treat Via: Tubing☐ Casing☒ Anul.☐ Tubing & Anul.☐
Ball Sealers: — In — Stages of —
Types and Number of Pumps Used BJ 1000 - 3
Auxiliary Materials

PROCEDURE SUMMARY

LIQUID/GAS PUMPED A CAPACITIES IN BBLS

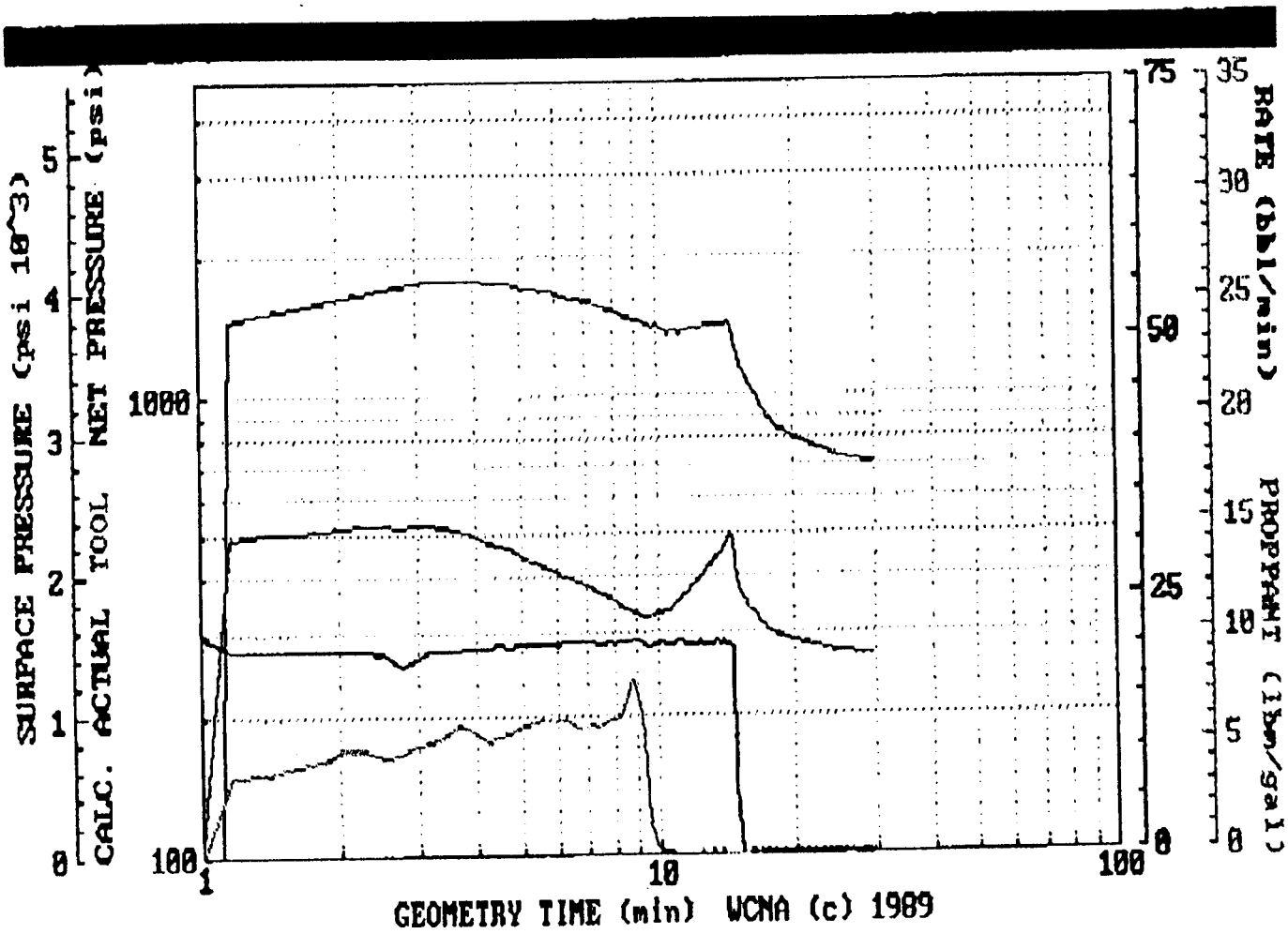
Tubing Cap.	—
Casing Cap.	113
Annular Cap.	—
Open Hole Cap.	—
Fluid to Load	30
Pad Volume	95
Treating Fluid	259
Flush	112
Overflush	—
Fluid to Recover	371
Total N^2	—
Total CO_2	—

Time AM/PM	Treating Pressure-Psi STP	Annulus	Surface Slurry BBLS. Pumped Stage	Total	Slurry Rate BPM	Surface CO_2 BBLS. Pumped Stage	Total	CO_2 Rate BPM	Surface N^2 MSCF Pumped Stage	Total	N^2 Rate SCFM	Comments
6:58	—	—	—	—	—							TEST LINES @ 5000 psi
7:14	@	—	—	—	21.5							START PAD
7:20	2140	—	—	95	20.1							START 2.0# 20/40
7:20	2200	—	—	105	20.1							START 3.0# 20/40
7:21	2230	—	—	127	19.8							START 4.0# 20/40
7:23	2350	—	—	152	20.0							START 5.0# 20/40
7:24	2310	—	—	184	19.9							START 6.0# 20/40
7:27	2010	—	—	228	20.3							START 6.0# 16/30
7:29	1800	—	—	272	20.3							START 7.0# 16/30
7:30	1680	—	—	300	20.3							START FLUSH
7:31	1850	—	—	412	—							SHUTDOWN ALL FLUSH
												1480 psi 5 MIN
												1450 psi 10 MIN
												1400 psi 15 MIN

Treating Pressure: Min. 1680 Max. 2350 Avg. 1900 Customer Representative MR. DALE GRIFFIN
Inj. Rate on Treating Fluid 20 Rate on Flush 20 Western Representative J. STEANLE
Avg. Inj. Rate 20 I.S.D.P. 1850 Flush Dens. lb./gal. 8.4 Distribution BALCRON
Final Shut-In Pressure 1400 in 15 Minutes
Operator's Maximum Pressure 3000 psi

Job Number Recommendation ID #

CNA 1210 1300


SURFACE PRESSURE (psi 10^3)
CALC. ACTUAL TOOL NET PRESSURE (psi)
RATE (bbl/min)
PROPPANT (lbm/gal)
GEOMETRY TIME (min) WCNA (c) 1989
0
1
2
3
4
5
1000
100
1
10
100
75
50
25
0
35
30
25
20
15
10
5
0

orm 3160-5
une 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.: U-64805

6. If Indian, Allonee or Tribe Name: n/a

7. If Unit or CA, Agreement Designation: n/a

1. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.: Balcron Federal #21-13Y

2. Name of Operator: Equitable Resources Energy Company, Balcron Oil Division

9. API Well No.: 43-013- 31400

3. Address and Telephone No.: P.O. Box 21017; Billings, MT 59104 (406) 259-7860

10. Field and Pool, or Exploratory Area: Monument Butte/Green River

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NE NW Section 13, T9S, R16E
703' FNL, 1831' FWL

11. County or Parish, State: Duchesne County, UTAH

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[X] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other off-lease meter	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Operator requests approval for off-lease measurement of gas on this well. A map showing the location of the meter is attached.

The location of the meter is shown on Federal Right-of-Way #UTU-71256.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORDS ONLY

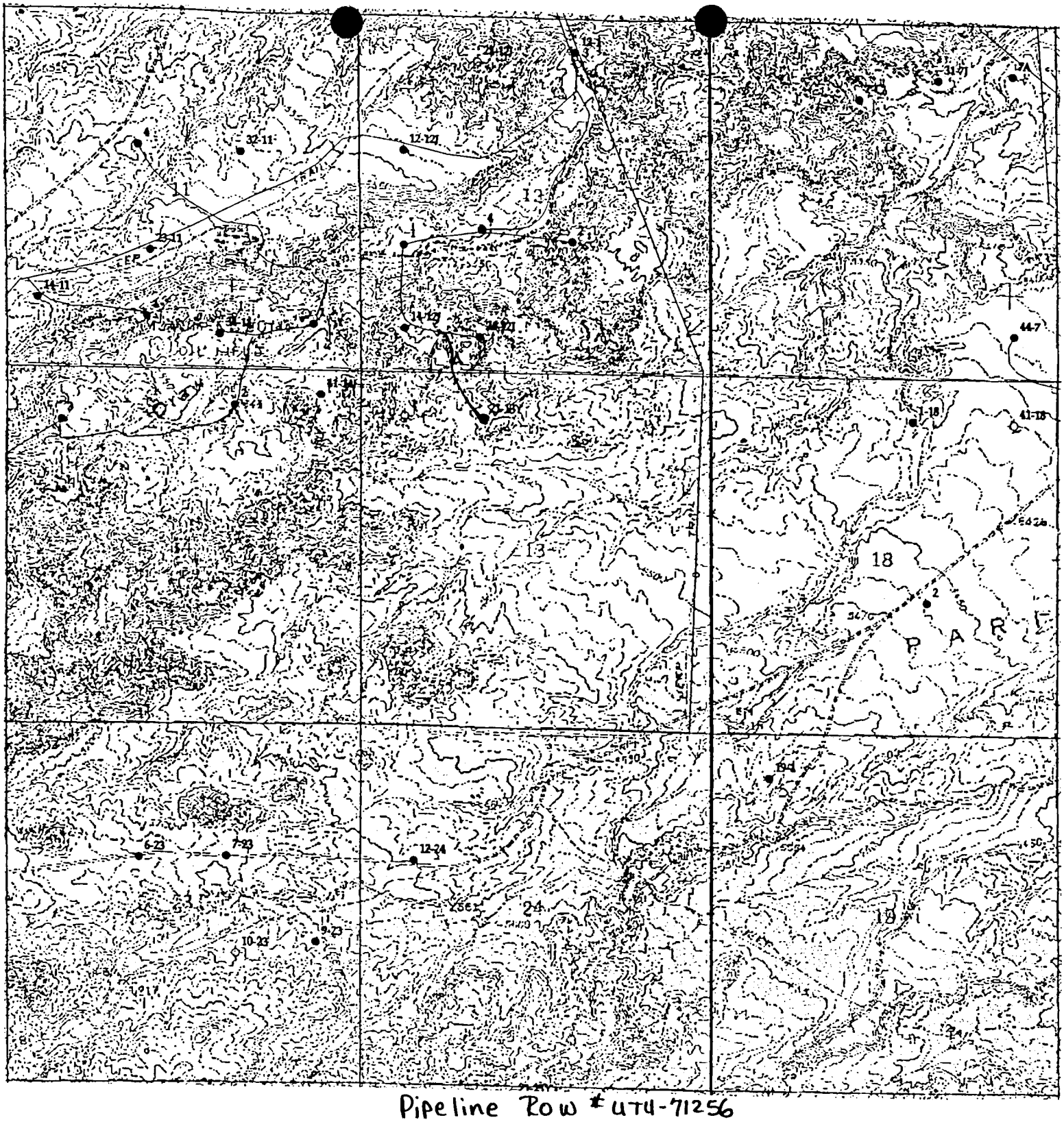
RECEIVED
JAN 13 1995
DIV OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct
Signed Bobbie Schuman Title Regulatory and Environmental Specialist Date January 13, 1995
Bobbie Schuman
(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side



Pipeline Row # UTU-71256

Existing Gas Lines

Proposed 2" Poly Lines (ROW)

▲ Proposed Gas Meter

Equitable Resources Energy Company
Balcron Oil Division

Monument Butte Gas Plant
Gas Gathering System

5-1-94 IZ

21-13J

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
JUL 17 1995
DIV OF OIL, GAS & MINING

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.: U-64805

6. If Indian, Allottee or Tribe Name: n/a

7. If Unit or CA, Agreement Designation: n/a

1. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.: Balcron Federal #21-13Y

2. Name of Operator: Equitable Resources Energy Company, Balcron Oil Division

9. API Well No.: 43-013-31400

3. Address and Telephone No.: 1601 Lewis Avenue; Billings, MT 59102 (406) 259-7860

10. Field and Pool, or Exploratory Area: Monument Butte/Green River

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NE NW Section 13, T9S, R16E
703' FNL, 1831' FWL

11. County or Parish, State: Duchesne County, UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[X] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other off-lease meter	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Operator requests approval for off-lease natural gas measurement for this well. It is desired to place the gas meter off-lease to reduce the distance that our gas plant operator must travel each day. The operator must check the meter daily. Due to rocky terrain this necessitates driving several each additional miles each day if the meter were located on lease. Less driving also aids with dust control. See attached map for the meter location.

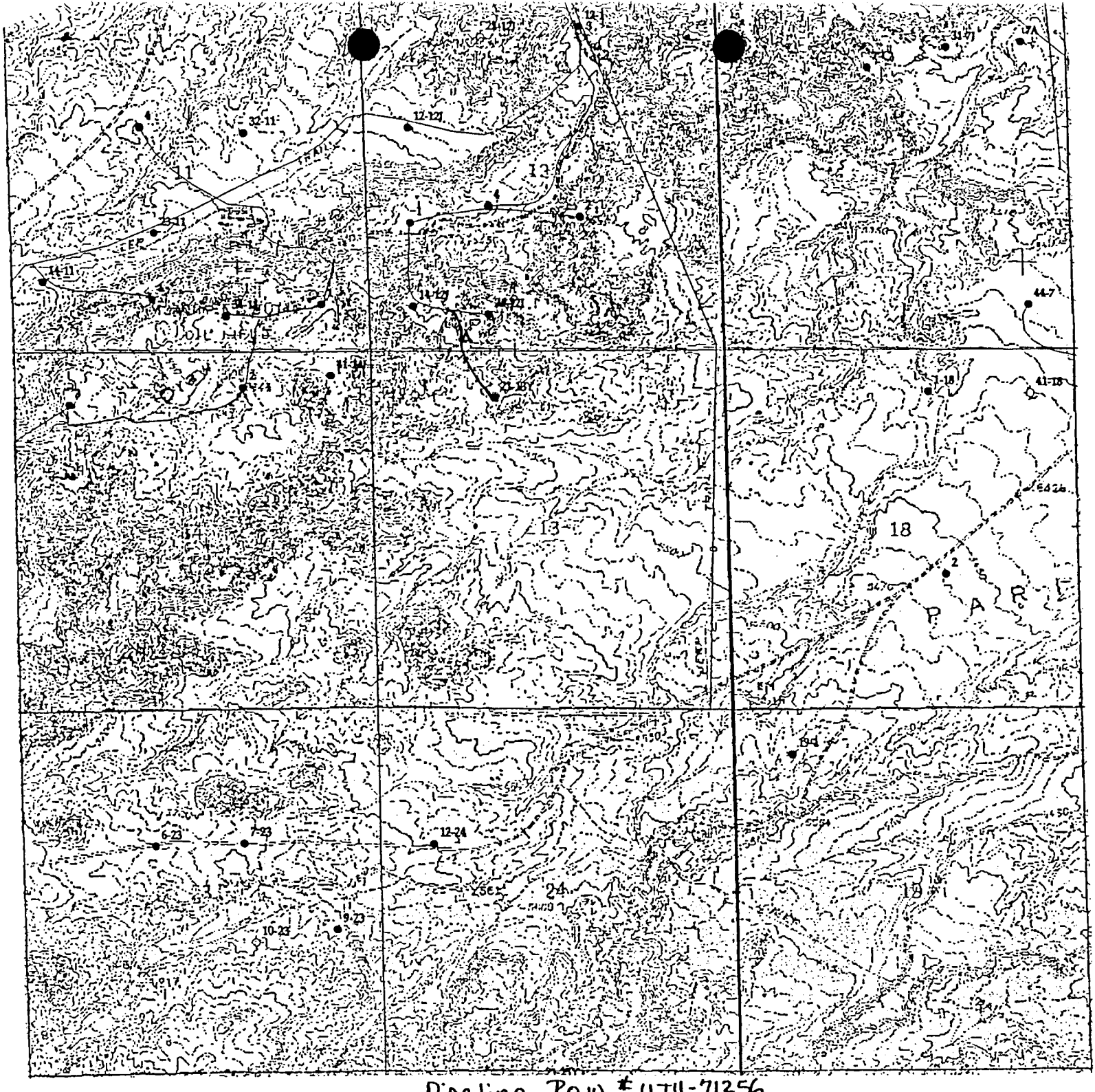
14. I hereby certify that the foregoing is true and correct
Signed Bobbie Schuman Title Regulatory and Environmental Specialist Date July 13, 1995
Bobbie Schuman

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side



Pipeline ROW # UTU-71256

Existing Gas Lines

Proposed 2" Poly Lines (ROW)

Proposed Gas Meter

Equitable Resources Energy Company
Balcron Oil Division

Monument Butte Gas Plant
Gas Gathering System

21-13J

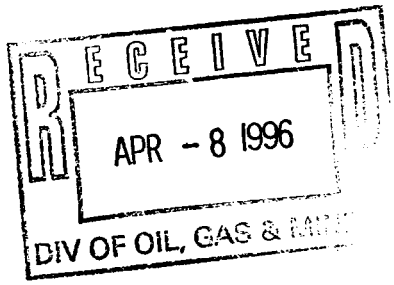
5-1-94 IZ

EQUITABLE RESOURCES
ENERGY COMPANY

BALCRON OIL DIVISION

1601 Lewis Avenue
Billings, MT 59102

Office: (406) 259-7860
FAX: (406) 245-1365 ☐
FAX: (406) 245-1361 ☒



March 22, 1996

Utah Division of Oil, Gas and Mining
355 West North Temple
Salt Lake City, UT 84180

Gentlemen:

Effective April 1, 1996, our name will change from Equitable Resources Energy Company, Balcron Oil Division to Equitable Resources Energy Company. Attached is a sundry notice reflecting that change. To simplify paperwork, I have done one sundry notice with copies for each of the wells. To this letter I have attached a list of our wells for your ease in filing the sundry notices in the well files. This should be sufficient for your purposes.

I have the listings on a spreadsheet so if it would be easier for you to have them sorted differently (for example, the Montana Board of Oil and Gas prefers them sorted by API number), please give me a call at (406) 259-7860, extension 240 and I would be glad to provide a list to your specifications.

This change affects only our company name. The physical locations of our offices and the personnel remain the same. We will be changing our well signs and ask for your patience and cooperation as this will be done as soon as possible but may take some time since we do have so many properties at which to make the change.

If you have any questions, please do not hesitate to give me a call.

Sincerely,

Bobbie Schuman

Bobbie Schuman
Regulatory and
Environmental Specialist

/hs

Enclosures

FORM 9

STATE OF UTAH

DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:	See attached listing
6. If Indian, Allottee or Tribe Name:	n/a
7. Unit Agreement Name:	See attached listing
8. Well Name and Number:	See attached listing
9. API Well Number:	See attached listing
10. Field and Pool, or Wildcat:	See attached listing

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL ☐ GAS ☐ OTHER: See attached listing

2. Name of Operator: Equitable Resources Energy Company, Balcron Oil Division

3. Address and Telephone Number: 1601 Lewis Avenue Avenue; Billings, MT 59102 (406) 259-7860

4. Location of Well

Footages: See attached listing County: See attached list

QQ, Sec.,T.,R.,M.: State: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
☐ Abandon	☐ New Construction	☐ Abandon *	☐ New Construction
☐ Repair Casing	☐ Pull or Alter Casing	☐ Repair Casing	☐ Pull or Alter Casing
☐ Change of Plans	☐ Recomplete	☐ Change of Plans	☐ Reperforate
☐ Convert to Injection	☐ Reperforate	☐ Convert to Injection	☐ Vent or Flare
☐ Fracture Treat or Acidize	☐ Vent or Flare	☐ Fracture Treat or Acidize	☐ Water Shut-Off
☐ Multiple Completion	☐ Water Shut-Off	☒ Other Operator name change	
☐ Other _____			

Approximate date work will start _____

Date of work completion _____

Report results of **Multiple Completions** and **Recompletions** to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Effective April 1, 1996, operator will change its name from Equitable Resources Energy Company, Balcron Oil Division TO: Equitable Resources Energy Company. Physical location of the operator remains as: 1601 Lewis Avenue; Billings, MT 59102 (406) 259-7860, FAX: (406) 145-1361. This is to report the operator name change only. It affects the wells on the attached listing.

13.

Name & Signature: Bobbie Schuman
Bobbie Schuman

Title: Regulatory and Environmental Specialist Date: March 27, 1996

(This space for State use only)

(4\94)

(See Instructions on Reverse Side)

FORM 10

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
355 West North Temple, 3 Triad, Suite 350, Salt Lake City, UT 84180-1203

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

BALCRON OIL DIVISION
EQUITABLE RESOURCES ENERGY
1601 LEWIS AVE
BILLINGS MT 59102-4126

UTAH ACCOUNT NUMBER: N9890

REPORT PERIOD (MONTH/YEAR): 3 / 96

AMENDED REPORT ☐ **(Highlight Changes)**

Well Name / API Number / Entity / Location	Producing Zone	Well Status	Days Oper	Production Volumes OIL(BBL)	GAS(MCF)	WATER(BBL)
COYOTE FEDERAL 21-5 4304732260 11500 08S 25E 5	GRRV					
COYOTE FEDERAL 13-5 4304732261 11500 08S 25E 5	GRRV					
FEDERAL 22-10Y 4301331395 11501 09S 17E 10	GRRV					
FEDERAL 41-21Y 4301331392 11505 09S 16E 21	GRRV					
FEDERAL 44-14Y 4304732438 11506 09S 17E 14	GRRV					
FEDERAL 21-13Y 91331400 11510 09S 16E 13	GRRV					
FEDERAL 21-9Y 4301331396 11513 09S 16E 9	GRRV					
FEDERAL 21-25Y 4301331394 11530 09S 16E 25	GRRV					
MONUMENT FEDERAL 11-25 4304732455 11625 08S 17E 25	GRRV					
ALLEN FEDERAL 31-6G 4301331442 11642 09S 17E 6	GRRV					
BALCRON FEDERAL 41-19Y 4304732504 11651 09S 18E 19	GRRV					
BALCRON MONUMENT STATE 14-2 4301331425 11656 09S 17E 2	GRRV					
FEDERAL 44-4Y 4301331452 11679 09S 17E 4	GRRV					
			TOTALS			

COMMENTS:

I hereby certify that this report is true and complete to the best of my knowledge. Date:

Name and Signature: Telephone Number:

(12/93)

Balcron Coyote Fed. #42-6X	Coyote Basin	SE NE	6	8S	25E	Uintah	UT	OSI	Green River	U-017439-B	43-047-32346	1987' FNL, 682' FEL	Vernal	Coyote Basin
Balcron Coyote Fed. #44-6	Coyote Basin	SE SE	6	8S	25E	Uintah	UT	PND	Green River	U-017439B	43-047-32421	560' FSL, 760' FEL	Vernal	Coyote Basin
Balcron Federal #12-20Y	8 Mile Flat N.	SW NW	20	9S	18E	Uintah	UT	Oil	Green River	U-64917	43-047-32617	1980' FNL, 660' FWL	Vernal	
Balcron Federal #12-22Y	8 Mile Flat N.	SW NW	22	8S	17E	Duchense	UT	Oil	Green River	U-66191	43-013-31476	2105' FNL, 660' FWL	Vernal/Priv.sfc.	
Balcron Federal #21-13Y	Monument Butte	NE NW	13	9S	16E	Duchesne	UT	Oil	Green River	U-64805	43-013-31400	703' FNL, 1831' FWL	Vernal	
Balcron Federal #21-25Y	Monument Butte	NE NW	25	9S	16E	Duchesne	UT	Oil	Green River	U-64380	43-013-31994	500' FNL, 1980' FWL	Vernal	
Balcron Federal #21-9Y	Monument Butte	NE NW	9	9S	16E	Duchesne	UT	Oil	Green River	U-65207	43-013-31396	476' FNL, 2051' FWL	Vernal	
Balcron Federal #22-10Y	Monument Butte	SE NW	10	9S	17E	Duchesne	UT	Oil	Green River	U-65210	43-013-31395	1980' FNL, 1980' FWL	Vernal	
Balcron Federal #24-3Y	Monument Butte	SE SW	3	9S	17E	Duchesne	UT	Oil	Green River	U-64381	43-013-31397	562' FSL, 1887' FWL	Vernal	
Balcron Federal #31-14Y	Undesignated	NW NE	14	9S	19E	Uintah	UT	PND	WASATCH	U-66193		500' FNL, 2740' FWL	Vernal/Priv.sfc.	
Balcron Federal #31-19Y	8 Mile Flat N.	NW NE	19	9S	18E	Duchesne	UT	Oil	Green River	U-65635	43-047-32614	660' FNL, 1880' FEL	Vernal	
Balcron Federal #31-5Y	8 Mile Flat N.	NW NE	5	9S	18E	Uintah	UT	Oil	Green River	U-65970	43-047-32503	660' FNL, 1980' FEL	Vernal	
Balcron Federal #32-19Y	8 Mile Flat N.	SW NE	19	9S	18E	Uintah	UT	Oil	Green River	U-65635	43-047-32615	1980' FNL, 1980' FEL	Vernal	
Balcron Federal #41-19Y	Monument Butte	NE NE	19	9S	17E	Duchesne	UT	Oil	Green River	U-65967	43-047-32504	660' FSL, 660' FEL	Vernal	
Balcron Federal #41-21Y	Monument Butte	NE NE	21	9S	16E	Duchesne	UT	Oil	Green River	U-64379	43-013-31392	970' FNL, 894' FEL	Vernal	
Balcron Federal #42-19Y	8 Mile Flat N.	SE NE	19	9S	18E	Uintah	UT	Oil	Green River	U-65635	43-047-32616	2100' FNL, 500' FEL	Vernal	
Balcron Federal #44-14Y	Monument Butte	SE SE	14	9S	17E	Uintah	UT	Oil	Green River	U-64806	43-047-32438	1008' FSL, 832' FEL	Vernal	
Balcron Federal #44-4Y	8 Mile Flat N.	SE SE	4	9S	17E	Duchesne	UT	Oil	Green River	U-65635	43-013-31452	660' FNL, 660' FEL	Vernal	
Balcron Monument Fed. #11-10-9-17Y		NW NW	10	9S	17E	Duchesne	UT	PND	Green River				Vernal	
Balcron Monument Fed. #11-20-9-18Y	Monument Butte	NW NW	20	9S	18E	Uintah	UT	OIL	Green River	U-64917	43-047-32712	500' FNl, 500' FWL	Vernal	
Balcron Monument Fed. #11-22-8-17Y	Monument Butte	NW NW	22	8S	17E	Duchesne	UT	OIL	Green River	U-66191	43-013-31539	635' FNL, 658' FWL	Vernal	
Balcron Monument Fed. #11-25	Monument Butte	NW NW	25	8S	17E	Uintah	UT	Oil	Green River	U-67845	43-047-32455	739' FNL, 648' FWL	Vernal	
Balcron Monument Fed. #11-6	Monument Butte	NW NW	6	9S	17E	Duchesne	UT	WIW	Green River	U-020252-A	43-013-31362	804' FNL, 696' FWL	Vernal	Jonah
Balcron Monument Fed. #11-7J	Monument Butte	NW NW	7	9S	17E	Duchesne	UT	COMPL-WIW	Green River	U-44426	43-013-31492	681' FNL, 447' FWL	Vernal	Jonah
Balcron Monument Fed. #12-10-9-17Y	Monument Butte	SW NW	10	9S	17E	Duchesne	UT	COMPL	Green River	U-65210	43-013-31536	1994' FNL, 618' FWL	Vernal	
Balcron Monument Fed. #12-11J	Monument Butte	SW NW	11	9S	16E	Duchesne	UT	WIW	Green River	U-096550	43-013-31417	2128' FNL, 689' FWL	Vernal	Jonah
Balcron Monument Fed. #12-12J	Monument Butte	SW NW	12	9S	16E	Duchesne	UT	WIW	Green River	U-096550	43-013-31410	739' FNL, 648' FWL	Vernal	Jonah
Balcron Monument Fed. #12-14J	Monument Butte	SW NW	14	9S	16E	Duchesne	UT	PND	Green River	U-096547	43-013-31488	2004' FNL, 658' FWL	Vernal	Jonah
Balcron Monument Fed. #12-17	Monument Butte	SW NW	17	9S	17E	Duchesne	UT	Oil	Green River	UTU-72106	43-013-31431	1980' FNL, 660' FWL	Vernal	Beluga
Balcron Monument Fed. #12-25	Undesignated	SW NW	25	8S	17E	Uintah	UT	Oil	Green River	U-67845	43-047-32526	1486' FNL, 875.7' FWL	Vernal	
Balcron Monument Fed. #12-7J	Monument Butte	SW NW	7	9S	17E	Duchesne	UT	Oil	Green River	U-44426	43-013-31493	1965' FNL, 620' FWL	Vernal	Jonah
Balcron Monument Fed. #13-11J	Monument Butte	NW SW	11	9S	16E	Duchesne	UT	Oil	Green River	U-096547	43-013-15790	1819' FSL, 658' FWL	Vernal	Jonah
Balcron Monument Fed. #13-5	Monument Butte	NW SW	5	9S	17E	Duchesne	UT	WIW	Green River	U-020252	43-013-31370	1980' FSL, 660' FWL	Vernal	Jonah
Balcron Monument Fed. #13-8	Monument Butte	NW SW	8	9S	17E	Duchesne	UT	Oil	Green River	UTU-74108	43-013-31382	2060' FSL, 694' FWL	Vernal	Beluga
Balcron Monument Fed. #14-11	Monument Butte	SW SW	11	9S	16E	Duchesne	UT	WIW	Green River	U-096547	43-013-31374	1048' FSL, 446' FWL	Vernal	Jonah

Inland Resources Change of Operator

WELL NAME	LOCATION	COUNTY	ST	FIELD NAME	API NUMBER	LEASE NO.	AGEEMENT
WALTON FEDERAL #1	SESE 119S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-15792-00	UTU096550	UTU72086A
WALTON FEDERAL #2	NWNE 149S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-15793-00	UTU096550	UTU72086A
WALTON FEDERAL #34-11	SWSE 119S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31003-00	UTU096550	UTU72086A
WALTON FEDERAL #4	SENW 119S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-15795-00	UTU096550	UTU72086A
ALLEN FEDERAL #31-6G	NWNE 6 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (U)	43-013-31442-00	UTU020252A	
BALCRON FEDERAL #21-13Y	NENW 139S 16E	DUCHESNE	UT	MONUMENT BUTTE (U)	43-013-31400-00	UTU64805	
BALCRON FEDERAL #21-25Y	NENW 259S 16E	DUCHESNE	UT	MONUMENT BUTTE (U)	43-013-31394-00	UTU64380	
BALCRON FEDERAL #44-14Y	SESE 149S 17E	UINTAH	UT	MONUMENT BUTTE (U)	43-047-32438-00	UTU64806	
CASTLE PEAK FEDERAL #24-10A	SESW 169S 16E	DUCHESNE	UT	MONUMENT BUTTE (U)	43-013-30555-00	UTU72107	
CASTLE PEAK STATE #43-16	NESE 169S 16E	DUCHESNE	UT	MONUMENT BUTTE (U)	43-013-30594-00		891008243C
K. JORGENSON STATE #16-4	NESE 169S 17E	DUCHESNE	UT	MONUMENT BUTTE (U)	43-013-30572-00	ML-3453-B	
STATE #16-2	NENE 169S 17E	DUCHESNE	UT	MONUMENT BUTTE (U)	43-013-30552-00	ML-3453-B	
BALCRON FEDERAL #21-9Y	NENW 9 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31396-00	UTU65207	
BALCRON FEDERAL #41-21Y	NENE 219S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31392-00	UTU64379	
MONUMENT FEDERAL #31-6-9-16	NWNE 6 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31717-00	UTU74390	
MONUMENT FEDERAL #32-6-9-16Y	SW NE 6 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31300-00	UTU74390	
MONUMENT FEDERAL #42-6-9-16Y	SE NW 6 9S 15E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31645-00	UTU74390	
MONUMENT FEDERAL #41-6-9-16	NENE 6 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31718-00	UTU74390	
MONUMENT FEDERAL #31-8-9-16	NW NE 8 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31721-00	UTU020255	
MONUMENT FEDERAL #41-8-9-16	NENE 8 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31619-00	UTU020255	
MONUMENT FEDERAL #11-9-9-16	NW NW 9 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31618-00	UTU020254	
MONUMENT FEDERAL #33-6-9-16Y	NW SE 6 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31589-00	UTU74390	
MONUMENT FEDERAL #43-6-9-16Y	NE SE 6 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31644-00	UTU74390	
MONUMENT FEDERAL #44-6-9-16Y	SE SE 6 9S 15E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31720-00	UTU74390	
MONUMENT FEDERAL #31-18-9-16	NW NE 189S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31725-00	UTU74390	
MONUMENT FEDERAL #41-18Y	NE NE 189S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31646-00	UTU74390	
MONUMENT FEDERAL #42-18Y	SE NE 189S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31724-00	UTU74390	
MONUMENT FEDERAL #31-21-9-16	NW NE 219S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31726-00	UTU64379	
MONUMENT FEDERAL #11-22Y	NW NW 229S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31647-00	UTU64379	
MONUMENT FEDERAL #13-4-9-16	NW SW 4 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31716-00	UTU73086	
MONUMENT FEDERAL #14-4	SWSW 4 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31666-00	UTU73086	
MONUMENT FEDERAL #22-20-9-16	SE NW 209S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31681-00	UTU52018	
MONUMENT FEDERAL #23-7-9-16	NESW 7 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31694-00	UTU74390	
MONUMENT FEDERAL #24-17-9-16	SESW 179S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31682-00	UTU52018	
MONUMENT BUTTE #34-31-8-16	SW SE 318S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31715-00	UTU74389	
MONUMENT FEDERAL #33-10-9-16	NW SE 109S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31722-00	UTU72107	
MONUMENT BUTTE #43-10-9-16	NE SE 109S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31723-00	UTU72107	
CHORNEY FEDERAL #1-9	SWSE 9 9S 19E	UINTA	UT	PARIETTE BENCH	43-047-30070-00	UTU5843	
HENDEL FEDERAL #1	SWSW 9 9S 19E	UINTA	UT	PARIETTE BENCH	43-047-20011-00	UTU058149	

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:

1-LEC	7-SJ ✓
2-DTS	8-FILE
3-VLD	GIL
4-RJF	
5-LEC	
6-FILM	

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

☐ Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator ☐ ~~Operator Name Change Only~~

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 4-1-96)

TO (new operator)	EQUITABLE RESOURCES ENERGY COEROM
(address)	1601 LEWIS AVE
	BILLINGS MT 59102-4126
	phone (406) 259-7860
	account no. N9890
FROM (former operator)	EQUITABLE RESOURCES ENERGY CO
(address)	BALCRON OIL DIVISION
	1601 LEWIS AVE
	BILLINGS MT 59102-4126
	phone (406) 259-7860
	account no. N9890

Well(s) (attach additional page if needed):

Name: **SEE ATTACHED**	API: 043-31400	Entity:	Sec Twp Rng	Lease Type:	
Name:	API:	Entity:	Sec Twp Rng	Lease Type:	
Name:	API:	Entity:	Sec Twp Rng	Lease Type:	
Name:	API:	Entity:	Sec Twp Rng	Lease Type:	
Name:	API:	Entity:	Sec Twp Rng	Lease Type:	
Name:	API:	Entity:	Sec Twp Rng	Lease Type:	
Name:	API:	Entity:	Sec Twp Rng	Lease Type:	

OPERATOR CHANGE DOCUMENTATION

Yes 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Rec'd 4-4-96 & 4-8-96)

N/A 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).

N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) _____ If yes, show company file number: _____.

* 4. **(For Indian and Federal Wells ONLY)** The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.

Yes 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) ~~for each well listed above~~. (4-10-96)

Yes 6. Cardex file has been updated for each well listed above. (4-11-96)

Yes 7. Well file labels have been updated for each well listed above. (4-11-96)

Yes 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (4-10-96)

Yes 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

– OVER –

OPERATOR CHANGE WORKSHEET (CONTINUED) Initial each item when completed. Write N/A if item is not applicable.

ENTITY REVIEW

Lec 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) ____ (If entity assignments were changed, attach copies of Form 6, Entity Action Form).

N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only) #5578314 ($80,000) Seltco Ins. Co. (Bond Rider In Progress)

Lec 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.

___ 2. A copy of this form has been placed in the new and former operators' bond files.

N/A 3. The former operator has requested a release of liability from their bond (yes/no) ___. Today's date _____ 19___. If yes, division response was made by letter dated _____ 19___.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

N/A 1. (Rule R615-2-10) The former operator/lessee of any **fee lease** well listed above has been notified by letter dated _____ 19___, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested. 4/22/96

DTS 2. Copies of documents have been sent to State Lands for changes involving **State leases.** Sent to Ed Bonner — Trust Lands

FILMING

VDR 1. All attachments to this form have been microfilmed. Date: May 20 1996.

FILING

___ 1. Copies of all attachments to this form have been filed in each well file.

___ 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

9/6/96 Blm/BIA "Formal approval not necessary".

FORM 9

STATE OF UTAH

DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

5. Lease Designation and Serial Number:	See Attached
6. If Indian, Allottee or Tribe Name:	n/a
7. Unit Agreement Name:	See Attached
8. Well Name and Number:	See Attached
9. API Well Number:	See Attached
10. Field and Pool, or Wildcat:	See Attached

1. Type of Well: OIL ☒ GAS ☐ OTHER:

2. Name of Operator: Inland Production Company

3. Address and Telephone Number: 475 - 17th Street, Suite 1500, Denver, CO 80202

4. Location of Well

Footages: See Attached Exhibit

QQ, Sec., T., R., M.:

County:

State:

RECEIVED
OCT 13 1997

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
☐ Abandon	☐ New Construction	☐ Abandon *	☐ New Construction
☐ Repair Casing	☐ Pull or Alter Casing	☐ Repair Casing	☐ Pull or Alter Casing
☐ Change of Plans	☐ Recomplete	☐ Change of Plans	☐ Reperforate
☐ Convert to Injection	☐ Reperforate	☐ Convert to Injection	☐ Vent or Flare
☐ Fracture Treat or Acidize	☐ Vent or Flare	☐ Fracture Treat or Acidize	☐ Water Shut-Off
☐ Multiple Completion	☐ Water Shut-Off	☒ Other Change of Operator	
☒ Other Change of Operator			

Approximate date work will start: _____

Date of work completion: 9-30-97

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Effective September 30, 1997, Inland Production Company will take over operations of the wells on the attached list. The previous operator was :

Equitable Resources Energy Company
1601 Lewis Avenue
Billings, MT 59102

Effective September 30, 1997, Inland Production Company is responsible under the terms and conditions of the leases for operations conducted on the leased lands or a portion thereof under State of Utah Statewide Bond No. 4471291.

OCT 16 1997

13. Name & Signature: Chris A. Potter Title: CHRIS A. POTTER, ATTORNEY-IN-FACT Date: 9/30/97

(This space for State use only)

(See Instructions on Reverse Side)

Inland
RESOURCES INC.

October 7, 1997

Bureau of Land Management
Vernal District Office
170 South 500 East
Vernal, UT 84078

RE: Change of Operator
Duchesne & Vernal Counties, Utah

Dear Mr. Forsman:

Please find attached Sundry Notices and Reports on Wells for Change of Operator, previously operated by Equitable Resources Energy Company for approval.

If you should have questions regarding this matter, please do not hesitate to contact me at the number listed below.

Sincerely,

INLAND PRODUCTION COMPANY

Patsy Barreau

Patsy Barreau

/pb
encls.

475 Seventeenth Street, Suite 1500, Denver, CO 80202 • 303-292-0900 • FAX 303-296-4070

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Vernal District Office
170 South 500 East
Vernal, Utah 84078-2799

Phone: (801) 781-4400
Fax: (801) 781-4410

IN REPLY REFER TO:
3162.3
UT08438

December 5, 1997

Inland Production Company
475 17th Street, Suite 1500
Denver, CO 80202

43-013-31400

Re: Well No. Balcron Federal 21-13Y
NENW, Sec. 13, T9S, R16E
Lease U-64805
Duchesne County, Utah

Dear Sir:

This correspondence is in regard to the self-certification statement submitted requesting a change in operator for the referenced well. After a review by this office, the change in operator request is approved. Effective immediately, Inland Production Company is responsible for all operations performed on the referenced well. All liability will now fall under your bond, BLM Bond No. UT0056, for all operations conducted on the referenced well on the leased land.

If you have any other questions concerning this matter, please contact Margie Herrmann or Pat Sutton of this office at (435) 781-4400.

Sincerely,

Howard B. Cleavinger II
Assistant Field Manager,
Minerals Resources

cc: Division of Oil, Gas & Mining
Equitable Resources Energy Company
ABO Petroleum Corp.
Myco Industries Inc.
Yates Drilling Company
Yates Petroleum Corp.

Crazy Mountain Oil & Gas Services
P.O. Box 577
Laurel, MT 59044
(406) 628-4164
(406) 628-4165

TO: Lisha
St of Utah.

FROM. Molly Conrad
Crazy Mountain Oil & Gas Services
(406) 628-4164

Pages Attached - Including Cover Sheet 2.

NOTE: Here is the letter you requested. Call if you need anything further.

EQUITABLE RESOURCES
ENERGY COMPANY
WESTERN REGION
(406) 259-7860 Telephone
(406) 245-1361 Fax

December 10, 1997

Lisha
State of Utah
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, UT 84114-5801

Dear Lisha:

RE: Equitable Sale of Utah Properties

Effective September 30, 1997, Equitable Resources Energy Company sold all of its Utah properties to Inland Production Company.

Please feel free to contact me if you require additional information.

Sincerely,

Molly Conrad

Molly Conrad
Agent for Equitable Resources
Energy Company

/mc

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

Routing:	
1-LEC	6-LEC
2-GLH	7-KAS
3-DTS/SLS	8-SI
4-VLD	9-FILE
5-JRB	

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

☒ Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator ☐ Operator Name Change Only

The operator of the well(s) listed below has changed, **effective:** 9-30-97

TO: (new operator)	INLAND PRODUCTION COMPANY	**FROM:** (old operator)	EQUITABLE RESOURCES ENERGY
(address)	PO BOX 1446	(address)	PO BOX 577
	ROOSEVELT UT 84066		LAUREL MT 59044
			C/O CRAZY MTN O&G SERVICES
	Phone: (801)722-5103		Phone: (406)628-4164
	Account no. N5160		Account no. N9890

WELL(S) attach additional page if needed:

Name:	**SEE ATTACHED**	API:	43-013-31400	Entity:		S		T		R		Lease:	
Name:		API:		Entity:		S		T		R		Lease:	
Name:		API:		Entity:		S		T		R		Lease:	
Name:		API:		Entity:		S		T		R		Lease:	
Name:		API:		Entity:		S		T		R		Lease:	
Name:		API:		Entity:		S		T		R		Lease:	
Name:		API:		Entity:		S		T		R		Lease:	

OPERATOR CHANGE DOCUMENTATION

LEC 1. (r649-8-10) Sundry or other legal documentation has been received from the **FORMER** operator (attach to this form). (Rec'd 12-10-97)

LEC 2. (r649-8-10) Sundry or other legal documentation has been received from the **NEW** operator (Attach to this form). (Rec'd 10-20-97)

N/A 3. The **Department of Commerce** has been contacted if the new operator above is not currently operating any wells in Utah. Is the company **registered with the state?** (yes/no) _____ If yes, show company file number: _____.

LEC 4. **FOR INDIAN AND FEDERAL WELLS ONLY.** The BLM has been contacted regarding this change. Make note of BLM status in comments section of this form. BLM approval of **Federal** and **Indian** well operator changes should ordinarily take place prior to the division's approval, and before the completion of steps 5 **through** 9 below.

LEC 5. Changes have been entered in the **Oil and Gas Information System** (3270) for each well listed above. (12-9-97)

LC 6. **Cardex** file has been updated for each well listed above. (12-10-97)

LC 7. Well **file labels** have been updated for each well listed above. (12-10-97)

LEC 8. Changes have been included on the monthly "Operator, Address, and Account Changes" **memo** for distribution to Trust Lands, Sovereign Lands, UGS, Tax Commission, etc. (12-9-97)

LC 9. A folder has been set up for the **Operator Change file**, and a copy of this page has been placed there for reference during routing and processing of the original documents.

OPERATOR CHANGE WORKSHEET (continued) - Initial each item when completed. Write N/A if item is not applicable.

ENTITY REVIEW

LC 1. (r649-8-7) **Entity assignments have been reviewed** for all wells listed above. Were entity changes made? (yes/no) ____ If entity assignments were changed, attach copies of Form 6, Entity Action Form.

N/A 2. Trust Lands, Sovereign Lands, Tax Commission, etc., have been **notified** through normal procedures of entity changes.

BOND VERIFICATION - (FEE WELLS ONLY)

N/A/LC 1. (r649-3-1) The **NEW** operator of any fee lease well listed above has furnished a proper bond.

__ 2. A **copy of this form** has been placed in the new and former operator's bond files.

__ 3. The **FORMER** operator has requested a release of liability from their bond (yes/no) ____, as of today's date ____. If yes, division response was made to this request by letter dated ____.

LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY

N/A 1. Copies of documents have been sent on ____ to ____ at Trust Lands for changes involving State leases, in order to remind that agency of their responsibility to review for proper bonding.
DTS 12/16/97

N/A 2. (r649-2-10) The former operator of any fee lease wells listed above has been contacted and informed by letter dated ____ 19 __, of their responsibility to notify all interest owners of this change.

FILMING

1. All attachments to this form have been **microfilmed**. Today's date: 1/6/98.

FILING

__ 1. **Copies** of all attachments to this form have been filed in each **well file**.

__ 2. The **original of this form**, and the **original attachments** are now being filed in the Operator Change file.

COMMENTS

971209 BLM / Vernal Aprv 12-4-97.

FORM 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.
Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.
U-64805

6. If Indian, Allottee or Tribe Name
NA

7. If Unit or CA, Agreement Designation
NA

1. Type of Well
[X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.
FEDERAL 21-13Y

9. API Well No.
43-013-31400

2. Name of Operator
INLAND PRODUCTION COMPANY

10. Field and Pool, or Exploratory Area
MONUMENT BUTTE

3. Address and Telephone No.
475 17TH STREET, SUITE 1500, DENVER, COLORADO 80202 (303) 292-0900

11. County or Parish, State
DUCHESNE COUNTY, UTAH

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)
0703 FNL 1830 FWL NE/NW Section 13, T09S R16E

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other **Site Security**	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Attached please find the site security diagram for the above referenced well.

RECEIVED
NOV 02 1998
DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct
Signed Debbie E. Knight Title Manager, Regulatory Compliance Date 10/28/98

(This space for Federal or State office use)
Approved by _____ Title _____ Date _____
Conditions of approval, if any:
CC: UTAH DOGM

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fradulent statements or representations as to any matter within its jurisdiction.

Inland Production Company
Site Facility Diagram

Federal 21-13Y

NE/NW Sec. 13, T9S, 16E

Duchesne County

May 12, 1998

Site Security Plan is held at the Roosevelt Office, Roosevelt Utah

Production Phase:

1) Valves 1 and 3 sealed closed

2) Valves 2 and 4 sealed open

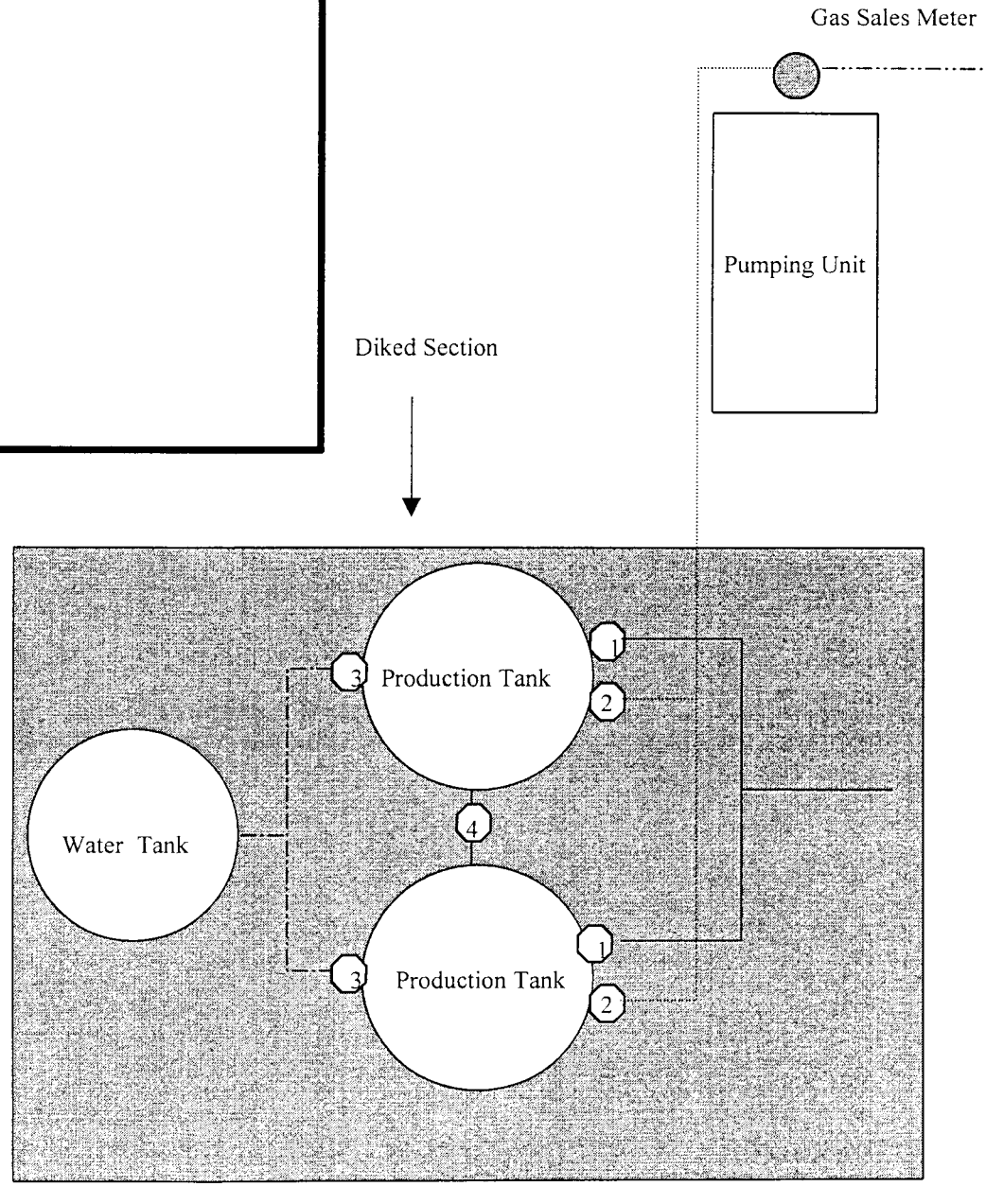
Sales Phase:

1) Valves 1, 2, 4, 5 sealed closed

2) Valves 1 open

Draining Phase:

1) Valve 3 open



Emulsion Line

Load Line

Water Line

Gas Sales

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155
http://www.blm.gov

TAKE PRIDE IN AMERICA

IN REPLY REFER TO:
3106
(UT-924)

September 16, 2004

Memorandum

To: Vernal Field Office

From: Acting Chief, Branch of Fluid Minerals

Subject: Merger Approval

Attached is an approved copy of the name change recognized by the Utah State Office. We have updated our records to reflect the merger from Inland Production Company into Newfield Production Company on September 2, 2004.

Michael L Coulthard

Michael Coulthard
Acting Chief, Branch of
Fluid Minerals

Enclosure
1. State of Texas Certificate of Registration

cc: MMS, Reference Data Branch, James Sykes, PO Box 25165, Denver CO 80225
State of Utah, DOGM, Attn: Earlene Russell, PO Box 145801, SLC UT 84114
Teresa Thompson
Joe Incardine
Connie Seare

Corporations Section
P.O.Box 13697
Austin, Texas 78711-3697

Geoffrey S. Connor
Secretary of State

Office of the Secretary of State

The undersigned, as Secretary of State of Texas, does hereby certify that the attached is a true and correct copy of each document on file in this office as described below:

Newfield Production Company
Filing Number: 41530400

Articles of Amendment September 02, 2004

In testimony whereof, I have hereunto signed my name officially and caused to be impressed hereon the Seal of State at my office in Austin, Texas on September 10, 2004.

Secretary of State

ARTICLES OF AMENDMENT
TO THE
ARTICLES OF INCORPORATION
OF
INLAND PRODUCTION COMPANY

FILED
In the Office of the
Secretary of State of Texas
SEP 02 2004
Corporations Section

Pursuant to the provisions of Article 4.04 of the Texas Business Corporation Act (the "TBCA"), the undersigned corporation adopts the following articles of amendment to the articles of incorporation:

ARTICLE 1 – Name

The name of the corporation is Inland Production Company.

ARTICLE 2 – Amended Name

The following amendment to the Articles of Incorporation was approved by the Board of Directors and adopted by the shareholders of the corporation on August 27, 2004.

The amendment alters or changes Article One of the Articles of Incorporation to change the name of the corporation so that, as amended, Article One shall read in its entirety as follows:

"ARTICLE ONE – The name of the corporation is Newfield Production Company."

ARTICLE 3 – Effective Date of Filing

This document will become effective upon filing.

The holder of all of the shares outstanding and entitled to vote on said amendment has signed a consent in writing pursuant to Article 9.10 of the TBCA, adopting said amendment, and any written notice required has been given.

IN WITNESS WHEREOF, the undersigned corporation has executed these Articles of Amendment as of the 1st day of September, 2004.

INLAND RESOURCES INC.

By: Susan G. Riggs
Susan G. Riggs, Treasurer

UTSL-

071572A
065914

UTU-

02458
03563
03563A
04493
05843
07978
09803
017439B
017985
017991
017992
018073
019222
020252
020252A
020254
020255
020309D
022684A
027345
034217A
035521
035521A
038797
058149
063597A
075174
096547
096550

10760
11385
13905
15392
15855
16535
16539
16544
17036
17424
18048
18399
19267
26026A
30096
30103
31260
33992
34173
34346
36442
36846
38411
38428
38429
38431
39713
39714
40026
40652
40894
41377
44210
44426
44430
45431
47171
49092
49430
49950
50376
50385
50376
50750
51081
52013
52018
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Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING
1. GLH
2. CDW
3. FILE

Change of Operator (Well Sold) | Designation of Agent/Operator

X Operator Name Change | **Merger**

The operator of the well(s) listed below has changed, effective: **9/1/2004**

FROM: (Old Operator):	**TO:** (New Operator):
N5160-Inland Production Company	N2695-Newfield Production Company
Route 3 Box 3630	Route 3 Box 3630
Myton, UT 84052	Myton, UT 84052
Phone: 1-(435) 646-3721	Phone: 1-(435) 646-3721

CA No. **Unit:**

WELL(S)

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
WALKER/SAND PASS 14-21R-4-1(REEN	21	040S	010W	4301331069	14300	Fee	NA	P
CODY FEDERAL 2-35 (REENTRY)	35	080S	150E	4301331525	11794	Federal	OW	P
MONUMENT BUTTE FED 14-25	25	080S	160E	4301331531	11805	Federal	OW	P
MONUMENT BUTTE FED 12-25	25	080S	160E	4301331554	11840	Federal	OW	P
MONUMENT BUTTE FED 10-25	25	080S	160E	4301331562	11874	Federal	OW	P
MONUMENT BUTTE FED 16-26	26	080S	160E	4301331517	11814	Federal	OW	P
MONUMENT BUTTE ST 14-36	36	080S	160E	4301331508	11774	State	OW	P
MONUMENT BUTTE ST 10-36	36	080S	160E	4301331551	11822	State	OW	P
MONUMENT BUTTE ST 2-36	36	080S	160E	4301331556	11855	State	OW	P
ASHLEY FEDERAL 10-23	23	090S	150E	4301331519	11775	Federal	OW	P
FEDERAL 41-10Y	10	090S	160E	4301331478	11764	Federal	NA	PA
FEDERAL 21-13Y	13	090S	160E	4301331400	11510	Federal	OW	P
NOVA 31-20 G NGC FEDERAL	20	090S	160E	4301331071	10185	Federal	OW	S
FEDERAL 41-21Y	21	090S	160E	4301331392	11505	Federal	OW	S
FEDERAL 21-25Y	25	090S	160E	4301331394	11530	Federal	OW	S
ALLEN FEDERAL 31-6G	06	090S	170E	4301331442	11642	Federal	GW	S
FEDERAL 41-18	18	090S	170E	4301331399	11536	Federal	NA	PA

K

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 9/15/2004
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 9/15/2004

3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 2/23/2005
4. Is the new operator registered in the State of Utah: YES Business Number: 755627-0143
5. If **NO**, the operator was contacted contacted on:

6a. (R649-9-2)Waste Management Plan has been received on: IN PLACE

6b. Inspections of LA PA state/fee well sites complete on: waived

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM BIA

8. **Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: na/

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 2/23/2005

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 2/28/2005
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 2/28/2005
3. Bond information entered in RBDMS on: 2/28/2005
4. Fee/State wells attached to bond in RBDMS on: 2/28/2005
5. Injection Projects to new operator in RBDMS on: 2/28/2005
6. Receipt of Acceptance of Drilling Procedures for APD/New on: waived

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: UT 0056

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: 61BSBDH2912

FEE & STATE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 61BSBDH2919

2. The **FORMER** operator has requested a release of liability from their bond on: n/a*
The Division sent response by letter on: n/a

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

*Bond rider changed operator name from Inland Production Company to Newfield Production Company - **received 2/23/05**

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:
UTU64805
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME:

SUNDRY NOTICES AND REPORTS ON WELLS

› not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ OTHER				8. WELL NAME and NUMBER: FEDERAL 21-13Y
2. NAME OF OPERATOR: Newfield Production Company				9. API NUMBER: 4301331400
3. ADDRESS OF OPERATOR: Route 3 Box 3630	CITY Myton	STATE UT	ZIP 84052	PHONE NUMBER 435.646.3721
10. FIELD AND POOL, OR WILDCAT: Monument Butte				

4. LOCATION OF WELL:

FOOTAGES AT SURFACE: 0703 FNL 1830 FWL — COUNTY: Duchesne

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NE/NW, 13, T9S, R16E — STATE: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION SubDate		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARITLY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLAIR
☒ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of Work Completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/STOP)	☐ WATER SHUT-OFF
12/27/2005	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER: -
	☐ CONVERT WELL TYPE	☒ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Subject well had recompletion procedures initiated in the Green River formation. Existing production equipment was pulled from well. A bit and scraper were run in well. One new interval was perforated and hydraulically fracture treated as follows: GR6 sands 4103-4118', w/4 JSPF, w/55211#'s of 20/40 sand in 439 bbls of Lightning 17 frac fluid, Sand was cleaned from wellbore. New intervals were swab tested for sand cleanup. BHA & revised production tbg string were run and anchored in well w/tubing @4748', pump seating nipple @ 4782', and end of tubing string @ 4817'. A 1 1/2" rod pump was run in well on sucker rods. Well returned to production via rod pump on 11-22-05.

NAME (PLEASE PRINT) Kathy Chapman — TITLE Office Manager

SIGNATURE Kathy Chapman — DATE 12/27/2005

(This space for State use only)

JAN 2 5 2006

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-64805

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL: OIL WELL [x] GAS WELL [ ] OTHER

8. WELL NAME and NUMBER: FEDERAL 21-13Y

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

9. API NUMBER: 4301331400

3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052

PHONE NUMBER: 435.646.3721

10. FIELD AND POOL, OR WILDCAT: MONUMENT BUTTE

4. LOCATION OF WELL:

FOOTAGES AT SURFACE: 703 FNL 1830 FWL

COUNTY: DUCHESNE

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NENW, 13, T9S, R16E

STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
[ ] NOTICE OF INTENT (Submit in Duplicate)	[ ] ACIDIZE	[ ] DEEPEN	[ ] REPERFORATE CURRENT FORMATION
Approximate date work will	[ ] ALTER CASING	[ ] FRACTURE TREAT	[ ] SIDETRACK TO REPAIR WELL
	[ ] CASING REPAIR	[ ] NEW CONSTRUCTION	[ ] TEMPORARITLY ABANDON
	[ ] CHANGE TO PREVIOUS PLANS	[ ] OPERATOR CHANGE	[ ] TUBING REPAIR
	[ ] CHANGE TUBING	[ ] PLUG AND ABANDON	[ ] VENT OR FLAIR
[x] SUBSEQUENT REPORT (Submit Original Form Only)	[ ] CHANGE WELL NAME	[ ] PLUG BACK	[ ] WATER DISPOSAL
Date of Work Completion:	[ ] CHANGE WELL STATUS	[ ] PRODUCTION (START/STOP)	[ ] WATER SHUT-OFF
10/02/2008	[ ] COMMINGLE PRODUCING FORMATIONS	[ ] RECLAMATION OF WELL SITE	[ ] OTHER: -
	[ ] CONVERT WELL TYPE	[X] RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above subject well was recompleted on 09-04-08, and then placed back on production, attached is a daily recompletion status report. The following perforations were added in the Green River formation:
A1 5036'-5042' 4 JPSF 24 holes

NAME (PLEASE PRINT) Jentri Park TITLE Production Tech

SIGNATURE DATE 10/02/2008

(This space for State use only)

RECEIVED
OCT 09 2008
DIV. OF OIL, GAS & MINING

Daily Activity Report

Format For Sundry

FEDERAL 21-13Y-9-16

7/1/2008 To 11/30/2008

8/30/2008 Day: 1 **Recompletion**

Western #2 on 8/29/2008 - MIRU Western #2. Pump 70 bbls 250° water down csg. RD pumping unit. Unseat pump w/ 10,000# over string. Flush rods w/ 30 bbls 250° water. Softseat pump. Attempt to fill & test tbg. w/ no success. POOH w/ rods, stopping once to flush rods w/ 30 bbls 250° water. LD pump. X-over for tbg. ND wellhead. Release TAC. NU BOP. RIH w/ tbg. to 5426' (did not tag fill). POOH w/ tbg., stopping once to flush tbg. w/ 25 bbls 250° water. RU wireline truck. Perforate A1 sds @ 5036-42' w/ 3 1/8" slick guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 24 shots. RD wireline truck. SWIFN.

9/3/2008 Day: 2 **Recompletion**

Western #2 on 9/2/2008 - Talley, PU & RIH w/ 5 1/2" plug, Pkr & 154- jts of 2 7/8" N-80 tbg. Set plug @ 5090'. Set pkr @ 4990'. Break down A1 sds. Broke @ 2500 psi. Release pkr. SWIFN.

9/4/2008 Day: 3 **Recompletion**

Western #2 on 9/3/2008 - Stage 1, Tbg frac A3 sds. 2 psi on well. RU BJ services to tbg. Fill & hold pressure on annulus during frac. 2 psi on tbg. Fill tbg w/ 15 BW. Frac A1 sds w/ 16,591#'s of 20/40 sand in 238 bbls of Lightning 17 fluid. Broke @ 3689 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 3442 psi @ ave rate of 13.1BPM. ISIP 1962 psi. Begin immediate flowback on 20/64 choke @ 3 BPM. Flowed back for 1 Hr 10 mins, 130 BTF & died. Pressure up on annulus. Release pkr. Circulate clean down to plug @ 5090' (20' of fill). Release plug. LD 2 7/8" N-80 workstring. PU & RIH w/ production tbg, Pressure testing to 3000 psi. Final test good. RU sandline & fish SV. RU swab equipment. SWIFN w/ 319 BWTR..

9/5/2008 Day: 4 **Recompletion**

Western #2 on 9/4/2008 - 0 psi on well. RIH w/ swab. IFL @ 1200'. Made 10 runs, Rec 54 BTF, FFL @ 3200'. No oil, No sand. RD swab equipment. TIH w/ 5 jts of tbg. EOT @ 5418'. Circulate well clean. LD 8 jts of tbg. ND BOP. Set TA @ 5059' w/ 16,000#'s of tension, SN @ 5124', EOT @ 5187'. NU WH. Flush tbg w/ 60 BW. PU & prime up rod pump. RIH w/ rods as follows: 2 1/2" X 1 1/2" X 20' RHAC (179" Max SL), 6- 1 1/2" wt bars, 99- 3/4" guided rods, 98- 7/8" guided rods (A grade), 1-8', 1-6', 1-4', 1-2' X 7/8" pony rods (A grade), 1 1/2" X 26' Polish rod (A grade). Hang head, Space out rods. Fill tbg w/ 5 bbls of wtr. Pressure test to 800 psi w/ unit. RDMOSU. POP @ 3:30 PM w/ 56" SL @ 4 SPM. 325 BWTR. FINAL REPORT!!

Pertinent Files: Go to File List

NEWFIELD
ROCKY MOUNTAINS

December 13, 2011

Mr. Mark Reinbold
State of Utah
Division of Oil, Gas and Mining
1594 W North Temple
Salt Lake City, Utah 84114-5801

RE: Permit Application for Water Injection Well
Federal #21-13Y-9-16
Monument Butte Field, Lease #UTU-64805
Section 13-Township 9S-Range 16E
Duchesne County, Utah

Dear Mr. Reinbold:

Newfield Production Company herein requests approval to convert the Federal #21-13Y-9-16 from a producing oil well to a water injection well in the Monument Butte (Green River) Field.

I hope you find this application complete; however, if you have any questions or require additional information, please contact me at (303) 893-0102.

Sincerely,

Eric Sundberg
Regulatory Lead

RECEIVED
DEC 16 2011
DIV. OF OIL, GAS & MINING

1001 17th Street, Suite 2000 Denver, CO 80202 (303) 893-0102 Fax (303) 893-0103

NEWFIELD PRODUCTION COMPANY

APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL

FEDERAL #21-13Y-9-16

MONUMENT BUTTE FIELD (GREEN RIVER) FIELD

LEASE #UTU-64805

DECEMBER 13, 2011

TABLE OF CONTENTS

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR Newfield Production Company
ADDRESS 1001 17th Street, Suite 2000
Denver, Colorado 80202

Well Name and number: Federal #21-13Y-9-16
Field or Unit name: Monument Butte (Green River) Lease No. UTU-64805
Well Location: QQ NENW section 13 township 9S range 16E county Duchesne

Is this application for expansion of an existing project? . . . . . Yes [X] No [ ]
Will the proposed well be used for: Enhanced Recovery? . . . . . Yes [X] No [ ]
Disposal? . . . . . Yes [ ] No [X]
Storage? . . . . . Yes [ ] No [X]
Is this application for a new well to be drilled? . . . . . Yes [ ] No [X]
If this application is for an existing well,
has a casing test been performed on the well? . . . . . Yes [ ] No [X]
Date of test:
API number: 43-013-31400

Proposed injection interval: from 3882 to 5888
Proposed maximum injection: rate 500 bpd pressure 1772 psig
Proposed injection zone contains [x] oil, [ ] gas, and/or [ ] fresh water within 1/2 mile of the well.

IMPORTANT: Additional information as required by R615-5-2 should accompany this form.

List of Attachments: Attachments "A" through "H-1"

I certify that this report is true and complete to the best of my knowledge.

Name: Eric Sundberg Signature
Title Regulatory Lead Date 1/3/12
Phone No. (303) 893-0102

(State use only)
Application approved by Title
Approval Date

Comments:

Federal #21-13Y-9-16

Spud Date: 8/13/1993
Put on Production: 9/16/1993
GL: 5535' KB: 5545'

Proposed Injection
Wellbore Diagram

Initial Production: 84 BOPD,
126 MCFD, 7 BWPD

SURFACE CASING

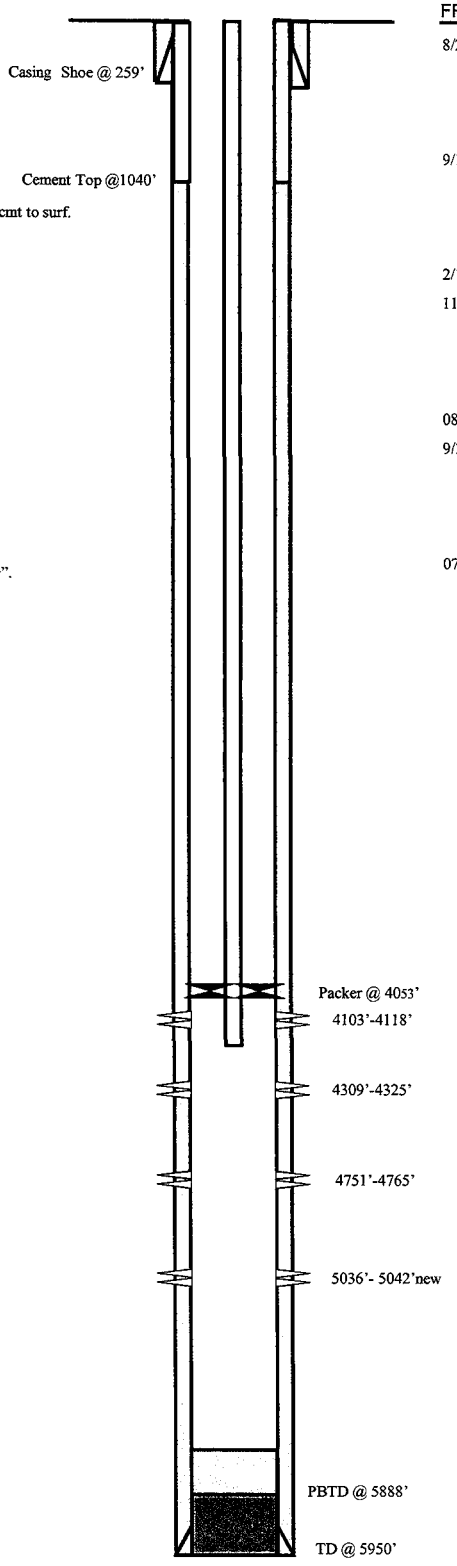
CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 6 jts. (275')
DEPTH LANDED: 259'
HOLE SIZE:12-1/4"
CEMENT DATA: 150 sxs Premium Plus cement, est 6 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: K-55
WEIGHT: 15.5#
LENGTH: 139 jts. (5945.72')
DEPTH LANDED: 5940.72'
HOLE SIZE: 7-7/8"
CEMENT DATA: 145 sxs Hilift cement & 325 sxs Class "G".
CEMENT TOP AT: 1040' per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 163 jts (5043.8')
TUBING ANCHOR: 5057'
NO. OF JOINTS: 2 jt (62.9')
SEATING NIPPLE: 5119.4'
NO. OF JOINTS: 2 jt (61.5')
TOTAL STRING LENGTH: EOT @ 5182' KB



FRAC JOB

8/28/93	4751'-4765'	**Frac as follows:** 20,140# 20/40 sand & 15,380# 16/30 sand in 371 bbls gelled KCL frac fluid. Treated @ avg press of 1900 psi w/avg rate of 20 BPM. ISIP 1850 psi.
9/1/93	4309'-4325'	**Frac as follows:** 33,600# 16/30 sand in 377 bbls gelled KCL frac fluid. Treated @ avg press of 2050 psi w/avg. rate of 24.5 BPM. ISIP 1800 psi.
2/14/01		Tubing job. Update Rod and tubing details.
11/17/05	4103-4118	**Frac GB6 sds as follows:** 55,211# 20/40 sand in 439 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 1870 w/ ave rate of 25.2 bpm w/ 8 ppg of sand. ISIP was 2150. Actual flush: 4032 gals
08/29/08		Recompletion. Rod & Tubing detail updated.
9/3/08	5036-5042	**Frac A1 sds as follows:** 16,591# 20/40 sand in 238 bbls of Lightning 17 fluid. Treated w/ ave pressure of 3442 psi @ ave rate of 13.1BPM. ISIP 1962 psi. Actual flush: 1218 gals.
07/25/10		Tubing Leak. Rod & Tubing detail updated.

PERFORATION RECORD

8/26/93	4751'-4765'	2 JSPF	28 holes
8/31/93	4309'-4325'	2 JSPF	32 holes
11/17/05	4103-4118'	40 JSPF	60 holes
9/3/08	5036-5042'	4 JSPF	24 holes new

NEWFIELD

Federal #21-13Y-9-16
702' FNL & 1830' FWL
NENW Section 13-T9S-R16E
Duchesne Co, Utah
API #43-013-31400; Lease #UTU-64805

JL 11/7/2011

WORK PROCEDURE FOR INJECTION CONVERSION

1. Rig up hot oil truck to casing. Pump water. Unseat pump. Flush rods. Trip out of hole with rods and pump.

2. Trip out of hole with tubing, breaking and doping every connection. Trip in hole with packer and tubing. Rig up water truck to casing. Pump packer fluid. Set packer.

3. Test casing and packer.

4. Rig down and move out.

REQUIREMENTS FOR INJECTION OF FLUIDS INTO RESERVOIRS
RULE R615-5-1

1. **Operations to increase ultimate recovery, such as cycling of gas, the maintenance of pressure, the introduction of gas, water or other substances into a reservoir for the purpose of secondary or other enhanced recovery or for storage and the injection of water into any formation for the purpose of water disposal shall be permitted only by order of the Board after notice and hearing.**

2. **A request for agency action for authority for the injection of gas, liquified petroleum gas, air, water or any other medium into any formation for any reason, including but not necessarily limited to the establishment of or the expansion of waterflood projects, enhanced recovery projects, and pressure maintenance projects shall contain:**

   2.1 The name and address of the operator of the project.

   Newfield Production Company
   1001 17th Street, Suite 2000
   Denver, Colorado 80202

   2.2 A plat showing the area involved and identifying all wells, including all proposed injection wells, in the project area and within one-half mile of the project area.

   See Attachment A.

   2.3 A full description of the particular operation for approval is requested.

   Approval is requested to convert the Federal #21-13Y-9-16 from a producing oil well to a water injection well in Monument Butte (Green River) Field.

   2.4 A description of the pools from which the identified wells are producing or have produced.

   The proposed injection well will inject into the Green River Formation.

   2.5 The names, description and depth of the pool or pools to be affected.

   The injection zone is in the Green River Formation. For the Federal #21-13Y-9-16 well, the proposed injection zone is from Garden Gulch to Basal Carbonate (3882' - 5888'). The confining strata directly above and below the injection zones are the Garden Gulch and the top of the Wasatch Formation or TD, which ever is shallower. The Garden Gulch Marker top is at 3563' and the TD is at 5950'.

   2.6 A copy of a log of a representative well completed in the pool.

   The referenced log for the Federal #21-13Y-9-16 is on file with the Utah Division of Oil, Gas and Mining.

2.7 A statement as to the type of fluid to be used for injection, its source and the estimated amounts to be injected daily.

The primary type and source of fluid to be used for injection will be culinary water commingled with produced water. The average estimated injection of fluids will be at a rate of 300 BPD, and the estimated maximum injection will be at a rate of 500 BPD.

2.8 A list of all operators and surface owners within one-half mile radius of the proposed project.

See Attachment B.

2.9 An affidavit certifying that said operators or owners and surface owners within a one-half mile radius have been provided a copy of the petition for injection.

See Attachment C.

2.10 Any additional information the Board may determine is necessary to adequately review the petition.

Newfield Production Company will supply any additional information requested by the Utah Division of Oil, Gas and Mining.

4.0 Establish recovery projects may be expanded and additional wells placed on injection only upon authority from the Board after notice and hearing or by administrative approval.

This proposed injection well is on a Federal lease (Lease #UTU-64805) in the Monument Butte Federal (Green River) Field, and this request is for administrative approval.

REQUIREMENTS FOR CLASS II INJECTION WELLS INCLUDING WATER DISPOSAL, STORAGE AND ENHANCED RECOVERY WELLS
SECTION V – RULE R615-5-2

1. **Injection well shall be completed, equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.**

2. **The application for an injection well shall include a properly completed Form DOGM-UIC-1 and the following:**

   2.1 **A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed wells, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.**

   See Attachments A and B.

   2.2 **Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper and porosity.**

   All logs are on file with the Utah Division of Oil, Gas and Mining.

   2.3 **A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.**

   A copy of the cement bond log is on file with the Utah Division of Oil, Gas and Mining.

   2.4 **Copies of logs already on file with the Division should be referenced, but need not be refiled.**

   All copies of logs are on file with the Utah Division of Oil, Gas and Mining.

   2.5 **A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.**

   The casing program is 8-5/8", 24# surface casing run to 259' KB, and 5-1/2", 15.5# casing run from surface to 5941' KB. A casing integrity test will be conducted at the time of conversion. See Attachment E.

   2.6 **A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.**

   The primary type and source of fluid to be used for injection will be culinary water commingled with produced water. The estimated average rate of injection will be 300 BPD, and the estimated maximum rate of injection will be 500 BPD.

   2.7 **Standard laboratory analysis of the fluid to be injected, the fluid in the formation into which the fluid is being injected, and the compatibility of the fluids.**

   See Attachment F.

The proposed average and maximum injection pressures.

The proposed average injection pressure will be approximately 1100 psig and the maximum injection pressure will not exceed 1772 psig.

2.8 Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.

The minimum fracture gradient for the Federal #21-13Y-9-16, for existing perforations (4103' - 5042') calculates at 0.85 psig/ft. The maximum injection pressures will be limited so as not to exceed this gradient. A step rate test will be performed periodically to ensure we are below parting pressure. The proposed maximum injection pressure is 1772 psig. We may add additional perforations between 3563' and 5950'. See Attachments G and G-1.

2.9 Appropriate geological data on the injection interval and confining beds, including the geologic name, lithologic description, thickness, depth, and lateral extent.

In the Federal #21-13Y-9-16, the proposed injection zone (3882' - 5888') is in the Garden Gulch to the Basal Carbonate of the Green River Formation. The reservoir is a very fine-grained sandstone with minor imbedded shale streaks. The estimated porosity is 13%. The members are composed of porous and permeable lenticular calcareous sandstone and low porosity carbonates and calcareous shale. The porous and lenticular sandstone varies in thickness from 0-31' and is confined to the Monument Butte Federal Field. Outside the Monument Butte Federal Field, the sandstone is composed of tight, very fine, silty, calcareous sandstone, less than 3' thick. The stratum confining the injection zone is composed of tight, moderately calcareous, sandy lacustrine shale. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

2.10 A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter the improper intervals.

See Attachments E through E-12.

Additionally, the injection system will be equipped with high and low pressure shut down devices that will automatically shut in injection waters if a system blockage or leakage occurs. One way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure relief.

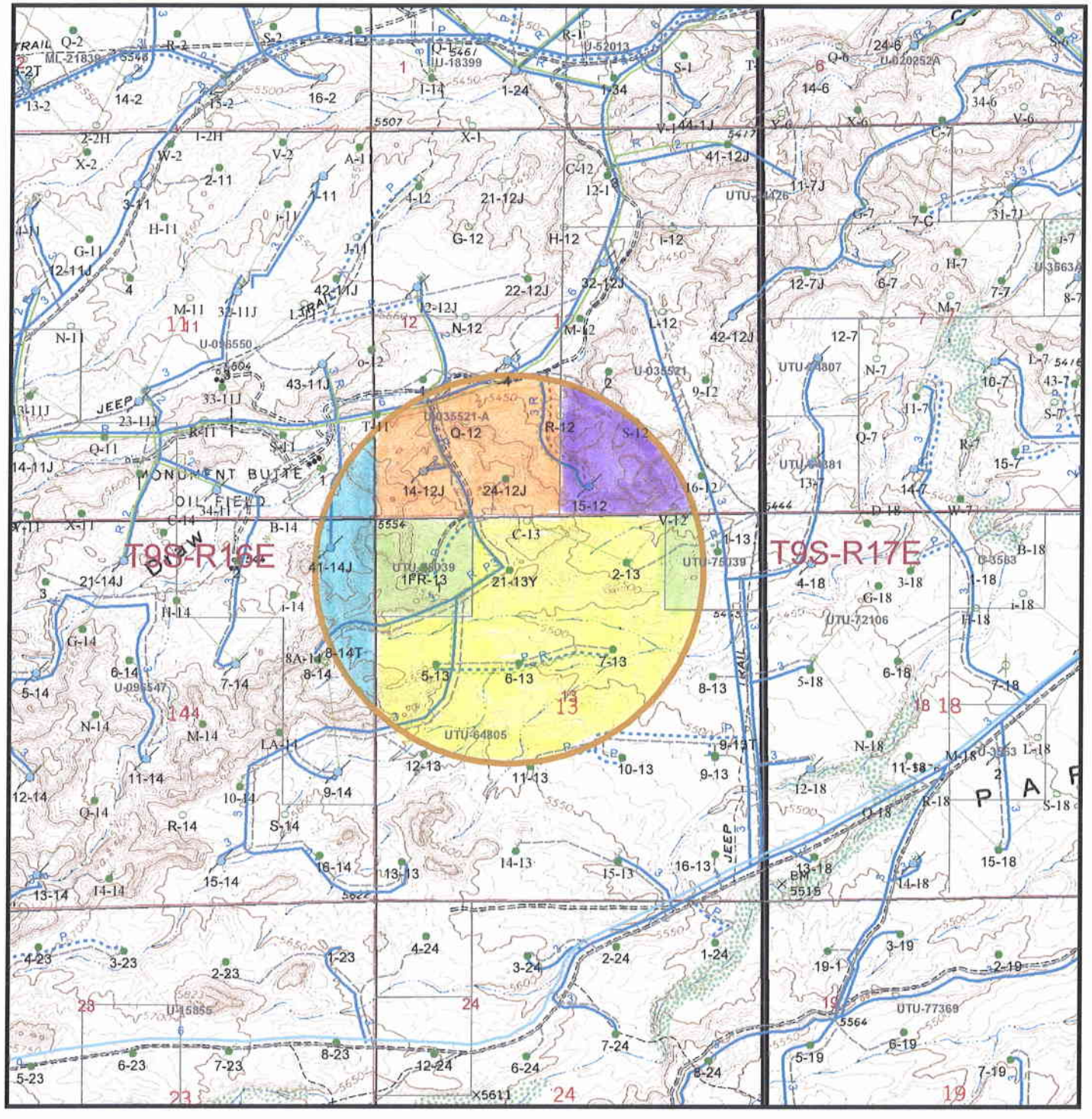
2.11 An affidavit certifying that a copy of the application has been provided to all operators or owners, and surface owners within a one-half mile radius of the proposed injection well.

See Attachment C.

2.12 Any other information that the Board or Division may determine is necessary to adequately review the application.

Newfield Production Company will supply any requested information to the Board or Division.

ATTACHMENT A



WellStatus_HalfMile_Buffer

Well Status
- Location
- CTI
- Surface Spud
- Drilling
- Waiting on Completion
- Producing Oil Well
- Producing Gas Well
- Water Injection Well
- Dry Hole
- Temporarily Abandoned
- Plugged & Abandoned
- Shut In
- Countyline

Injection system
- high pressure
- low pressure
- proposed
- return
- return proposed

Leases

Mining tracts

UTU-64805

UTU-75039

UTU-096550

UTU-035521-A

UTU-035521

Federal 21-13Y
Section 13, T9S-R16E

NEWFIELD
ROCKY MOUNTAINS

N

1" = 2000'

1/2 Mile Radius Map

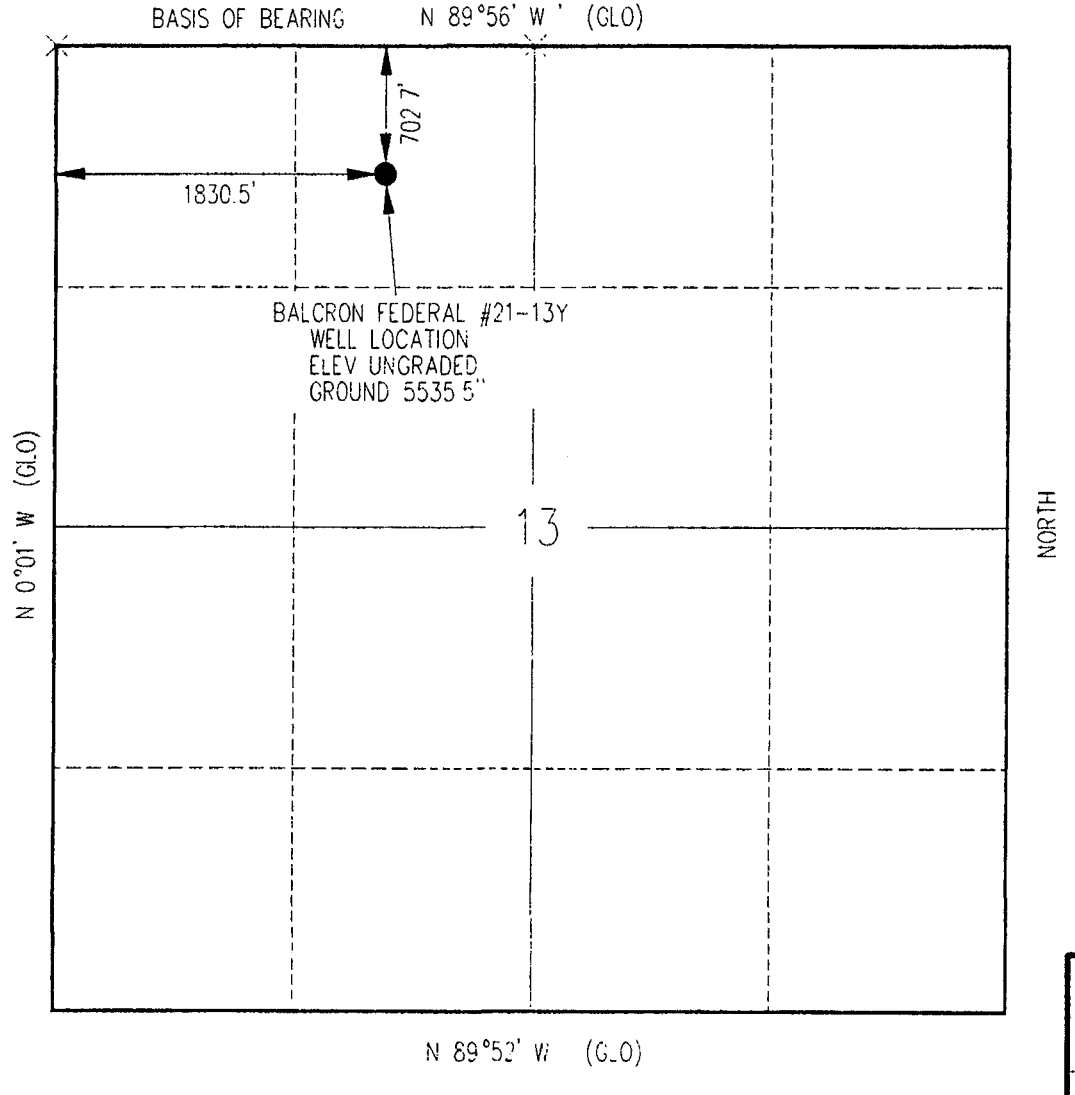
Duchesne & Uintah Counties

1001 17th Street Suite 2000
Denver, Colorado 80202
Phone: (303) 893-0102

Oct 10, 2011

ATTACHMENT A-1

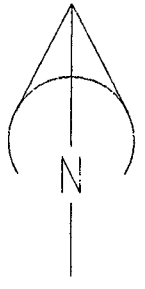
T9S, R16E, S.L.B. & M.



X = SECTION CORNERS LOCATED
BASIS OF BEARINGS; G.L.O PLAT 1911
BASIS OF ELEV: U.S.G.S 7-1/2 min QUAD (MYTON SE)

EQUITABLE RESOURCES ENERGY CO.

WELL LOCATION, BALCRON FEDERAL #21-13Y, LOCATED AS SHOWN IN THE NE 1/4 NW 1/4 OF SECTION 13 , T9S, R16E, S.L.B. & M, DUCHESNE COUNTY UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION, AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 3154
STATE OF UTAH

TRI STATE LAND SURVEYING & CONSULTING
38 EAST 100 NORTH, VERNAL, UTAH 84078
(801) 781-2501

SCALE: 1" = 1000'	SURVEYED BY: SS JC
DATE: 4/30/93	WEATHER: CLEAR & WARM
NOTES:	FILE #: #21-13Y

EXHIBIT G

EXHIBIT B

#	Legal Description	Lessor & Expiration	Lessee & Operating Rights	Surface Owner
1	T9S-R16E SLM Section 13: NWNE, NENW, S2N2, S2	USA UTU-64805 HBP	ABO Petroleum Corp Myco Industries Inc Newfield Production Co Newfield RMI LLC OXY Y-1 Company Yates Petroleum Corp	USA
2	T9S-R16E SLM Section 13: NENE, NWNW	USA UTU-75039 HBP	ABO Petroleum Corp Myco Industries Inc Newfield Production Co Newfield RMI LLC OXY Y-1 Company Yates Petroleum Corp	USA
3	T9S-R16E SLM Section 11: E2, NW, NESW Section 12: NW Section 14: N2NE, SENE, NESE	USA UTU-096550 HBP	ABO Petroleum Corp Myco Industries Inc Newfield Production Co Newfield RMI LLC OXY Y-1 Company Yates Petroleum Corp	USA
4	T9S-R16E SLM Section 12: SW	USA UTU-035521-A HBP	ABO Petroleum Corp Myco Industries Inc Newfield Production Co Newfield RMI LLC OXY Y-1 Company Yates Petroleum Corp Field Carl B Montana & Wyoming Oil Co Vaughey & Vaughey Warne Bonnie B Warne John R	USA

5	T9S-R16E SLM Section 12: S2NE, SE	USA UTU-035521 HBP	ABO Petroleum Corp Myco Industries Inc Newfield Production Co Newfield RMI LLC OXY Y-1 Company Yates Petroleum Corp Field Carl B Montana & Wyoming Oil Co Vaughey & Vaughey Warne Bonnie B Warne John R	USA

ATTACHMENT C

CERTIFICATION FOR SURFACE OWNER NOTIFICATION

RE: Application for Approval of Class II Injection Well
Federal #21-13Y-9-16

I hereby certify that a copy of the injection application has been provided to all surface owners within a one-half mile radius of the proposed injection well.

Signed: _____
Newfield Production Company
Eric Sundberg
Regulatory Lead

Sworn to and subscribed before me this 13th day of December, 2011.

Notary Public in and for the State of Colorado: Candice L. Twitty

My Commission Expires: My Commission Expires 02/10/2013

CANDICE L. TWITTY NOTARY PUBLIC STATE OF COLORADO MY COMMISSION EXPIRES 2/10/2013

ATTACHMENT E

Federal #21-13Y-9-16

Spud Date: 8/13/1993
Put on Production: 9/16/1993
GL: 5535' KB: 5545'

Wellbore Diagram

Initial Production: 84 BOPD, 126 MCFD, 7 BWPD

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 6 jts. (275')
HOLE SIZE:12-1/4"
CEMENT DATA: 150 sxs Premium Plus cement, est 6 bbls cmt to surf.

PRODUCTION CASING

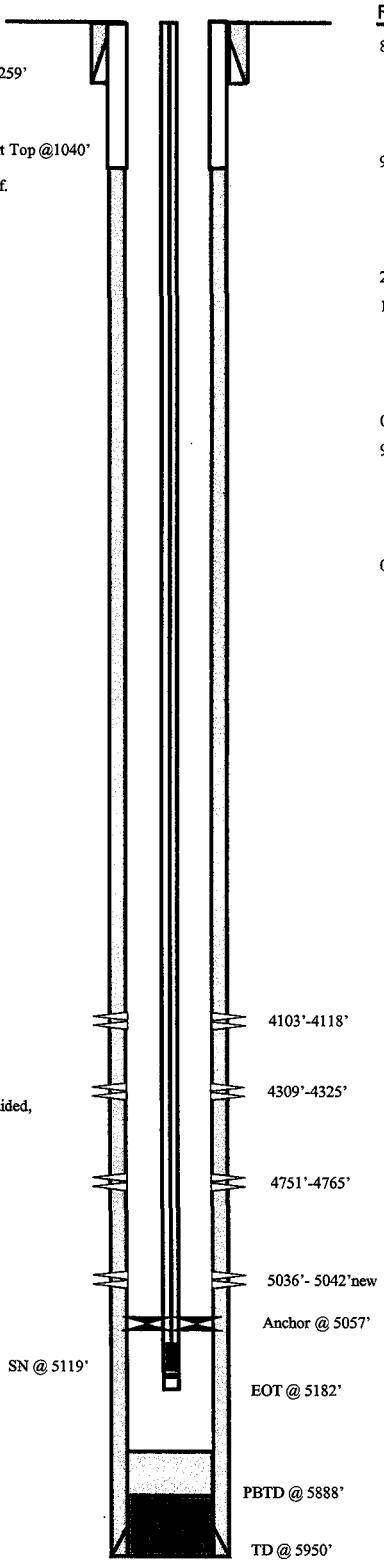
CSG SIZE: 5-1/2"
GRADE: K-55
WEIGHT: 15.5#
LENGTH: 139 jts. (5945.72')
DEPTH LANDED: 5940.72'
HOLE SIZE: 7-7/8"
CEMENT DATA: 145 sxs Hilift cement & 325 sxs Class "G".
CEMENT TOP AT: 1040' per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 163 jts (5043.8')
TUBING ANCHOR: 5057'
NO. OF JOINTS: 2 jt (62.9')
SEATING NIPPLE: 5119.4'
NO. OF JOINTS: 2 jt (61.5')
TOTAL STRING LENGTH: EOT @ 5182' KB

SUCKER RODS

POLISHED ROD: 1-1/4" x 26' SM
SUCKER RODS: 6-1 1/2" sinker bars; 98-3/4" guided rods; 100-3/4" guided, 1-2' x 7/8" pony rods.
PUMP SIZE: 2-1/2" x 1-1/2" x 20' RHAC
STROKE LENGTH: 64"
PUMP SPEED, SPM: 4 SPM
LOGS: DIGL/SP/GR/CAL



FRAC JOB

8/28/93	4751'-4765'	**Frac as follows:** 20,140# 20/40 sand & 15,380# 16/30 sand in 371 bbls gelled KCL frac fluid. Treated @ avg press of 1900 psi w/avg rate of 20 BPM. ISIP 1850 psi.
9/1/93	4309'-4325'	**Frac as follows:** 33,600# 16/30 sand in 377 bbls gelled KCL frac fluid. Treated @ avg press of 2050 psi w/avg. rate of 24.5 BPM. ISIP 1800 psi.
2/14/01		Tubing job. Update Rod and tubing details.
11/17/05	4103-4118	**Frac GB6 sds as follows:** 55,211# 20/40 sand in 439 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 1870 w/ ave rate of 25.2 bpm w/ 8 ppg of sand. ISIP was 2150. Actual flush: 4032 gals
08/29/08		Recompletion. Rod & Tubing detail updated.
9/3/08	5036-5042	**Frac A1 sds as follows:** 16,591# 20/40 sand in 238 bbls of Lightning 17 fluid. Treated w/ ave pressure of 3442 psi @ ave rate of 13.1BPM. ISIP 1962 psi. Actual flush: 1218 gals.
07/25/10		Tubing Leak. Rod & Tubing detail updated.

PERFORATION RECORD

8/26/93	4751'-4765'	2 JSPF	28 holes
8/31/93	4309'-4325'	2 JSPF	32 holes
11/17/05	4103-4118'	40 JSPF	60 holes
9/3/08	5036-5042'	4 JSPF	24 holes new

NEWFIELD

Federal #21-13Y-9-16
702' FNL & 1830' FWL
NENW Section 13-T9S-R16E
Duchesne Co, Utah
API #43-013-31400; Lease #UTU-64805

TW 09/21/10

ATTACHMENT E-1

Federal 1-13-9-16

Spud Date:08/08/05
Put on Production: 11/03/05
GL: 5459' KB: 5471'

Wellbore Diagram

Initial Production: BOPD, MCFD, BWPD

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts. (301.91')
DEPTH LANDED: 313.76' KB
HOLE SIZE:12-1/4"
CEMENT DATA: 160 sxs Class "G" cmt, est 4 bbls cmt to surf.

PRODUCTION CASING

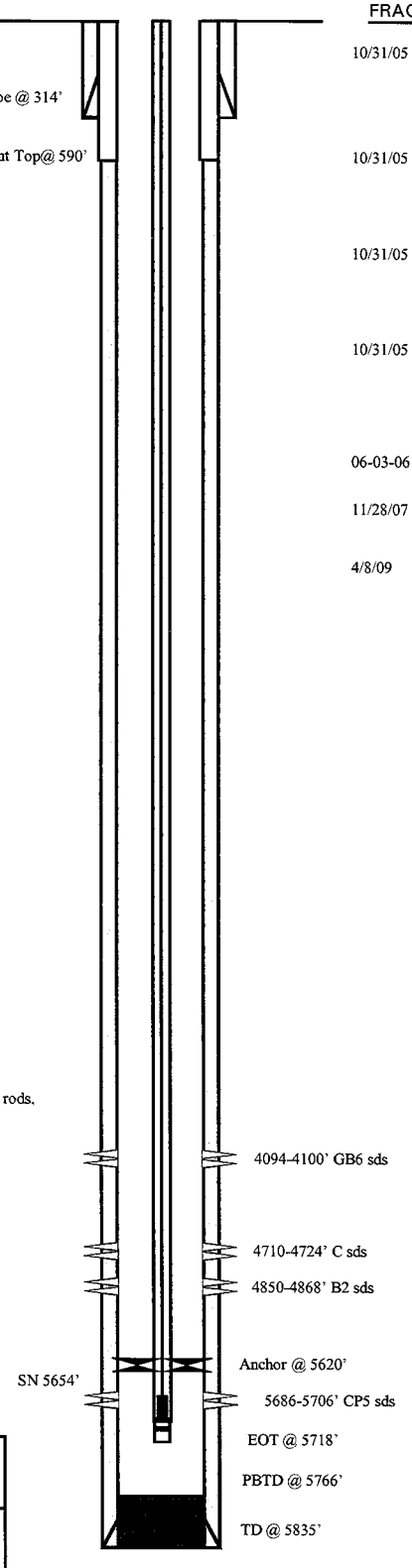
CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 133 jts. (5798.07')
DEPTH LANDED: 5811.32' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 350 sxs Prem. Lite II mixed & 475 sxs 50/50 POZ.
CEMENT TOP: 590'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 180 jts (5609.88')
TUBING ANCHOR: 5619.88' KB
NO. OF JOINTS: 1 jts (31.42')
SEATING NIPPLE: 2-7/8" (1.10')
SN LANDED AT: 5654.10' KB
NO. OF JOINTS: 2 jts (62.55')
TOTAL STRING LENGTH: EOT @ 5718.20' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM
SUCKER RODS: 1-4'x ¾" pony rod, 100-3/4" guided rods, 90-3/4" slick rods, 30-3/4" guided rods, 6-1 ½" weight rods.
PUMP SIZE: CDI 2-1/2" x 1-1/2" x 14' x 18' RHAC
STROKE LENGTH: 86"
PUMP SPEED, 5 SPM:



FRAC JOB

10/31/05	5686-5706'	**Frac CP5 sands as follows:** 89079# 20/40 sand in 688 bbls Lightning 17 frac fluid. Treated @ avg press of 1303 psi w/avg rate of 24.8 BPM. ISIP 1900 psi. Calc flush: 5684 gal. Actual flush: 5431 gal.
10/31/05	4850-4868'	**Frac B2 sands as follows:** 69180# 20/40 sand in 542 bbls Lightning 17 frac fluid. Treated @ avg press of 1759 psi w/avg rate of 24.7 BPM. ISIP 2400 psi. Calc flush: 4848 gal. Actual flush: 4633 gal.
10/31/05	4710-4724'	**Frac C sands as follows:** 98861# 20/40 sand in 710 bbls Lightning 17 frac fluid. Treated @ avg press of 1550 psi w/avg rate of 24.7 BPM. ISIP 2000 psi. Calc flush: 4708 gal. Actual flush: 4507 gal.
10/31/05	4094-4100'	**Frac GB6 sands as follows:** 33229# 20/40 sand in 346 bbls Lightning 17 frac fluid. Treated @ avg press of 1858 psi w/avg rate of 24.7 BPM. ISIP 2000 psi. Calc flush: 4092 gal. Actual flush: 3935 gal.
06-03-06		Pump Change: Tubing & Rod Detail Updated
11/28/07		**Pump Change**: Updated tubing & rod detail
4/8/09		Parted rods. Updated r & t details.

PERFORATION RECORD

10/24/05	5686-5706'	4 JSPF	80 holes
10/31/05	4850-4868'	4 JSPF	72 holes
10/31/05	4710-4724'	4 JSPF	56 holes
10/31/05	4094-4100'	4 JSPF	24 holes

NEWFIELD

Federal 1-13-9-16

487' FNL & 612' FEL

NE/NE Section 13-T9S-R16E

Duchesne Co, Utah

API #43-013-32660; Lease #UTU-75039

DF 6/16/09

Attachment E-2

Federal 2-13-9-16

Spud Date: 10-13-05
Put on Production: 11-30-05

GL: 5472' KB: 5484'

Wellbore Diagram

Initial Production: BOPD, MCFD, BWPD

SURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 jts (301.06')

DEPTH LANDED: 312.91' KB

HOLE SIZE:12-1/4"

CEMENT DATA: 160 sxs Class "G" cmt, est 7 bbls cmt to surf.

Cement top @ 60'

PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 139 jts. (5815.48')

DEPTH LANDED: 5828.73' KB

HOLE SIZE: 7-7/8"

CEMENT DATA: 350 sxs Prem. Lite II mixed & 475 sxs 50/50 POZ.

CEMENT TOP AT: 60'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55

NO. OF JOINTS: 155 jts (4930.08')

TUBING ANCHOR: 4940.08'

NO. OF JOINTS: 1 jts (31.54')

SEATING NIPPLE: 2-7/8" (1.10')

SN LANDED AT: 4974.42'

NO. OF JOINTS: 2 jts (62.53')

TOTAL STRING LENGTH: EOT @ 5038.50'

SUCKER RODS

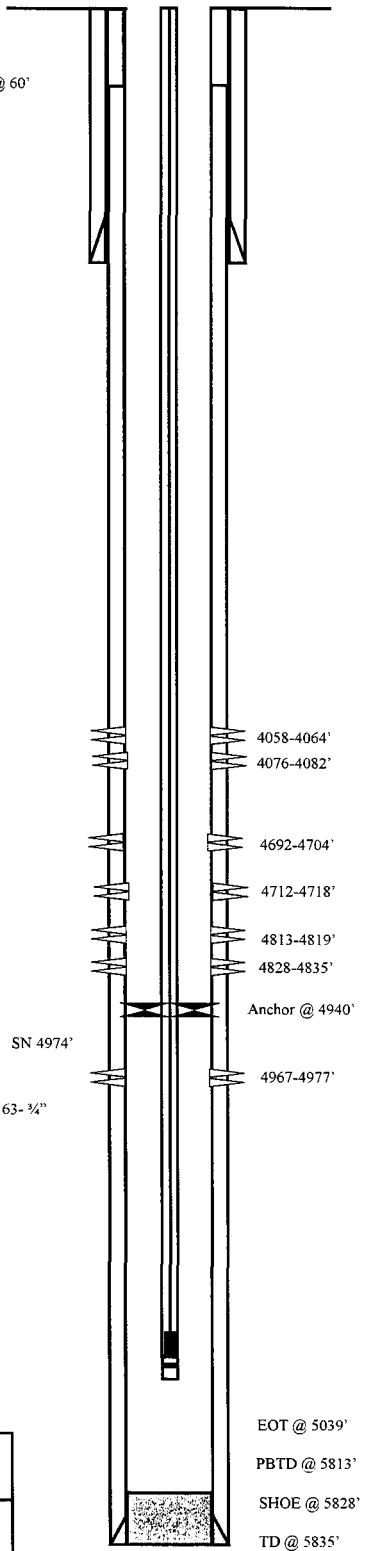
POLISHED ROD: 1-1/2" x 22' SM

SUCKER RODS: 1-6' & 1-2' X ¾" pony rods, 99- ¾" scrapered rods, 63- ¾" plain rods, 30- ¾" scrapered rods, 6-1 ½" weight rods.

PUMP SIZE: 2-1/2" x 1-1/2" x 14 ½' RHAC w/SM plunger

STROKE LENGTH: 86"

PUMP SPEED, SPM: 5 SPM



FRAC JOB

11-21-05	4967-4977'	**Frac A1 sands as follows:** 24275# 20/40 sand in 313 bbls Lightning 17 frac fluid. Treated @ avg press of 1933 psi w/avg rate of 24.7 BPM. ISIP 2000 psi. Calc flush: 4965 gal. Actual flush: 4691 gal.
11-21-05	4813-4835'	**Frac B1 sands as follows:** 59177# 20/40 sand in 474 bbls Lightning 17 frac fluid. Treated @ avg press of 1679 psi w/avg rate of 24.7 BPM. ISIP 2250 psi. Calc flush: 4811 gal. Actual flush: 4599 gal.
11-22-05	4692-4718'	**Frac C sands as follows:** 59763# 20/40 sand in 470 bbls Lightning 17 frac fluid. Treated @ avg press of 1550 psi w/avg rate of 24.7 BPM. ISIP 2000 psi. Calc flush: 4690 gal. Actual flush: 4032 gal.
11-22-05	4058-4082'	**Frac GB6 sands as follows:** 31561# 20/40 sand in 335 bbls Lightning 17 frac fluid. Treated @ avg press of 1827 w/ avg rate of 24.7 BPM. ISIP 1800 psi. Calc flush: 4056 gal. Actual flush: 3948 gal.
11-30-07		Tubing Leak. Updated rod & tubing details.

PERFORATION RECORD

11-14-05	4967-4977'	4 JSPF	40 holes
11-21-05	4828-4835'	4 JSPF	28 holes
11-21-05	4813-4819'	4 JSPF	24 holes
11-22-05	4712-4718'	4 JSPF	24 holes
11-22-05	4692-4704'	4 JSPF	48 holes
11-22-05	4076-4082'	4 JSPF	24 holes
11-22-05	4058-4064'	4 JSPF	24 holes

NEWFIELD

Federal 2-13-9-16

626' FNL & 1847' FEL

NW/NE Section 13-T9S-R16E

Duchesne Co, Utah

API #43-013-32659; Lease #UTU-64805

DF 1/21/08

ATTACHMENT E-3

Federal 5-13-9-16

Wellbore Diagram

Spud Date:09/22/05
Put on Production: 11/08/05
GL: 5538' KB: 5550'

Initial Production: BOPD, MCFD, BWPD

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts. (301.7')
DEPTH LANDED: 312.6' KB
HOLE SIZE:12-1/4"
CEMENT DATA: 160 sxs Class "G" cmt, est 4 bbls cmt to surf.

PRODUCTION CASING

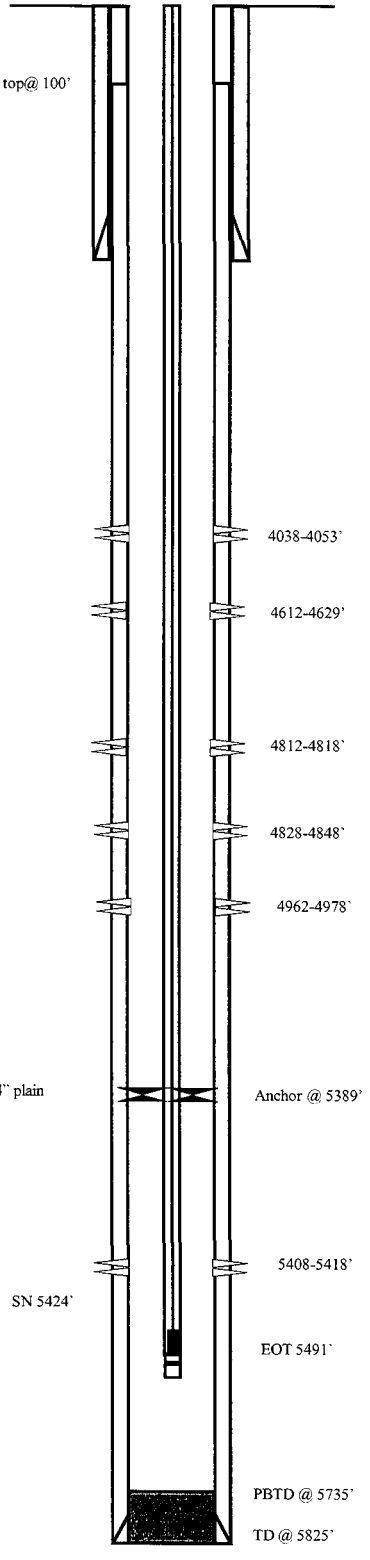
CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 135 jts. (5802.05')
DEPTH LANDED: 5801.3' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 300 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.
CEMENT TOP: 100'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 165jts (5377.30')
TUBING ANCHOR: 5389.30' KB
NO. OF JOINTS: 1 jts (32.56')
SEATING NIPPLE: 2-7/8" (1.10')
SN LANDED AT: 5424.66' KB
NO. OF JOINTS: 2 jts (65.13')
TOTAL STRING LENGTH: EOT @ 5491.34' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM
SUCKER RODS: 1-4' x ¾" pony rod, 101-3/4" scrapered rods, 100-3/4" plain rods, 10-3/4" scrapered rods, 6-1 ½" weight rods.
PUMP SIZE: 2-1/2" x 1-1/2" x 15' RHAC w/SM plunger
STROKE LENGTH: 86"
PUMP SPEED,5 SPM:



FRAC JOB

11/01/05	5408-5418'	**Frac CP1 sands as follows:** 34070# 20/40 sand in 392 bbls Lightning 17 frac fluid. Treated @ avg press of 1933 psi w/avg rate of 24.7 BPM. ISIP 2200 psi. Calc flush: 5406 gal. Actual flush: 5124 gal.
11/01/05	4962-4978'	**FracA1 sands as follows:** 89150# 20/40 sand in 655 bbls Lightning 17 frac fluid. Treated @ avg press of 1591 psi w/avg rate of 24.7 BPM. ISIP 2100 psi. Calc flush: 4960 gal. Actual flush: 4746 gal.
11/04/05	4812-4848'	**Frac B1, B2 sands as follows:** 158872# 20/40 sand in 1078 bbls Lightning17 frac fluid. Treated @ avg press of 1550 psi w/avg rate of 24.7 BPM. ISIP 2000 psi. Calc flush: 4810 gal. Actual flush: 4582 gal.
11/02/05	4612-4629'	**Frac D2 sands as follows:** 29350# 20/40 sand in 344 bbls Lightning 17 frac fluid. Treated @ avg press of 1762 psi w/avg rate of 24.8 BPM. ISIP 2000 psi. Calc flush: 4610 gal. Actual flush: 4326 gal.
11/02/05	4038-4053'	**Frac GB6 sands as follows:** 83194# 20/40 sand in 585 bbls Lightning 17 frac fluid. Treated @ avg press of 1388 psi w/avg rate of 24.7 BPM. ISIP 1900 psi. Calc flush: 4036 gal. Actual flush: 3944 gal.
9/16/09		Pump Change. Updated rod & tubing details.

PERFORATION RECORD

11/01/05	5408-5418'	4 JSPF	40 holes
11/01/05	4962-4978'	4 JSPF	64 holes
11/01/05	4828-4848'	4 JSPF	80 holes
11/01/05	4812-4818'	4 JSPF	24 holes
11/02/05	4612-4629'	4 JSPF	68 holes
11/02/05	4038-4053'	4 JSPF	60 holes

NEWFIELD

Federal 5-13-9-16

1981' FNL & 820' FWL

SW/NW Section 13-T9S-R16E

Duchesne Co, Utah

API #43-013-32658; Lease #UTU-64805

DF 11/2/09

Attachment E-4

Federal 6-13-9-16

Wellbore Diagram

P & A

Spud Date: 9/26/2005
Put on Production:
GL: 5514' KB: 5526'

SURFACE CASING

CSG SIZE 8-5/8"
GRADE J-55
WEIGHT 24#
LENGTH 7 jts (303.52')
DEPTH LANDED 313.52'
HOLE SIZE 12-1/4"
CEMENT DATA 160 sxs Class "G" cmt, circ. 5.5 bbls to surf

PRODUCTION CASING

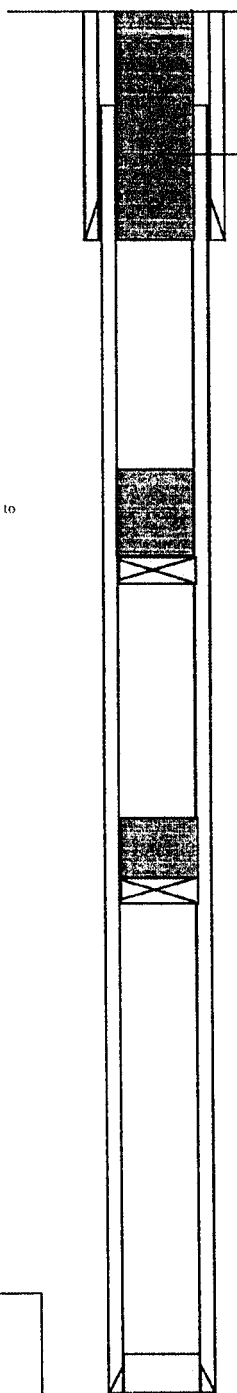
CSG SIZE 5-1/2"
GRADE J-55
WEIGHT 15.5#
LENGTH 132 jts. (5815.38')
DEPTH LANDED 5813.38'
HOLE SIZE 7-7/8"
CEMENT DATA 300 sxs Prem. Lite II & 450 sxs 50/50 POZ. 9 bbls to surf
CEMENT TOP AT No CBL run

TUBING

SIZE/GRADE/WT 2-7/8" / J-55 / 6.5#
NO. OF JOINTS jts (')
TUBING ANCHOR
NO. OF JOINTS 1 jts (')
SEATING NIPPLE 2-7/8" (1.1')
SN LANDED AT
NO. OF JOINTS jts (')
TOTAL STRING LENGTH EOT @

SUCKER RODS

POLISHED ROD
SUCKER RODS
PUMP SIZE
STROKE LENGTH
PUMP SPEED, SPM



Cement Plug 0'-314'
15.5 sxs Class G Cement

Plug # 2 - Green River TOC 1168'
50 sxs Class G Cement plug on top of CIBP
CIBP @ 1400'

Plug # 1 - Garden Gulch TOC @ 3355'
18 sxs Class G Cement plug on top of CIBP
CIBP @ 3510'

TD @ 5825'

FRAC JOB

03-2006	**Operations Suspended**
09/19/12	**P&A** – CIBP @ 3510" TOC @ 3355', CIBP @ 1400' TOC @ 1168, 15.5 sacks Class G cement down both casings to surface. Stoney Anderton w/ BLM witnessed the P&A. Weld plate, back fill hole, dig up deadmen & cut off 3' below ground level. South Slope Reclamation to do dirt work

PERFORATION RECORD

NEWFIELD

Federal 6-13-9-16
1794' FNL & 1960' FWL (SE/NW)
Section 13, T9S, R16E
Duchesne Co, Utah
API # 43-013-32657; Lease # UTU-64805

LCN 10/01/12

Attachment E-5

Federal 7-13-9-16

Spud Date: 09-26-05
Put on Production: 12-01-05

GL: 5549' KB: 5561'

Wellbore Diagram

Initial Production: BOPD, MCFD, BWPD

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts (301.02')
DEPTH LANDED: 311.92' KB
HOLE SIZE:12-1/4"
CEMENT DATA: 160 sxs Class "G" cmt, est 5.5 bbls cmt to surf.

PRODUCTION CASING

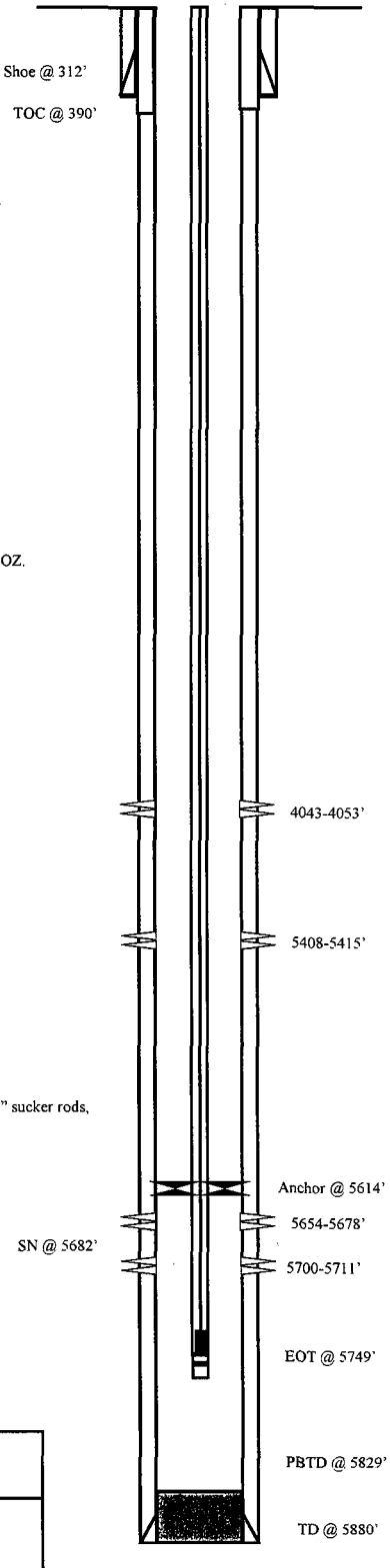
CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 134 jts. (5829.6')
DEPTH LANDED: 5875.35' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 300 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.
CEMENT TOP AT: 390'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 173 jts (5614.3')
TUBING ANCHOR: 5614' KB
NO. OF JOINTS: 2 jts (65.2')
SEATING NIPPLE: 2-7/8" (1.10')
SN LANDED AT: 5682' KB
NO. OF JOINTS: 2 jts (65.2')
TOTAL STRING LENGTH: EOT @ 5749' w/ 12' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM
SUCKER RODS: 1-2' X ¾" pony rods, 98-¾" guided rods, 51- ¾" sucker rods, 69- ¾" guided rods, 6-1 ½"sinker bars.
PUMP SIZE: 2-1/2" x 1-1/4" x 16'' RHAC
STROKE LENGTH: ?"
PUMP SPEED, SPM: ? SPM



FRAC JOB

11-22-05	5654-5711'	**Frac CP4, & CP5 sands as follows:** 124436# 20/40 sand in 875 bbls Lightning 17 frac fluid. Treated @ avg press of 1400 psi w/avg rate of 24.7 BPM. ISIP 2000 psi. Calc flush: 5652 gal. Actual flush: 5313 gal.
11-23-05	5408-5415'	**Frac CP1, sands as follows:** 19462# 20/40 sand in 294 bbls Lightning 17 frac fluid. Treated @ avg press of 1730 psi w/avg rate of 24.7 BPM. ISIP 1950 psi. Calc flush: 5406 gal. Actual flush: 3990 gal.
11-23-05	4043-4053'	**Frac GB6 sands as follows:** 47516# 20/40 sand in 457 bbls Lightning 17 frac fluid. Treated @ avg press of 1613 psi w/avg rate of 14.5 BPM. ISIP 1900 psi. Calc flush: 4041 gal. Actual flush: 3948 gal.
8/15/08		Parted Rods. Rod & tubing updated.
09-16-11		Parted Rods. Rods & tubing updated.

PERFORATION RECORD

11-17-05	5700-5711'	4 JSPF	44 holes
11-17-05	5654-5678'	4 JSPF	96 holes
11-22-05	5408-5415'	4 JSPF	28 holes
11-23-05	4043-4053'	4 JSPF	40 holes

NEWFIELD

Federal 7-13-9-16

1807' FNL & 2034' FEL

SW/NE Section 13-T9S-R16E

Duchesne Co, Utah

API #43-013-32656; Lease #UTU-64805

TW 09/22/11

ATTACHMENT E-6

Federal 11-13-9-16

Spud Date: 10/31/05
Put on Production: 12/14/05
GL: 5444' KB:5454'

Wellbore Diagram

Initial Production: BOPD 51, MCFD 39, BWPD 28

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts. (296.83')
DEPTH LANDED: 306.83' KB
HOLE SIZE:12-1/4"
CEMENT DATA: 160 sx Class "G" mixed cmt, est 2 bbls cmt to surf.

PRODUCTION CASING

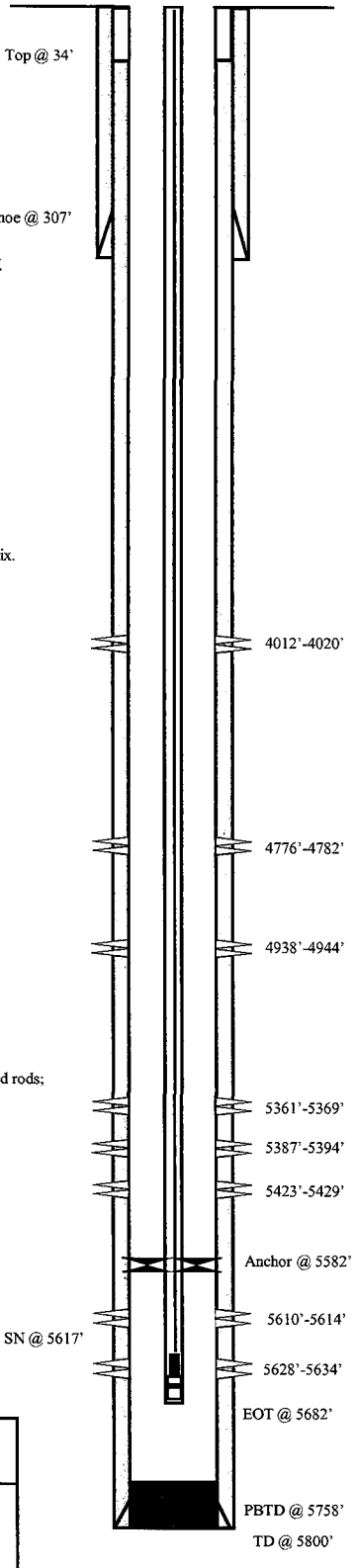
CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 132 jts. (5791.7')
DEPTH LANDED: 5789.7' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 325 sx Prem. Lite II mixed & 450 sx 50/50 POZ mix.
CEMENT TOP AT: 34'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 172 jts (5571.73')
TUBING ANCHOR: 5581.73' KB
NO. OF JOINTS: 1 jt (32.55')
SEATING NIPPLE: 2-7/8" (1.10')
SN LANDED AT: 5617.08' KB
NO. OF JOINTS: 2 jts (63.62')
TOTAL STRING LENGTH: EOT @ 5682.25' w/ 10' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 22'
SUCKER RODS: 1-6', 1-4', 1-2' x 3/4" pony rods, 100-3/4" scrapered rods; 99-3/4" plain rods, 20-3/4" scrapered rods, 6-1 1/2" weight rods, .
PUMP SIZE: 2-1/2" x 1-1/2" x 14' RHAC pump w/ SM Plunger
STROKE LENGTH: 86"
PUMP SPEED, SPM: 6 SPM



FRAC JOB

12/09/05 5610'-5634'	**Frac CP4 sands as follows:** 40,198# 20/40 sand in 394 bbls lightning Frac 17 fluid. Treated @ avg press of 1702 psi w/avg rate of 24.7 BPM. ISIP 2300 psi. Calc flush: 5608 gal. Actual flush: 5007 gal.
12/09/05 5361'-5429'	**Frac CP1 & CP2 sands as follows:** 95,683# 20/40 sand in 703 bbls lightning Frac 17 fluid. Treated @ avg press of 1593 psi w/avg rate of 24.7 BPM. ISIP 2150 psi. Calc flush: 5359 gal. Actual flush: 4775 gal.
12/10/05 4938'-4944'	**Frac A1 sands as follows:** 20,953# 20/40 sand in 278 bbls lightning Frac 17 fluid. Treated @ avg press of 1972 psi w/avg rate of 24.8 BPM. ISIP 1950 psi. Calc flush: 4936 gal. Actual flush: 4368 gal.
12/10/05 4776'-4782'	**Frac B1 sands as follows:** 36,114# 20/40 sand in 380 bbls lightning Frac 17 fluid. Treated @ avg press of 2210psi w/avg rate of 24.9 BPM. ISIP 1975 psi. Calc flush: 4774 gal. Actual flush: 3822 gal.
12/10/05 4012'-4020'	**Frac GB4 sands as follows:** 19,329# 20/40 sand in 268 bbls lightning Frac 17 fluid. Treated @ avg press of 1347psi w/avg rate of 14.3 BPM. ISIP 1700 psi. Calc flush: 4010 gal. Actual flush: 3927 gal.
06/28/07	Pump Change. Update rod and tubing details.

PERFORATION RECORD

12/05/05	5628'-5634'	4 JSPF	24 holes
12/05/05	5610'-5614'	4 JSPF	16 holes
12/09/05	5423'-5429'	4 JSPF	24 holes
12/09/05	5387'-5394'	4 JSPF	28 holes
12/09/05	5361'-5369'	4 JSPF	32 holes
12/09/05	4938'-4944'	4 JSPF	24 holes
12/10/05	4776'-4782'	4 JSPF	24 holes
12/10/05	4012'-4020'	4 JSPF	32 holes

NEWFIELD

Federal 11-13-9-16
1855' FSL & 2103' FWL
NE/SW Section 13-T9S-R16E
Duchesne County, Utah
API #43-013-32652; Lease #UTU-64805

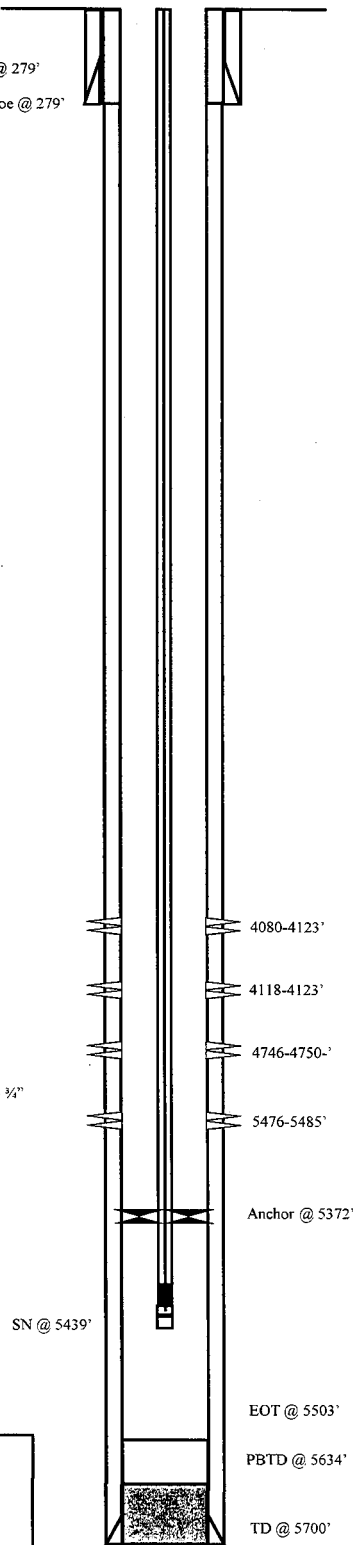
CB 07/17/07

Attachment E-7

Balcron Monument Federal 24-12J-9-16

Spud Date: 11/8/93
Put on Production: 12/30/93
GL: 5495' KB: 5505'

Wellbore Diagram



SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 6jts. (271.28')
DEPTH LANDED: 279'
HOLE SIZE: 12-1/4"
CEMENT DATA: 150 sxs Class "G" cmt

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 129 jts. (5676.22')
HOLE SIZE: 7-7/8"
DEPTH LANDED: 5685.22'
CEMENT DATA: 204 sxs Prem. Lite II mixed & 215 sxs 50/50 POZ.
CEMENT TOP AT: 279'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 172 jts (5361')
TUBING ANCHOR: 5371.7'
NO. OF JOINTS: 1 jts (64.2')
SEATING NIPPLE: 2-7/8" (1.1')
SN LANDED AT: 5438.7' KB
NO. OF JOINTS: 2 jts (5439.8')
TOTAL STRING LENGTH: EOT @ 5503'

SUCKER RODS

POLISHED ROD: 1-1/4" x 22'
SUCKER RODS: 77- ¾" guided rods (4 per), 114- ¾" sucker rods, 20- ¾" guided rods (4 per), 6- 1 ½" weight bars
PUMP SIZE: 2 ½ x 1 1/2 x 16' RHAC
STROKE LENGTH: 76
PUMP SPEED: 4.5 SPM

FRAC JOB

12/22/93	**4080'-4123'Frac**	**Frac sands as follows:** with 33085 # 16-30 sand in 500 bbls of YF155 2% KCl water.
12/17/93	**4746'-4750'**	**Frac sands as follows:** with 13978# 16-30 sand in 247 bbls of YF155 2% KCl water. Screened out during flush. ATR 15 BPM @ 2500 psi, max 3350 psi. I SI P 2450 psi, 10 min – 1488 psi, 15 min – 1484 psi.
12/14/93		**Frac sands as follows:** Screened out – no details available.
12/7/09		Parted rods. Updated rod and tubing details.

PERFORATION RECORD

4080'-4086'	2 JSPF	12 holes
4118'-4123'	2 JSPF	10 holes
4746'-4750'	2 JSPF	8 holes
5476'-5485'	2 JSPF	18 holes

NEWFIELD

Balcron Monument Federal 24-12J-9-16
539' FSL & 1777' FWL
SE/SW Section 12-T9S-R16E
Duchesne Co, Utah
API # 43-013-31409; Lease # U-035521-A

KC 2-26-09

ATTACHMENT E-8

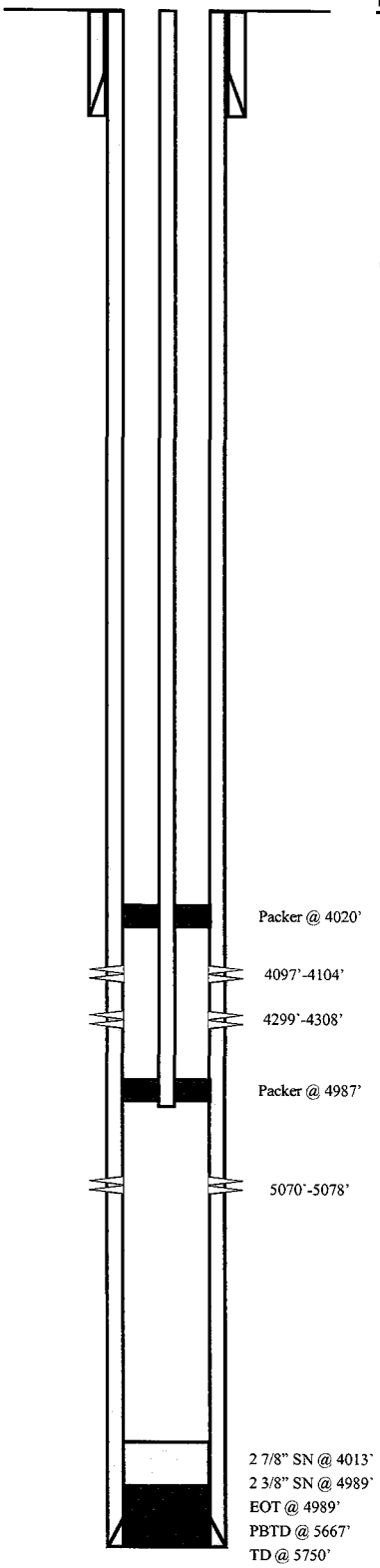
Monument Fed. 14-12J-9-16

Spud Date: 11/03/93
Put on Production: 12/18/93
Put on Injection: 10/28/94

GL: 5487' KB: 5497'

Initial Production: 70 BOPD, NM MCFD, 20 BWPD

Injection Wellbore Diagram



SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts. (271.17')
DEPTH LANDED: 279' KB
HOLE SIZE: 12-1/4"
CEMENT DATA: 150 sxs Class "G" cmt, est 4 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: K-55
WEIGHT: 15.5#
LENGTH: 131 jts. (5718.17')
DEPTH LANDED: 5727.17'
HOLE SIZE: 7-7/8"
CEMENT DATA: 220 sxs Lead cement & 260 sxs 50/50 POZ.
CEMENT TOP AT: ? per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 129 jts (4002.65')
SEATING NIPPLE: 2-7/8" (1.12')
SN LANDED AT: 4013.77' KB
2 7/8" x 2 3/8" CROSSOVER: 4014.52' KB
PACKER: 4020.72' KB
SIZE/GRADE/WT.: 2-3/8" / J-55 / 4.5#
NO. OF JOINTS: 31 jts (960.38')
PACKER: 4987.90' KB
SEATING NIPPLE: 2-3/8" (1.10')
SN LANDED AT: 4989.00' KB
TOTAL STRING LENGTH: EOT @ 4989.00'

FRAC JOB

12/06/93	5070'-5078'	**Frac zone as follows:** 25,446# 20/40 sand in 286 bbls 2% KCl. Treated @ avg press of 2341 psi w/avg rate of 17.4 BPM. ISIP 3578 psi. Calc. flush: 5070 gal. Actual flush: 5030 gal.
12/09/93	4097'-4308'	**Frac zone as follows:** 41,300# 20/40 sand in 457 bbls 2% KCl. Treated @ avg press of 2527 psi w/avg rate of 19 BPM. ISIP 1606 psi. Calc. flush: 4097 gal. Actual flush: 4050 gal.
04-08-10		**5YR MIT**

PERFORATION RECORD

12/06/93	5070'-5078'	2 SPF	16 holes
12/08/93	4299'-4308'		06 holes
12/08/93	4097'-4104'		05 holes

NEWFIELD

Monument Fed. #14-12j-9-16
660' FSL & 660' FWL
SWSW Section 12-T9S-R16E
Duchesne Co, Utah
API #43-013-31411; Lease #U-035521-A

LCN 04-12-10

ATTACHMENT E-9

Monument Fed. 41-14J-9-16

Spud Date: 12/01/93
Put on Production: 1/07/94
Put on Injection: 10/29/93

GL: 5529' KB: 5539'

Initial Production: 20 BOPD, 60 MCFD, 10 BWPD

Injection Wellbore Diagram

SURFACE CASING

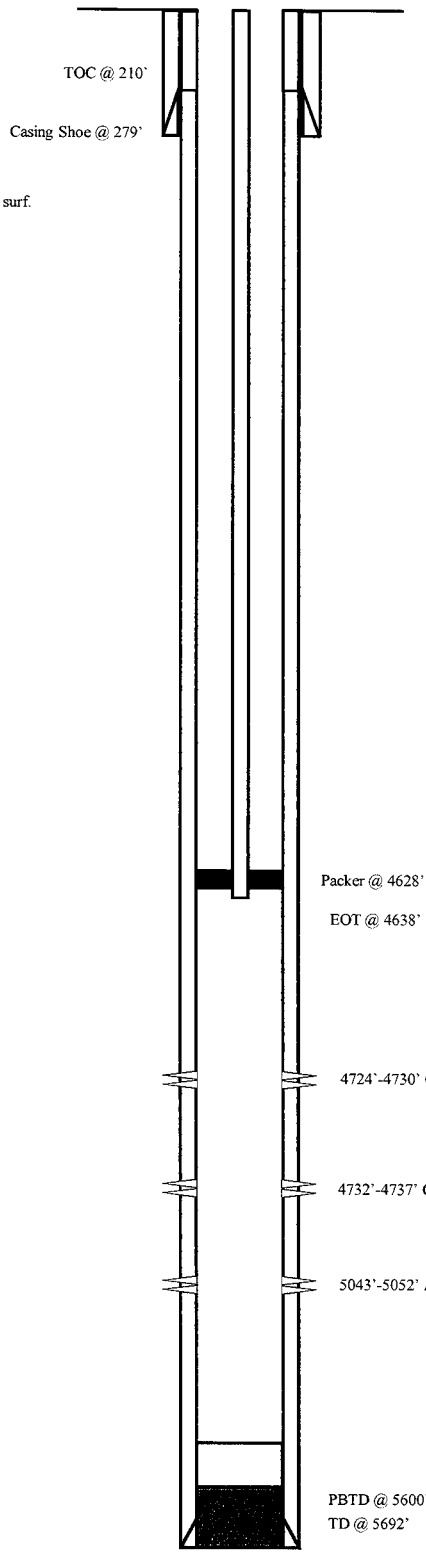
CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 6 jts. (271.04')
DEPTH LANDED: 279'
HOLE SIZE: 12-1/4"
CEMENT DATA: 150 sxs Class "G" cmt, est 4 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: K-55
WEIGHT: 15.5#
LENGTH: 131 jts. (5637.81')
DEPTH LANDED: 5646.81' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 225 sxs Hi-Lift & 261 sxs Class "G".
CEMENT TOP AT: 210' per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 149 jts (4627.28')
SEATING NIPPLE: 2-7/8" (1.10')
SN LANDED AT: 4627.3' KB
2 7/8" x 2 3/8" CROSS-OVER: 4628.4' KB
PACKER: 4628.8' KB
TOTAL STRING LENGTH: EOT @ 4638'



FRAC JOB

12/23/93	5043'-5052'	**Frac sand as follows:** 12,500# 20/40 sand + 6,500# 16/30 sand in 194 bbls 2% KCl fluid. Treated @ avg press of 2300 psi w/avg rate of 19 BPM. ISIP 2800 psi. Calc. flush: 5043 gal, Actual flush: 1344 gal. Screened out.
12/28/93	4724'-4737'	**Frac sand as follows:** 27,500# 16/30 sand in 354 bbls 2% KCl fluid. Treated @ avg press of 2100 psi w/avg rate of 19.5 BPM. ISIP 2100 psi. Calc. flush: 4724 gal, Actual flush: 4660 gal.
9/30/08		**Zone Stimulation.**
04-08-10		**5 YR MIT**

PERFORATION RECORD

12/22/93	5043'-5052'	2 JSPF	18 holes
12/28/93	4732'-4737'	2 JSPF	10 holes
12/28/93	4724'-4730'	2 JSPF	12 holes

NEWFIELD

Monument Fed. #41-14J-9-16
363' FNL & 600' FEL
NENE Section 14-T9S-R16E
Duchesne Co, Utah
API #43-013-31408; Lease #U-096550

LCN 4-12-10

ATTACHMENT E-10

Pan American #1FR-9-16

Spud Date: 1/5/06
Put on Production: 2/9/06

GL: 5529' KB: 5541'

Initial Production: BOPD, MCFD, BWPD

SURFACE CASING

CSG SIZE: 10 3/4" / 32.75#
DEPTH LANDED: 309'
HOLE SIZE: 15"
CEMENT DATA: 230 sxs cement.
HOLE SIZE to 6000': 10"

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 132 jts. (5479.96')
DEPTH LANDED: 5477.96' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 300 sxs Prem. Lite II mixed & 500 sxs 50/50 POZ.
CEMENT TOP AT: 1290'

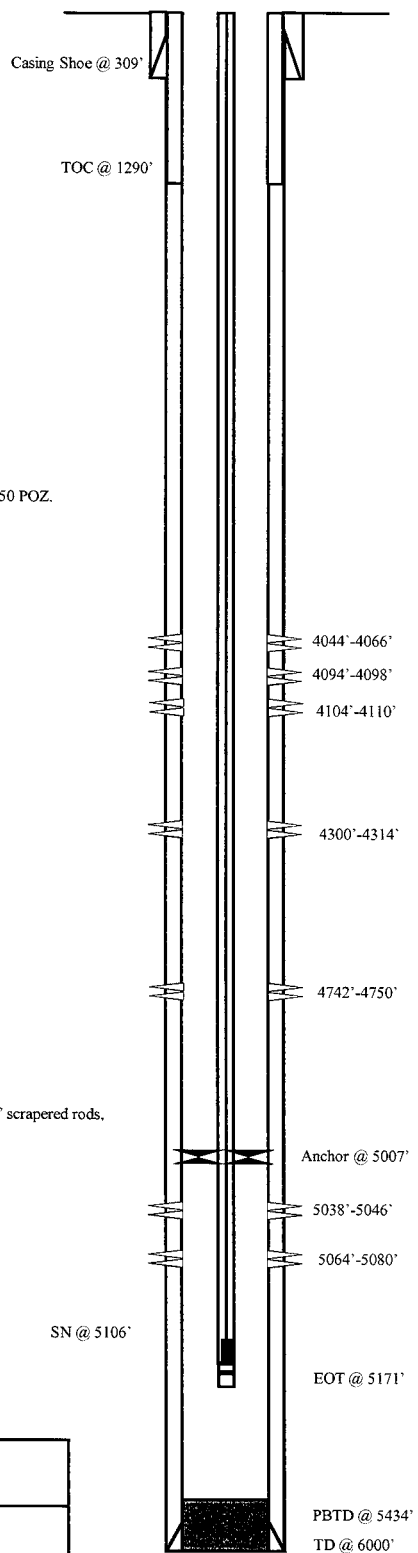
TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 157 jts (4995.27')
TUBING ANCHOR: 5007.27' KB
NO. OF JOINTS: 3 jts (96.02')
SEATING NIPPLE: 2-7/8" (1.10')
SN LANDED AT: 5106.09' KB
NO. OF JOINTS: 2 jts (62.92')
TOTAL STRING LENGTH: EOT @ 5170.56' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' polished rod
SUCKER RODS: 1-8', 1-6', 1-4', 1-2' x ¾" pony rods, 99- ¾" scrapered rods, 88- ¾" plain rods, 10- ¾" scrapered rods, 6-1 ½" weight rods
PUMP SIZE: 2-1/2" x 1-1/2" x 14' RHAC w/SM plunger
STROKE LENGTH: 86"
PUMP SPEED, SPM: 5 SPM

Wellbore Diagram



FRAC JOB

2/6/06 5038'-5080' **Frac A1&3 sands as follows:** 70,448# 20/40 sand in 562 bbls Lightning 17 frac fluid. Treated @ avg press of 1933 psi w/avg rate of 24.9 BPM. ISIP 2050 psi. Calc flush: 5036 gal. Actual flush: 5040 gal.

2/6/06 4742'-4750' **Frac C sands as follows:** 34,710# 20/40 sand in 390 bbls Lightning 17 frac fluid. Treated @ avg press of 1978 psi w/avg rate of 24.8 BPM. ISIP 1980 psi. Calc flush: 4740 gal. Actual flush: 4746 gal.

2/6/06 4300'-4314' **Frac PB10 sands as follows:** 35,142# 20/40 sand in 348 bbls Lightning 17 frac fluid. Treated @ avg press of 1820 psi w/avg rate of 24.8 BPM. ISIP 2060 psi. Calc flush: 4298 gal. Actual flush: 4326 gal.

2/6/06 4044'-4110' **Frac GB6 sands as follows:** 67,736# 20/40 sand in 511 bbls Lightning 17 frac fluid. Treated @ avg press of 1805 w/ avg rate of 24.9 BPM. ISIP 1820 psi. Calc flush: 4042 gal. Actual flush: 3906 gal.

PERFORATION RECORD

2/1/06	5064'-5080'	4 JSPF	64 holes
2/1/06	5038'-5046'	4 JSPF	32 holes
2/6/06	4742'-4750'	4 JSPF	32 holes
2/6/06	4300'-4314'	4 JSPF	56 holes
2/6/06	4104'-4110'	4 JSPF	24 holes
2/6/06	4094'-4098'	4 JSPF	16 holes
2/6/06	4044'-4066'	4 JSPF	88 holes

NEWFIELD

Pan American #1FR-9-16

663' FNL & 663' FWL

NW/NW Section 13-T9S-R16E

Duchesne Co, Utah

API #43-013-10822; Lease #UTU-75039

MC 2/21/06

ATTACHMENT E-11

Jonah #S-12-9-16

Spud Date: 10/15/08

Put on Prduction: 11/21/08

GL: 5426' KB: 5438'

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24 #

LENGTH: 7 jts (316.09')

DEPTH LANDED: 326.09'

HOLE SIZE: 12-1/4"

CEMENT DATA: 160 sx class 'g' cmt

PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 155 (6078')

DEPTH LANDED: 6076'

HOLE SIZE: 7-7/8"

CEMENT DATA: 350 sx premlite and 475 sx 50/50 poz

CEMENT TOP AT: 54'

TUBING

SIZE/GRADE/WT.: 6.5#, J-55

NO. OF JOINTS: 159 jts (4911.15')

TUBING ANCHOR: 4923.15'

NO. OF JOINTS: 1jts (31.00')

SN LANDED AT: 4956.95'

NO. OF JOINTS: 2 jts (62.27')

TOTAL STRING LENGTH: EOT @ 5020.72'

SUCKER RODS

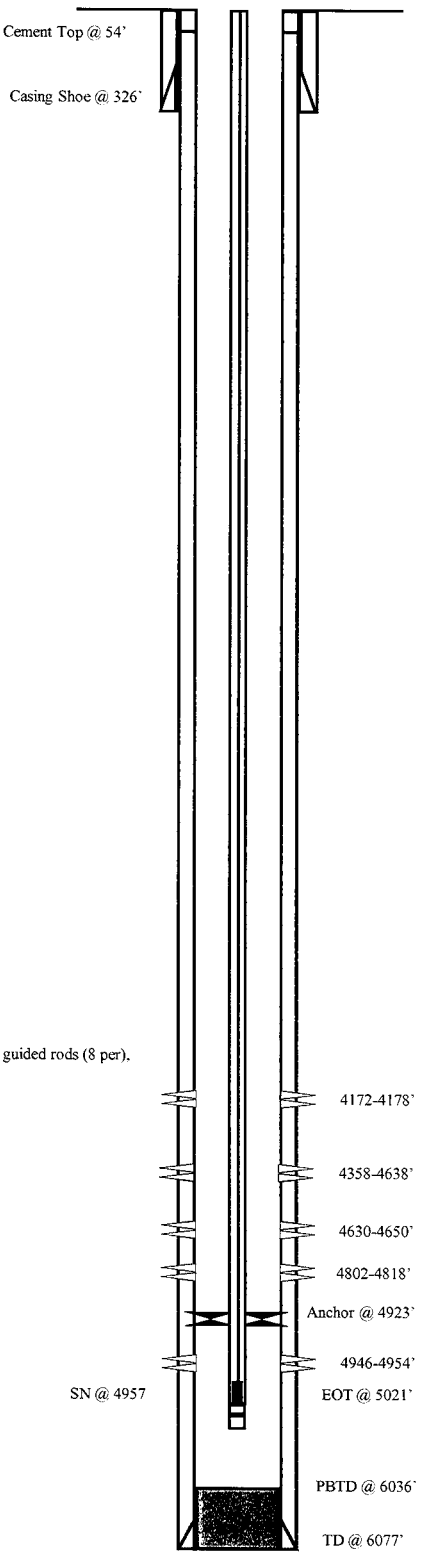
POLISHED ROD: 1 ½" x 26'

SUCKER RODS: 1-8,1-6',1-4', 2-2 x 7/8" ponys, 193-7/8" guided rods (8 per), 4-1 ½" wt bars, 21,000# shear coupling

PUMP SIZE: 2 ½" x 1 ¾" x 20' RHAC 'CDI'

STROKE LENGTH: 122"

PUMP SPEED, SPM: 5



FRAC JOB

11/17/08 4946-4954' Frac B2 sds as follows:
34,213# 20/40 sand in 375 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2150 psi @ ave rate of 23.2 BPM. ISIP 2275 psi. Actual flush: 4439 gals.

11/17/08 4802-4818' Frac C sds as follows:
55,806# 20/40 sand in 485 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2218 psi w/ ave rate of 18.7 BPM. ISIP 2534 psi. Actual flush: 4297 gals.

11/17/08 4630-4650' Frac D1 sds as follows:
51,261# 20/40 sand in 447 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2082 psi w/ ave rate of 18.7 BPM. ISIP 2237 psi. Actual flush: 4124 gals.

11/18/08 4358-4638' Frac PB10 sds as follows:
40,513# 20/40 sand in bbls of Lightning 17 fluid. Treated w/ ave pressure of 2099 psi @ ave rate of 23.2 BPM. ISIP 2322 psi. Actual flush: 3851 gals.

11/18/08 4172-4178' Frac GB6 sds as follows:
30,097# 20/40 sand in 359 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2167 psi w/ ave rate of 23.3 BPM. ISIP 2028 psi. Actual flush: 4116 gals.

PERFORATION RECORD

11/17/08	4946-4954'	32 holes
11/17/08	4802-4818'	64 holes
11/17/08	4630-4650'	80 holes
11/18/08	4358-4638'	40 holes
11/18/08	4172-4178'	24 holes

NEWFIELD

Jonah #S-12-9-16
880' FSL & 842' FEL
SESE Section 12-T9S-R16E
Duchesne Co, Utah
API #43-013-34010; Lease #UTU-035521

TW 04/06/09

ATTACHMENT E-12

Jonah Federal 15-12-9-16

Spud Date: 10-08-05
Put on Production: 11-11-05
GL: 5499' KB: 5511'

Injection Wellbore Diagram

Initial Production: BOPD, MCFD, BWPD

SURFACE CASING

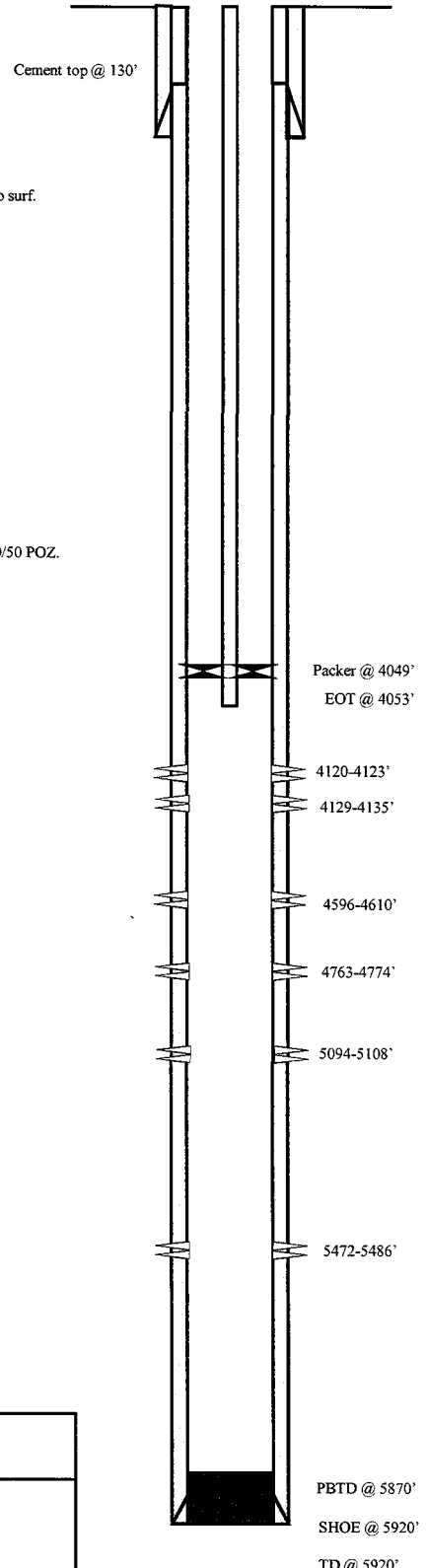
CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts (296.84')
DEPTH LANDED: 308.69' KB
HOLE SIZE:12-1/4"
CEMENT DATA: 160 sxs Class "G" cmt, est 6.5 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 136 jts. (5906.75')
DEPTH LANDED: 5920' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 350 sxs Prem. Lite II mixed & 475 sxs 50/50 POZ.
CEMENT TOP AT: 130'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 121 jts (4032.45')
SEATING NIPPLE: 2-7/8" (1.10')
SN LANDED AT: 4044.45' KB
TOTAL STRING LENGTH: EOT @ 4053.00' KB



FRAC JOB

11-07-05	5472-5486'	**Frac CP1, sands as follows:** 59446# 20/40 sand in 585 bbls Lightning 17 frac fluid. Treated @ avg press of 1739 psi w/avg rate of 24.9 BPM. ISIP 1970 psi. Calc flush: 5470 gal. Actual flush: 5048 gal.
11-07-05	5094-5108'	**Frac A3, sands as follows:** 80231# 20/40 sand in 602 bbls Lightning 17 frac fluid. Treated @ avg press of 1586 psi w/avg rate of 24.8 BPM. ISIP 1990 psi. Calc flush: 5092 gal. Actual flush: 4704 gal.
11-07-05	4763-4774'	**Frac C sands as follows:** 29525# 20/40 sand in 350 bbls Lightning 17 frac fluid. Treated @ avg press of 1861 psi w/avg rate of 24.7 BPM. ISIP 2080 psi. Calc flush: 4761 gal. Actual flush: 4473 gal.
11-08-05	4596-4610'	**Frac D1 sands as follows:** 80686# 20/40 sand in 590 bbls Lightning 17 frac fluid. Treated @ avg press of 1924 w/ avg rate of 25 BPM. ISIP 2220 psi. Calc flush: 4594 gal. Actual flush: 3990 gal.
11-08-05	4120-4135'	**Frac GB6 sands as follows:** 31631# 20/40 sand in 341 bbls Lightning 17 frac fluid. Treated @ avg press of 1738 w/ avg rate of 24.9 BPM. ISIP 2030 psi. Calc flush: 4118 gal. Actual flush: 4032 gal.
5/1/07		**Well converted to an Injection well. MIT completed and submitted.**

PERFORATION RECORD

11-02-05	5472-5486'	4 JSPF	56 holes
11-07-05	5094-5108'	4 JSPF	56 holes
11-07-05	4763-4774'	4 JSPF	44 holes
11-08-05	4596-4610'	4 JSPF	56 holes
11-08-05	4129-4135'	4 JSPF	24 holes
11-08-05	4120-4123'	4 JSPF	12 holes

NEWFIELD

Jonah Federal 15-12-9-16

427' FSL & 2355' FEL

SW/SE Section 12-T9S-R16E

Duchesne Co, Utah

API #43-013-32627; Lease #UTU-35521

CR 5/21/07

NEWFIELD

GMBU V-12-9-16

Monument Butte - Duchesne County, Utah, USA

Surface Location: NW/NE - Sec 13, T9S, R16E; 615' FNL & 1,804' FEL

5,477' GL + 10' KB

API#: 43-013-51155; Lease#: UTU-64805

Mickey Moulton

PFM 12/4/2012

Spud Date: 9/20/2012; PoP Date: 10/30/2012

CASING DETAIL

Casing	Top	Bottom	Size	Wt	Grade	Drift	Burst	Collapse	ID	gal/ft	Coupling	Hole
Surf	10'	308'	8-5/8"	24#	J-55	7.972"	2,950	1,370	8.097"	2.6749	STC	12.250
Prod	10'	6,155'	5-1/2"	15.5#	J-55	4.825"	4,810	4,040	4.950"	0.9997	LTC	7.875

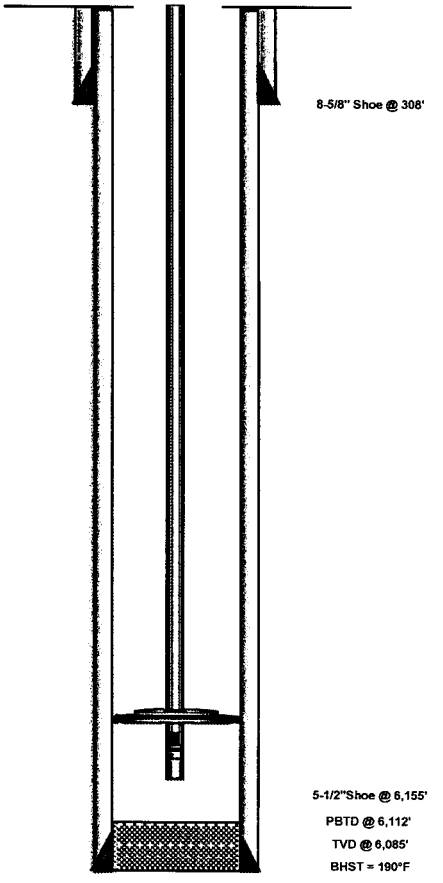
TBG. DETAIL

Top	Bottom	Coupling	Size	Wt.	Grade	Drift	Burst	Collapse	ID	Packer/Hanger
10'	5,790'	8EUE	2-7/8"	6.5#	J-55	2.347"	7,260	7,680	2.441"	Tubing Anchor Set @ 5,691'
										Seating Nipple @ 5,725'

ROD DETAIL

Component	Top	Bottom	Size	Grade	Length	Count	Pump
Polish Rod	0'	30'	1 1/2"	Spray Metal	30'	1	Insert Pump: 2.5 Max ID x 1.75 Plunger RHAC @ 5,721'. 4' Spray Metal 0.003, 224" max stroke, CPID Barrel.
Pony Rod	30'	46'	7/8"	Tenaris D78	16'	1	
4per Guided Rod	46'	1,971'	7/8"	Tenaris D78	1,925'	77	
4per Guided Rod	1,971'	5,021'	3/4"	Tenaris D78	3,050'	122	
8per Guided Rod	5,021'	5,721'	7/8"	Tenaris D78	700'	28	

Stage	Top	Bottom	SPF	Gun Size	Date	Frac Summary				
5	4,165'	4,167'	3	6'	10/18/2012	Formation:	PB-10	GB-6		Base Fluid 7% KCL
	4,375'	4,376'	3	3'	10/18/2012	20/40 White:	62,497 lbs		15% HCl:	0 gals
	4,380'	4,382'	3	6'	10/18/2012	Pad:	3,255 gals		Treating Fluid:	14,671 gals
	4,393'	4,394'	3	3'	10/18/2012	Flush:	3,822 gals		Load to Recover:	21,748 gals
	0'	0'	3	0'	-	ISIP=	0.862 psi/ft		Max STP:	3,447 psi
4	4,792'	4,794'	3	6'	10/18/2012	Formation:	C			Base Fluid 7% KCL
	4,804'	4,805'	3	3'	10/18/2012	20/40 White:	51,461 lbs		15% HCl:	252 gals
	4,812'	4,814'	3	6'	10/18/2012	Pad:	3,192 gals		Treating Fluid:	8,699 gals
	0'	0'	3	0'	-	Flush:	4,658 gals		Load to Recover:	19,187 gals
	0'	0'	3	0'	-	ISIP=	0.909 psi/ft		Max STP:	3,284 psi
3	4,876'	4,878'	3	6'	10/18/2012	Formation:	B2	B-Half		Base Fluid 7% KCL
	4,940'	4,944'	3	12'	10/18/2012	20/40 White:	59,815 lbs		15% HCl:	252 gals
	0'	0'	3	0'	-	Pad:	623 gals		Treating Fluid:	13,787 gals
	0'	0'	3	0'	-	Flush:	4,822 gals		Load to Recover:	23,096 gals
	0'	0'	3	0'	-	ISIP=	0.821 psi/ft		Max STP:	3,618 psi
2	5,096'	5,098'	3	6'	10/18/2012	Formation:	A1			Base Fluid 7% KCL
	5,106'	5,108'	3	6'	10/18/2012	20/40 White:	32,856 lbs		15% HCl:	252 gals
	5,112'	5,114'	3	6'	10/18/2012	Pad:	2,575 gals		Treating Fluid:	8,407 gals
	0'	0'	3	0'	-	Flush:	5,036 gals		Load to Recover:	16,270 gals
	0'	0'	3	0'	-	ISIP=	- psi/ft		Max STP:	2,566 psi
1	5,706'	5,710'	3	12'	10/17/2012	Formation:	CP4			Base Fluid 7% KCL
	0'	0'	3	0'	-	20/40 White:	25,117 lbs		15% HCl:	378 gals
	0'	0'	3	0'	-	Pad:	3,692 gals		Treating Fluid:	6,401 gals
	0'	0'	3	0'	-	Flush:	5,636 gals		Load to Recover:	16,107 gals
	0'	0'	3	0'	-	ISIP=	0.746 psi/ft		Max STP:	3,604 psi



CEMENT

Surf	On 9/21/12 Baker cemented 8 5/8" casing w/ 160 sks Class "G" + 2% KCl + 0.25#/sk Cello Flake at 15.8 ppg w/ 1.17 yield and returned 5 bbls to the pit.
Prod	On 10/4/12 Baker pumped 221 sks lead @ 11 ppg w/ 3.53 yield plus 443 sks tail @ 14.4 ppg w/ 1.24 yield. Returned 15 bbls to the pit. TOC @ Surface

NEWFIELD

GMBU C-13-9-16

Monument Butte - Duchesne County, Utah, USA

Surface Location: NE/NE- Sec 13, T9S, R16E; 614' FNL & 1,826' FEL

5,477' GL + 10' KB

API#: 43-013-51156; Lease#: UTU-64805

Mickey Moulton

PFM 12/4/2012

Spud Date: 9/21/2012; PoP Date: 10/30/2012

CASING DETAIL

Casing	Top	Bottom	Size	Wt	Grade	Drift	Burst	Collapse	ID	gal/ft	Coupling	Hole
Surf	10'	6,227'	8-5/8"	24#	J-55	7.972"	2,950	1,370	8.097"	2.6749	STC	12.250
Prod	10'	6,227'	5-1/2"	15.5#	J-55	4.825"	4,810	4,040	4.950"	0.9997	LTC	7.875

TBG. DETAIL

Top	Bottom	Coupling	Size	Wt.	Grade	Drift	Burst	Collapse	ID	Packer/Hanger
10'	5,664'	8EUE	2-7/8"	6.5#	J-55	2.347"	7,260	7,680	2.441"	Tubing Anchor Set @ 5,565'
										Seating Nipple @ 5,59

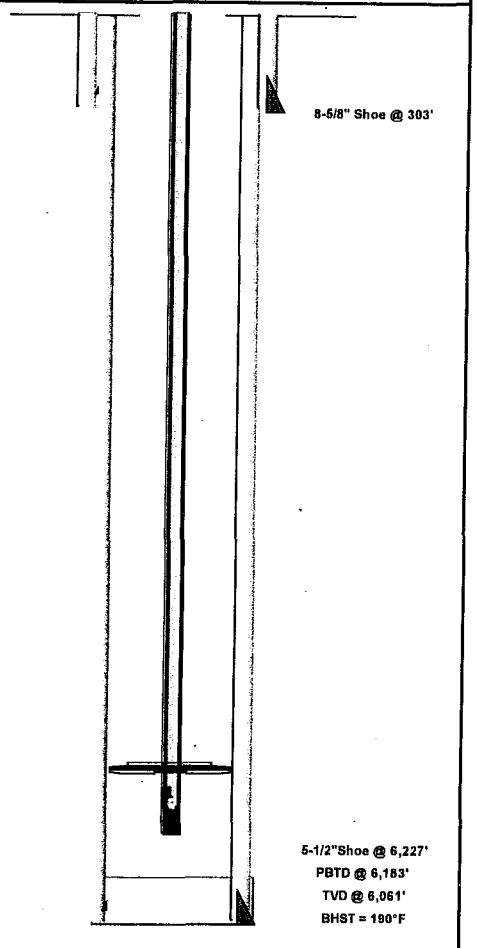
ROD DETAIL

Component	Top	Bottom	Size	Grade	Length	Count
Polish Rod	0'	30'	1 1/2"	Spray Metal	30'	1
Pony Rod	30'	32'	7/8"	Tenaris D78	2'	1
Pony Rod	32'	36'	7/8"	Tenaris D78	4'	1
Pony Rod	36'	42'	7/8"	Tenaris D78	6'	1
4per Guided Rod	42'	1,792'	7/8"	Tenaris D78	1,750'	70
4per Guided Rod	1,792'	4,892'	3/4"	Tenaris D78	3,100'	124
8per Guided Rod	4,892'	5,592'	7/8"	Tenaris D78	700'	28

Pump

Insert Pump: 2.5 Max ID x 1.75 Plunger RHAC @ 5,592'. 4' Spray Metal plunger 0.003.

Stage	Top	Bottom	SPF	Gun Size	Date	Frac Summary					
5	4,156'	4,159'	3	9'	10/18/2012	Formation:	GB-6	GB-4			
	4,205'	4,207'	3	6'	10/18/2012	20/40 White:	27,047	lbs	15% HCl:	0	gals
	0'	0'	3	0'	-	Pad:	2,965	gals	Treating Fluid:	6,665	gals
	0'	0'	3	0'	-	Flush:	4,561	gals	Load to Recover:	14,191	gals
	0'	0'	3	0'	-	ISIP=	0.882	psi/ft	Max STP:	3,099	psi
4	4,330'	4,332'	3	6'	10/18/2012	Formation:	PB-10	PB-8			
	4,400'	4,402'	3	6'	10/18/2012	20/40 White:	37,380	lbs	15% HCl:	252	gals
	4,414'	4,416'	3	6'	10/18/2012	Pad:	3,406	gals	Treating Fluid:	8,816	gals
	0'	0'	3	0'	-	Flush:	4,309	gals	Load to Recover:	16,783	gals
	0'	0'	3	0'	-	ISIP=	1.044	psi/ft	Max STP:	3,874	psi
3	4,584'	4,586'	3	6'	10/17/2012	Formation:	C-Sand	DS-1			
	4,859'	4,861'	3	6'	10/17/2012	20/40 White:	64,788	lbs	15% HCl:	252	gals
	4,869'	4,872'	3	9'	10/17/2012	Pad:	3,826	gals	Treating Fluid:	16,190	gals
	0'	0'	3	0'	-	Flush:	4,448	gals	Load to Recover:	24,716	gals
	0'	0'	3	0'	-	ISIP=	0.884	psi/ft	Max STP:	3,142	psi
2	5,017'	5,019'	3	6'	10/17/2012	Formation:	A-3	A-1	B-1		
	5,021'	5,022'	3	3'	10/17/2012	20/40 White:	53,183	lbs	15% HCl:	252	gals
	5,139'	5,140'	3	3'	10/17/2012	Pad:	3,284	gals	Treating Fluid:	13,019	gals
	5,147'	5,149'	3	6'	10/17/2012	Flush:	5,498	gals	Load to Recover:	22,053	gals
	5,180'	5,181'	3	3'	10/17/2012	ISIP=	-	psi/ft	Max STP:	2,966	psi
1	5,562'	5,564'	3	6'	10/16/2012	Formation:	CP-1	CP-Half			
	5,605'	5,609'	3	12'	10/16/2012	20/40 White:	27,492	lbs	15% HCl:	378	gals
	0'	0'	3	0'	-	Pad:	2,747	gals	Treating Fluid:	7,060	gals
	0'	0'	3	0'	-	Flush:	5,431	gals	Load to Recover:	15,616	gals
	0'	0'	3	0'	-	ISIP=	0.794	psi/ft	Max STP:	3,191	psi



CEMENT

Surf	On 9/21/12 Baker cemented 8 5/8" casing w/ 160 sks Class "G" + 2% KCl + 0.25#/sk Cello Flake at 15.8 ppg w/ 1.17 yield and returned 5 bbls to the pit.
Prod	On 9/29/12 Baker pumped 222 sks lead @ 11 ppg w/ 3.53 yield plus 448 sks tail @ 14.4 ppg w/ 1.24 yield. TOC @ 90'

ATTACHMENT F 1 of 4

Multi-Chem Group, LLC
Multi-Chem Analytical Laboratory
1553 East Highway 40
Vernal, UT 84078

multi-chem®

Water Analysis Report

Production Company: **NEWFIELD PRODUCTION (158)**
Well Name: **beluga IF**
Sample Point: **tank**
Sample Date: **1 /7 /2011**
Sales Rep: **Monty Frost**
Lab Tech: **Peter Poulsen**

Sample ID: **WA-53140**

Sample Specifics

Test Date:	1/24/2011
Temperature (°F):	100
Sample Pressure (psig):	
Specific Gravity (g/cm³):	1.0102
pH:	6.8
Turbidity (NTU):	-
Calculated T.D.S. (mg/L)	28628
Molar Conductivity (µS/cm):	43376
Resitivity (Mohm):	0.2305

Analysis @ Properties in Sample Specifics

Cations	mg/L	Anions	mg/L
Calcium (Ca):	64.73	Chloride (Cl):	16000.00
Magnesium (Mg):	39.81	Sulfate (SO_4):	421.00
Barium (Ba):	0.11	Dissolved CO_2:	-
Strontium (Sr):	-	Bicarbonate (HCO_3):	1293.00
Sodium (Na):	10804.00	Carbonate (CO_3):	-
Potassium (K):	-	H_2S:	5.50
Iron (Fe):	-	Phosphate (PO_4):	-
Manganese (Mn):	0.34	Silica (SiO_2):	-
Lithium (Li):	-	Fluoride (F):	-
Aluminum (Al):	-	Nitrate (NO_3):	-
Ammonia NH_3:	-	Lead (Pb):	-
		Zinc (Zn):	-
		Bromine (Br):	-
		Boron (B):	-

Scale Values @ Test Conditions - Potential Amount of Scale in lb/1000bbl

Test Conditions		Calcium Carbonate $CaCO_3$		Gypsum $CaSO_4 \cdot 2H_2O$		Calcium Sulfate $CaSO_4$		Strontium Sulfate $SrSO_4$		Barium Sulfate $BaSO_4$		Calculated CO_2
Temp °F	Gauge Press. psi	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	psi
100		*0.40*	*-2.38*	*0.01*	*-3058.50*	*0.01*	*-3233.80*	-	-	*0.47*	*-0.20*	*4.44*
80	0	0.29	-3.17	0.01	-5.64	0.01	-3429.00	-	-	0.72	-0.07	1.96
100	0	0.40	-2.38	0.01	-3.79	0.01	-3233.90	-	-	0.47	-0.20	2.46
120	0	0.52	-1.75	0.01	-2.49	0.01	-2933.50	-	-	0.31	-0.40	2.78
140	0	0.66	-1.19	0.01	-1.54	0.01	-2572.20	-	-	0.21	-0.69	3.14
160	0	0.79	-0.69	0.01	-0.83	0.01	-2188.50	-	-	0.14	-1.09	3.56
180	0	0.92	-0.24	0.01	-0.29	0.02	-1811.90	-	-	0.10	-1.64	3.94
200	0	1.05	0.15	0.01	0.12	0.02	-1462.30	-	-	0.07	-2.40	4.01
220	2.51	1.14	0.47	0.01	0.41	0.03	-1169.20	-	-	0.05	-3.52	4.07
240	10.3	1.23	0.76	0.01	0.62	0.04	-898.45	-	-	0.03	-4.97	4.15
260	20.76	1.29	0.97	0.01	0.74	0.07	-670.12	-	-	0.03	-6.91	4.24
280	34.54	1.32	1.11	0.01	0.78	0.10	-481.75	-	-	0.02	-9.50	4.34
300	52.34	1.33	1.16	0.01	0.75	0.16	-329.22	-	-	0.01	-12.95	4.44

Conclusions:

Calcium Carbonate scale is indicated. See graph for appropriate temperature ranges.
Gypsum Scaling Index is negative from 80°F to 300°F
Calcium Sulfate Scaling Index is negative from 80°F to 300°F
Strontium Sulfate scaling was not evaluated
Barium Sulfate Scaling Index is negative from 80°F to 300°F

Notes:

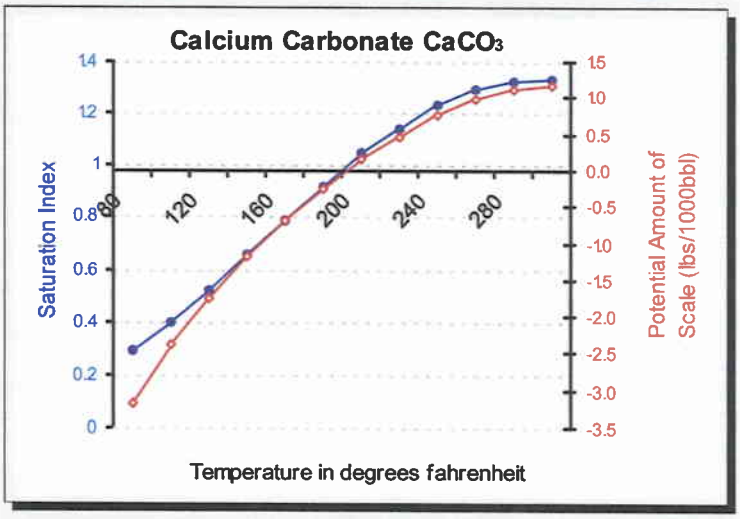
Multi-Chem Group, LLC
Multi-Chem Analytical Laboratory
1553 East Highway 40
Vernal, UT 84078

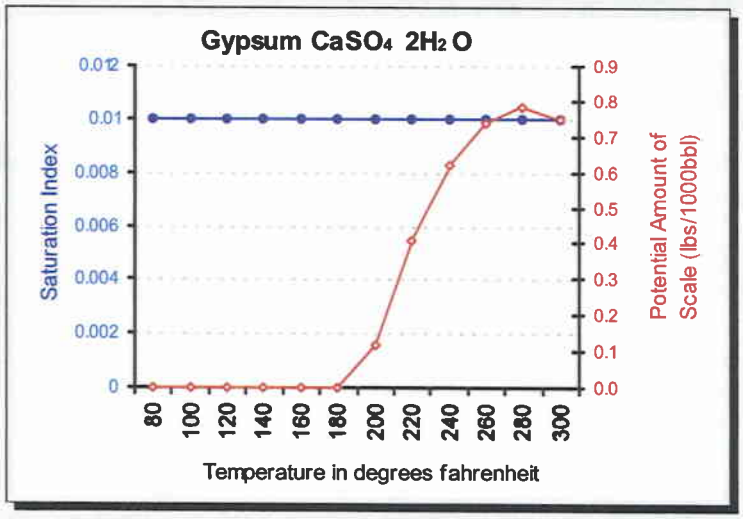
multi-chem®

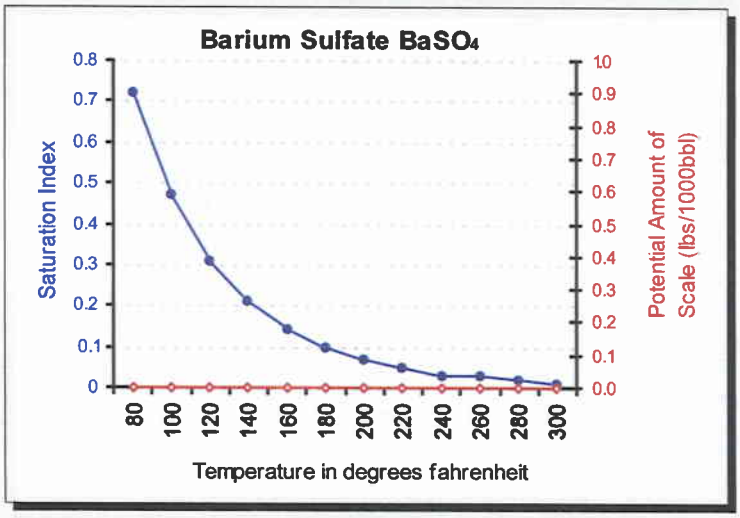
Scale Prediction Graphs

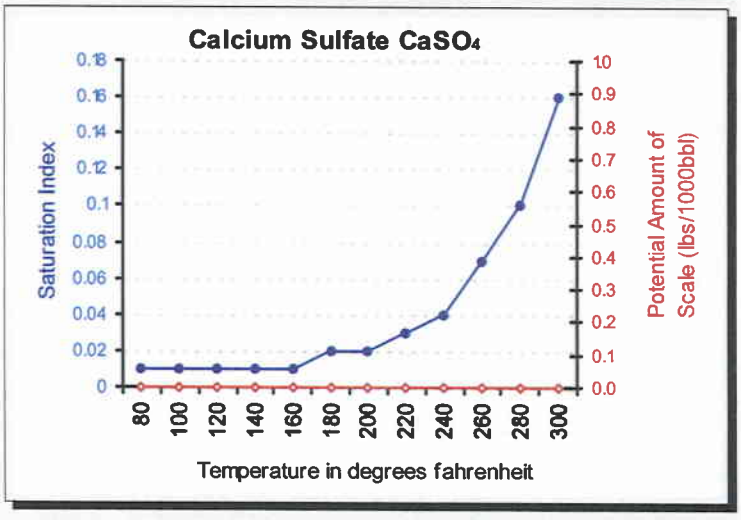
Well Name: **beluga IF**

Sample ID: **WA-53140**









Multi-Chem Analytical Laboratory
1553 East Highway 40
Vernal, UT 84078

ATTACHMENT F
3 of 4

multi-chem
A HALLIBURTON SERVICE

Water Analysis Report

Production Company:	**NEWFIELD PRODUCTION**	Sales Rep:	**Darren Betts**
Well Name:	**FEDERAL 21-13Y-9-16**	Lab Tech:	**Gary Peterson**
Sample Point:			
Sample Date:	**11/17/2011**		
Sample ID:	**WA-203434**		

Scaling potential predicted using ScaleSoftPitzer from Brine Chemistry Consortium (Rice University)

Sample Specifics	
Test Date:	11/17/2011
System Temperature 1 (°F):	300.00
System Pressure 1 (psig):	3000.00
System Temperature 2 (°F):	70.00
System Pressure 2 (psig):	14.70
Calculated Density (g/ml):	1.01
pH:	8.60
Calculated TDS (mg/L):	14814.28
CO2 in Gas (%):	0.00
Dissolved CO_2 (mg/L)):	0.00
H_2S in Gas (%):	0.00
H2S in Water (mg/L):	5.00

Analysis @ Properties in Sample Specifics			
Cations	***mg/L***	***Anions***	***mg/L***
Sodium (Na):	**5566.54**	Chloride (Cl):	**8000.00**
Potassium (K):	**15.20**	Sulfate (SO_4):	**18.00**
Magnesium (Mg):	**8.60**	Bicarbonate (HCO_3):	**1146.80**
Calcium (Ca):	**20.50**	Carbonate (CO_3):	**0.00**
Strontium (Sr):	**0.00**	Acetic Acid (CH_3COO)	**0.00**
Barium (Ba):	**38.30**	Propionic Acid (C_2H_5COO)	**0.00**
Iron (Fe):	**0.28**	Butanoic Acid (C_3H_7COO)	**0.00**
Zinc (Zn):	**0.00**	Isobutyric Acid ($(CH_3)_2CHCOO$)	**0.00**
Lead (Pb):	**0.00**	Fluoride (F):	**0.00**
Ammonia NH_3:	**0.00**	Bromine (Br):	**0.00**
Manganese (Mn):	**0.06**	Silica (SiO_2):	**0.00**

Notes:

(PTB = Pounds per Thousand Barrels)

		Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum $CaSO_4 \cdot 2H_2O$		Celestite $SrSO_4$		Halite NaCl		Zinc Sulfide	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
70	14	1.02	15.20	1.44	13.90	2.52	0.15	0.91	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	346	1.04	15.34	1.20	13.05	2.29	0.15	1.02	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
121	678	1.09	15.60	1.01	12.12	2.14	0.15	1.14	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146	1009	1.14	15.88	0.86	11.21	2.05	0.15	1.24	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172	1341	1.21	16.19	0.76	10.41	2.00	0.15	1.34	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
197	1673	1.28	16.48	0.68	9.78	1.99	0.15	1.42	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
223	2004	1.36	16.75	0.64	9.33	2.00	0.15	1.49	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
248	2336	1.44	16.97	0.61	9.08	2.03	0.15	1.53	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
274	2668	1.52	17.16	0.60	9.01	2.07	0.15	1.56	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300	3000	1.60	17.32	0.61	9.10	2.12	0.15	1.57	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

		Hemihydrate $CaSO_4 \cdot 0.5H_2O$		Anhydrate $CaSO_4$		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
70	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	346	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
121	678	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146	1009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172	1341	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
197	1673	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
223	2004	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
248	2336	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
274	2668	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300	3000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

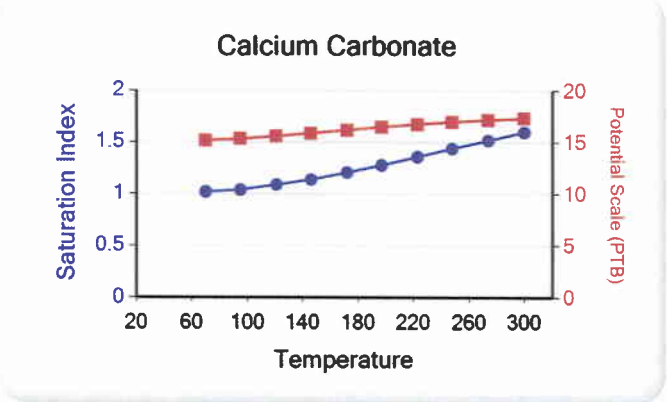
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate

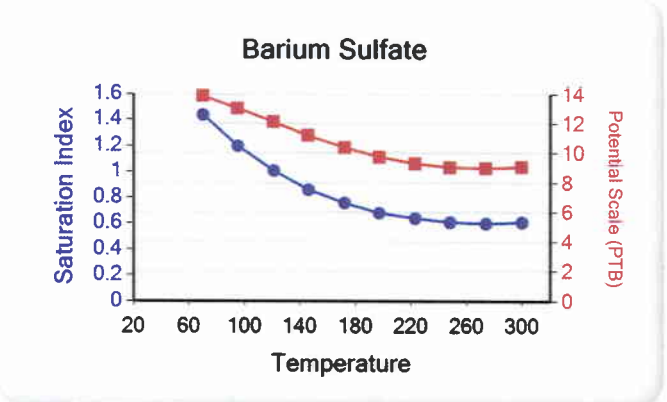
Multi-Chem Analytical Laboratory
1553 East Highway 40
Vernal, UT 84078

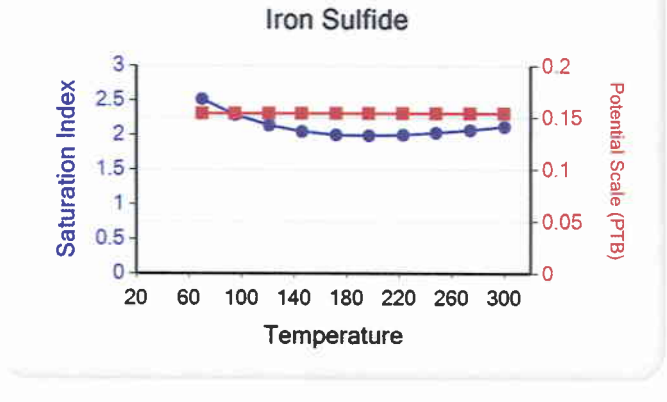
ATTACHMENT F 4of4

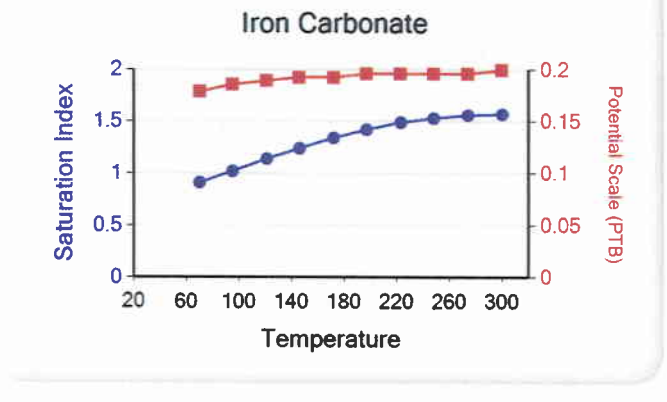
multi-chem® A HALLIBURTON SERVICE

These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate









Attachment "G"

Federal #21-13Y-9-16
Proposed Maximum Injection Pressure

Frac Interval (feet) Top	Bottom	Avg. Depth (feet)	ISIP (psi)	Calculated Frac Gradient (psi/ft)	Pmax	
4751	4765	4758	1850	0.82	1819	
4309	4325	4317	1800	0.85	1772	←
4103	4118	4111	2150	0.96	2123	
5036	5042	5039	1962	0.82	1929	
				Minimum	1772	

Calculation of Maximum Surface Injection Pressure
Pmax = (Frac Grad -(0.433*1.015)) x Depth of Top Perf
where pressure gradient for the fresh water is .433 psi/ft and
specific gravity of the injected water is 1.015.

Frac Gradient = (ISIP +(0.433*Top Perf.))/Top Perf.

Please note: These are existing perforations; additional perforations may be added during the actual conversion procedure.

ATTACHMENT G-1
1 of 9

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah

---TIGHT HOLE---

8-27-93 Cas "0" PSIG. RU Halliburton to do breakdown. Pressure test surface equipment to 4500 PSIG - OK. Pump 5 bbls water break @3400 PSI, break to 1500 @ 4 BPM. Pump 26 balls. No ball off at 4 BPM. Surge ball off perfs. Pump 18 bbls for rate, 6-1/4 BPM at 2500 PSIG. Made 5 swab runs. Swab back 22 bbls water, flow back 32 bbls water. ISIP 1550 PSIG, slight oil cut on swab. TOOH w/tbg & packer. SWIFN. Total load used - 125 bbls water; load recovered 54 bbls water; TOTAL LOAD TO RECOVER 71 bbls water.
DC: $2,464 CC: $218,854

8-28-93 Rig up Western to frac. Casing pressure "0" PSIG. Pressure test surface equipment to 5000 PSIG - OK. Frac well with 20,140 lbs of 20/40 & 15,380 lbs of 16/30 @ 20 BPM. Average treating pressure 1900 psi. Maximum treating pressure 2350 psi. ISIP 1850 psi, 5 minutes 1480 psi, 10 minutes 1450 psi, 15 minutes 1400 psi. SWIFN. Load used in frac 371 bbls water. Total load to recover 442 bbls water.
DC: $16,932 CC: $235,786

---SEE ATTACHED REPORT - 2 PAGES---

8-30-93 Casing PSIG "0", bleed well off. TIH w/5-1/2" packer & 2-7/8" tbg, tag fill @ 5,685'KB. POOH to 4,727'. Set packer. Made 18 swab runs. Flowed & swabbed 86 bbls fluid. Last three runs 30% oil, average oil % = 10. Last three runs - no sand. Release packer, tag fill @ 5,555'KB. Circulate down to PBTD. TOOH w/50 jts 2-7/8" tbg. SDFN.
DC: $2,531 CC: $238,317

8-31-93 Cas "0" PSIG, tbg "0" PSIG. TOOH w/tbg & packer. RU Schlumberger to perf @ 4,309'-4,325', 2 SPM. RD Schlumberger. TIH w/5-1/2" retrievable bridge plug, right head, 1 jt 2-7/8" tbg, one 5-1/2" R-3 packer, seating nipple & 141 jts 2-7/8" tbg. Set bridge plug at 4,396'KB, pressure test bridge plug 1000 PSIG - OK 5 minutes. POOH w/7 jts 2-7/8" tbg, set packer @ 4,165'KB, bottom of tubing @ 4,196'KB. Pressure test surface equipment 4000 PSIG - OK. RU Western to break down perfs. Initial break @ 2500 PSIG, start 1 ball per bbl. Start break down, 37 bbls water, 6 balls total, no ball off. 3 & 4 BPM. Pump for rate 1350 PSIG at 6.0 BPM. Flow back 10 bbls water, made 4 swab runs, got trace of oil. Unseat packer. TOOH w/tbg & packer. Swabbed 30 bbls water. SWIFN.
DC: $5,039 CC: $243,356

BALCRON OIL
DAILY OPERATING REPORT

BALCRON FEDERAL #21-13Y
Location: NE SW Section 13, T9S, R16E
Duchesne County, Utah **---TIGHT HOLE---**

9-1-93 RU Western & prepare to frac. Pressure test surface equipment to 4500 PSIG - OK. Frac well with 33,600# 16/30 sand. Max. treating pressure 2200 psi; average treating pressure 2050 psi; average rate 24.5 BPM. ISIP 1800 psi, 5 minutes 1550 psi, 10 minutes 1460 psi, 15 minutes 1360 psi. SWIFD. Load used 377 bbls water; total load to recover 820.
DC: $18,437 CC: $261,793

9-2-93 Casing 100 PSIG. Flowed 5 bbls water. TIH w/1 bridge plug retrieving tool, 1 jt 2-7/8" tbg, one 5-1/2" packer & 125 jts 2-7/8" tbg. Tag fill @ 3,921' KB. RU to circulate sand out to 4,355'. Set packer @ 4,288'. Made 23 swab runs, swab fluid level down to 3,700'. Last 3 runs 30% oil. Still getting sand. SWIFN. Load recovered 65 bbls water. Total load to be recovered 755 bbls water.
DC: $2,235 CC: $264,028

9-3-93 Completion
Csg - 9 psig, tbg - 230 psig. Flow back 1 BO. Made 8 swab runs. Recovered 42 BOF - 50% oil. Release packer, tag sand fill @ 4340', circ clean to 4396'. Release BP, TOOh w/tbg, BP & packer. TIH w/production string: 1 jt 2-7/8" tbg, EUE, J-55, 8RD, 6.5# set 4802' KB; 1 perf sub 2-7/8" x 3'; 1 seat nipple; 154 jts tbg 2-7/8" EUE, J-55, 8rd, 6/5#. Landed @ 4771' KB. Load recovered today 21 BOW. Total load to recover 734 BOW.
DC: $4,648 CC: $268,676

9-6-93 Completion.
TIH w/rods. TP - 0 psig; CP - Vac.

9-7-93 Completion
CP - 0 psig, TP - 0 psig. Flush tbg w/hot wtr. TIH w/1 BHP 2-1/2 x 1-1/2 x 16' ring plunger; one 3/4 x 2' pony; six 1" x 25' rods w/2-1/2" guides EL; 184 3/4" x 25' rods plain; one 3/4" x 6' pony; one 1/14" x 16' polish rod; spool out 4" off. Rig down & move off. Load to recover 734 BW.
DC: $23,103

9-16-93 Completion
Start pumping, SPM 9, stroke length - 64".
DC: $975

NEWFIELD

ATTACHMENT G-1
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DAILY WORKOVER REPORT

WELL NAME: Balcron Federal 21-13y-9-16 **Report Date:** Nov. 16, 2005 **Day:** 1

Operation: Re-completion **Rig:** NC #3

WELL STATUS

Surf Csg: 8 5/8 @ 275' Prod Csg: 5 1/2" @ 5941' WT: 15.5# Csg PBTD: 5888'

Tbg: Size: 2 7/8 Wt: 6.5# Grd: J-55 Pkr/EOT @: 4808' BP/Sand PBTD:

PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
	4309-4325'	2/32			
	4751-4765'	2/28			

CHRONOLOGICAL OPERATIONS

Date Work Performed: Nov. 15, 2005 **SITP:** 0 **SICP:** 0

MIRU NC #3. RU HO trk & pump 75 BW dn casing @ 250 F. RD pumping unit & unseat rod pump. Flush tbg & rods W/ 65 BW @ 250 F. Reseat pump, soft joint rod string & strip off flow-T. Fill tbg W/ 3 BW. Pressure test tbg to 3000 psi. Retrieve rod string & unseat pump. TOH W/ rod string. LD btm 100 3/4" plain rods and rod pump. Well circulated back most of the pumped wtr. Lost est 30 BW to well. SIFN W/ 30 BWTR.

FLUID RECOVERY (BBLS)

Starting fluid load to be recovered:	0	Starting oil rec to date:	
Fluid lost/recovered today:	30	Oil lost/recovered today:	
Ending fluid to be recovered:	30	Cum oil recovered:	

IFL: FFL: FTP: Choke: Final Fluid Rate: Final oil cut:

TUBING DETAIL		ROD DETAIL		COSTS	
	AS PULLED:	AS PULLED:			
KB	10.00'	1 1/4" X 16' polished rod		NC #3 rig	$3,167
153	2 7/8 J-55 tbg	2-6' & 2-4' X 3/4" pony rods		Weatherford BOP	$140
	TA @ 4742'	176-3/4" plain rods		NDSI trucking	$1,200
1	2 7/8 J-55 tbg	10-3/4" scrapered rods		NDSI wtr & truck	$600
	SN @ 4775'	4-1 1/2" weight rods		D & M HO trk	$765
1	2 7/8 J-55 tbg	2 1/2" X 1 1/2" X RHAC pump		Unichem chemicals	$300
	2 7/8 NC			NPC trucking	$300
EOT	4808'			CDI TA repair	$400
				CDI pump repair	$1,000
				NPC supervision	$300
				DAILY COST:	$8,172
				TOTAL WELL COST:	$8,172

Workover Supervisor: Gary Dietz

NEWFIELD

ATTACHMENT G-1 4 of 9

DAILY WORKOVER REPORT

WELL NAME: Balcron Federal 21-13y-9-16 **Report Date:** Nov. 17, 2005 **Day:** 2

Operation: Re-completion **Rig:** NC #3

WELL STATUS

Surf Csg: 8 5/8 @ 275' Prod Csg: 5 1/2" @ 5941' WT: 15.5# Csg PBTD: 5888'

Tbg: Size: 2 7/8 Wt: 6.5# Grd: J-55 Pkr/EOT @: BP/Sand PBTD: 4250'

PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
	4103-4118'	4/60			
	4309-4325'	2/32			
	4751-4765'	2/28			

CHRONOLOGICAL OPERATIONS

Date Work Performed: Nov. 16, 2005 **SITP:** 0 **SICP:** 0

Open well w/ 0 psi. Circulate 60 bbls wtr down tbg. RU sand line & tag sand @ 5888'. RD sand line. NU Weatherford BOP. TOOH w/ tbg. RU Bit & scrp. TIH to 4814' w/ tbg (still oil in casing). TOOH w/ tbg. Fill hole w/ 50 bbls & test casing & plug to 1500 psi. RU Perforators LLC. RIH w/ Weatherford retrievable plug. Set plug HE RBP @ 4250'. RIH & perforate GB6 sds @ 4103-4118' w/ 4" Port Guns (19 gram, .46"HE, 120) w/ 4 spf for total of 60 shots. RD WLT. SIFN. 50 bbls water loss today.

&

FLUID RECOVERY (BBLS)

Starting fluid load to be recovered:	30	Starting oil rec to date:	
Fluid lost/recovered today:	50	Oil lost/recovered today:	
Ending fluid to be recovered:	80	Cum oil recovered:	

IFL: FFL: FTP: Choke: Final Fluid Rate: Final oil cut:

TUBING DETAIL		ROD DETAIL	COSTS	
	AS PULLED:	AS PULLED:	NC #3 rig	$3,935
KB	10.00'	1 1/4" X 16' polished rod	Weatherford BOP	
153	2 7/8 J-55 tbg	2-6' & 2-4' X 3/4" pony rods	Perforator LLC GB6sd	$3,390
	TA @ 4742'	176-3/4" plain rods	Weatherford Services	$1,800
1	2 7/8 J-55 tbg	10-3/4" scrapered rods	D & M HO trk	$298
	SN @ 4775'	4-1 1/2" weight rods	NPC Supervisor	$300
1	2 7/8 J-55 tbg	2 1/2" X 1 1/2" X RHAC pump		
	2 7/8 NC			
EOT	4808'			
			DAILY COST:	$9,723
			TOTAL WELL COST:	$17,895

Workover Supervisor: Ron Shuck

NEWFIELD

ATTACHMENT G-1
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DAILY WORKOVER REPORT

WELL NAME: Balcron Federal 21-13y-9-16 **Report Date:** Nov. 18, 2005 **Day:** 3

Operation: Re-completion **Rig:** NC #3

WELL STATUS

Surf Csg: 8 5/8 @ 275' **Prod Csg:** 5 1/2" @ 5941' **WT:** 15.5# **Csg PBTD:** 5888'

Tbg: **Size:** 2 7/8 **Wt:** 6.5# **Grd:** J-55 **Pkr/EOT @:** **BP/Sand PBTD:** 4250'

PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
GB6 sds	4103-4118'	4/60			
	4309-4325'	2/32			
	4751-4765'	2/28			

CHRONOLOGICAL OPERATIONS

Date Work Performed: Nov. 17, 2005 **SITP:** 0 **SICP:** 0

RU BJ Services frac flang. BJ broke down gel unit (3 hours). Open well w/ 0 psi on casing. Frac GB6 sds down casing w/ 55,211#'s of 20/40 sand in 439 bbls of Lightning 17 frac fluid. Perfs broke down @ 3926 psi, back to 1245 psi. Treated @ ave pressure of 1870 w/ ave rate of 25.2 bpm w/ 8 ppg of sand. ISIP was 2150. 439 bbls EWTR. RD BJ. Flow well back. Well flowed for 2 hours & died w/ 190 bbls rec'd. SIFN.

&

FLUID RECOVERY (BBLS)

Starting fluid load to be recovered: 519 **Starting oil rec to date:**

Fluid lost/recovered today: 190 **Oil lost/recovered today:**

Ending fluid to be recovered: 329 **Cum oil recovered:**

IFL: **FFL:** **FTP:** **Choke:** **Final Fluid Rate:** **Final oil cut:**

STIMULATION DETAIL

Base Fluid used: Lightning 17 **Job Type:** Sand frac

Company: BJ Services

Procedure or Equipment detail: GB6 sds down casing.

4410 gals of pad

2944 gals w/ 1-5 ppg of 20/40 sand

5872 gals w/ 5-8 ppg of 20/40 sand

1180 gals w/ 8 ppg of 20/40 sand

Flush w/ 4032 gals of slick water

Max TP: 2090 **Max Rate:** 25.4 **Total fluid pmpd:** 439 bbls

Avg TP: 1870 **Avg Rate:** 25.2 **Total Prop pmpd:** 55,211#'s

ISIP: 2150 **5 min:** **10 min:** **FG:** .96

Completion Supervisor: Ron Shuck

COSTS

NC #3 rig	$3,616
Weatherford BOPx2	$260
BJ Servics GB6 sds	$22,064
Weatherford Services	$1,800
Betts frac water	$1,200
NPC fuel gas	$300
NPC Supervisor	$300
Betts water transfer	$300
RNI wtr disposal	$500
DAILY COST:	$30,340
TOTAL WELL COST:	$48,235

NEWFIELD

ATTACHMENT G-1
6 of 9

DAILY WORKOVER REPORT

WELL NAME: Balcron Federal 21-13y-9-16 **Report Date:** Nov. 19, 2005 **Day:** 4

Operation: Re-completion **Rig:** NC #3

WELL STATUS

Surf Csg:	8 5/8	@	275'	Prod Csg:	5 1/2"	@	5941'	WT:	15.5#	Csg PBTD:	5888'
Tbg:	Size:	2 7/8	Wt:	6.5#	Grd:	J-55	Pkr/EOT @:	4120'		BP/Sand PBTD:	4250'
										BP/Sand PBTD:	4183'

PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
GB6 sds	4103-4118'	4/60			
	4309-4325'	2/32			
	4751-4765'	2/28			

CHRONOLOGICAL OPERATIONS

Date Work Performed: Nov. 18, 2005 **SITP:** _____ **SICP:** 100

Thaw wellhead & BOP W/ HO trk. Bleed pressure off well. Rec est 15 BTF. ND isolation tool. TIH W/ RH, balltest sub & tbg. Tag fill @ 4183'. Tbg displaced 10 BW on TIH. Circ hole W/ clean wtr. Pull EOT to 4120'. RU swab equipment. IFL @ sfc. Can't get sinker bars in hole due to wax coating on tbg ID. Rev circ hole W/ rig pump--no change. RU HO trk & flush tbg W/ 60 BW @ 250 F (well circulated). Resume swabbing. Made 7 swb runs rec 81 BTF W/ light gas, tr oil & no sand. FFL @ 1000'. SIFN W/ est 223 BWTR.

FLUID RECOVERY (BBLS)

Starting fluid load to be recovered:	329	Starting oil rec to date:	
Fluid lost/recovered today:	106	Oil lost/recovered today:	
Ending fluid to be recovered:	223	Cum oil recovered:	

IFL: sfc FFL: 1000' FTP: _____ Choke: _____ Final Fluid Rate: _____ Final oil cut: tr

STIMULATION DETAIL

Base Fluid used: _____ **Job Type:** _____

Company: _____

Procedure or Equipment detail:

_____

_____

_____

_____

_____

Max TP: _____ **Max Rate:** _____ **Total fluid pmpd:** _____

Avg TP: _____ **Avg Rate:** _____ **Total Prop pmpd:** _____

ISIP: _____ **5 min:** _____ **10 min:** _____ **FG:** _____

Completion Supervisor: Gary Dietz

COSTS

NC #3 rig	$3,887
Weatherford BOP	$140
NDSI HO trk	$500
NPC supervision	$300
DAILY COST:	$4,827
TOTAL WELL COST:	$53,062

NEWFIELD

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DAILY WORKOVER REPORT

WELL NAME: Balcron Federal 21-13y-9-16 **Report Date:** Nov. 22, 2005 **Day:** 5

Operation: Re-completion **Rig:** NC #3

WELL STATUS

Surf Csg:	8 5/8	@	275'	Prod Csg:	5 1/2"	@	5941'	WT:	15.5#	Csg PBTD:	5888'
Tbg:	Size:	2 7/8	Wt:	6.5#	Grd:	J-55	Pkr/EOT @:	4800'		BP/Sand PBTD:	5888'

PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
GB6 sds	4103-4118'	4/60			
	4309-4325'	2/32			
	4751-4765'	2/28			

CHRONOLOGICAL OPERATIONS

Date Work Performed: Nov. 21, 2005 **SITP:** 100 **SICP:** 100

Thaw wellhead, BOP & tbg stump W/ HO trk. Bleed gas off well. TIH W/ tbg. Tag sd @ 4183' (no new fill). C/O sd to RBP @ 4250'. Circ hole clean W/ no fluid loss--rec tr oil. Attempt to latch onto plug W/ spuds & rotation--cannot get J'd on. TOH W/ tbg and inspect RH. Found iron (?) wedged inside. PU new RH & TIH W/ tbg. Latch onto and release "HE" RBP @ 4250'. TOH W/ tbg--LD plug. TIH W/ BHA & production tbg to 4800'. SIFN W/ est 223 BWTR.

FLUID RECOVERY (BBLS)

Starting fluid load to be recovered:	223	Starting oil rec to date:	
Fluid lost/recovered today:	0	Oil lost/recovered today:	
Ending fluid to be recovered:	223	Cum oil recovered:	

IFL: FFL: FTP: Choke: Final Fluid Rate: Final oil cut:

TUBING DETAIL	ROD DETAIL	COSTS	
		NC #3 rig	$4,207
		Weatherford BOP	$140
		NDSI HO trk	$250
		CDI SN	$80
		NPC trucking	$300
		Mt. West sanitation	$300
		Weatherford serv/tools	$975
		NPC supervision	$300
		DAILY COST:	$6,552
		TOTAL WELL COST:	$59,614

Workover Supervisor: Gary Dietz

NEWFIELD

ATTACHMENT G-1
8 of 9

DAILY WORKOVER REPORT

WELL NAME: Balcron Federal 21-13y-9-16 **Report Date:** Nov. 23, 2005 **Day:** 6

Operation: Re-completion **Rig:** NC #3

WELL STATUS

Surf Csg:	8 5/8	@	275'	Prod Csg:	5 1/2"	@	5941'	WT:	15.5#	Csg PBTD:	5888'
Tbg:	Size:	2 7/8	Wt:	6.5#	Grd:	J-55	Anchor @:	4748'		BP/Sand PBTD:	5888'

PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
GB6 sds	4103-4118'	4/60			
	4309-4325'	2/32			
	4751-4765'	2/28			

CHRONOLOGICAL OPERATIONS

Date Work Performed: Nov. 22, 2005 **SITP:** 0 **SICP:** 0

ND BOP. Set TA @ 4748' W/ SN @ 4782' & EOT @ 4817'. Land tbg W/ 15,000# tension. NU wellhead. PU & TIH W/ pump and revised rod string as follows: repaired CDI 2 1/2" X 1 1/2" X 16' RHAC pump, 6-1 1/2" weight rods (top 2 "A" grade), 10-3/4" scrapered rods, 74-3/4" plain rods, 100-3/4" scrapered rods ("A" grade), 2-4' & 2-6' X 3/4" pony rods and 1 1/4" X 16' polished rod (added "A" grade rod rotator). Seat pump & RU pumping unit. Fill tbg W/ 15 BW. Pressure test tbg & pump to 200 psi. Stroke pump up W/ unit to 800 psi. Good pump action. RDMOSU. Est 238 BWTR.
Place well on production @ 11:30 AM 11/22/2005 W/ 56" SL @ 4 SPM.
FINAL REPORT!!

FLUID RECOVERY (BBLS)

Starting fluid load to be recovered:	223	Starting oil rec to date:	
Fluid lost/recovered today:	15	Oil lost/recovered today:	
Ending fluid to be recovered:	238	Cum oil recovered:	

IFL: **FFL:** **FTP:** **Choke:** **Final Fluid Rate:** **Final oil cut:**

TUBING DETAIL		ROD DETAIL		COSTS	
				NC #3 rig	$1,875
KB	10.00'	1 1/4" X 16' polished rod		Weatherford BOP	$140
153	2 7/8 J-55 tbg (4738.20')	- X 3/4" pony rods		D & M HO trk	$650
	TA (2.80' @ 4748.20' KB)	-3/4" scrapered rods		"A" scrap / wt rods	$6,512
1	2 7/8 J-55 tbg (31.47')	-3/4" plain rods		RNI wtr disposal	$1,200
	SN (1.10' @ 4782.47')	10-3/4" scrapered rods		NPC frac tks(2X6 dys)	$480
1	2 7/8 J-55 tbg (32.60')	6-1 1/2" weight rods		NPC swb tk (6 dys)	$240
	2 7/8 NC (.45')	CDI 2 1/2" X 1 1/2" X -'		"A" rod rotator	$500
EOT	4816.62' W/ 10' KB	RHAC pump W/ SM plunger		NPC supervision	$300
				DAILY COST:	$11,897

Workover Supervisor: Gary Dietz **TOTAL WELL COST:** $71,511

ATTACHMENT G-1

9 of 9

Daily Activity Report

Format For Sundry

FEDERAL 21-13Y-9-16

7/1/2008 To 11/30/2008

8/30/2008 Day: 1 **Recompletion**

Western #2 on 8/29/2008 - MIRU Western #2. Pump 70 bbls 250° water down csg. RD pumping unit. Unseat pump w/ 10,000# over string. Flush rods w/ 30 bbls 250° water. Softseat pump. Attempt to fill & test tbg. w/ no success. POOH w/ rods, stopping once to flush rods w/ 30 bbls 250° water. LD pump. X-over for tbg. ND wellhead. Release TAC. NU BOP. RIH w/ tbg. to 5426' (did not tag fill). POOH w/ tbg., stopping once to flush tbg. w/ 25 bbls 250° water. RU wireline truck. Perforate A1 sds @ 5036-42' w/ 3 1/8" slick guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 24 shots. RD wireline truck. SWIFN.

9/3/2008 Day: 2 **Recompletion**

Western #2 on 9/2/2008 - Talley, PU & RIH w/ 5 1/2" plug, Pkr & 154- jts of 2 7/8" N-80 tbg. Set plug @ 5090'. Set pkr @ 4990'. Break down A1 sds. Broke @ 2500 psi. Release pkr. SWIFN.

9/4/2008 Day: 3 **Recompletion**

Western #2 on 9/3/2008 - Stage 1, Tbg frac A3 sds. 2 psi on well. RU BJ services to tbg. Fill & hold pressure on annulus during frac. 2 psi on tbg. Fill tbg w/ 15 BW. Frac A1 sds w/ 16,591#'s of 20/40 sand in 238 bbls of Lightning 17 fluid. Broke @ 3689 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 3442 psi @ ave rate of 13.1BPM. ISIP 1962 psi. Begin immediate flowback on 20/64 choke @ 3 BPM. Flowed back for 1 Hr 10 mins, 130 BTF & died. Pressure up on annulus. Release pkr. Circulate clean down to plug @ 5090' (20' of fill). Release plug. LD 2 7/8" N-80 workstring. PU & RIH w/ production tbg, Pressure testing to 3000 psi. Final test good. RU sandline & fish SV. RU swab equipment. SWIFN w/ 319 BWTR..

9/5/2008 Day: 4 **Recompletion**

Western #2 on 9/4/2008 - 0 psi on well. RIH w/ swab. IFL @ 1200'. Made 10 runs, Rec 54 BTF, FFL @ 3200'. No oil, No sand. RD swab equipment. TIH w/ 5 jts of tbg. EOT @ 5418'. Circulate well clean. LD 8 jts of tbg. ND BOP. Set TA @ 5059' w/ 16,000#'s of tension, SN @ 5124', EOT @ 5187'. NU WH. Flush tbg w/ 60 BW. PU & prime up rod pump. RIH w/ rods as follows: 2 1/2" X 1 1/2" X 20' RHAC (179" Max SL), 6- 1 1/2" wt bars, 99- 3/4" guided rods, 98- 7/8" guided rods (A grade), 1-8', 1-6', 1-4', 1-2' X 7/8" pony rods (A grade), 1 1/2" X 26' Polish rod (A grade). Hang head, Space out rods. Fill tbg w/ 5 bbls of wtr. Pressure test to 800 psi w/ unit. RDMOSU. POP @ 3:30 PM w/ 56" SL @ 4 SPM. 325 BWTR. FINAL REPORT!!

Pertinent Files: Go to File List

ATTACHMENT H

WORK PROCEDURE FOR PLUGGING AND ABANDONMENT

1.		Set CIBP @ 4003'
2.	Plug #1	Set 100' plug on top of CIBP using 12 sx Class "G" cement
3.	Plug #2	187' balance plug using 21 sx Class "G" cement 50' above Trona-Bird's Nest extending 50' below base of Mahogany Oil Shale
4.	Plug #3	120' balance plug using 14sx Class "G" cement 60' above Uinta/Green River and extending 60' below
5.		Perforate 4 JSPF @ 309'
6.	Plug #4	Circulate 102 sx Class "G" cement down 5 ½" and up the 5 ½" x 8 5/8" annulus

The approximate cost to plug and abandon this well is $42,000.

ATTACHMENT

Federal #21-13Y-9-16

Spud Date: 8/13/1993
Put on Production: 9/16/1993
GL: 5535' KB: 5545'

Initial Production: 84 BOPD, 126 MCFD, 7 BWPD

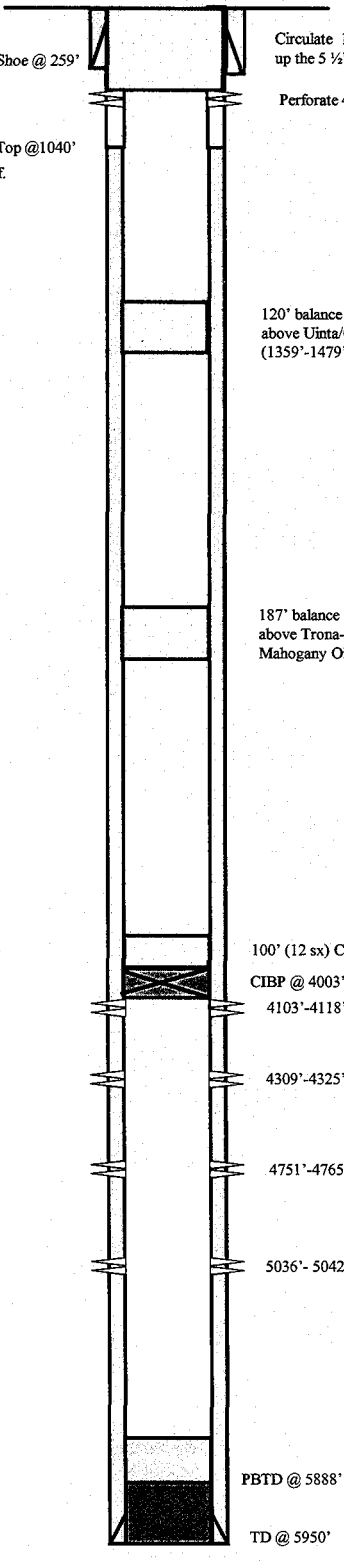
Proposed Injection Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 6 jts. (275')
HOLE SIZE:12-1/4"
CEMENT DATA: 150 sxs Premium Plus cement, est 6 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: K-55
WEIGHT: 15.5#
LENGTH: 139 jts. (5945.72')
DEPTH LANDED: 5940.72'
HOLE SIZE: 7-7/8"
CEMENT DATA: 145 sxs Hilift cement & 325 sxs Class "G".
CEMENT TOP AT: 1040' per CBL



NEWFIELD

Federal #21-13Y-9-16
702' FNL & 1830' FWL
NENW Section 13-T9S-R16E
Duchesne Co, Utah
API #43-013-31400; Lease #UTU-64805

JL 11/7/2011

FORM 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31,2010

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on page 2

5. Lease Serial No.
UTU-64805

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or
GMBU

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
FEDERAL 21-13Y

2. Name of Operator
NEWFIELD PRODUCTION COMPANY

9. API Well No.
4301331400

3a. Address Route 3 Box 3630
Myton, UT 84052

3b. Phone *(include are code)*
435.646.3721

10. Field and Pool, or Exploratory Area
GREATER MB UNIT

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
703 FNL 1830 FWL

NENW Section 13 T9S R16E

11. County or Parish, State
DUCHESNE, UT

12. CHECK APPROPRIATE BOX(ES) TO INIDICATE NATURE OF NOTICE, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other _____
	☐ Change Plans	☐ Plug & Abandon	☐ Temporarily Abandon	
	☒ Convert to Injector	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Newfield Production proposes to convert the above mentioned well from producing oil well to an injection well.

I hereby certify that the foregoing is true and correct *(Printed/ Typed)*
Jill Loyle

Title
Regulatory Technician

Signature

Date
12/12/2011

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

4770 S. 5600 W.
P.O. BOX 704005
WEST VALLEY CITY, UTAH 84170
FED.TAX I.D.# 87-0217663

The Salt Lake Tribune MEDIAONE Deseret News

PROOF OF PUBLICATION

CUSTOMER'S COPY

CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	DATE
DIV OF OIL-GAS & MINING, 1594 W NORTH TEMP #1210 P.O. BOX 145801 SALT LAKE CITY, UT 84114	9001402352	1/17/2012

ACCOUNT NAME	
DIV OF OIL-GAS & MINING,	
TELEPHONE	ADORDER# / INVOICE NUMB
8015385340	0000758932 /
SCHEDULE	
Start 01/16/2012	End 01/16/2012
CUST. REF. NO.	
UIC-383	
CAPTION	
BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL R	
SIZE	
69 Lines	2.00 COLUMN
TIMES	RATE
4	
MISC. CHARGES	AD CHARGES
	TOTAL COST
	236.84

BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH
NOTICE OF AGENCY ACTION
CAUSE NO. UIC-383

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 14, 15, AND 22, TOWNSHIP 9 SOUTH, RANGE 15 EAST, AND SECTION 13, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Newfield Production Company for administrative approval of the following wells located in Duchesne County, Utah, for conversion to Class II injection wells:

Greater Monument Butte Unit:
Ashley Federal 10-14-9-15 well located in NW/4 SE/4, Section 14, Township 9 South, Range 15 East
API 43-013-32401
Ashley Federal 14-14-9-15 well located in SE/4 SW/4, Section 14, Township 9 South, Range 15 East
API 43-013-32670
Ashley Federal 16-15-9-15 well located in SE/4 SE/4, Section 15, Township 9 South, Range 15 East
API 43-013-32642
Ashley Federal 4-22-9-15 well located in NW/4 NW/4, Section 22, Township 9 South, Range 15 East
API 43-013-32428
Ashley Federal 10-22-9-15 well located in NW/4 SE/4, Section 22, Township 9 South, Range 15 East
API 43-013-32825
Ashley Federal 12-22-9-15 well located in NW/4 SW/4, Section 22, Township 9 South, Range 15 East
API 43-013-32859
Ashley Federal 14-22-9-15 well located in SE/4 SW/4, Section 22, Township 9 South, Range 15 East
API 43-013-32823
Federal 21-13Y well located in NE/4 NW/4, Section 13, Township 9 South, Range 16 East
API 43-013-31400

The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selected zones in the Green River Formation will be used for water injection. The maximum requested injection pressures and rates will be determined based on fracture gradient information submitted by Newfield Production Company.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Brad Hill, Permitting Manager, at P.O. Box 145801, Salt Lake City, UT 84114-5801, phone number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 10th day of January, 2012.
STATE OF UTAH
DIVISION OF OIL, GAS & MINING

UPAXLP

AFFIDAVIT OF PUBLICATION

AS NEWSPAPER AGENCY COMPANY, LLC dba MEDIAONE OF UTAH LEGAL BOOKER, I CERTIFY THAT THE ATTACHED ADVERTISEMENT OF **BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH NOTICE OF AGENCY ACTION CAUSE NO. UIC-383 IN THE MATTER OF THE APPLICA** FOR **DIV OF OIL-GAS & MINING,** WAS PUBLISHED BY THE NEWSPAPER AGENCY COMPANY, LLC dba MEDIAONE OF UTAH, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET NEWS, DAILY NEWSPAPERS PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN UTAH, AND PUBLISHED IN SALT LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH NOTICE IS ALSO POSTED ON UTAHLEGALS.COM ON THE SAME DAY AS THE FIRST NEWSPAPER PUBLICATION DATE AND REMAINS ON UTAHLEGALS COM INDEFINATELY

PUBLISHED ON Start 01/16/2012 End 01/16/2012

SIGNATURE

VIRGINIA CRAFT
Notary Public State of Utah
Commission # 581469
My Commission Expires
January 12, 2014

1/17/2012

THIS IS NOT A STATEMENT BUT A "PROOF OF PUBLICATION"
PLEASE PAY FROM BILLING STATEMENT

AFFIDAVIT OF PUBLICATION

County of Duchesne,
STATE OF UTAH

I, Kevin Ashby on oath, say that I am the PUBLISHER of the Uintah Basin Standard, a weekly newspaper of general circulation, published at Roosevelt, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue such newspaper for 1 consecutive issues, and that the first publication was on the 17 day of January, 20 12, and that the last publication of such notice was in the issue of such newspaper dated the 17 day of January, 20 12, and that said notice was published on Utahlegals.com on the same day as the first newspaper publication and the notice remained on Utahlegals.com until the end of the scheduled run.

Kevin Ashby
Publisher

Subscribed and sworn to before me this
17 day of January, 20 12

Bonnie Parrish
Notary Public

BONNIE PARRISH
NOTARY PUBLIC-STATE OF UTAH
471 N HILLCREST DR 415-5
ROOSEVELT, UTAH 84066
COMM. EXP. 3-31-2012

NOTICE OF AGENCY ACTION CAUSE NO. UIC-383

BEFORE THE DIVISION OF OIL, GAS AND MINING, DEPARTMENT OF NATURAL RESOURCES, STATE OF UTAH.

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 14, 15, AND 22, TOWNSHIP 9 SOUTH, RANGE 15 EAST, AND SECTION 13, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

THE STATE OF UTAH

TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

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Federal 21-13Y well located in NE/4 NW/4, Section 13, Township 9 South, Range 16 East

API 43-013-31400

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Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Brad Hill, Permitting Manager, at P.O. Box 145801, Salt Lake City, UT 84114-5801, phone number (801) 538-5340.

If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 10th day of January, 2012.

STATE OF UTAH
DIVISION OF OIL, GAS & MINING
/s/
Brad Hill
Permitting Manager

Published in the Uintah Basin Standard January 17, 2012.

Misc Wanted

Buying all raw fur! All stages of put up, routs monthly. Contact Ryan Custin 307-630-7144.

BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH
NOTICE OF AGENCY ACTION
CAUSE NO. UIC-383

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 14, 15, AND 22, TOWNSHIP 9 SOUTH, RANGE 15 EAST, AND SECTION 13, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

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Ashley Federal 16-15-9-15 well located in SE/4 SE/4, Section 15, Township 9 South, Range 15 East
API 43-013-32642
Ashley Federal 4-22-9-15 well located in NW/4 NW/4, Section 22, Township 9 South, Range 15 East
API 43-013-32428
Ashley Federal 10-22-9-15 well located in NW/4 SE/4, Section 22, Township 9 South, Range 15 East
API 43-013-32825
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API 43-013-32859
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notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 10th day of January, 2012.

STATE OF UTAH
DIVISION OF OIL, GAS & MINING

Brad Hill
Permitting Manager

Newfield Production Company

ASHLEY FEDERAL 10-14-9-15, ASHLEY FEDERAL 14-14-9-15, ASHLEY FEDERAL 16-15-9-15, ASHLEY FEDERAL 4-22-9-15, ASHLEY FEDERAL 10-22-9-15, ASHLEY FEDERAL 12-22-9-15, ASHLEY FEDERAL 14-22-9-15, FEDERAL 21-13Y

Cause No. UIC-383

Publication Notices were sent to the following:

Newfield Production Company
1001 17th Street, Suite 2000
Denver, CO 80202

Uintah Basin Standard
268 South 200 East
Roosevelt, UT 84066
via e-mail legals@ubstandard.com

Salt Lake Tribune
P O Box 45838
Salt Lake City, UT 84145
via e-mail naclegal@mediaoneutah.com

Vernal Office
Bureau of Land Management
170 South 500 East
Vernal, UT 84078

Duchesne County Planning
P O Box 317
Duchesne, UT 84021-0317

Bruce Suchomel
US EPA Region 8
MS 8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129

Newfield Production Company
Rt 3 Box 3630
Myton, UT 84052

Ute Tribe
P O Box 190
Ft Duchesne, UT 84026

Jean Sweet

Jean Sweet - Re: Notice of Agency Action – Newfield Production Company Cause No. UIC-383

From: Cindy Kleinfelter <classifieds@ubstandard.com>
To: Jean Sweet <jsweet@utah.gov>
Date: 1/12/2012 1:05 PM
Subject: Re: Notice of Agency Action – Newfield Production Company Cause No. UIC-383

On 1/12/2012 11:35 AM, Jean Sweet wrote:

> To Whom It May Concern:
>
> Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: jsweet@utah.gov.
>
> Please send proof of publication and billing to:
>
> Division of Oil, Gas and Mining
> PO Box 145801
> Salt Lake City, UT 84114-5801
>
> Sincerely,
>
> Jean Sweet, Executive Secretary
> Utah Div. of Oil, Gas & Mining
> 1594 West Temple, Suite 1210
> Salt Lake City, UT
> 801-538-5329
> jsweet@utah.gov

Hello. It will publish Jan. 17.
Thanks
Cindy

GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

January 12, 2012

Via e-mail: legals@ubstandard.com

Uintah Basin Standard
268 South 200 East
Roosevelt, UT 84066

Subject: Notice of Agency Action – Newfield Production Company Cause No. UIC-383

To Whom It May Concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: jsweet@utah.gov.

Please send proof of publication and billing to:

Division of Oil, Gas and Mining
PO Box 145801
Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet
Executive Secretary

Enclosure

From: "Fultz, Mark" <naclegal@mediaoneutah.com>
To: <jsweet@utah.gov>
Date: 1/12/2012 1:30 PM
Subject: UIC-383
Attachments: OrderConf.pdf

AD# 758932
Run Trib/DNews - 1/16
Cost $236.84
Thank you
Mark

The Salt Lake Tribune WWW.SLTRIB.COM | MEDIAONE OF UTAH A NEWSPAPER AGENCY COMPANY WWW.MEDIAONEUTAH.COM | Deseret News WWW.DESERETNEWS.COM

Remit to: P.O. Box 704005
West Valley City, UT 84170

Order Confirmation for Ad #0000758932-01

Client	DIV OF OIL-GAS & MINING	**Payor Customer**	DIV OF OIL-GAS & MINING
Client Phone	801-538-5340	**Payor Phone**	801-538-5340
Account#	9001402352	**Payor Account**	9001402352
Address	1594 W NORTH TEMP #1210,P.O. BOX 145801 SALT LAKE CITY, UT 84114 USA	**Payor Address**	1594 W NORTH TEMP #1210,P.O. BO) SALT LAKE CITY, UT 84114
Fax	801-359-3940	**Ordered By**	**Acct. Exec**
EMail	earlenerussell@utah.gov	Jean	mfultz

Total Amount	**$236.84**			
Payment Amt	**$0.00**			
Amount Due	**$236.84**	**Tear Sheets** 0	**Proofs** 0	**Affidavits** 1

Payment Method

PO Number UIC-383

Confirmation Notes:

Text: Jean

Ad Type	**Ad Size**	**Color**
Legal Liner	2.0 X 69 Li	<NONE>

Product Salt Lake Tribune::	**Placement** Legal Liner Notice - 0998	**Position** Public Meeting/Hear-ing Notices
Scheduled Date(s):	01/16/2012	
Product Deseret News::	**Placement** Legal Liner Notice - 0998	**Position** Public Meeting/Hear-ing Notices
Scheduled Date(s):	01/16/2012	
Product sltrib.com::	**Placement** Legal Liner Notice - 0998	**Position** Public Meeting/Hear-ing Notices
Scheduled Date(s):	01/16/2012	
Product utahlegals.com::	**Placement** utahlegals.com	**Position** utahlegals.com
Scheduled Date(s):	01/16/2012	

Ad Content Proof Actual Size

BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH
NOTICE OF AGENCY ACTION
CAUSE NO. UIC-383

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 14, 15, AND 22, TOWNSHIP 9 SOUTH, RANGE 15 EAST, AND SECTION 13, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Newfield Production Company for administrative approval of the following wells located in Duchesne County, Utah, for conversion to Class II injection wells:

Greater Monument Butte Unit:
Ashley Federal 10-14-9-15 well located in NW/4 SE/4, Section 14, Township 9 South, Range 15 East
API 43-013-32401
Ashley Federal 14-14-9-15 well located in SE/4 SW/4, Section 14, Township 9 South, Range 15 East
API 43-013-32670
Ashley Federal 16-15-9-15 well located in SE/4 SE/4, Section 15, Township 9 South, Range 15 East
API 43-013-32642
Ashley Federal 4-22-9-15 well located in NW/4 NW/4, Section 22, Township 9 South, Range 15 East
API 43-013-32428
Ashley Federal 10-22-9-15 well located in NW/4 SE/4, Section 22, Township 9 South, Range 15 East
API 43-013-32825
Ashley Federal 12-22-9-15 well located in NW/4 SW/4, Section 22, Township 9 South, Range 15 East
API 43-013-32859
Ashley Federal 14-22-9-15 well located in SE/4 SW/4, Section 22, Township 9 South, Range 15 East
API 43-013-32823
Federal 21-13Y well located in NE/4 NW/4, Section 13, Township 9 South, Range 16 East
API 43-013-31400

The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selected zones in the Green River Formation will be used for water injection. The maximum requested injection pressures and rates will be determined based on fracture gradient information submitted by Newfield Production Company.

Any person desiring to object to the application or otherwise intervene in the proceeding must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Brad Hill, Permitting Manager, at P.O. Box 145801, Salt Lake City, UT 84114-5801, phone number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 10th day of January, 2012.
STATE OF UTAH
DIVISION OF OIL, GAS & MINING
/s/ Brad Hill
Permitting Manager
758932 UPAXLP

GARY R. HERBERT
Governor
GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

January 12, 2012

VIA E-MAIL naclegal@mediaoneutah.com

Salt Lake Tribune
P. O. Box 45838
Salt Lake City, UT 84145

Subject: Notice of Agency Action – Newfield Production Company Cause No. UIC-383

To Whom It May Concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: jsweet@utah.gov.

Please send proof of publication and billing for **account #9001402352** to:

Division of Oil, Gas and Mining
PO Box 145801
Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet
Executive Secretary

Enclosure

GARY R. HERBERT
Governor
GREGORY S. BELL
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

February 7, 2012

Newfield Production Company
1001 Seventeenth Street, Suite 2000
Denver, CO 80202

Subject: Greater Monument Butte Unit Well: Federal 21-13Y, Section 13, Township 9 South, Range 16 East, SLBM, Duchesne County, Utah, API Well # 43-013-31400

Gentlemen:

Pursuant to Utah Admin. Code R649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced well to a Class II injection well. Accordingly, the following stipulations shall apply for full compliance with this approval:

1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.

2. Conformance with all conditions and requirements of the complete application submitted by Newfield Production Company.

3. A casing\tubing pressure test shall be conducted prior to commencing injection.

4. Pressure shall be monitored between the surface casing and the production casing on a regular basis. Any pressure changes observed shall be reported to the Division immediately.

5. The top of the injection interval shall be limited to a depth no higher than 4,665 feet in the Federal 21-13Y well.

A final approval to commence injection will be issued upon satisfactory completion of the listed stipulations. If you have any questions regarding this approval or the necessary requirements, please contact Mark Reinbold at 801-538-5333 or Brad Hill at 801-538-5315.

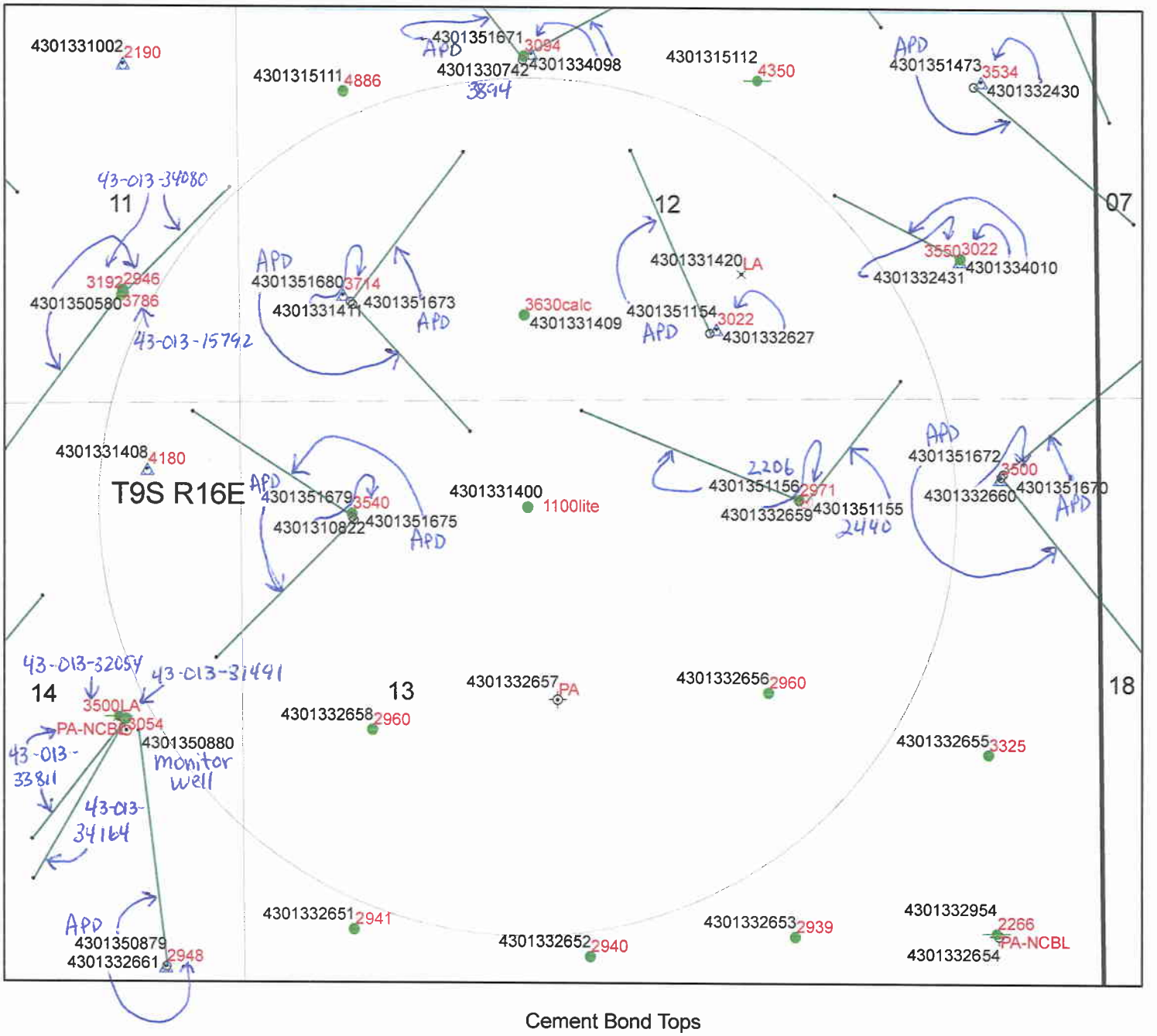
Sincerely,

John Rogers
Associate Director

JR/MLR/js
cc: Bruce Suchomel, Environmental Protection Agency
Bureau of Land Management, Vernal
Duchesne County
Newfield Production Company, Myton
Well File
N:\O&G Reviewed Docs\ChronFile\UIC\Newfield

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • *www.ogm.utah.gov*

UTAH DNR OIL, GAS & MINING



Cement Bond Tops
FEDERAL 21-13Y-9-16
API #43-013-31400
UIC 383.1

Legend

- Buffer_of_SGID93_ENERGY_DNROilGasWells_181
- SGID93 ENERGY.DNROilGasWells

SGID93.ENERGY.DNROilGasWells

GIS_STAT_TYPE

- APD
- DRL
- GIW
- GSW
- LA
- LOC
- OPS
- PA
- PGW
- POW
- RET
- SGW
- SOW
- TA
- TW
- WDW
- WIW
- WSW
- SGID93 BOUNDARIES Counties
- SGID93 ENERGY.DNROilGasWells_HDBottom
- SGID93 ENERGY.DNROilGasWells_HDPath
- Wells-CbltopsMaster10_24_12

0 0.05 0.1 0.2 0.3 0.4 Miles

N

1870calc = approx cement top calculated from well completion report

DIVISION OF OIL, GAS AND MINING
UNDERGROUND INJECTION CONTROL PROGRAM
PERMIT
STATEMENT OF BASIS

Applicant: Newfield Production Company **Well:** Federal 21-13Y-9-16

Location: 13/9S/16E **API:** 43-013-31400

Ownership Issues: The proposed well is located on BLM land. The well is located in the Greater Monument Butte Unit. Lands in the one-half mile radius of the well are administered by the BLM. The Federal Government is the mineral owner within the area of review (AOR). Newfield and other various individuals hold the leases in the unit. Newfield has provided a list of all surface, mineral and lease holders in the half-mile radius. Newfield is the operator of the Greater Monument Butte Unit. Newfield has submitted an affidavit stating that all owners and interest owners have been notified of their intent.

Well Integrity: The proposed well has surface casing set at 259 feet and has a cement top at the surface. A 5½ inch production casing is set at 5,941 feet. A cement bond log demonstrates adequate bond in this well up to about 4,565 feet. A 2 7/8 inch tubing with a packer is proposed at 4,053 feet, but will need to be adjusted downward. A mechanical integrity test will be run on the well prior to injection. There are 6 producing wells, 3 injection wells, and 1 P/A well (abandoned 9/19/2012) in the AOR. Most of the existing wells have evidence of adequate casing and cement for the proposed injection interval. However, there are two wells in the AOR which appear to have questionable cement tops for the proposed injection interval. These include the active injection well, the Monument Federal 41-14J well (API# 43-013-31408) and the proposed injection well, the Federal 21-13Y-9-16. The more limiting is the proposed injection well itself. Its CBL (8/26/1993) appears to indicate a cement top at about 4,565 feet. This was the basis for limiting the injection top to a depth no higher than 4,665 feet, as specified in the conversion permit issued 2/7/2012 (see revision in next paragraph). Inasmuch as some logs are of dubious quality or do not exhibit conclusive cement tops, it has been necessary to calculate approximate tops for "lite" cement, based on the cement indicated in the well completion report.

Revision (12/21/2012): Newfield ran a new CBL (8/30/2012) in the Federal 21-13Y (43-013-31400) well, indicating a top of light cement up to about 1,100 feet. The issue was subsequently reviewed by Mark Reinbold and Brad Hill of DOGM. It was concluded that the top of the injection interval in the Federal 7-13 well can be raised to 3,822 feet, as originally requested, with the stipulation that Newfield regularly monitor the pressure between the surface casing and production casing in the Federal 21-13Y (43-013-31400) well. A similar monitoring will be required in the Monument Federal 41-14J (43-013-31408). An amended conversion permit for the Federal 7-13 well, including this stipulation, will be issued.

Ground Water Protection: As interpreted from the Utah Geological Survey's DOE Project-Uinta Basin Water Draft Map (Paul B. Anderson, December 2, 2011), the base of moderately saline water (3000-10,000 mg/l TDS) is at a depth of approximately 1700 feet. The requested injection interval is between 3,882 feet and 5,888 feet in the Green River Formation. However, as described in the **Well Integrity** section above, the top of good cement bond (as indicated by the original CBL) is at about 4,565 feet in the proposed injection well, the Monument Federal 21-13Y-9-16 well. For this reason, it was recommended in the conversion permit that the top of the injection interval be permitted no higher than a depth of 4,665 feet in the proposed injection well. Based on the newer CBL, the requested injection top of 3,882 feet will be permitted, with the monitoring of pressures as described above. Information submitted by Newfield indicates that the fracture gradient for the 21-13Y-9-16 well is 0.85 psi/ft., which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 1,772 psig. The requested maximum pressure is 1,772 psig. The anticipated average injection pressure is 1100 psig. Injection at this pressure should not initiate any new fractures or propagate existing fractures in the adjacent confining intervals. Any ground water present should be adequately protected.

Oil/Gas& Other Mineral Resources Protection: The Board of Oil, Gas & Mining approved the Greater Monument Butte Unit on December 1, 2009. Correlative rights issues were addressed at this time. Previous reviews in this area indicate that other mineral resources in the area have been protected or are not at issue.

Bonding: Bonded with the BLM

Actions Taken and Further Approvals Needed: A notice of agency action has been sent to the Salt Lake Tribune and the Uinta Basin Standard. A casing/tubing pressure test will be required prior to injection. It is recommended that approval of this application be granted.

Note: Applicable technical publications concerning water resources in the general vicinity of this project have been reviewed and taken into consideration during the permit review process.

Reviewer(s): Mark Reinbold Date: 1/20/2012 (rev. 12/21/2012)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-64805

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: FEDERAL 21-13Y

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

9. API NUMBER: 43013314000000

3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052

PHONE NUMBER: 435 646-4825 Ext

9. FIELD and POOL or WILDCAT: MONUMENT BUTTE

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0703 FNL 1830 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 13 Township: 09.0S Range: 16.0E Meridian: S

COUNTY: DUCHESNE

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
✓ SUBSEQUENT REPORT Date of Work Completion: 4/11/2012	✓ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	✓ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The subject well has been converted from a producing oil well to an injection well on 04/09/2012. On 4/10/2012 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 04/11/2012 the casing was pressured up to 1250 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not a State representative available to witness the test.

Accepted by the Utah Division of Oil, Gas and Mining

Date: May 03, 2012

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Lucy Chavez-Naupoto	435 646-4874	Water Services Technician
SIGNATURE N/A		**DATE** 4/12/2012

Mechanical Integrity Test
Casing or Annulus Pressure Test

Newfield Production Company
Rt. 3 Box 3630
Myton, UT 84052
435-646-3721

Witness: _____ **Date** 4 / 11 / 12 **Time** 9 (am) pm
Test Conducted by: Jared Robinson
Others Present: _____

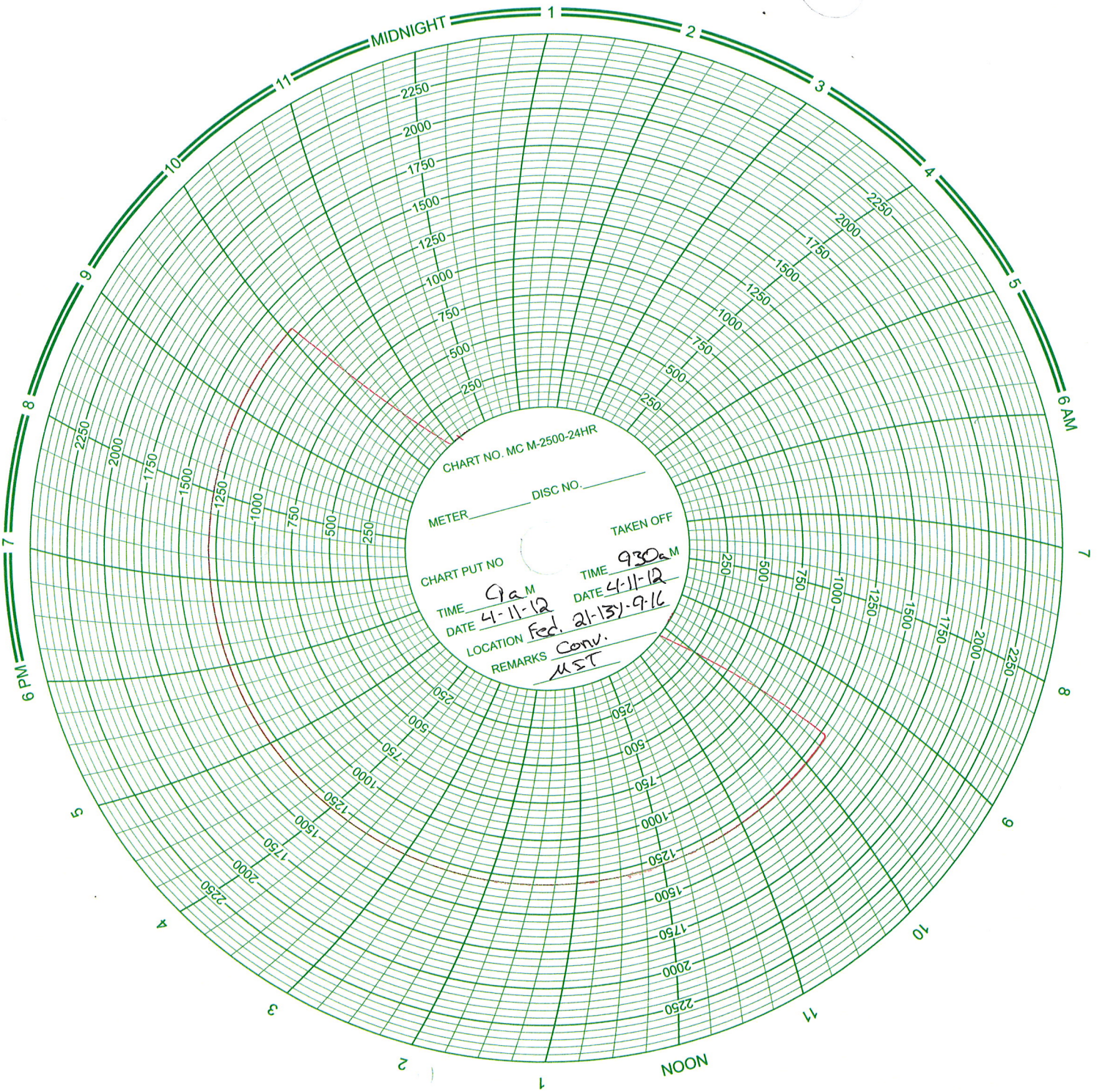
Well: Federal 21-13Y-9-16 **Field:** Monument Butte
Well Location: NE/NW Sec. 13, T9S R16E **API No:** 4301-13-31400
Duchesne, Ut

Time	Casing Pressure	
0 min	1250	psig
5	1250	psig
10	1250	psig
15	1250	psig
20	1250	psig
25	1250	psig
30 min	1250	psig
35		psig
40		psig
45		psig
50		psig
55		psig
60 min		psig

Tubing pressure: 0 psig

Result: (Pass) Fail

Signature of Witness: _____
Signature of Person Conducting Test: Jared Rob


MIDNIGHT
NOON
6 AM
6 PM
CHART NO. MC M-2500-24HR
METER
DISC NO.
CHART PUT ON
TIME 9 a M
DATE 4-11-12
LOCATION Fed. 21-13Y-9-16
REMARKS Conv.
MST
TAKEN OFF
TIME 930a M
DATE 4-11-12

Daily Activity Report

Format For Sundry

FEDERAL 21-13Y-9-16

2/1/2012 To 6/30/2012

4/4/2012 Day: 1 **Conversion**

NC #1 on 4/4/2012 - MIRU NC#1,U/S pmp,Flush Tbg,Seat pmp,Fill Tbg,Blow HIT @3,000 Psi,U/S pmp,POOH L/D Rod Prod & pmp.N/U BOP, Rel T/A, POOH W/45 Jts Tbg,Redoping Tool Jts, C/SDFN. - 9:30AM MIRU NC#1, BMW H/Oiler pmp 60 BW D/Csg, R/D Unit, Unseat pmp, Flush Tbg W/-40 BW, Seat pmp, Fill Tbg W/-18 BW, P/Test Tbg, Blow Hole In Tbg @ 3,000 Psi. Unseat pmp, POOH & L/D Rod Production String W/pmp. N/D W/-HD, N/U BOP, R/U R/Flr, Rel T/A, POOH W/-45 Jts Tbg, Breaking & Redoping Tool Jts, SWI, 6:30PM C/SDFN, 6:30PM-7:00PM C/Trvl. - 9:30AM MIRU NC#1, BMW H/Oiler pmp 60 BW D/Csg, R/D Unit, Unseat pmp, Flush Tbg W/-40 BW, Seat pmp, Fill Tbg W/-18 BW, P/Test Tbg, Blow Hole In Tbg @ 3,000 Psi. Unseat pmp, POOH & L/D Rod Production String W/pmp. N/D W/-HD, N/U BOP, R/U R/Flr, Rel T/A, POOH W/-45 Jts Tbg, Breaking & Redoping Tool Jts, SWI, 6:30PM C/SDFN, 6:30PM-7:00PM C/Trvl. **Finalized**
Daily Cost: $0
Cumulative Cost: $6,717

4/5/2012 Day: 2 **Conversion**

NC #1 on 4/5/2012 - OWU,POOH W/-108 Jts Tbg Breaking & Redoping Tool Jts,L/D Excess Tbg & BHA,R/U W/L Run Guage Ring To 4802',Set Arrow Pack Pkr @ 4720',R/D W/L.RIH W/Tbg Prod BHA,pmp 15 BW Pad D/Tbg,Drop SV, Fill Tbg, P/Tst I/Hle To 3,000 Psi,Tbg Psi Never Stablzed,SWI,C/SD - 5:30AM-6:00AM C/Trvl. 6:00AM OWU, POOH W/-108 Jts Tbg In Derrick Breaking & Redoping Tool Jts W/-Liq O-Ring. L/D 10 Jts Tbg, T/A, 1 Jts Tbg, S/N, 2 Jts Tbg, N/C. BMW H/Oiler Flush Tbg W/-25 BW On TOOH. R/U Perforators W/Line To Run Guage Ring To 4802', H/Oiler pmp 10 BW D/Csg Due To Oil. RIH Set 5 1/2'' Arrow Pak Pkr @ 4720', R/D W/Line, P/U & RIH W/-Seal Nipple,2 3/8X2 7/8 XO, 2 3/8 S/N, 2 7/8X2 3/8 XO, 22 Jts 2 7/8 Tbg Bttm 2 New, 5 1/2'' Arrow #1 Pkr, On Off Tool, 129 Jts Tbg, 2 7/8X4.12 Tbg Sub, 1 Jt Tbg, pmp 15 BW Pad D/Tbg, Drop SV, P/Test Tbg To 3,000 Psi, Tbg Psi Never Stabilized, SWI, 6:00PM C/SDFN, 6:00PM-6:30PM C/Trvl. - 5:30AM-6:00AM C/Trvl. 6:00AM OWU, POOH W/-108 Jts Tbg In Derrick Breaking & Redoping Tool Jts W/-Liq O-Ring. L/D 10 Jts Tbg, T/A, 1 Jts Tbg, S/N, 2 Jts Tbg, N/C. BMW H/Oiler Flush Tbg W/-25 BW On TOOH. R/U Perforators W/Line To Run Guage Ring To 4802', H/Oiler pmp 10 BW D/Csg Due To Oil. RIH Set 5 1/2'' Arrow Pak Pkr @ 4720', R/D W/Line, P/U & RIH W/-Seal Nipple,2 3/8X2 7/8 XO, 2 3/8 S/N, 2 7/8X2 3/8 XO, 22 Jts 2 7/8 Tbg Bttm 2 New, 5 1/2'' Arrow #1 Pkr, On Off Tool, 129 Jts Tbg, 2 7/8X4.12 Tbg Sub, 1 Jt Tbg, pmp 15 BW Pad D/Tbg, Drop SV, P/Test Tbg To 3,000 Psi, Tbg Psi Never Stabilized, SWI, 6:00PM C/SDFN, 6:00PM-6:30PM C/Trvl. **Finalized**
Daily Cost: $0
Cumulative Cost: $17,147

4/9/2012 Day: 3 **Conversion**

NC #1 on 4/9/2012 - Chek Tbg Psi,1100,Tapp SV,Stll Did Not Hold Psi,Fish SV,pmp Pad,Drop New SV.P/Tst Tbg To 3000 Psi,Good Tst,pmp Pkr Fluid,N/D BOP,Stining Into Arrow Pak Pkr,Set Arrow #1 Pkr,N/U W/HD,Fill & P/Tst Csg,Held Good 1 Hr 1,500 Psi,R/D Rig,Ready For MIT (Final R - 5:30AM-6:00AM C/Trvl. 6:00AM OWU W/-1100 Psi On Tbg, R/U H/Oiler, Bump Tbg Psi To 3,000 Psi, Leaked 110 Psi In 1 Hr. R/U S/Line RIH Tapp On SV. POOH W/-S/Line. P/Test Tbg To 3,000 Psi, Tbg Did Not Hold Psi. R/U S/-Line RIH & Fish SV. pmp 27 BW Pad D/Tbg, Drop New S/V. Fill Tbg W/-15 BW, P/Test Tbg To 3,000 Psi, Gained 20 Psi In 1

Hr.Good Test. RIH Fish SV. R/D R/Flr, H/Oiler pmp 70 BW W/-20 Gal Pkr Fluid, Sting Into Arrow Pak Pkr W/-Seal Nipple, Space Out, Set 5 1/2" Arrow #1 Pkr In 16,000 Tension, N/D BOP, N/U W/-HD, Fill Csg W/-1 BW, P/Test Csg & Pkr To 1,500 Psi, Good Test, R/D Rig,5:30PM -6:00PM C/Trvl, Well Ready For MIT (Final Rig Report). - 5:30AM-6:00AM C/Trvl. 6:00AM OWU W/-1100 Psi On Tbg, R/U H/Oiler, Bump Tbg Psi To 3,000 Psi, Leaked 110 Psi In 1 Hr. R/U S/Line RIH Tapp On SV. POOH W/-S/Line. P/Test Tbg To 3,000 Psi, Tbg Did Not Hold Psi. R/U S/-Line RIH & Fish SV. pmp 27 BW Pad D/Tbg, Drop New S/V. Fill Tbg W/-15 BW, P/Test Tbg To 3,000 Psi, Gained 20 Psi In 1 Hr.Good Test. RIH Fish SV. R/D R/Flr, H/Oiler pmp 70 BW W/-20 Gal Pkr Fluid, Sting Into Arrow Pak Pkr W/-Seal Nipple, Space Out, Set 5 1/2" Arrow #1 Pkr In 16,000 Tension, N/D BOP, N/U W/-HD, Fill Csg W/-1 BW, P/Test Csg & Pkr To 1,500 Psi, Good Test, R/D Rig,5:30PM -6:00PM C/Trvl, Well Ready For MIT (Final Rig Report).
Daily Cost: $0
Cumulative Cost: $42,270

4/12/2012 Day: 4 **Conversion**

Rigless on 4/12/2012 - Conduct initial MIT - On 04/10/2012 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 04/11/2012 the casing was pressured up to 1250 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not a State representative available to witness the test. - On 04/10/2012 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 04/11/2012 the casing was pressured up to 1250 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not a State representative available to witness the test.
Finalized
Daily Cost: $0
Cumulative Cost: $126,090

Pertinent Files: Go to File List

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-64805

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: FEDERAL 21-13Y

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

9. API NUMBER: 43013314000000

3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052

PHONE NUMBER: 435 646-4825 Ext

9. FIELD and POOL or WILDCAT: MONUMENT BUTTE

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0703 FNL 1830 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 13 Township: 09.0S Range: 16.0E Meridian: S

COUNTY: DUCHESNE

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
✓ SUBSEQUENT REPORT Date of Work Completion: 9/13/2012	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Workover MIT

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above subject well had workover procedures performed (ran CBL), attached is a daily status report. On 09/12/2012 Chris Jensen with the State of Utah was contacted concerning the MIT on the above listed well. On 09/13/2012 the csg was pressured up to 1720 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 10 psig during the test. There was not a State representative available to witness the test.

Accepted by the Utah Division of Oil, Gas and Mining

Date: September 27, 2012

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Lucy Chavez-Naupoto	435 646-4874	Water Services Technician
SIGNATURE N/A		**DATE** 9/21/2012

Mechanical Integrity Test
Casing or Annulus Pressure Test

Newfield Production Company
Rt. 3 Box 3630
Myton, UT 84052
435-646-3721

Witness: _____ **Date** 9/13/12 **Time** 9:00 (am) pm

Test Conducted by: Rick Bagley

Others Present: _____

Well: ~~Federal 21-13y-9-16~~	**Field:** Monument Butte
Well Location: Fed 21-13y-9-16	**API No:** 4301331400

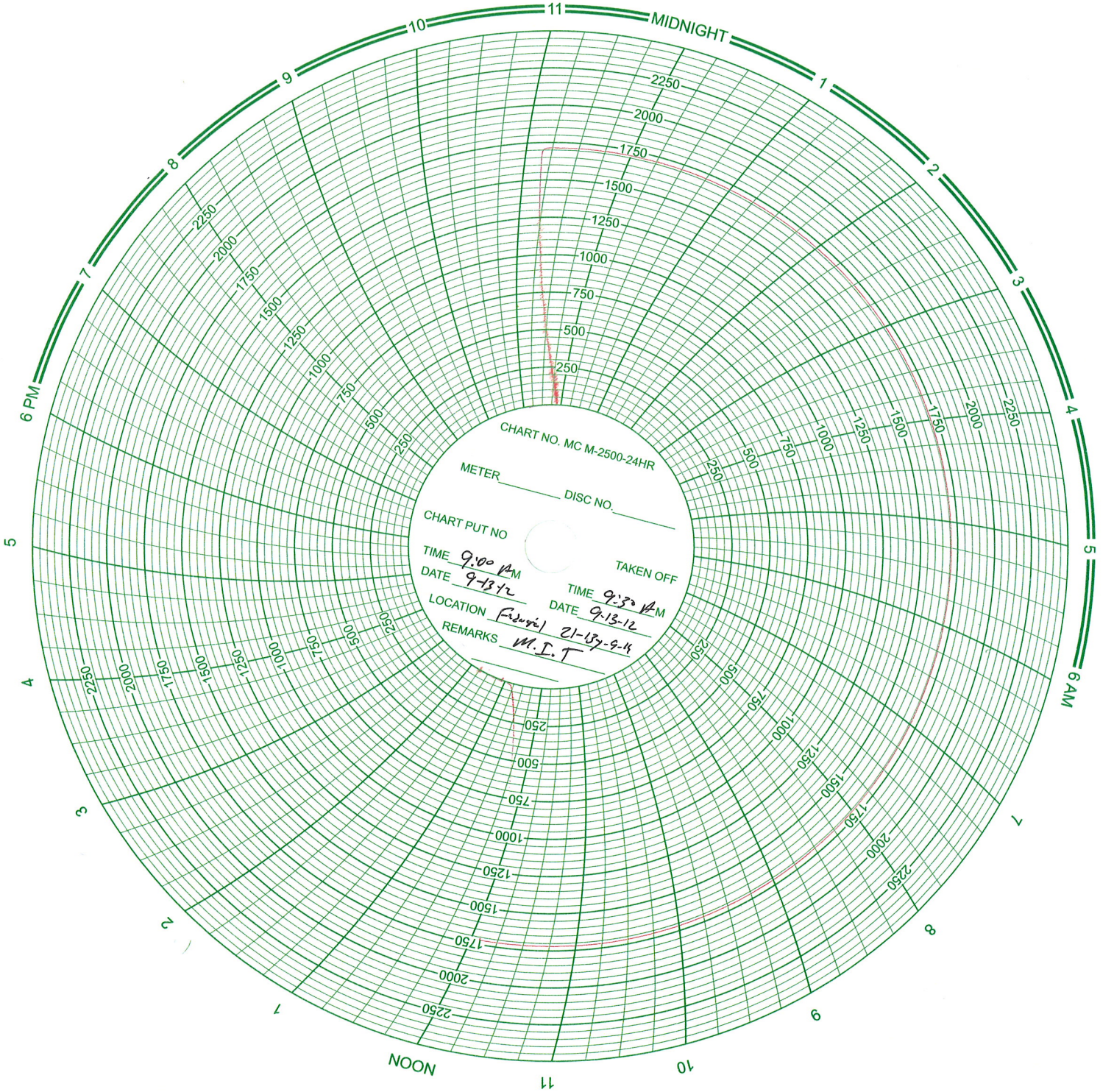
Time	Casing Pressure	
0 min	1720	psig
5	1720	psig
10	1720	psig
15	1720	psig
20	1720	psig
25	1720	psig
30 min	1720	psig
35		psig
40		psig
45		psig
50		psig
55		psig
60 min		psig

Tubing pressure: 10 psig

Result: (Pass) Fail

Signature of Witness: _____

Signature of Person Conducting Test: _____


MIDNIGHT
NOON
6 AM
6 PM
CHART NO. MC M-2500-24HR
METER
DISC NO.
CHART PUT NO
TIME 9:00 AM
DATE 9-13-12
TAKEN OFF
TIME 9:30 AM
DATE 9-13-12
LOCATION Fidelity 21-15J-9-14
REMARKS M.I.T

Daily Activity Report

Format For Sundry

FEDERAL 21-13Y-9-16

7/1/2012 To 11/30/2012

8/29/2012 Day: 1 **CBL and Possible Cement Squeeze**

NC #2 on 8/29/2012 - MIRUSU, Bleed Off Well, Unset PKR, NU BOP, POOH W/ PKR, TIH W/ Bit & Scrapper - 5:30AM To 6:00AM C/ Travl; MIRUSU, OWU @12:30PM (100psi On Tbg, 50psi On Csg), ND Injection Tree, Release PKR, NU Weatherford BOP, RU Workfloor, LD 1- Jt, LD 4' Pup Sub, RU H/ Oiler To Tbg Pumped 40BW, Tally Tbg While POOH W/ PKR, LD PKR, PU RBS Bit & Scrapper, TIH W/ 152 Jt 4696', POOH W/ 80 Jts..SWIFN 7:00PM To 7:30PM C/ Travl - 5:30AM To 6:00AM C/ Travl; MIRUSU, OWU @12:30PM (100psi On Tbg, 50psi On Csg), ND Injection Tree, Release PKR, NU Weatherford BOP, RU Workfloor, LD 1- Jt, LD 4' Pup Sub, RU H/ Oiler To Tbg Pumped 40BW, Tally Tbg While POOH W/ PKR, LD PKR, PU RBS Bit & Scrapper, TIH W/ 152 Jt 4696', POOH W/ 80 Jts..SWIFN 7:00PM To 7:30PM C/ Travl - 5:30AM To 6:00AM C/ Travl; MIRUSU, OWU @12:30PM (100psi On Tbg, 50psi On Csg), ND Injection Tree, Release PKR, NU Weatherford BOP, RU Workfloor, LD 1- Jt, LD 4' Pup Sub, RU H/ Oiler To Tbg Pumped 40BW, Tally Tbg While POOH W/ PKR, LD PKR, PU RBS Bit & Scrapper, TIH W/ 152 Jt 4696', POOH W/ 80 Jts..SWIFN 7:00PM To 7:30PM C/ Travl **Finalized**
Daily Cost: $0
Cumulative Cost: $9,407

8/30/2012 Day: 2 **CBL and Possible Cement Squeeze**

NC #2 on 8/30/2012 - Set & Test RBP, RIH W/ WL For CBL - 5:30AM To 6:00AM C/ Travl; OWU @ 6:00PM, Continue POOH W/ Bit & Scrapper, PU & MU RBP, 4' Tbg Sub, PKR, TIH W/ 131 Jts, Set RBP @ 4064', LD 1- Jt , Set PKR @ 4033', RU H/ Oiler To Tbg Pumped 3 BW, Isolated Tbg, Pressure Test Tbg @1500psi For 15 Min, GOOD TEST, Released PKR, Filled Csg W/ 7 BW Threw Tbg, POOH W/ PKR Refilling Csg Every 1200', LD PKR, RU & RIH W/ WL (Perforators) For CBL, H/ Oiler Pressured Up Csg To 1000psi During BL, Completed CBL, POOH & RD WL, Steamed On Floor & BOP ..SWIFN 4:30PM To 5:00PM C/ Travl - 5:30AM To 6:00AM C/ Travl; OWU @ 6:00PM, Continue POOH W/ Bit & Scrapper, PU & MU RBP, 4' Tbg Sub, PKR, TIH W/ 131 Jts, Set RBP @ 4064', LD 1- Jt , Set PKR @ 4033', RU H/ Oiler To Tbg Pumped 3 BW, Isolated Tbg, Pressure Test Tbg @1500psi For 15 Min, GOOD TEST, Released PKR, Filled Csg W/ 7 BW Threw Tbg, POOH W/ PKR Refilling Csg Every 1200', LD PKR, RU & RIH W/ WL (Perforators) For CBL, H/ Oiler Pressured Up Csg To 1000psi During BL, Completed CBL, POOH & RD WL, Steamed On Floor & BOP ..SWIFN 4:30PM To 5:00PM C/ Travl - 5:30AM To 6:00AM C/ Travl; OWU @ 6:00PM, Continue POOH W/ Bit & Scrapper, PU & MU RBP, 4' Tbg Sub, PKR, TIH W/ 131 Jts, Set RBP @ 4064', LD 1- Jt , Set PKR @ 4033', RU H/ Oiler To Tbg Pumped 3 BW, Isolated Tbg, Pressure Test Tbg @1500psi For 15 Min, GOOD TEST, Released PKR, Filled Csg W/ 7 BW Threw Tbg, POOH W/ PKR Refilling Csg Every 1200', LD PKR, RU & RIH W/ WL (Perforators) For CBL, H/ Oiler Pressured Up Csg To 1000psi During BL, Completed CBL, POOH & RD WL, Steamed On Floor & BOP ..SWIFN 4:30PM To 5:00PM C/ Travl **Finalized**
Daily Cost: $0
Cumulative Cost: $20,019

9/4/2012 Day: 3 **CBL and Possible Cement Squeeze**

NC #2 on 9/4/2012 - TIH W/ Tbg Open Holed, RDSU - 5:30AM To 6:00AM C/ Travl; OWU @ 6:00PM, LD- 26 Jts, TIH W/ Tbg As Follows NC, 126- 2 7/8" Tbg, 4' Pup Sub, EOT @ 3891.84', Dumped 20 Gal Of Frac Sand Down Tbg, H/ Oiler Pumped Tbg Vol 22BW To Chase Sand To PLG, RD Work Floor, ND Weatherford BOP, NU Injection Tree, RDSU...4:30PM To 5:00PM -

5:30AM To 6:00AM C/ Travl; OWU @ 6:00PM, LD- 26 Jts, TIH W/ Tbg As Follows NC, 126- 2 7/8" Tbg, 4' Pup Sub, EOT @ 3891.84', Dumped 20 Gal Of Frac Sand Down Tbg, H/ Oiler Pumped Tbg Vol 22BW To Chase Sand To PLG, RD Work Floor, ND Weatherford BOP, NU Injection Tree, RDSU...4:30PM To 5:00PM - 5:30AM To 6:00AM C/ Travl; OWU @ 6:00PM, LD- 26 Jts, TIH W/ Tbg As Follows NC, 126- 2 7/8" Tbg, 4' Pup Sub, EOT @ 3891.84', Dumped 20 Gal Of Frac Sand Down Tbg, H/ Oiler Pumped Tbg Vol 22BW To Chase Sand To PLG, RD Work Floor, ND Weatherford BOP, NU Injection Tree, RDSU...4:30PM To 5:00PM
Daily Cost: $0
Cumulative Cost: $26,039

9/11/2012 Day: 4 **CBL and Possible Cement Squeeze**

NC #2 on 9/11/2012 - Retrieve RBP, TIH W/ PKR - 5:30AM To 6:00AM C/ Travl; MIRSU @ 9:00AM, OWU @ 9:00AM, ND Injection Tree, NU Weatherford BOP, RU Workfloor, POOH W/ 124 Jts, PU 6- Jts, TIH W/ Tbg To Retreive RBP @ 4064', RU H/ Oiler To Csg, Circulated Sand From Plg, Released RBP, POOH W/ 130 Jts, MU & TIH W/ 4' PKR Stinger, 2 3/8" XN Nipple, 2 7/8"x 2 3/8" X-Over, PU 22- Jts..SWIFN.. 7:00PM To 7:30PM C/ Travl - 5:30AM To 6:00AM C/ Travl; MIRSU @ 9:00AM, OWU @ 9:00AM, ND Injection Tree, NU Weatherford BOP, RU Workfloor, POOH W/ 124 Jts, PU 6- Jts, TIH W/ Tbg To Retreive RBP @ 4064', RU H/ Oiler To Csg, Circulated Sand From Plg, Released RBP, POOH W/ 130 Jts, MU & TIH W/ 4' PKR Stinger, 2 3/8" XN Nipple, 2 7/8"x 2 3/8" X-Over, PU 22- Jts..SWIFN.. 7:00PM To 7:30PM C/ Travl - 5:30AM To 6:00AM C/ Travl; OWU @ 6:00AM, MU "XN" Injection PKR, TIH W/ 130- Jts,1- 2' Tbg Sub, RU H/ Oiler To Tbg, Pumped 10 BW, RU & RIH W/ Sandline To Seat Stnd Valv, Filled Tbg W/ 20BW, RU Isolation T, Pressured Tbg To 3000psi, No Pressure Loss In 60 Min, GOOD TEST, RU & RIH W/ Sandline W/ Overshot, Retreived Stnd Valv, RU H/ Oiler To Csg, Pumped 70BW Of Fresh Wtr W/ PKR Fluid, Inserted Stinger Into PKR @ 4720', Pulled 13" Stretch To Set Injection PKR @ 4036' (CE @ 4031.70') W/ 1500# Of Tension, RD WorkFloor, ND Weatherford BOP, NU Injection Tree, H/ Oiler Filled Csg W/ 10BW, Pressured Up Csg To 1500psi, 20psi Loss In 30 Min, Repressured Csg To 1550psi, No Loss In Pressure In 60 Min, RDSU¿5:30PM To 6:00PM C/ Travl¿.. GOOD TEST¿READY FOR MIT - 5:30AM To 6:00AM C/ Travl; OWU @ 6:00AM, MU "XN" Injection PKR, TIH W/ 130- Jts,1- 2' Tbg Sub, RU H/ Oiler To Tbg, Pumped 10 BW, RU & RIH W/ Sandline To Seat Stnd Valv, Filled Tbg W/ 20BW, RU Isolation T, Pressured Tbg To 3000psi, No Pressure Loss In 60 Min, GOOD TEST, RU & RIH W/ Sandline W/ Overshot, Retreived Stnd Valv, RU H/ Oiler To Csg, Pumped 70BW Of Fresh Wtr W/ PKR Fluid, Inserted Stinger Into PKR @ 4720', Pulled 13" Stretch To Set Injection PKR @ 4036' (CE @ 4031.70') W/ 1500# Of Tension, RD WorkFloor, ND Weatherford BOP, NU Injection Tree, H/ Oiler Filled Csg W/ 10BW, Pressured Up Csg To 1500psi, 20psi Loss In 30 Min, Repressured Csg To 1550psi, No Loss In Pressure In 60 Min, RDSU¿5:30PM To 6:00PM C/ Travl¿.. GOOD TEST¿READY FOR MIT - 5:30AM To 6:00AM C/ Travl; MIRSU @ 9:00AM, OWU @ 9:00AM, ND Injection Tree, NU Weatherford BOP, RU Workfloor, POOH W/ 124 Jts, PU 6- Jts, TIH W/ Tbg To Retreive RBP @ 4064', RU H/ Oiler To Csg, Circulated Sand From Plg, Released RBP, POOH W/ 130 Jts, MU & TIH W/ 4' PKR Stinger, 2 3/8" XN Nipple, 2 7/8"x 2 3/8" X-Over, PU 22- Jts..SWIFN.. 7:00PM To 7:30PM C/ Travl - 5:30AM To 6:00AM C/ Travl; MIRSU @ 9:00AM, OWU @ 9:00AM, ND Injection Tree, NU Weatherford BOP, RU Workfloor, POOH W/ 124 Jts, PU 6- Jts, TIH W/ Tbg To Retreive RBP @ 4064', RU H/ Oiler To Csg, Circulated Sand From Plg, Released RBP, POOH W/ 130 Jts, MU & TIH W/ 4' PKR Stinger, 2 3/8" XN Nipple, 2 7/8"x 2 3/8" X-Over, PU 22- Jts..SWIFN.. 7:00PM To 7:30PM C/ Travl - 5:30AM To 6:00AM C/ Travl; OWU @ 6:00AM, MU "XN" Injection PKR, TIH W/ 130- Jts,1- 2' Tbg Sub, RU H/ Oiler To Tbg, Pumped 10 BW, RU & RIH W/ Sandline To Seat Stnd Valv, Filled Tbg W/ 20BW, RU Isolation T, Pressured Tbg To 3000psi, No Pressure Loss In 60 Min, GOOD TEST, RU & RIH W/ Sandline W/ Overshot, Retreived Stnd Valv, RU H/ Oiler To Csg, Pumped 70BW Of Fresh Wtr W/ PKR Fluid, Inserted Stinger Into PKR @ 4720', Pulled 13" Stretch To Set Injection PKR @ 4036' (CE @ 4031.70') W/ 1500# Of Tension, RD WorkFloor, ND Weatherford BOP, NU Injection Tree, H/ Oiler Filled Csg W/ 10BW, Pressured Up Csg To 1500psi, 20psi Loss In 30 Min, Repressured Csg To 1550psi, No Loss In Pressure In 60 Min,

RDSU¿5:30PM To 6:00PM C/ Travl¿.. GOOD TEST¿READY FOR MIT - 5:30AM To 6:00AM C/ Travl; OWU @ 6:00AM, MU "XN" Injection PKR, TIH W/ 130- Jts,1- 2' Tbg Sub, RU H/ Oiler To Tbg, Pumped 10 BW, RU & RIH W/ Sandline To Seat Stnd Valv, Filled Tbg W/ 20BW, RU Isolation T, Pressured Tbg To 3000psi, No Pressure Loss In 60 Min, GOOD TEST, RU & RIH W/ Sandline W/ Overshot, Retreived Stnd Valv, RU H/ Oiler To Csg, Pumped 70BW Of Fresh Wtr W/ PKR Fluid, Inserted Stinger Into PKR @ 4720', Pulled 13" Stretch To Set Injection PKR @ 4036' (CE @ 4031.70') W/ 1500# Of Tension, RD WorkFloor, ND Weatherford BOP, NU Injection Tree, H/ Oiler Filled Csg W/ 10BW, Pressured Up Csg To 1500psi, 20psi Loss In 30 Min, Repressured Csg To 1550psi, No Loss In Pressure In 60 Min, RDSU¿5:30PM To 6:00PM C/ Travl¿.. GOOD TEST¿READY FOR MIT - 5:30AM To 6:00AM C/ Travl; MIRSU @ 9:00AM, OWU @ 9:00AM, ND Injection Tree, NU Weatherford BOP, RU Workfloor, POOH W/ 124 Jts, PU 6- Jts, TIH W/ Tbg To Retreive RBP @ 4064', RU H/ Oiler To Csg, Circulated Sand From Plg, Released RBP, POOH W/ 130 Jts, MU & TIH W/ 4' PKR Stinger, 2 3/8" XN Nipple, 2 7/8"x 2 3/8" X-Over, PU 22- Jts..SWIFN.. 7:00PM To 7:30PM C/ Travl - 5:30AM To 6:00AM C/ Travl; MIRSU @ 9:00AM, OWU @ 9:00AM, ND Injection Tree, NU Weatherford BOP, RU Workfloor, POOH W/ 124 Jts, PU 6- Jts, TIH W/ Tbg To Retreive RBP @ 4064', RU H/ Oiler To Csg, Circulated Sand From Plg, Released RBP, POOH W/ 130 Jts, MU & TIH W/ 4' PKR Stinger, 2 3/8" XN Nipple, 2 7/8"x 2 3/8" X-Over, PU 22- Jts..SWIFN.. 7:00PM To 7:30PM C/ Travl - 5:30AM To 6:00AM C/ Travl; OWU @ 6:00AM, MU "XN" Injection PKR, TIH W/ 130- Jts,1- 2' Tbg Sub, RU H/ Oiler To Tbg, Pumped 10 BW, RU & RIH W/ Sandline To Seat Stnd Valv, Filled Tbg W/ 20BW, RU Isolation T, Pressured Tbg To 3000psi, No Pressure Loss In 60 Min, GOOD TEST, RU & RIH W/ Sandline W/ Overshot, Retreived Stnd Valv, RU H/ Oiler To Csg, Pumped 70BW Of Fresh Wtr W/ PKR Fluid, Inserted Stinger Into PKR @ 4720', Pulled 13" Stretch To Set Injection PKR @ 4036' (CE @ 4031.70') W/ 1500# Of Tension, RD WorkFloor, ND Weatherford BOP, NU Injection Tree, H/ Oiler Filled Csg W/ 10BW, Pressured Up Csg To 1500psi, 20psi Loss In 30 Min, Repressured Csg To 1550psi, No Loss In Pressure In 60 Min, RDSU¿5:30PM To 6:00PM C/ Travl¿.. GOOD TEST¿READY FOR MIT - 5:30AM To 6:00AM C/ Travl; OWU @ 6:00AM, MU "XN" Injection PKR, TIH W/ 130- Jts,1- 2' Tbg Sub, RU H/ Oiler To Tbg, Pumped 10 BW, RU & RIH W/ Sandline To Seat Stnd Valv, Filled Tbg W/ 20BW, RU Isolation T, Pressured Tbg To 3000psi, No Pressure Loss In 60 Min, GOOD TEST, RU & RIH W/ Sandline W/ Overshot, Retreived Stnd Valv, RU H/ Oiler To Csg, Pumped 70BW Of Fresh Wtr W/ PKR Fluid, Inserted Stinger Into PKR @ 4720', Pulled 13" Stretch To Set Injection PKR @ 4036' (CE @ 4031.70') W/ 1500# Of Tension, RD WorkFloor, ND Weatherford BOP, NU Injection Tree, H/ Oiler Filled Csg W/ 10BW, Pressured Up Csg To 1500psi, 20psi Loss In 30 Min, Repressured Csg To 1550psi, No Loss In Pressure In 60 Min, RDSU¿5:30PM To 6:00PM C/ Travl¿.. GOOD TEST¿READY FOR MIT **Finalized**

Daily Cost: $0

Cumulative Cost: $34,374

9/19/2012 Day: 6 **CBL and Possible Cement Squeeze**

Rigless on 9/19/2012 - Conduct MIT - On 09/12/2012 Chris Jensen with the State of Utah was contacted concerning the MIT on the above listed well. On 09/13/2012 the csg was pressured up to 1720 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 10 psig during the test. There was not a State representative available to witness the test. - On 09/12/2012 Chris Jensen with the State of Utah was contacted concerning the MIT on the above listed well. On 09/13/2012 the csg was pressured up to 1720 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 10 psig during the test. There was not a State representative available to witness the test. - On 09/12/2012 Chris Jensen with the State of Utah was contacted concerning the MIT on the above listed well. On 09/13/2012 the csg was pressured up to 1720 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 10 psig during the test. There was not a State representative available to witness the test. **Finalized**

Daily Cost: $0

Cumulative Cost: $50,282

Pertinent Files: Go to File List

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: U-64805

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)

1. TYPE OF WELL Water Injection Well

8. WELL NAME and NUMBER: FEDERAL 21-13Y

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

9. API NUMBER: 43013314000000

3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052

PHONE NUMBER: 435 646-4825 Ext

9. FIELD and POOL or WILDCAT: MONUMENT BUTTE

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0703 FNL 1830 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 13 Township: 09.0S Range: 16.0E Meridian: S

COUNTY: DUCHESNE

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
✓ SUBSEQUENT REPORT Date of Work Completion: 1/21/2013	✓ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	✓ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Put on Injection

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above reference well was put on injection at 11:30 AM on 01/21/2013.

Accepted by the Utah Division of Oil, Gas and Mining

Date: February 14, 2013

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Lucy Chavez-Naupoto	435 646-4874	Water Services Technician
SIGNATURE N/A		**DATE** 1/22/2013

RECEIVED: Jan. 22, 2013

Federal 21-13Y-9-16

Spud Date: 8/13/1993

Put on Production: 9/16/1993

GL: 5535' KB: 5545'

Initial Production: 84 BOPD, 126 MCFD, 7 BWPD

Injection Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 6 jts. (275')

DEPTH LANDED: 259'

HOLE SIZE:12-1/4"

CEMENT DATA: 150 sxs Premium Plus cement, est 6 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: K-55

WEIGHT: 15.5#

LENGTH: 139 jts. (5945.72')

DEPTH LANDED: 5945.72'

HOLE SIZE: 7-7/8"

CEMENT DATA: 145 sxs Hilift cement & 325 sxs Class "G".

CEMENT TOP AT: 1040' per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#

TBG: 1 jt N-80 (2.0')

NO. OF JOINTS: 130 jts (4014.0')

SEATING NIPPLE: 2-7/8" (1.10')

SN LANDED AT: 4026.0' KB

ON OFF TOOL 2-7/8" AT: 4027.1'

PACKER CE AT: 4031.7'

NO. OF JOINTS: 22 jts (681.5')

XO: 2-7/8" x 2-3/8" (0.5) AT: 4717.4'

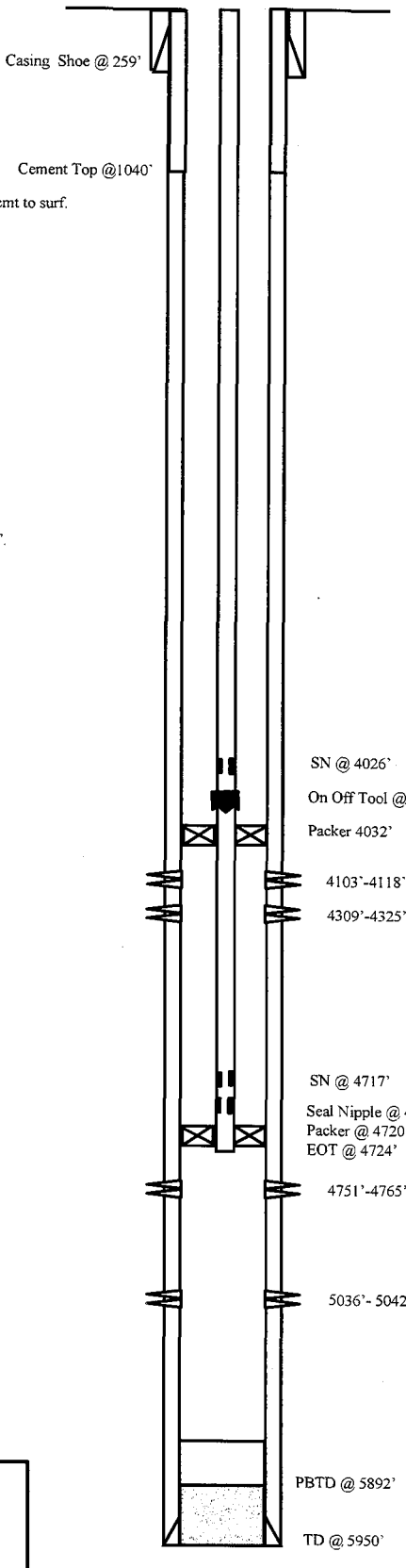
SEATING NIPPLE: 2-3/8" (1.10')

SEATING NIPPLE: 4717.9'

SEAL NIPPLE 3-7/8 OD J-55 AT: 4719.0'

PACKER CE AT: 4720'

TOTAL STRING LENGTH: EOT @ 4724' KB



FRAC JOB

8/28/93	4751'-4765'	**Frac as follows:** 20,140# 20/40 sand & 15,380# 16/30 sand in 371 bbls gelled KCL frac fluid. Treated @ avg press of 1900 psi w/avg rate of 20 BPM. ISIP 1850 psi.
9/1/93	4309'-4325'	**Frac as follows:** 33,600# 16/30 sand in 377 bbls gelled KCL frac fluid. Treated @ avg press of 2050 psi w/avg. rate of 24.5 BPM. ISIP 1800 psi.
2/14/01		**Tubing job.** Update Rod and tubing details.
11/17/05	4103-4118	**Frac GB6 sds as follows:** 55,211# 20/40 sand in 439 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 1870 w/ ave rate of 25.2 bpm w/ 8 ppg of sand. *ISIP was 2150. Actual flush: 4032 gals*
08/29/08		**Recompletion.** Rod & Tubing detail updated.
9/3/08	5036-5042	**Frac A1 sds as follows:** 16,591# 20/40 sand in 238 bbls of Lightning 17 fluid. Treated w/ ave pressure of 3442 psi @ ave rate of 13.1BPM. ISIP 1962 psi. Actual flush: 1218 gals.
07/25/10		**Tubing Leak**. Rod & Tubing detail updated.
04/09/12		**Convert to Injection Well**
04/11/12		**Conversion MIT Finalized** – tbg detail updated
09/13/12		**Workover MIT Finalized** – ran CBL – update tbg detail

PERFORATION RECORD

8/26/93	4751'-4765'	2 JSPF	28 holes
8/31/93	4309'-4325'	2 JSPF	32 holes
11/17/05	4103-4118'	40 JSPF	60 holes
9/3/08	5036-5042'	4 JSPF	24 holes

NEWFIELD

Federal 21-13Y-9-16
702' FNL & 1830' FWL
NENW Section 13-T9S-R16E
Duchesne Co, Utah
API #43-013-31400; Lease #UTU-64805

LCN 09/27/12

GARY R. HERBERT
Governor
GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

UNDERGROUND INJECTION CONTROL PERMIT

Cause No. UIC-383

Operator: Newfield Production Company

Well: Federal 21-13Y

Location: Section 13, Township 9 South, Range 16 East

County: Duchesne

API No.: 43-013-31400

Well Type: Enhanced Recovery (waterflood)

Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on February 7, 2012.
2. Maximum Allowable Injection Pressure: 1,772 psig
3. Maximum Allowable Injection Rate: (restricted by pressure limitation)
4. Injection Interval: Green River Formation (**3,882'** – 5,888', revised injection top)
5. **Because of questionable quality of light cement in the Monument Federal 41-14J (API # 43-013-31408) well, located approximately 0.4 mile east of the Federal 21-13Y well, and the Federal 21-13Y well itself, pressure shall be monitored in both wells between the surface casing and the production casing on a regular basis. Any pressure changes observed shall be reported to the Division immediately.**
6. Any subsequent wells drilled within a ½ mile radius of this well shall have production casing cement brought up to or above the top of the unitized interval for the Greater Monument Butte Unit.

Approved by: for John Rogers, Associate Director — 01-10-13 Date

JR/MLR/js
cc: Bruce Suchomel, Environmental Protection Agency
Bureau of Land Management, Vernal
Eric Sundberg, Newfield Production Company, Denver
Newfield Production Company, Myton
Duchesne County
Well File
N:\O&G Reviewed Docs\ChronFile\UIC

UTAH DNR
OIL, GAS & MINING