UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG _____ ELECTRIC LOGS ✓ X WATER SANDS _____ LOCATION INSPECTED __ _____ SUB. REPORT/abd. _____

951228 Confidential status expired 12-28-95 : 960461 oper. Nm. Chg.

DATE FILED JUNE 14, 1994

LAND: FEE & PATENTED STATE LEASE NO. PUBLIC LEASE NO. U-67845 INDIAN

DRILLING APPROVED: AUGUST 23, 1994

SPUDDED IN: 10-20-94

COMPLETED: 11-28-94 POW PUT TO PRODUCING: 11-28-94

INITIAL PRODUCTION: 158 BOPD; 235 MCF; 6 BOPD

GRAVITY A.P.I. 34 deg.

GOR: 1.5

PRODUCING ZONES: 5308-6002 (GRRV)

TOTAL DEPTH: 6300'

WELL ELEVATION: 5060 GR

DATE ABANDONED:

FIELD: ~~UNDESIGNATED~~ PARIETTE DRAW 12-6-96

UNIT: NA

COUNTY: UINTAH

WELL NO. BALCRON MONUMENT FEDERAL #21-25 API NO. 43-047-32528

LOCATION 748' FNL FT. FROM (N) (S) LINE, 1964' FWL FT. FROM (E) (W) LINE. NE NW 1/4 — 1/4 SEC. 25

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
				8S	17E	25	~~EQUIT RES ENERGY CO~~ Inland Prod. Co.

FORM 3

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

CONFIDENTIAL

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

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 Sec. 25, T8S, R17E 747.6' FNL, 1963.6' FWL
At proposed prod. zone:

5. Distance in miles and direction from nearest town or post office*: Approximately 10 miles southeast of Myton, Utah

6. 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

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

19. Proposed depth: 6,300'

20. Rotary or cable tools: Rotary

21. Elevations (Show whether DF, RT, GR, etc.): GL 5060.4'

22. Approx. date work will start*: 8/1/94

5. Lease Designation and Serial No.: Federal #U-67845

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

7. Unit Agreement Name: n/a

8. Farm or Lease Name: Balcron Monument Federal

9. Well No.: #21-25

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

11. QQ, Sec., T., R., M., or Blk. and Survey or Area: NE NW Sec. 25 T8S,R17E

12. County or Parrish: Uintah

13. State: UTAH

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 this well in accordance with the attached Federal Application for Permit to Drill.

RECEIVED
JUN 14 1994
DIV. 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 Title: Regulatory and Environmental Specialist Date: June 13, 1994
Bobbie Schuman

(This space for Federal or State office use)

API NO. 43-047-32528 Approval Date

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 8/23/94
BY: [signature]
WELL SPACING: R649-3-2

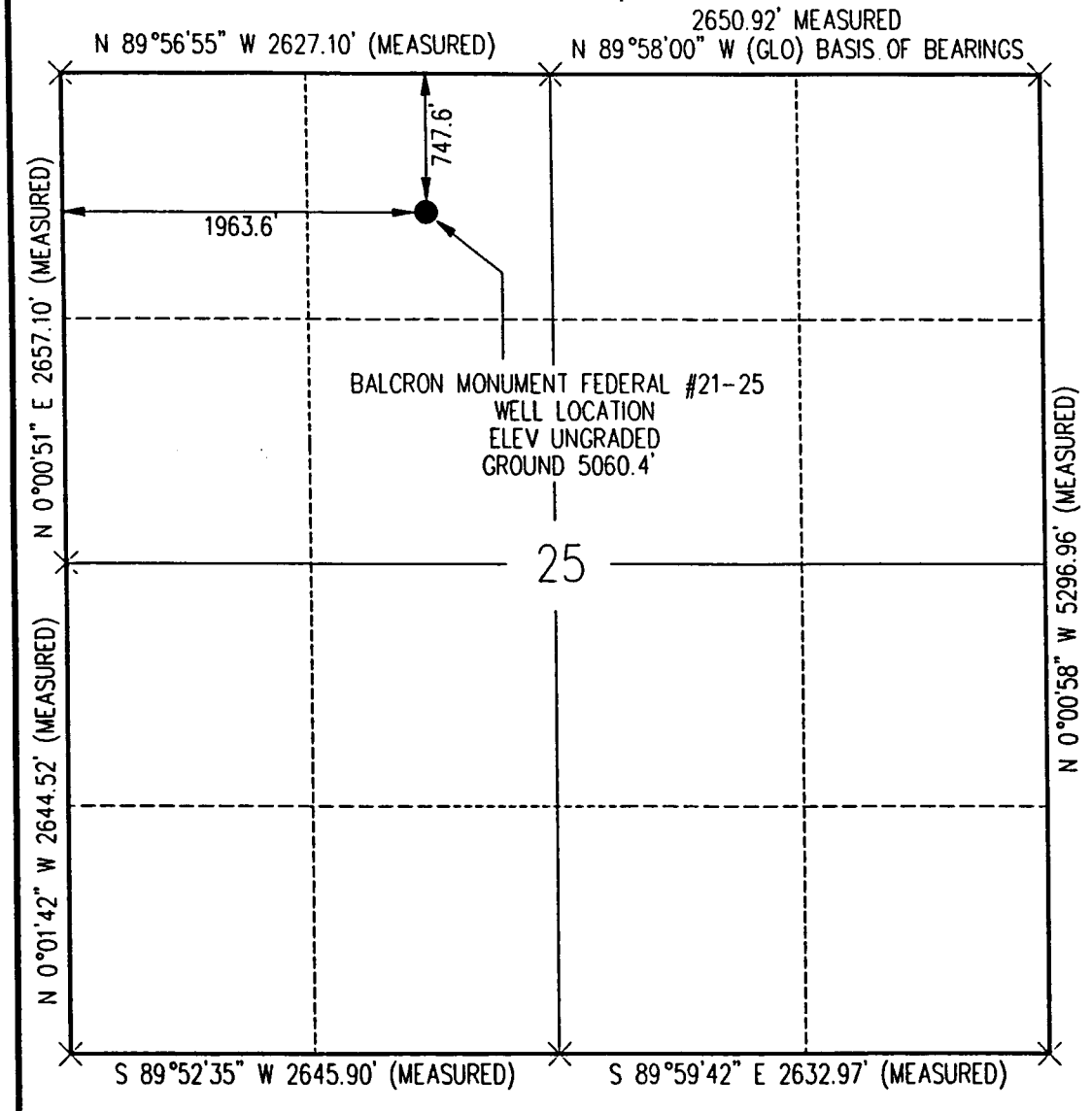
Approved by: Title:
Conditions of approval, if any:

*See Instructions On Reverse Side

(3/89)

EXHIBIT "K"

T8S, R17E, 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 (PARIETTE DRAW SW))

EQUITABLE RESOURCES ENERGY CO.

WELL LOCATION, BALCRON MONUMENT FEDERAL #21-25, LOCATED AS SHOWN IN THE NE 1/4 NW 1/4 OF SECTION 25, T8S, R17E, S.L.B. & M, UINTAH 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.

REGISTERED LAND SURVEYOR
REGISTRATION No. 161[illegible]
STATE OF UTAH

REGISTERED LAND SURVEYOR
STACY W. STEWART
STATE OF UTAH

WEATHER: SUNNY & HOT	
DATE: 5/26/94	
SCALE: 1" = 1000'	
SURVEYED BY: SS CB	
FILE: MF#21-25	

TRI-STATE
LAND SURVEYING, INC.

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 13, 1994

-- VIA FEDERAL EXPRESS --

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

Gentlemen:

RE: Balcron Monument Federal #21-25
NE NW Section 25, T8S, R17E
Uintah County, Utah

Enclosed is our Application for Permit to Drill the referenced well.

As operator, we hereby request that the status of this well be held tight for the maximum period allowed by Federal and State regulations.

Sincerely,

Bobbie Schuman

Bobbie Schuman
Regulatory and Environmental Specialist

/hs

Enclosures

cc: Utah Division of Oil, Gas and 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

CONFIDENTIAL

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

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 25, T8S, R17E 747.6' FNL, 1963.6' FWL
At proposed prod. zone

5. LEASE DESIGNATION AND SERIAL NO.
U-67845

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

7. UNIT AGREEMENT NAME
n/a

8. FARM OR LEASE NAME
Balcron Monument Federal

9. WELL NO.
21-25

10. FIELD AND POOL, OR WILDCAT
Undesignated/Green River

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 25 T8S, R17E

12. COUNTY OR PARISH
Uintah

13. STATE
UTAH

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Approximately 10 miles southeast 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
6,300'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
GL 5060.4'

22. APPROX. DATE WORK WILL START*
8/1/94

23. PROPOSED CASING AND CEMENTING PROGRAM

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

See attached for listing of exhibits.

RECEIVED
JUN 14 1994
DIV. OF OIL, GAS & MINING

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 Regulatory and Environmental Specialist DATE June 13, 1994
Bobbie Schuman
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE:
BY:
WELL SPACING:

*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

EXHIBITS FOR MONUMENT BUTTE AREA WELLS:

A	PROPOSED DRILLING PROGRAM
B	PROPOSED SURFACE USE PROGRAM
C	GEOLOGIC PROGNOSIS
D	DRILLING PROGRAM/CASING DESIGN/WELLBORE DIAGRAM
E	HAZMAT DECLARATION
F	EXISTING & PLANNED ACCESS ROADS (MAPS A & B)
G	WELLSITE LAYOUT
H	BOPE SCHEMATIC
I	EXISTING ROADS (MAP C)
J	PROPOSED PRODUCTION FACILITY DIAGRAM
K	SURVEY PLAT
L	LAYOUT/CUT & FILL DIAGRAM

6/7/94

CONFIDENTIAL

AS OPERATOR, WE HEREBY REQUEST THAT THE STATUS OF THIS WELL BE HELD TIGHT FOR THE MAXIMUM PERIOD ALLOWED BY FEDERAL AND STATE REGULATIONS.

Equitable Resources Energy Company
Balcron Oil Division
P.O. Box 21017
Billings, MT 59104
(406) 259-7860

EQUITABLE RESOURCES ENERGY COMPANY
Balcron Oil Division
Balcron Monument Federal #21-25
NE NW Section 25, T8S, R17E
Uintah 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: 1.00, 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 attachment:

Drilling Program/Casing Design (EXHIBIT "D")

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 possible after 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 MONUMENT FEDERAL #21-25
NE NW SECTION 25, T8S, R17E
UINTAH 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. 200' & 250' East and 150' & 200' North.

B. The Monument Federal #21-25 is located 10 miles Southeast of Myton Utah in the NE1/4 NW1/4 Section 25, T8S, R17E, SLB&M, Uintah County, Utah. To reach the 21-25, 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 7.0 miles to a road intersection, turn right and continue 5.9 miles to proposed access road sign. Follow flags 400 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"

Approximately 400 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 - Less than 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 is included in this APD.

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 or from a spring owned by Joe Shields of Myton Utah. Source will be determined by sundry notice closer to the beginning of drilling operations.

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 one hundred twenty (120) 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, this liner will be installed over sufficient bedding material (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.

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 Onshore Order #7, 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. The reserve pit will be on the South side of location. The flare pit will be located downwind of the prevailing wind direction on the Southeast near corner #4. Access will be from the Southwest near corner #6.

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

C. A completion rig will be moved onto location for completion operations after drilling operations have been completed and the drilling rig has been moved off location.

D. A diagram showing the proposed production facility layout is included in this APD.

E. The reserve pit will be constructed so as to be capable of holding 12,000 bbls. of fluid.

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.

F. 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.

G. Any hydrocarbons on the pit will be removed from the pit as soon as possible after completion 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 disked 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, 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 15 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 seed mixture stipulated by the B.L.M.

   Seed will be drilled on the contour to a approximate depth of one-half (1/2) inch. All seeding will be conducted after September 15 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 13 miles Southwest 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.

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

5. No silt catchment dam will be required for this location.

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.

June 13, 1994
Date

Bobbie Schuman
Bobbie Schuman
Coordinator of Environmental and Regulatory Affairs
BALCRON OIL division of Equitable Resources Energy Co.

EXHIBIT "C"

Balcron Oil Well Prognosis

Well Name	BALCRON MONUMENT FEDERAL #21-25	**Exploratory**		**Control Well**	BMF #11-25
Location	NENW SEC 25-T8S-R17E (748' FNL, 1964' FWL)	**Development**	X	**Operator**	BALCRON
County	UINTAH	**Field**		**KB**	5059
State	UTAH	**Section**	NENW 25	**Section**	NWNW 25
Total Depth	6300	**Township**	8S	**Township**	8S
GL (Ung)	5060.4' **EST. KB** 5069	**Range**	17E	**Range**	17E

Formation Tops	Prognosis		Sample Top		Control Well	High/Low		
Formation	Depth	Datum	Depth	Datum	Datum	Prog	Cntl	Deviation
UINTA	SURFACE							
GREEN RIVER	1829	3240			3247			
HORSEBENCH SS	2753	2316			2323			
2ND GARDEN GULCH	4313	756			763			
Y-2 SAND (PAY)	4594	475			NP			
Y-4 SAND (PAY)	4764	305			312			
YELLOW MARKER	4918	151			158			
DOUGLAS CREEK	5087	-18			-11			
R-5 SAND (PAY)	5304	-235			-228			
2ND DOUGLAS CREEK	5349	-280			-273			
GREEN MARKER	5507	-438			-431			
G-5 SAND (PAY)	5665	-596			-589			
BLACK SHALE FACIES	5729	-660			-653			
CARBONATE MARKER	5951	-882			-875			
B-1 SAND (PAY)	5995	-926			-919			
TD	6300							

Samples

50' FROM 1700' TO 4400'
10' FROM 4400' TO TD

Logs

DLL FROM SURF CSG TO TD
LDT/CNL FROM 2800' TO TD

DST,s

DST #1 NONE
DST #2
DST #3
DST #4

Cores

Core #1 NONE
Core #2
Core #3
Core #4

Wellsite Geologist

Name:
From: to:
Address:
Phone # wk.
hm.
Fax #

Mud Logger/Hot Wire

Company:
Required: (Yes/No) YES
Type: TWO MAN
Logger:
Phone #
Fax #

Comments:

Report To: 1st Name: DAVE BICKERSTAFF Phone # (406)259-7860 wk. 245-2261 hm.
2nd Name: KEVEN REINSCHMIDT Phone # " wk. 248-7026 hm.
Prepared By: K.K. REINSCHMIDT 5/12/94 Phone # wk. hm.

Equitable Resources Energy Company
Balcron Oil Division

DRILLING PROGRAM

WELL NAME: Balcron Monument Fed 21-25 **PROSPECT/FIELD: Monument Butte**
LOCATION: NE NW Sec.25 Twn.8S Rge.17E
COUNTY: Uintah **STATE: Utah**

TOTAL DEPTH: 6300

HOLE SIZE	INTERVAL
12 1/4"	0 to 260'
7 7/8"	260 to 6300'

CASING	INTERVAL		CASING		
STRING TYPE	FROM	TO	SIZE	WEIGHT	GRADE
Surface Casing	0	260	8 5/8"	24 #/Ft	J-55
Production Casing	0	6300	5 1/2"	15.50#/Ft	K-55
	(All Casing will be new, ST&C)				

CEMENT PROGRAM

Surface	225 sacks Class "G" 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/6/10/94

BALCRON OIL CO.

Operator: BALCRON OIL	Well Name: Monument Fed. #21-25
Project ID:	Location: Uintah County, Utah

Design Parameters:

Mud weight (9.63 ppg) : 0.500 psi/ft
Shut in surface pressure : 2520 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	6,300	5-1/2"	15.50	K-55	ST&C	6,300	4.825	

	Collapse Load (psi)	Collapse Strgth (psi)	S.F.	Burst Load (psi)	Min Int Yield Strgth (psi)	S.F.	Tension Load (kips)	Tension Strgth (kips)	S.F.
1	3150	4040	1.283	3150	4810	1.53	97.65	222	2.27 J

Prepared by : McCoskery, Billings, MT
Date : 06-10-1994
Remarks :
Minimum segment length for the 6,300 foot well is 1,500 feet.
The mud gradient and bottom hole pressures (for burst) are 0.500 psi/ft and 3,150 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)

EXHIBIT E

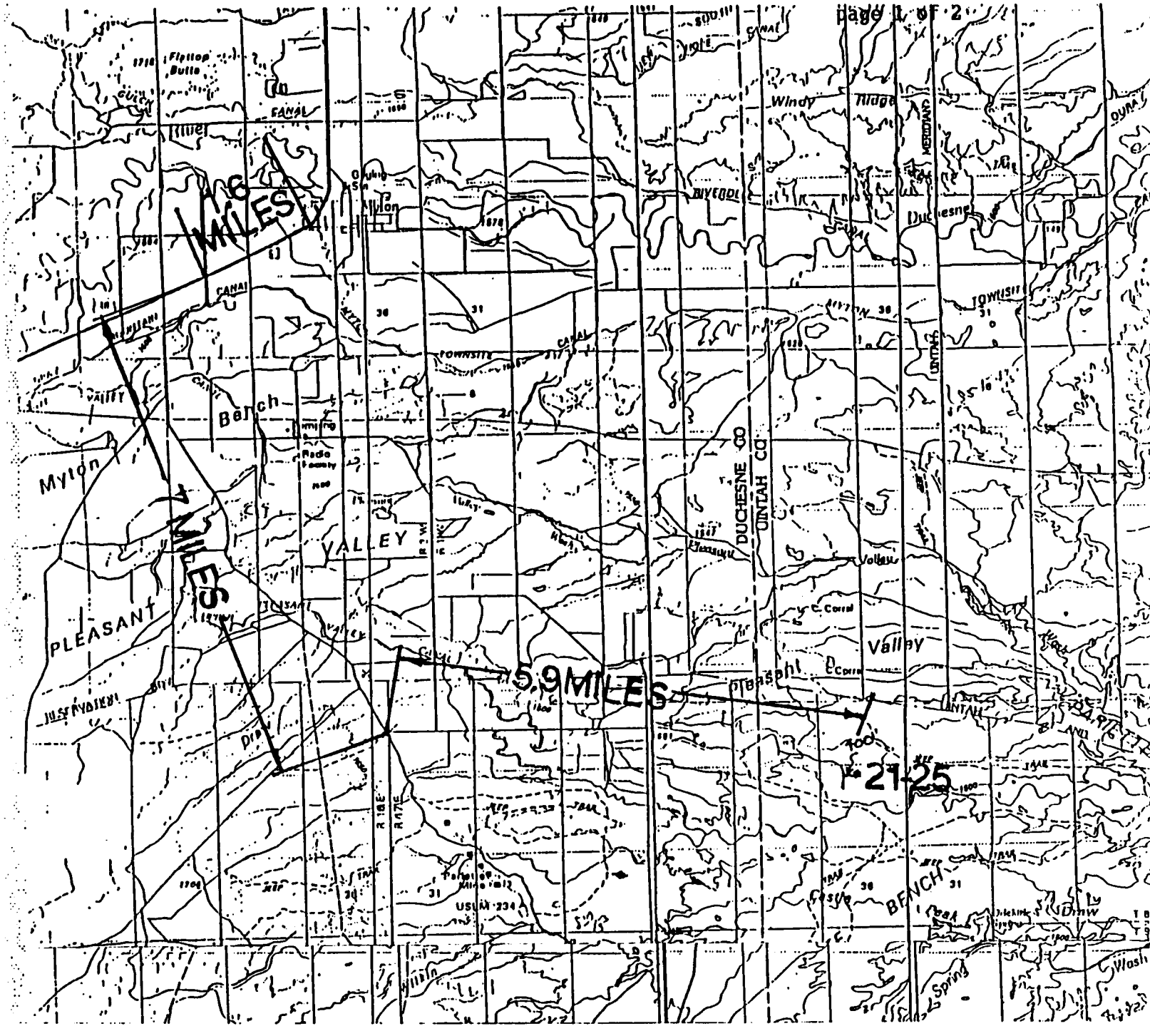
A. Hazardous chemicals 10,000 pounds of which will most likely be used, produced, stored, transported, or disposed of in association with the proposed action of drilling, completing and producing this well:

We anticipate that none of the hazardous chemicals in quantities of 10,000 pounds or more will be associated with these operations.

B. Extremely hazardous substances threshold quantities (per Howard Cleavinger 11/30/93) of which will be used, produced, stored, transported, or disposed of in association with the proposed action of drilling, completing and producing this well:

We anticipate that none of the extremely hazardous substances in threshold quantities per 40 CFR 355 will be associated with these operations.

12/1/93
Revised 12/7/93
/rs



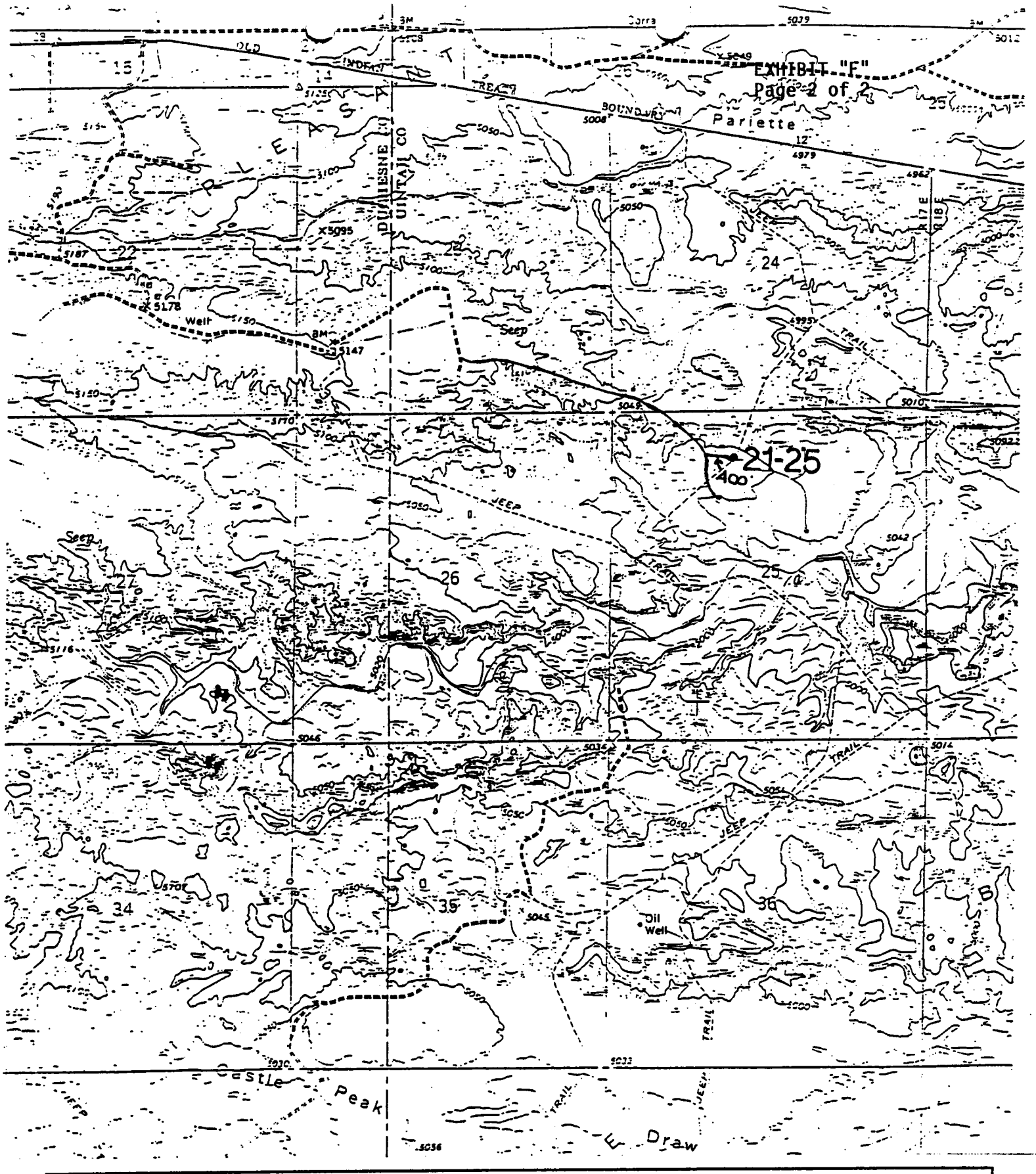
NORTH

EQUITABLE RESOURCES ENERGY CO.

MONUMENT FEDERAL #21-25

MAP "A"

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



NORTH

EQUITABLE RESOURCES ENERGY CO.

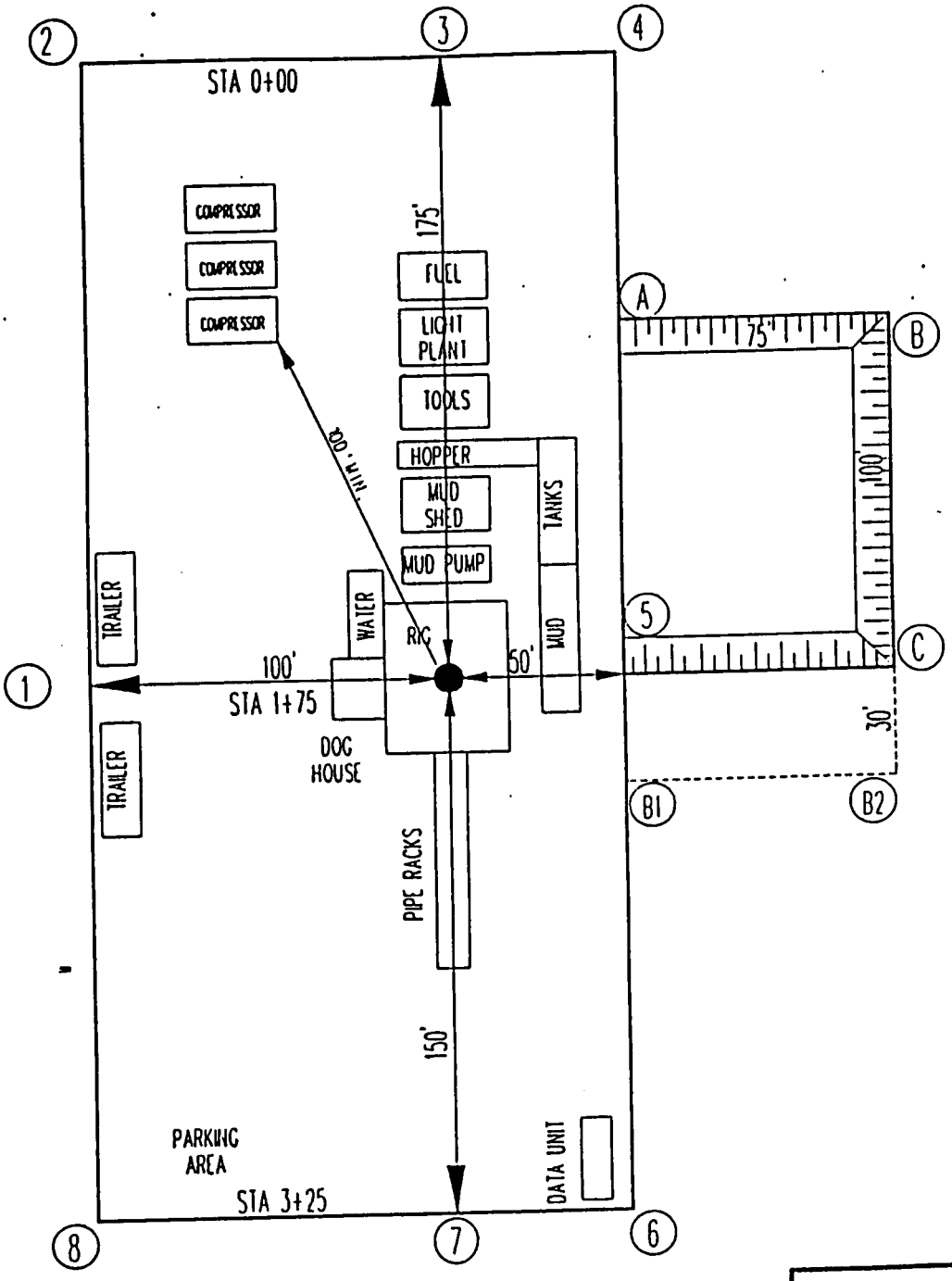
MONUMENT FEDERAL #21-25

MAP "B"

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

EQUITABLE RESOURCES ENERGY CO.

WELLSITE LAYOUT

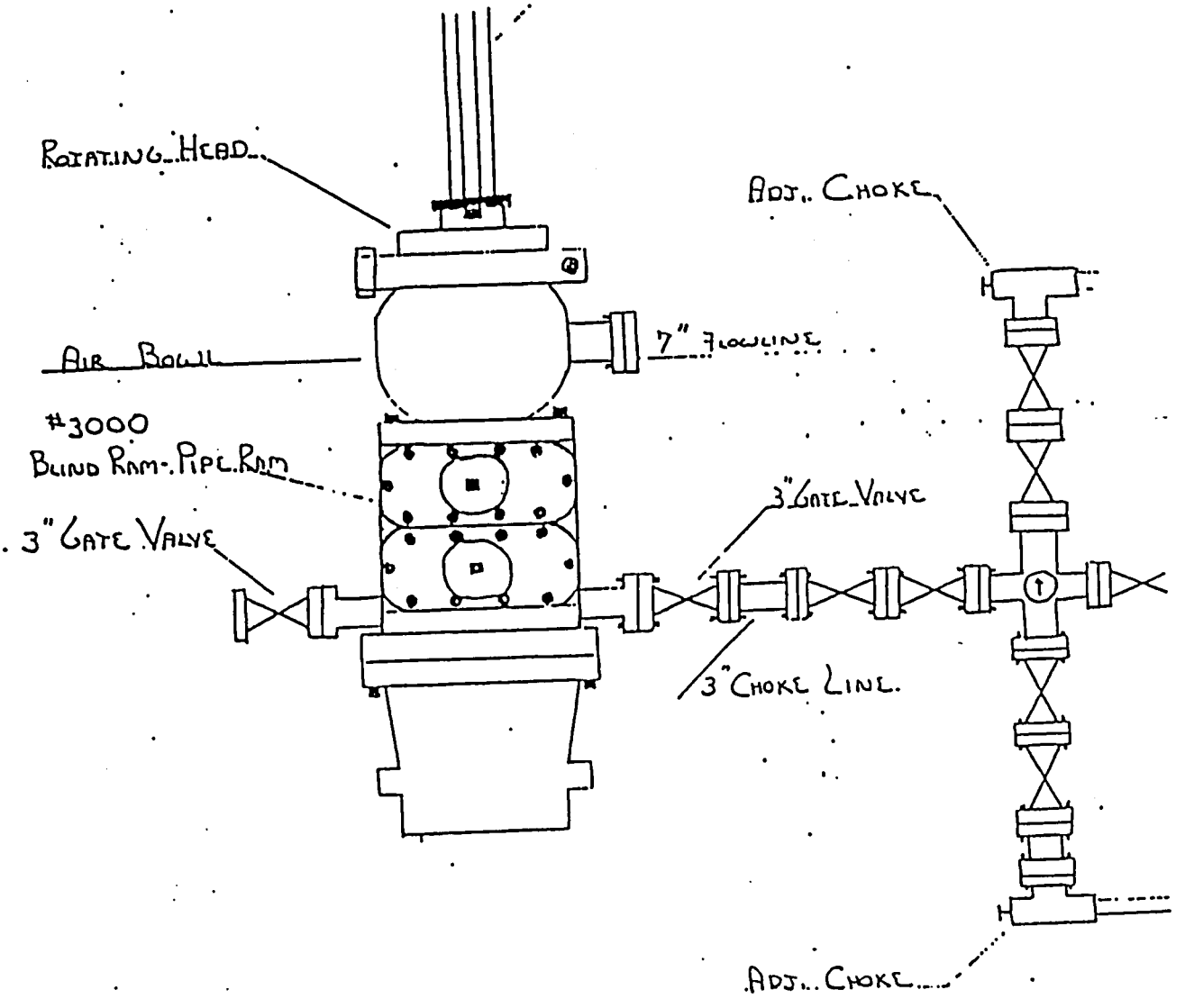


TRI-STATE
LAND SURVEYING, INC.
38 WEST 100 NORTH, VERNAL, UTAH 84078
801-781-2501

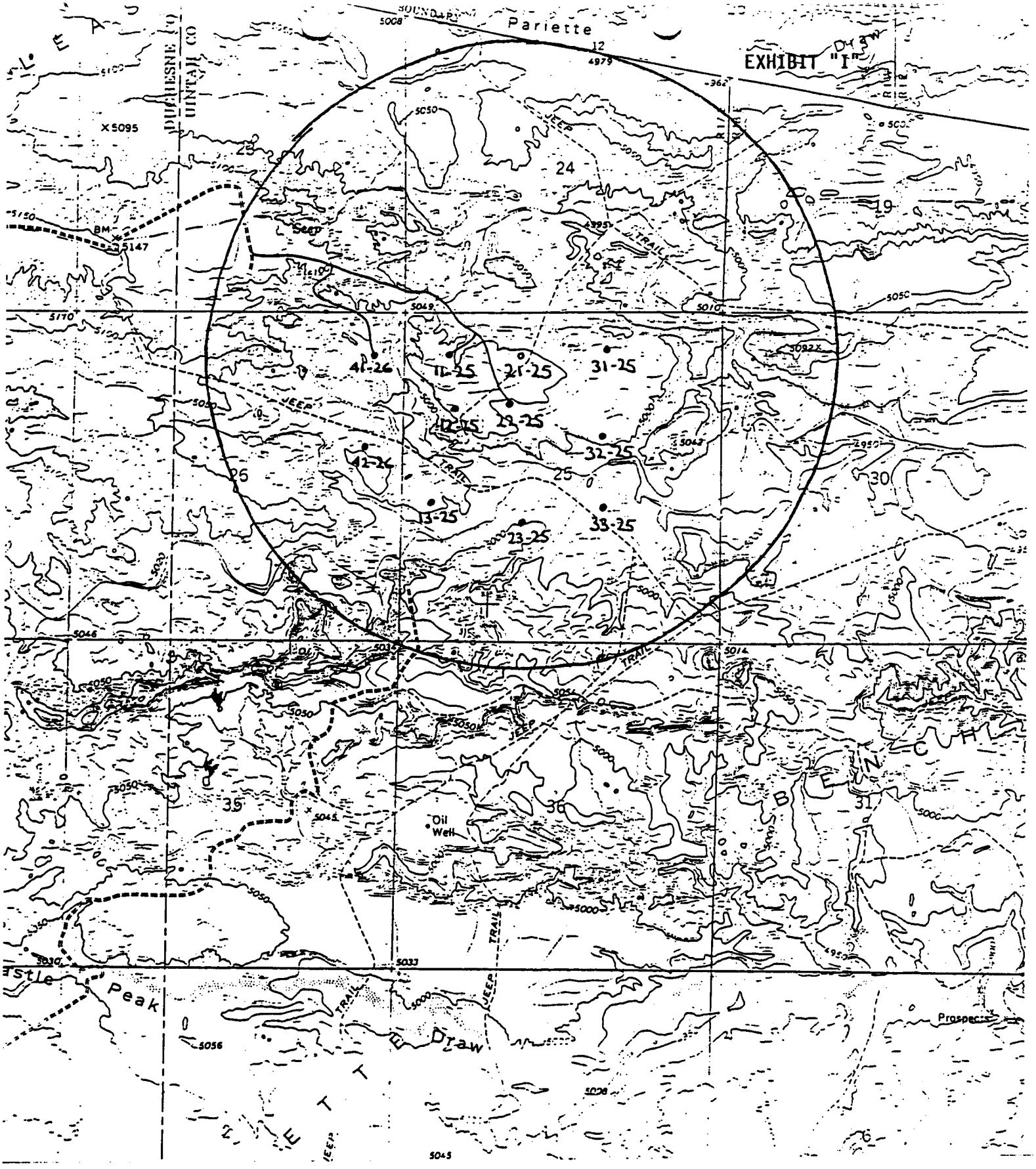
UNION DRILLING RIG #17

Hex Kelly –

EXHIBIT "H"



#3000 - Stack



EQUITABLE RESOURCES ENERGY CO.

MONUMENT FEDERAL #21-25

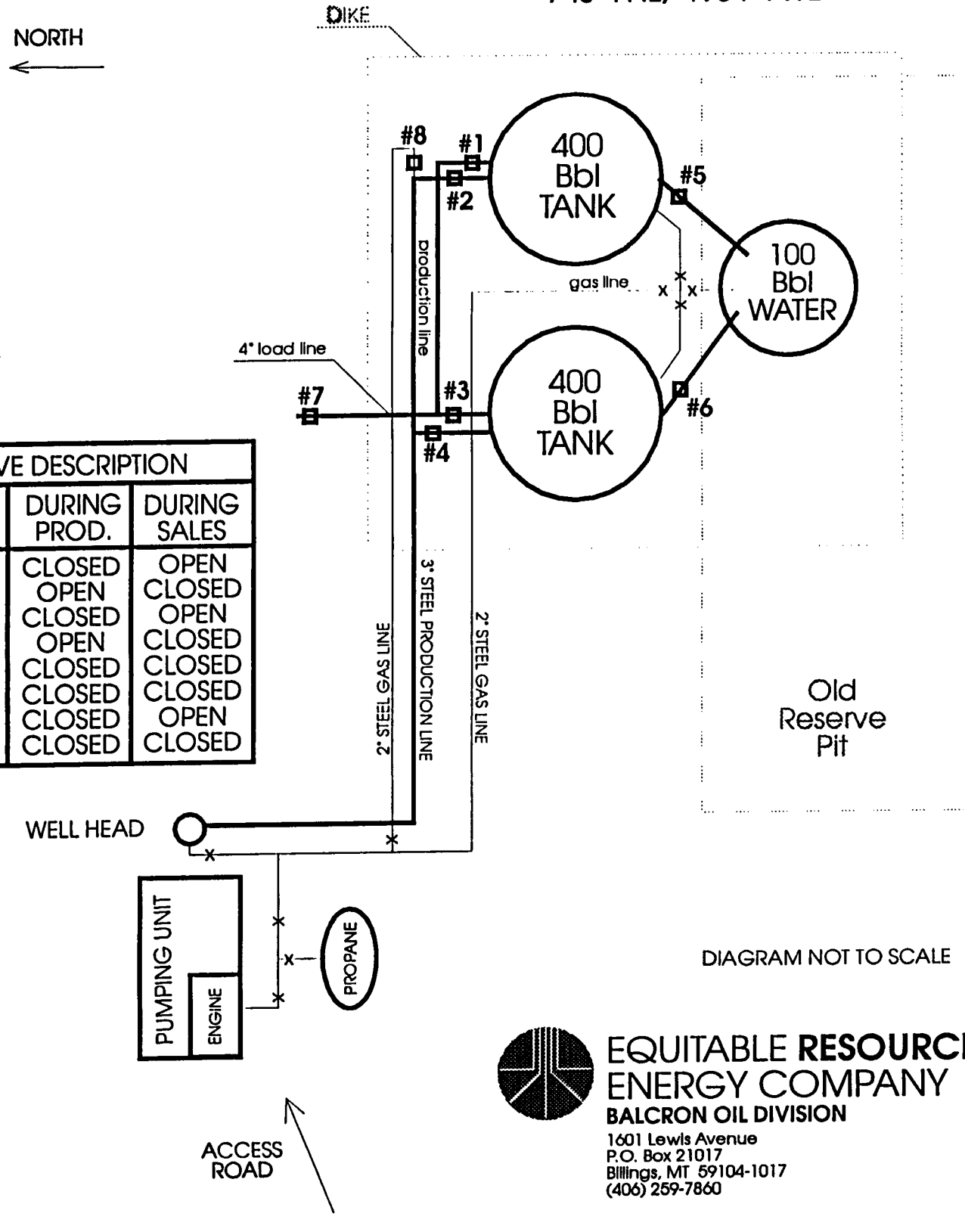
MAP "C"

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

EXHIBIT "J"

Equitable Resources Energy Company
Balcron Monument Federal 21-25
Proposed Production Facility Diagram

Balcron Monument Federal 21-25
NE NW Sec. 25, T8S, R17E
Uintah County, Utah
Federal Lease #U-67845
748' FNL, 1964' 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
VALVE #8	CLOSED	CLOSED

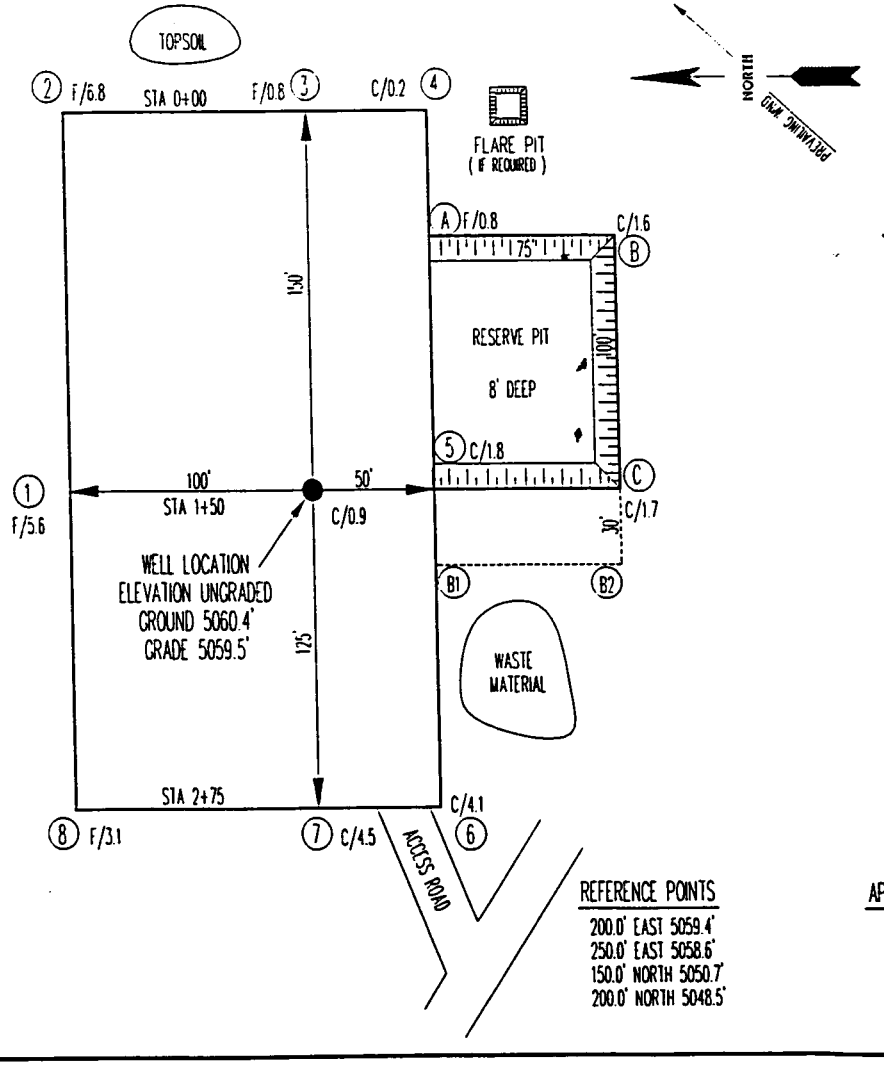
DIAGRAM NOT TO SCALE

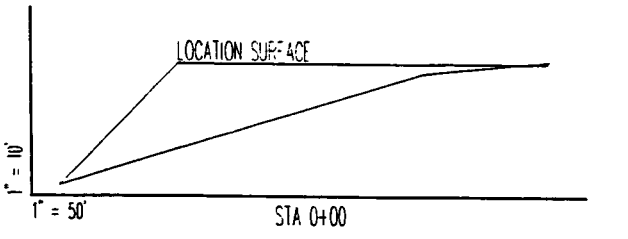
EQUITABLE **RESOURCES** ENERGY COMPANY
BALCRON OIL DIVISION
1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104-1017
(406) 259-7860

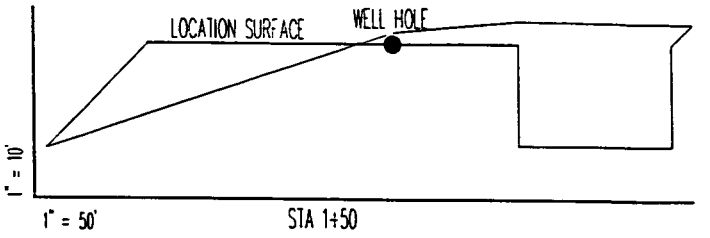
EXHIBIT "L"

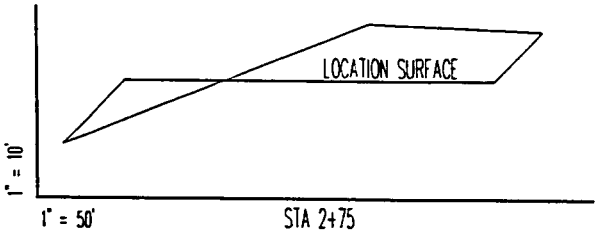
EQUITABLE RESOURCES ENERGY CO.

BALCRON MONUMENT FEDERAL #21-25









REFERENCE POINTS

200.0' EAST 5059.4'
250.0' EAST 5058.6'
150.0' NORTH 5050.7'
200.0' NORTH 5048.5'

APPROXIMATE YARDAGE

CUT = 2174 Cu Yds
FILL = 2132 Cu Yds
PIT = 2222.0' Cu Yds

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

FILENAME MF#21-25

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 06/14/94

API NO. ASSIGNED: 43-047-32528

WELL NAME: BALCRON MONUMENT FEDERAL 21-25
OPERATOR: EQUITABLE RESOURCES (N9890)

PROPOSED LOCATION:
NENW 25 - T08S - R17E
SURFACE: 0748-FNL-1964-FWL
BOTTOM: 0748-FNL-1964-FWL
UINTAH COUNTY
UNDESIGNATED FIELD (002)

LEASE TYPE: FED
LEASE NUMBER: U-67845

PROPOSED PRODUCING FORMATION: GRRV

INSPECT LOCATION BY: / /		
TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

RECEIVED AND/OR REVIEWED:

Y Plat
Y Bond: Federal[✓] State[] Fee[]
(Number 5547188)
N Potash (Y/N)
N Oil shale (Y/N)
Y Water permit
(Number 3rd PARTY SOURCE)
N RDCC Review (Y/N)
(Date:)

LOCATION AND SITING:

___ R649-2-3. Unit: _____

✓ R649-3-2. General.

___ R649-3-3. Exception.

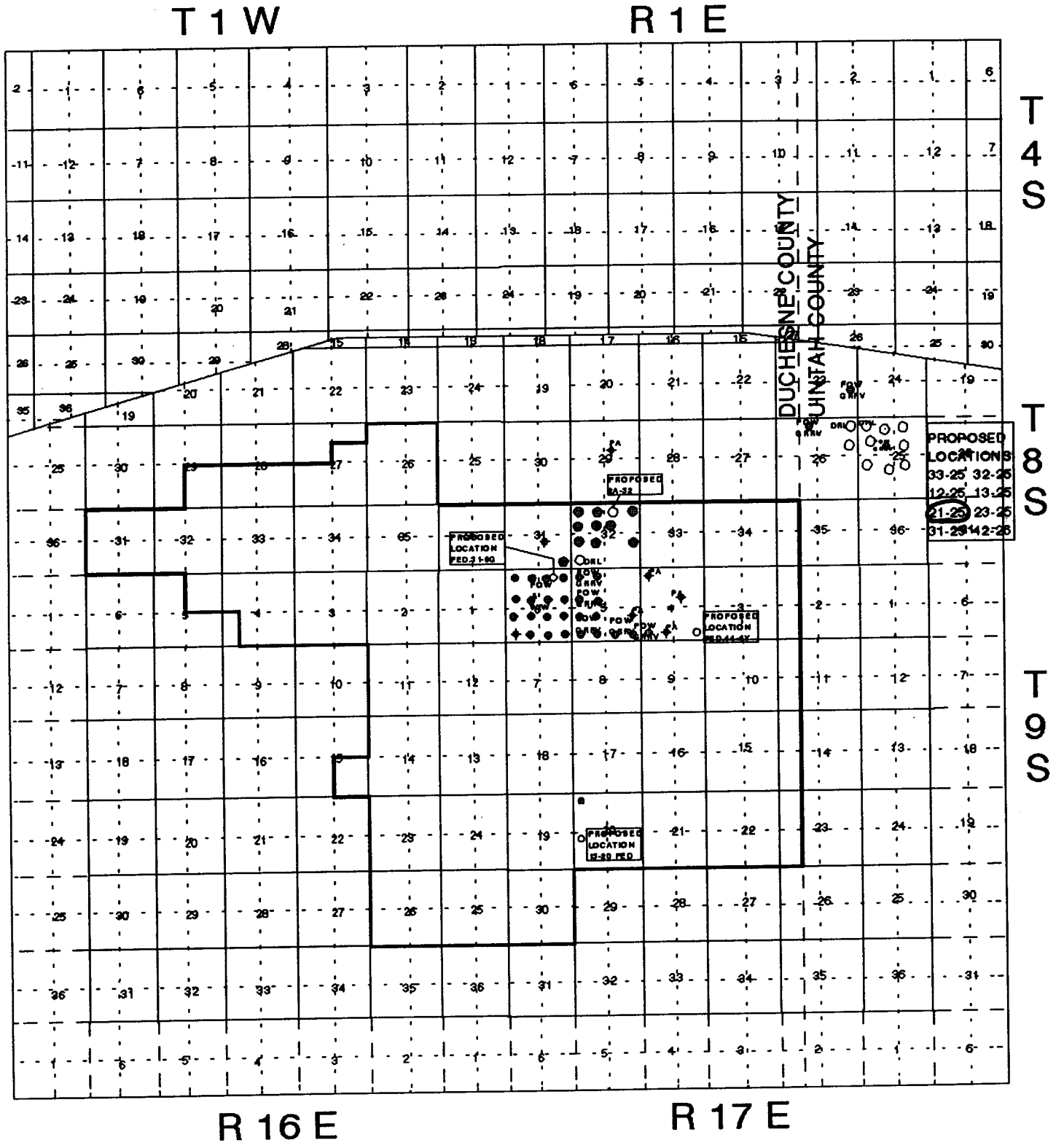
___ Drilling Unit.
Board Cause no: _____
Date: _____

COMMENTS: ✓WATER WELL OWNED BY OWEN ANDERSON

STIPULATIONS:

CONFIDENTIAL
PERIOD
EXPIRED
ON 12-28-95

MONUMENT BUTTE



DUCHESNE COUNTY

FIELD 105 ACTIVE

STATE OF UTAH

Operator: EQUITABLE RESOURCES	Well Name: BALCRON FED. #21-25
Project ID: 43-047-32528	Location: SEC. 25 - T08S - R17E

Design Parameters:

Mud weight (9.63 ppg) : 0.500 psi/ft
Shut in surface pressure : 2671 psi
Internal gradient (burst) : 0.076 psi/ft
Annular gradient (burst) : 0.000 psi/ft
Tensile load is determined using buoyed weight
Service rating is "Sweet"

Design Factors:

Collapse	: 1.125	
Burst	: 1.00	
8 Round	: 1.80	(J)
Buttress	: 1.60	(J)
Other	: 1.50	(J)
Body Yield	: 1.50	(B)

	Length (feet)	Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost
1	6,300	5.500	15.50	K-55	ST&C	6,300	4.825	

	Collapse Load (psi)	Collapse Strgth (psi)	S.F.	Burst Load (psi)	Min Int Yield Strgth (psi)	S.F.	Tension Load (kips)	Tension Strgth (kips)	S.F.
1	3150	4040	1.283	3150	4810	1.53	83.28	222	2.67 J

Prepared by : FRM, Salt Lake City, UT
Date : 08-23-1994
Remarks :

Minimum segment length for the 6,300 foot well is 1,000 feet.
SICP is based on the ideal gas law, a gas gravity of 0.79, and a mean gas temperature of 106°F (Surface 74°F , BHT 137°F & temp. gradient 1.000°/100 ft.)
The mud gradient and bottom hole pressures (for burst) are 0.500 psi/ft and 3,150 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 1987 pricing model. (Version 1.06)

EQUIPMENT INVENTORY
UTAH DIVISION OF OIL, GAS AND MINING
STATE OF UTAH

Operator: EQUITABLE RESOURCES Lease: State: ___ Federal: X Indian: ___ Fee: ___

Well Name: MONUMENT FED. #21-25 API Number: 43-047-32528

Section: 25 Township: 8S Range: 17E County: UINTAH Field: UNDESIGNATED

Well Status: POW Well Type: Oil: X Gas: _____

PRODUCTION LEASE EQUIPMENT: (NUMBER)

Boiler(s): ___ Compressor(s): ___ Separator(s): ___ Dehydrator(s): ___

Shed(s): ___ Line Heater(s): ___ Heated Separator(s): ___ VRU: ___

Heater Treater(s): 1

PUMPS:

Triplex: ___ Chemical: ___ Centrifugal: 1

LIFT METHOD:

Pumpjack: X Hydraulic: ___ Submersible: ___ Flowing: ___

GAS EQUIPMENT: (NUMBER)

Purchase Meter: 0 Sales Meter: 0

TANKS:	NUMBER	SIZE	
Oil Storage Tank(s):	2	400	BBLS
Water Tank(s):	1	100	BBLS
Power Water Tank:			BBLS
Condensate Tank(s):			BBLS
Propane Tank:	1		

Central Battery Location: (IF APPLICABLE)

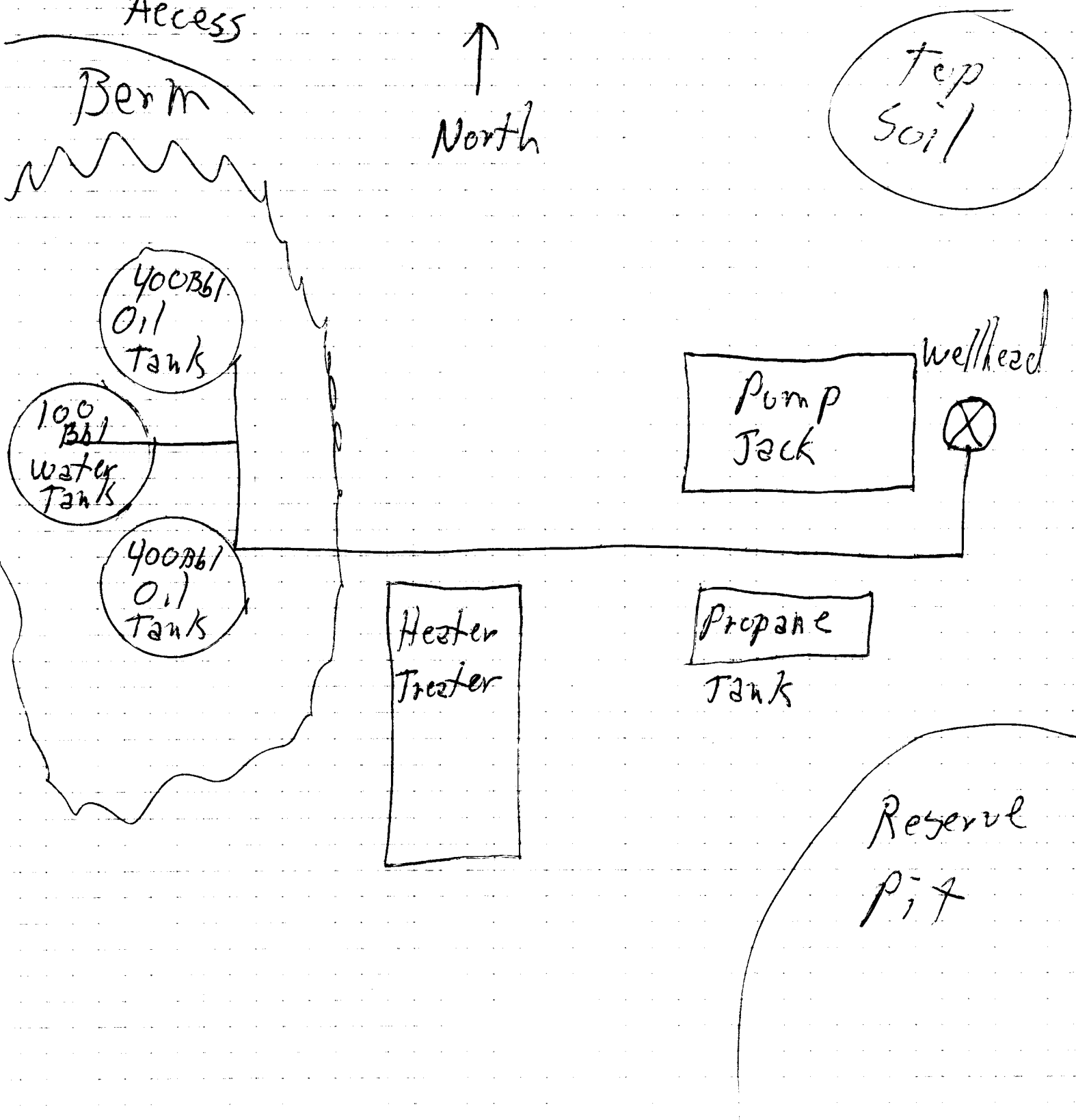
Qtr/Qtr: ___ Section: ___ Township: ___ Range: ___

REMARKS: RESERVE PIT OPEN WITH 75 BBLS. FLUID PRESENT.

Inspector: DAVID W. HACKFORD Date: 12/9/94

Equitable Resources 43-047-32528

Monument Fed. #21-25



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

July 11, 1994

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

BALCRON MONUMENT FEDERAL 21-25
Sec 25 T8S R17E
43-047-32528

Gentlemen:

Enclosed are paleontological reports for the proposed wells on the enclosed list. Please consider these as a supplement to the Applications for Permit to Drill which have been submitted.

The archeological surveys have been completed and the reports will be submitted as soon as they are received.

Sincerely,

Bobbie Schuman

Bobbie Schuman
Regulatory and Environmental Specialist

/hs

Enclosure

cc: Utah Division of Oil, Gas and Mining

Balcron Monument Federal #12-25
SW NW Section 25, T8S, R17E
1486' FNL, 875.7' FWL
Uintah County, Utah
Field: Undesignated
FLS #U-67845
PTD: 6,250'
GL 5062.1'

Balcron Monument Federal #13-25
NW SW Section 25, T8S, R17E
2253.6' FSL, 483.9' FWL
Uintah County, Utah
Field: Undesignated
FLS #U-67845
PTD: 6,200'
GL 4977.9'

Balcron Monument Federal #21-25
NE NW Section 25, T8S, R17E
747.6' FNL, 1963.6' FWL
Uintah County, Utah
Field: Undesignated
FLS #U-67845
PTD: 6,300'
GL 5060.4'

Balcron Monument Federal #23-25
NE SW Section 25, T8S, R17E
1926.8' FSL, 2138.6' FWL
Uintah County, Utah
Field: Undesignated
FLS #U-67845
PTD: 6,200'
GL 4991.9'

Balcron Monument Federal #31-25
NW NE Section 25, T8S, R17E
660' FNL, 1980' FEL
Uintah County, Utah
Field: Undesignated
FLS #U-67845
PTD: 6,300'
GL 5020.3'

Balcron Monument Federal #32-25
SW NE Section 25, T8S, R17E
1980' FNL, 1980' FEL
Uintah County, Utah
Field: Undesignated
FLS #U-67845
PTD: 6,250'
GL 5013.8'

Balcron Monument Federal #33-25
NW SE Section 25, T8S, R17E
2096.9' FSL, 2067.3' FEL
Uintah County, Utah
Field: Undesignated
FLS #U-67845
PTD: 6,150'
GL 4971.5'

Balcron Monument Federal #42-26
SE NE Section 26, T8S, R17E
2100' FNL, 660' FEL
Uintah County, Utah
Field: Undesignated
FLS #U-67845
PTD: 6,250'
GL 5036.7'

Balcron Monument Federal #41-26
NE NE Section 26, T8S, R17E
Uintah County, Utah
1051.4' FNL, 581.9' FEL
FLS #U-67845
PTD: 6,400'
GL 5,019.6'
FOOTAGES AND GL CHANGED PER BLM 6/6/94.

BALCRON OIL

Balcron Monument Federal #21-25

NE NW Section 25, T8S, R17E, SLB&M

Uintah County, Utah

PALEONTOLOGY REPORT

WELLPAD LOCATION AND ACCESS ROAD

BY

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

JUNE 30, 1994

RESULTS OF PALEONTOLOGY SURVEY AT BALCRON MONUMENT BUTTE FEDERAL #21-25
NE, NW Section 25, T8S, R17E, SLB&M, Uintah County, Utah.

Description of Geology and Topography-

This well is located 7 miles south and 5 miles east of Myton, Utah. It sits on the north side of the bench. The slope is to the north toward a small drainage and badlands area. Much of the wellpad area is covered with a thin sand with intermittent exposures of sandstone. Rock exposures at the northwest corner. The access road runs about 400 feet from an existing road to the west.

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

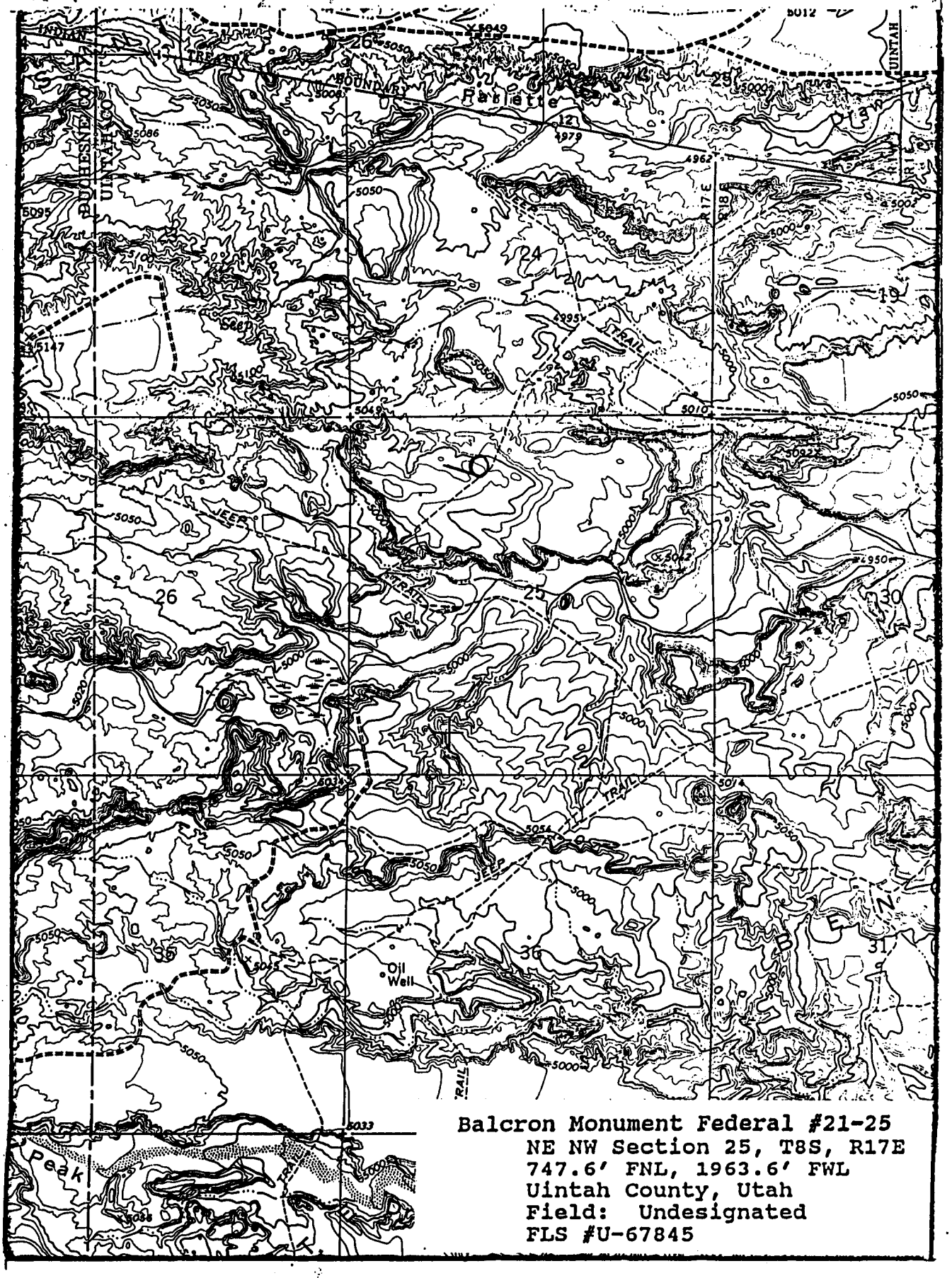
Paleontological material found -

No vertebrate fossils were found on the wellpad or access road.

Recommendations-

No other recommendations are made for this location.

Alden H. Hamblin Date July 1, 1994



Balcron Monument Federal #21-25
NE NW Section 25, T8S, R17E
747.6' FNL, 1963.6' FWL
Uintah County, Utah
Field: Undesignated
FLS #U-67845

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

August 11, 1994

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

BALCRON Monument Fed. 21-25
Sec 25 T8S R17E
43-047-32528

Gentlemen:

Enclosed is a sundry notice reporting an intended change in the cement program for the production casing (long-string) on the wells on the enclosed list. The wells have been broken down by three categories:

- wells on which we have approved APDs but have not yet drilled
- wells on which we do not yet have approved APDS but APDs have been submitted
- wells on which we have approved State APDs but not yet approved Federal APDs

Please consider this change in cement program as a part of our APDs.

Sincerely,

Bobbie Schuman

Bobbie Schuman
Regulatory and Environmental Specialist

/hs

Enclosures

cc: Utah Division of Oil, Gas and Mining
Al Plunkett

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.: See attached listing

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

7. If Unit or CA, Agreement Designation: See attached listing

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

8. Well Name and No.: See attached listing

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

9. API Well No.: See attached listing

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

10. Field and Pool, or Exploratory Area: See attached listing*

4. Location of Well (Footage, Sec., T., R., M., or Survey Description): See attached listing

11. County or Parish, State: See attached listing

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 cement program	[ ] 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.)*

*Formation (pool): Green River

Production cement program on wells on the attached listing will be changed as follows:

250 sacks Western Super "G" consisting of 47 #/sack "G", 20 #/sack Poz A, 17 #/sack CSE, 3% salt, 2% gel and 2 #/sack Hi-seal 2. (Yield = 2.76 Cu.Ft./Sk, Weight = 11.08 PPG). Tailed with 300 sacks 50-50 Poz with 2% Gel, 1/4 #/sack Cello-seal and 2 #/sack Hi-seal. (Yield = 1.24 Cu.Ft./Sk, Weight = 14.30 PPG).

a.) Actual cement volumes will be determined using caliper log.

b.) Cement top will be at approximate depth as specified in the Conditions of Approval in the Application for Permit to Drill.

The cement program is being changed to improve cement bond quality and improve compressive strength in the lead slurry.

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

Signed Bobbie Schuman Title Regulatory and Environmental Specialist Date 8-10-94

(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 Instructions on Reverse Side

Have approved APDs but not yet drilled (continued)

Balcron Monument Federal #43-15J
NE SE Section 15, T9S, R16E
Duchesne County, Utah
1777.9' FSL, 788.4' FEL
FLS #U-017985
Monument Butte Field
Jonah Unit
API #43-013-31423

Do not yet have approved APDs (but they have been submitted)

Balcron Monument Federal #12-25 43-047-32526
SW NW Section 25, T8S, R17E
1486' FNL, 875.7' FWL
Uintah County, Utah
Field: Undesignated
FLS #U-67845

Balcron Monument Federal #13-25 43-047-32527
NW SW Section 25, T8S, R17E
2253.6' FSL, 483.9' FWL
Uintah County, Utah
Field: Undesignated
FLS #U-67845

Balcron Monument Federal #21-25 43-047-32528
NE NW Section 25, T8S, R17E
747.6' FNL, 1963.6' FWL
Uintah County, Utah
Field: Undesignated
FLS #U-67845

Balcron Monument Federal #23-25 43-047-32529
NE SW Section 25, T8S, R17E
1926.8' FSL, 2138.6' FWL
Uintah County, Utah
Field: Undesignated
FLS #U-67845

Balcron Monument Federal #31-25 43-047-32530
NW NE Section 25, T8S, R17E
660' FNL, 1980' FEL
Uintah County, Utah
Field: Undesignated
FLS #U-67845

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)

August 23, 1994

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

Re: Balcron Monument Federal #21-25 Well, 748' FNL, 1964' FWL, NE NW, Sec. 25, T. 8 S., R. 17 E., Uintah County, Utah

Gentlemen:

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., the Oil and Gas Conservation General Rules.

2. Notification to the Division 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 K. Michael Hebertson, Reclamation Specialist, (Home) (801)269-9212.

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

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 43-047-32528.

Sincerely,

R.J. Firth
Associate Director

ldc
Enclosures
cc: Uintah County Assessor
Bureau of Land Management, Vernal District Office
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

CONFIDENTIAL

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: U-67845

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

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

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

7. UNIT AGREEMENT NAME: n/a

8. FARM OR LEASE NAME: Balcron Monument Federal

2. NAME OF OPERATOR: Equitable Resources Energy Company, Balcron Oil Division

9. WELL NO.: # 21-25

3. ADDRESS OF OPERATOR: P.O. Box 21017; Billings, MT 59104

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: NE NW Section 25, T8S, R17E 747.6' FNL, 1963.6' FWL
At proposed prod. zone

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 25 T8S, R17E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: Approximately 10 miles southeast of Myton, Utah

12. COUNTY OR PARISH: Uintah

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: 6,300'	20. ROTARY OR CABLE TOOLS: Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.): GL 5060.4'		22. APPROX. DATE WORK WILL START*: 8/1/94

23. PROPOSED CASING AND CEMENTING PROGRAM

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

RECEIVED
AUG 29
DIV. OF OIL, GAS & MINING

RECEIVED
JUN 15 1994

See attached for listing of exhibits.

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 Regulatory and Environmental Specialist DATE June 13, 1994

Bobbie Schuman

(This space for Federal or State office use)

PERMIT NO. 43-047-32528 APPROVAL DATE

APPROVED BY [illegible] TITLE ASSISTANT DISTRICT MANAGER MINERALS DATE 8-3-94

CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

Div OG&M

*See Instructions On Reverse Side

CONDITIONS OF APPROVAL
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Equitable Resources Energy Company

Well Name & Number: Balcron Federal 21-25

API Number: 43-047-32528

Lease Number: U-67845

Location: NENW Sec. 25 T. 8S R. 17E

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.

A. 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.

   If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2, regarding air or gas drilling shall be adhered to. If a mist system is being utilized then the requirement for a deduster shall be waived.

   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 ± 375 ft. or by setting the surface casing at ± 400 ft. and having a cement top for the production casing at least 200 ft. above the top of the Mahogany oil shale, identified at 3,144 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 ± 2,944 ft. if the surface casing is set at ± 400 or it will be run to ± 175 ft. if the surface casing is set at ± 260 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:

Ed Forsman Petroleum Engineer	(801) 789-7077
Wayne P. Bankert Petroleum Engineer	(801) 789-4170
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

The requested emergency pit is hereby approved under Onshore Order No. 7, subject to the following Conditions of Approval:

1. 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 as listed for the reserve pit under Point 9F 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.

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

Additional Surface Conditions of Approval

If paleontologic resources are found or uncovered during ground disturbing activities, Balcron will suspend all operations that would further disturb such materials and immediately contact the BLM Authorized Officer. Workers for Balcron or their contractors will not collect any paleontologic or archaeologic materials.

A complete copy of the approved APD and ROW grant, if applicable, shall be on location during construction of the location and drilling activities.

The operator or his/her contractor shall contact the BLM Office at (801) 789-1362 forty-eight (48) hours prior to construction activities.

The BLM Office shall be notified upon site completion prior to moving on the drilling rig.

10-25-94

RECEIVED
OCT 24
DIV. 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

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-67845
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
2. Name of Operator: EQUITABLE RESOURCES ENERGY COMPANY, BALCRON OIL DIVISION
3. Address and Telephone No.: P.O. Box 21017; Billings, MT 59104 (406) 259-7860
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
   SURFACE: NE NW Section 25, T8S, R17E
   TD: 747.6' FNL, 1963.6' FWL

8. Well Name and No.: Balcron Monument Federal #21-25
9. API Well No.: 43-047-32528
10. Field and Pool, or Exploratory Area: Undesignated / Green River
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 Report of Spud	[ ] 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 on 10-20-94 at 6 p.m.

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

Signed Molly Conrad Title Operations Secretary Date 10-21-94

(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

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM - FORM 6

OPERATOR Equitable Resources Energy Company
Balcron Oil Division

OPERATOR ACCT. NO. N 9890

ADDRESS P.O. Box 21017
Billings, MT 59104
(406) 259-7860

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE
A	99999	11683	43-047-32528	Balcron Monument Federal #21-25	NE NW	25	8S	17E	Duchesne	10-20-94	10-20-94

WELL 1 COMMENTS:
Spud of a new well. Entity added 10-26-94. Lee

WELL 2 COMMENTS:

WELL 3 COMMENTS:

WELL 4 COMMENTS:

WELL 5 COMMENTS:

ACTION 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)

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

(3/89)

RECEIVED
OCT 24
DIV. OF OIL, GAS & MINING

Molly Conrad
Signature
Operations Secretary
Title
10-21-94
Date
Phone No. (406) 259-7860

WELL REPORT

MONUMENT BUTTE
Balcron Oil 21–25 Federal
748' FNL, 1964' FWL, Sec. 25, T8S–R17E
Uintah County, Utah

By

DENNIS REHRIG & ASSOCIATES, INC.

Oil & Gas Consulting

4924 Rimrock Road
Billings, Montana 59106

(406) 656–4785

WELLSITE GEOLOGIST'S REPORT

MONUMENT BUTTE
Balcron Oil 21-25 Federal
748' FNL, 1964' FWL, Sec. 25, T8S-R17E
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Oil & Gas Exploration
4924 RIMROCK ROAD • BILLINGS, MONTANA 59106 • (406) 656-4785

MONUMENT BUTTE
Balcron Oil 21-25 Federal
748' FNL, 1964' FWL, Sec. 25, T8S-R17E
Uintah County, Utah

TABLE OF CONTENTS

By:
DENNIS C. REHRIG
Consulting Geologist
For:
DENNIS C. REHRIG & ASSOCIATES, INC.

Balcron Oil 21-25 Federal
748' FNL, 1964' FWL, Sec. 25, T8S-R17E
Uintah County, Utah

GENERAL REVIEW

The Balcron Oil 21-25 Federal NE¼NW¼, Sec. 25, T8S-R17E, Uintah County, Utah was drilled as a development-field extension well in the Monument Butte Field.

This well was supported by subsurface offset well control and drilled for identification of anticipated Douglas Creek and Wasatch Tongue oil sands and possible future water flood.

The surface hole was air drilled and surface casing was set by Rotary Rig No. 17 owned by Union Drilling Co. This well was spudded on October 20, 1994. A two-man mud logging unit and wellsite geologist were on site from 1700' to total depth. The Green River and Douglas Creek formations were penetrated at 1836' and 5102' making them respectively 13' low and 21' low structurally to the 1/4 mile offset Balcron Oil 11-25 Federal (NW¼NW¼, S-25, T8S-R17E) control well.

This well was drilled to 6300' (Driller) and 6304' (Logger).

Subsequent to log review the operator elected to run 5½" production casing in this well.

The rotary was released 10/30/94.

Respectfully submitted,

DENNIS C. REHRIG

Balcron Oil 21-25 Federal
748' FNL, 1964' FWL, Sec. 25, T8S-R17E
Uintah County, Utah

WELL DATA

OPERATOR:	Balcron Oil
LEASE & WELL NO.:	Federal 21-25
LOCATION:	748' FNL, 1964' FWL, Sec. 25, T8S-R17E
PROSPECT/FIELD:	Monument Butte
COUNTY:	Uintah
STATE:	Utah
BASIN:	Uintah
WELL TYPE:	Development - Field Extension
BASIS FOR PROSPECT:	Subsurface well control
ELEVATIONS:	G.L. 5060', K.B. 5070'
SPUD DATE:	6:30 PM (MDT) 10/20/94 (Rotary)
OUT FROM UNDER SURFACE CASING:	9:15 PM (MDT) 10/21/94
DRILLING COMPLETED:	12:00 Noon (MDT) 10/29/94
LOGGING COMPLETED:	10:00 PM (MDT) 10/29/94
RIG RELEASE:	5:00 PM (MST) 10/30/94
TOTAL DAYS SPUD THROUGH LOGGING:	10 days
TOTAL DEPTH:	6,300' (Driller) 6,304' (Logger)
TOTAL DRILLING DAYS:	10 days

HOLE SIZE & CASING:	Hole Size	Casing Size
	12¼" Surface to 414'	8⅝" surface to 399' K.B.
	7⅞" 414' to T.D.	5½" production casing to 6290' KB.
WELL STATUS:	Cased for completion attempt in Wasatch and Douglas Creek zones.	
PENETRATION:	374' below Carbonate Marker	
COMPANY DRILLING CONSULTANT:	Al Plunkett	
DRILLING CONTRACTOR:	Union Drilling Co.	
RIG NO.:	17	
TOOLPUSHER:	Dave Gray	
RIG SPECIFICATIONS:	Draw Works – Cabot–Franks, powered by one D–343 Diesel Cat Derrick – Cabot–Franks 97' mast.	
BLOW OUT PREVENTER:	Make: Cameron. Type: 10" x 5000 lbs. Drill Pipe: Size: 4½" OD, 2¼" ID, Thread: XH. BHA: Length 600'. Tool joints: 6¼" OD, Type – XH.	
MUD PUMP:	No. 1 – Gardiner–Denver FXN, 14" Stroke, 5½" liner.	
MUD COMPANY:	Anchor Drilling Fluids, Inc. Operator bought products and drilling contractor mixed as needed.	
MUD PROGRAM:	Air/Foam – Surface to 4362' KCl/Water 4362' – Total Depth	
ELECTRIC OPEN–HOLE LOGGING PROGRAM:	Schlumberger Well Services Engineer: Gorge Tracy Witnessed by: Dennis Rehrig and Al Plunkett – Dual Laterolog w/Caliper, Gamma Ray, SP, and Tension Curve (400'–6289') – Compensated Neutron/Litho–Density with Caliper, Gamma Ray & Tension Curve (2800'–6271')	
LOST CIRCULATION ZONE OR DRILLING PROBLEMS:	None observed.	
WELLSITE GEOLOGIST:	Dennis C. Rehrig	

SAMPLING PROGRAM:	50' Samples from 1,700'–4,362'. 20' Samples from 4,362'–Total Depth, except caught extra samples through drilling breaks and/or mudlog shows, as necessary.
SAMPLE QUALITY:	Generally fair unless noted otherwise.
SAMPLE DISPOSITION:	Utah Geological Survey – Salt Lake City, Utah
MUD LOGGING EQUIPMENT:	Monaco Logging Co. – two man unit Dudley Deardorff and Mark Hoffman.
CORE PROGRAM:	None.
DRILLSTEM TEST:	None.
SURFACE CASING:	8⅝" Maverick, 24 wt, J–55, 10 jts. Surface – 399' K.B. Surface hole drilled and casing set by rotary rig. Details of cement job unknown.
PRODUCTION CASING:	149' jts, 5½", 15.50 wt, J–55, to 6290' KB, cemented w/190 sxs Lite and 535 sxs 50–50 POZ w/Western. Plug down at 1:00 p.m. 10/30/94.

Balcron Oil 21-25 Federal
748' FNL, 1964' FWL, Sec. 25, T8S-R17E
Uintah County, Utah

DAILY DRILLING HISTORY

Daily drilling reports taken primarily from Rig Tower Sheets and supplemented by Drilling Supervisor.
Day commenced at 6:00 AM (MDT) day of prior day of report and ends at 6:00 AM (MDT) day of report.

					Activity (hrs)							
Days Since Spud	1994 Date	Depth	Ftg in Last 24 Hrs	Drlg	Maint. and Repairs	Other	Bit No.	W O B (M)	RPM	PP	Activity
1	10/21	380'	380'	10.00	0	14.00	2	4-6	20-25	180	Finish rigging down, move rig, RU, RU rathole digger and drill rathole, change bit, drilling 17" and set 13⅜" conductor, drilling 12¼" hole, RU air bowl and flow line, drilling 12¼" hole, check DP.
2	10/22	832'	452'	7.75	1.00	15.25	3	38	65	200	Drilling 12¼" hole, clean hole with air and foam, TOH, nipple down, get ready to run 8⅝" casing and weld head on, NU BOP and test BOP, test upper kelly, floor valve, blind and pipe rams and choke manifold to 2000' psi, test casing to 1500 psi, TIH w/DC and blow H_2O, drilling cement, survey, drilling 7⅞" hole, change over to DP, drilling, change airhead rubber, drilling.
3	10/23	2132'	1300'	22.25	0.75	1.00	3	40	60	240	Drilling, survey, service rig and air, check rams, drilling, survey, service rig and air, drilling, survey, service rig and air, drilling.
4	10/24	3280'	1148'	22.25	1.00	0.75	3	40	65	250	Drilling, survey, service rig and air, drilling, service rig and air, drilling, survey, service rig and air, drilling.

Days Since Spud	1994 Date	Depth	Ftg in Last 24 Hrs	Activity (hrs) Drlg	Maint. and Repairs	Other	Bit No.	W O B (M)	RPM	PP	Activity
5	10/25	4345'	1065'	23.00	0.25	0.75	3	40	65	260/270	Drilling, survey, service rig, check rams, drilling, survey, drilling.
6	10/26	4780'	435'	16.00	0.25	7.75	4	43	65	900	Circ hole on air, load hole and circ, TOH, check rams, TIH, load hole, drilling, survey, service rig and pumps, drilling.
7	10/27	5166'	386'	15.25	0.50	8.25	4	43	65	925	Drilling, service rig, check rams, drilling, survey, service rig pumps, drilling, lost pump pressure, TOH look for washout, didn't find washout, TIH, drilling.
8	10/28	5720'	554'	21.50	1.75	0.75	4	43	65	950	Drilling, service rig and check rams, drilling, service rig and pumps, drilling, survey, service rig and pumps, work on mud pump, drilling.
9	10/29	6210'	490'	23.50	0.25	0.25	4	43	65	975	Drilling, service rig, check rams, drilling.
10	10/30	6300'	90'	6.00	0	18.00	4	43	65	975	Drilling, sweep hole and circ, TOH for E–logs, RU loggers and log, RD loggers, TIH with DC and DP and lay down same, RU to run 5½" production casing.
11	10/31	6300'	0	0	0	11.00	–	–	–	–	Run 5½" casing and cement same, WOC, released rig.

Balcron Oil 21-25 Federal
748' FNL, 1964' FWL, Sec. 25, T8S-R17E
Uintah County, Utah

SURVEYS VERTICAL HOLE

Drilling Depth	Degrees
408'	¾°
967'	1°
1520'	1°
2020'	¾°
2527'	1¼°
3020'	2¼°
3520'	1¾°
4020'	1¾°
4577'	1¼°
5108'	1¾°
5608'	1¼°

Balcron Oil 21-25 Federal
748' FNL, 1964' FWL, Sec. 25, T8S-R17E
Uintah County, Utah

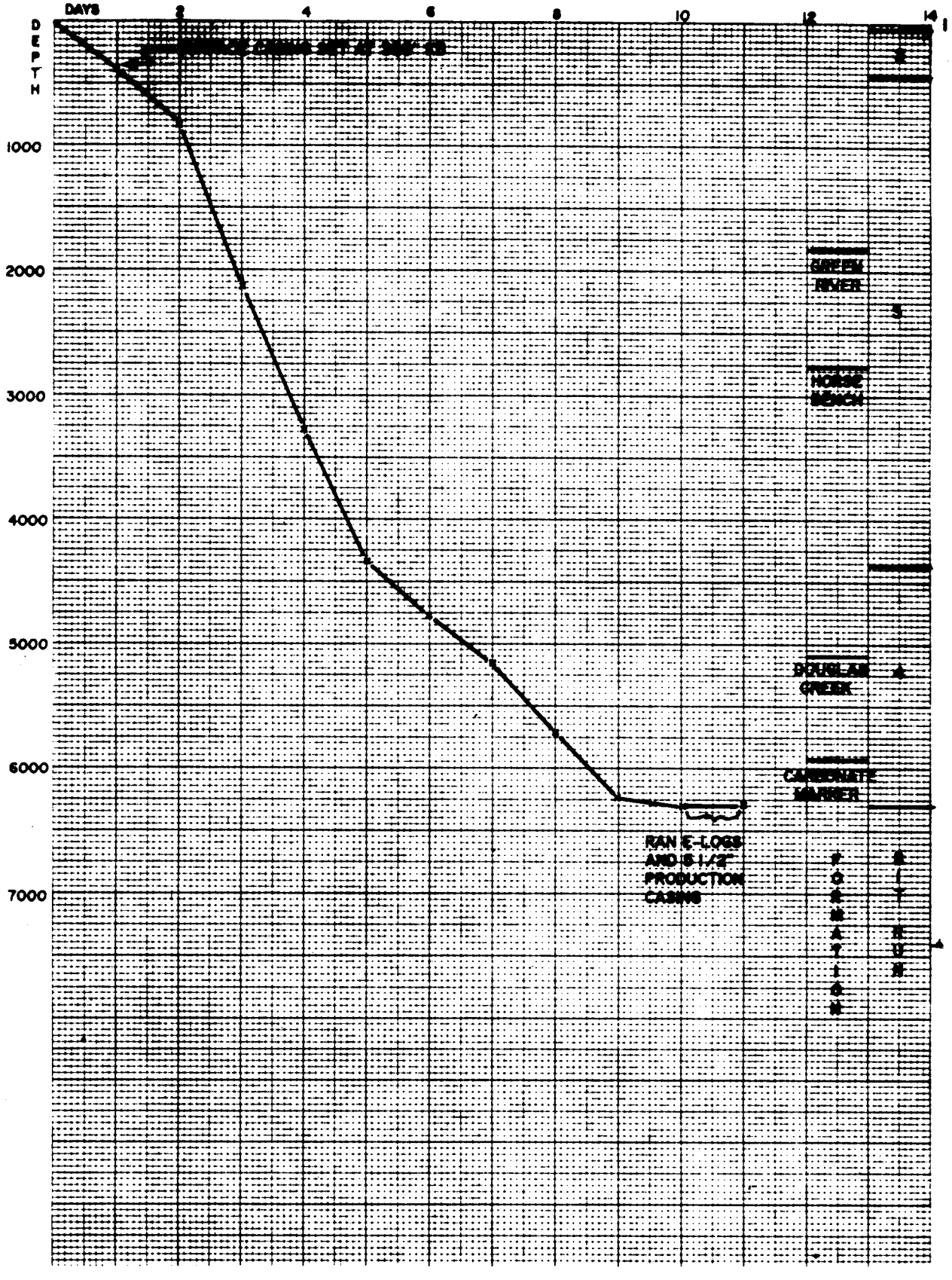
BIT RECORD

Contractor: Union Drilling Co. **Operator:** Balcron Oil **Lease:** Federal **State:** Utah **County:** Uintah **Sec/T-ship/Range:** NENW Sec. 25, T8S-R17E	**Rig No.** 17 **Field:** Monument Butte **Well No.** 21-25	**Rig Make:** Cabot-Franks **Derrick:** Cabot-Franks 97' mast **Pump #1:** Gardiner-Denver FXN Liner 5½" x 14" Stroke	**Collars: ODxIDxLength BHA** 6" x 2½" x 600' **Drill Pipe-Size** 4½" **Tool Joint:** 6¼"	**SPUD (Rotary)** 10/20/94 **Under Surface** 10/21/94 **Total Depth** 10/29/94 **Total Days Drilling** 10	**Toolpusher:** Dave Gray **Day Driller:** Wm. Satterfield **Evening Driller:** Rod Rasmussen **Morning Driller:** Greg Ferguson **Relief Driller:** Chris Chapman **Operators Representative:** Al Plunkett **Mud Type:** Air/Foam 0' to 4362' KCl/Water 4362' to TD

Bit No	Bit Size	Bit Type	Bit Mfg	Serial No of Bit	Jet Size	Depth Out	Ftge	Hours Run	Acc Hours	Ft/Hr	Weight 1000 #	Rotary RPM	Vert. Dev.	Air or Pump Press	% of bit life used	Remarks
1	17"	IR	FB	N/A	-Open-	24	14	1	13	14	4/5	15/25		150	60%	WRR
2	12¼"	IR	FB	N/A	-Open-	414	390	7.5	11.5	52	8/12	15/25	¼°	150/180	60%	WRR
3	7⅞"	SEC	S88CFH	39462	24 24 24	4362	3948	57	57	69	All/43	55/60	1¾°	180/260	All	Junk
4	7⅞"	STC	F4H	LB1262	11 11 11	6300'	1938	73.5	73.5	26	43	60/65		900/950	All	Junk

BALCRON OIL 21-25 FEDERAL
745' FNL 1964' FWL, SECTION 25, T 8 S-R 17 E
UINTAH COUNTY, UTAH

TIME/DEPTH PENETRATION CURVE



Balcron Oil 21-25 Federal
748' FNL, 1964' FWL, Sec. 25, T8S-R17E
Uintah County, Utah

FORMATION TOPS

ELEVATIONS: G.L. 5060', K.B. 5070'

FORMATION	E-Log Top	Subsea Datum	Structural Relationship To Reference Well *
Green River	1836'	(+3234')	13' Lo
Horsebench Sand	2373'	(+2297')	26' Lo
2nd Garden Gulch	4321'	(+ 749')	14' Lo
Yellow Marker	4931'	(+ 139')	19' Lo
Douglas Creek	5102'	(- 32')	21' Lo
2nd Douglas Creek Mkr	4368'	(- 298')	25' Lo
Green Marker	5531'	(- 461')	30' Lo
Carbonate Marker	5930'	(- 860')	15' Lo
Uteland Butte LS	NDE		
TOTAL DEPTH:	6304' Logger		

* Reference Well:

Balcron Oil 11-25 Federal
NW¼NW¼ Sec. 25, T8S-R17E
Uintah County, Utah

Note: Correlations and nomenclature that provided and used by operator.

Balcron Oil 21–25 Federal
748' FNL, 1964' FWL, Sec. 25, T8S–R17E
Uintah County, Utah

REFERENCE WELL E–LOG FORMATION BOREHOLE AND SUBSEA DATUMS

Balcron Oil
11–25 Federal
NW¼NW¼ Sec. 25, T8S–R17E
Uintah County, Utah

K.B. 5069

Formation		
Green River	1822'	(+3247')
Horsebench	2746'	(+2323')
2nd Garden Gulch	4306'	(+ 763')
Yellow Marker	4911'	(+ 158')
Douglas Creek	5080'	(– 11')
2nd Douglas Creek Mkr	5342'	(– 273')
Green Marker	5500'	(– 431')
Carbonate Marker	5944'	(– 875')
Uteland Butte LS	6343'	(–1274')
TOTAL DEPTH	6457' (Logger)	

NOTE: Correlations and nomenclature that provided and used by operator.

Balcron Oil 21-25 Federal
748' FNL, 1964' FWL, Sec. 25, T8S-R17E
Uintah County, Utah

SIGNIFICANT GAS KICKS

Information from Mud Logger

Formation	Sample Depth	Time (Before-During-After) Min/Ft	Total Gas (Before-During-After)
Douglas Creek	5304'-5318'	1.5 - 0.5 - 1.5	60 - 1000+ - 400
Carbonate Marker	5988'-5998'	2.5 - 1.0 - 3.5	80 - 800 - 80
Carbonate Marker	6148'-6172'	4.0 - 1.5 - 4.0	40 - 550 - 30
Carbonate Marker	6256'-6272'	3.5 - 1.5 - 4.0	30 - 250 - 20

POTENTIAL SANDSTONE ZONES

Provided by Wellsite Geologist

E-Log Depth (Compensated Neutron - Litho Density Log)

4383'-4393'
*5308'-5223'
*5328'-5346'
5992'-6002'
6154'-6176'
6262'-6271'

*Probably best zones below Douglas Creek

Balcron Oil 21-25 Federal
748' FNL, 1964' FWL, Sec. 25, T8S-R17E
Uintah County, Utah

SAMPLE DESCRIPTIONS

By: Dennis C. Rehrig

All samples caught by Mud Loggers and lagged from 4362' to Total Depth. Samples were examined wet, under reflected light and 3x magnification from 1700' to total depth, for porosity identification samples were dried. Sample descriptions generally tie well to drill time log. Sample quality was fair unless stated otherwise in descriptions. All sample descriptions are interpretive and not tied to E-logs.

1700-50 Sandstone - fine-very fine grained, milky-frequently clear, moderately unconsolidated-commonly friable, slightly-moderately calcareous, slightly argillaceous, occasionally glauconitic, lithic fragments and Mica, probably good intergranular porosity, NSFOC, sub-angular, moderately well sorted.

Some Shale, light gray-cream, moderately soft, slightly-moderately calcareous, slightly carbonaceous in part.

1750-1800 Sandstone - very fine-occasionally fine grained commonly ranging to Siltstone - as above.

Shale - light gray-cream, frequently medium gray, frequently slightly silty, slightly-moderately calcareous, slightly carbonaceous in part, sub-blocky in part, trace Pyrite.

1800-50 Shale - light-medium gray-cream, slightly-moderately carbonaceous, slightly-moderately calcareous, moderately firm-moderately soft in part, frequently pyritic, occasionally silty.

Sandstone - very fine grained ranging to Siltstone, occasionally fine-medium grading, moderately calcareous, moderately argillaceous, moderately-poorly sorted, sub-angular, generally no apparent porosity, frequently pyritic, NSFOC.

Some Dolomite–Argillaceous Dolomite – tan, occasionally orangish tan, microcrystalline–cryptocrystalline, moderately firm, slightly carbonaceous, dense.

1850–1900 Limy Dolomite–Argillaceous Dolomite – tan–medium brown, trace orangish brown, cryptocrystalline, firm–moderately firm, dense, frequently pyritic.

Shale – light–medium gray–tannish gray, silty in part, slightly–moderately calcareous, slightly carbonaceous, frequently pyritic.

1900–15 Sandstone – fine–very fine grained ranging to Siltstone – milky–clear, moderately unconsolidated–slightly friable in part, slightly calcareous, slightly argillaceous, sub–angular, moderately well sorted, some fair–good intergranular porosity, NSFOC.

Some Shale – as above.

Some Dolomite–Limy Dolomite – tan–medium brown–mahogany, cryptocrystalline, moderately firm, dense, frequently specks dark brown carbonaceous material and specks of Pyrite.

1915–50 Dolomite–Limy Dolomite – as above.

Some Sandstone ranging to Siltstone and Shale – as above.

1950–2000 Sandstone – very fine–fine grained ranging to Siltstone – milky–light gray, frequently mottled with medium brown carbonaceous material, slightly–moderately calcareous, moderately carbonaceous in part, moderately–poorly sorted, slightly–moderately argillaceous, sub–angular, moderately well consolidated–slightly friable in part, abundant Pyrite, generally no apparent porosity, NSFOC.

Shale – light–medium gray occasionally cream, generally mottled with medium brown carbonaceous material, silty in part, slightly–moderately calcareous, moderately soft, abundant Pyrite, moderately carbonaceous material.

2000–50 Dolomite–Limy Dolomite – as above.

Shale – as above.

2050–2200	Dolomite–Limy Dolomite – tan–medium brown–mahogany, cryptocrystalline–microcrystalline, slightly argillaceous in part, moderately firm–moderately soft, dense, some carbonaceous material, frequently pyritic.
	Frequently clear Spar Calcite.
2200–2300	Dolomite–Limy Dolomite – tan–medium brown, frequently mahogany, microcrystalline–cryptocrystalline, slightly argillaceous in part, slightly–moderately carbonaceous, dense, commonly clear Spar Calcite, frequently pyritic.
2300–50	Dolomite–Limy Dolomite – mahogany to medium brown–tan, light–medium grayish tan in part, microcrystalline–cryptocrystalline, moderately firm, slightly argillaceous in part, dense, frequently pyritic, frequently clear Spar Calcite, slightly–moderately carbonaceous.
2350–2450	Dolomite–Limy Dolomite – tan–cream–medium brown, occasionally mahogany, microcrystalline, moderately firm–moderately soft, dense, slightly–moderately carbonaceous, frequently pyritic, some Spar Calcite, slightly siliceous in part, slightly argillaceous in part.
2450–2500	Dolomite–Limy Dolomite – medium brown to mahogany–tan, microcrystalline, moderately firm–occasionally moderately soft, slightly–moderately carbonaceous, dense, commonly Spar Calcite, commonly pyritic.
2500–2650	Dolomite–Limy Dolomite – medium–dark brown, occasionally mahogany, microcrystalline, frequently clear–amber Spar Calcite, moderately firm–moderately soft, moderately carbonaceous, dense, some Pyrite.
2650–2700	Dolomite–Limy Dolomite – medium–dark brown–occasionally tan, microcrystalline–occasionally cryptocrystalline, slightly–moderately carbonaceous, moderately firm, brittle in part, dense, Spar Calcite, frequently pyritic, commonly clear–amber.
2700–50	Limy Dolomite–Dolomite – tan–medium to dark brown, microcrystalline, moderately firm, brittle in part, slightly–moderately carbonaceous, dense, frequently pyritic.
	Trace Limestone – buff, microcrystalline, soft, slightly argillaceous, slightly carbonaceous in part.

2750–2800	Limy Dolomite–Dolomite – tan–light to medium brown, occasionally dark brown–buff–mahogany, microcrystalline–cryptocrystalline, moderately firm–moderately soft, slightly–moderately carbonaceous, slightly argillaceous in part, commonly pyritic, some amber siliceous material, some clear–milky Spar Calcite.
2800–50	Limy Dolomite – cream–light grayish cream, microcrystalline–cryptocrystalline, moderately firm–moderately soft, dense, occasionally pyritic.
2850–2900	Limy Dolomite – as above, some medium to dark brown–mahogany color.
2900–50	Dolomite–Limy Dolomite – tan, medium to dark brown, frequently cream–mahogany, microcrystalline–occasionally cryptocrystalline, moderately firm–frequently moderately soft, commonly brittle, commonly slightly–moderately carbonaceous, occasionally highly carbonaceous, occasionally siliceous, frequently pyritic, some clear–amber Spar Calcite, dense.
2950–3000	Limestone–Dolomitic Limestone – medium brown–tan, occasionally dark brown–slightly black, microcrystalline–cryptocrystalline, moderately firm–moderately soft, generally slightly–moderately carbonaceous, occasionally highly carbonaceous–slightly petroliferous, generally dense, trace dark brown–slightly black oil stain, fair intercrystalline porosity, no fluorescence, fair–good dull yellow flash–streaming cut.
3000–50	Limy Dolomite–Dolomite – tan–medium brown to frequently dark grayish brown, microcrystalline, moderately firm–frequently moderately soft, generally slightly carbonaceous, occasionally moderately–highly carbonaceous, dense.
3050–3100	Dolomite–Limy Dolomite – tan–medium brown, frequently dark brown, microcrystalline, moderately firm–occasionally moderately soft, frequently moderately carbonaceous, siliceous in part, trace Pyrite, slightly argillaceous in part, trace algal laminae.
3100–50	Dolomite–Limy Dolomite – medium–dark brown–tan, commonly moderately–highly carbonaceous, microcrystalline, moderately firm–moderately soft, occasionally firm and brittle, some algal laminae, trace siliceous material.

3150–3200 Dolomite–Limy Dolomite – medium–dark grayish brown, occasionally tan to slightly orangish brown, microcrystalline, slightly argillaceous in part, slightly–moderately carbonaceous, frequently algal laminae, moderately firm–moderately soft, some amber siliceous material, frequently pyritic, dense.

3200–50 Dolomite–Limy Dolomite – medium–dark brown–dark grayish brown, occasionally tan–slightly orangish tan, microcrystalline, moderately firm–moderately soft, commonly moderately carbonaceous, frequently amber siliceous material, some black carbonaceous material, frequently pyritic, occasionally fair microsucrosic porosity with light brown stain to light–medium brown oil globules on rock, dull yellow fluorescence and fair dull bluish yellow milky–slow streaming cut.

3250–3300 Dolomite–Limy Dolomite – slightly orangish brown–medium to dark brown, microcrystalline, moderately firm–occasionally moderately soft, moderately–highly carbonaceous, frequently algal laminae, some Pyrite.

Shale – light–medium gray to tannish gray, firm–moderately hard, slightly–moderately calcareous, slightly carbonaceous, abundant Pyrite.

3300–50 Dolomite–Limy Dolomite – slightly orangish brown, medium to dark brown, occasionally tan, microcrystalline, moderately firm–moderately soft, moderately–highly carbonaceous, commonly algal laminae, some Pyrite, some microsucrosic porosity and show as above.

Some Shale – as above.

3350–3400 Siltstone frequently ranging to very fine grained Sandstone, milky–white–occasionally light gray, moderately well consolidated, slightly–moderately calcareous, slightly–moderately argillaceous, moderately–poorly sorted, sub–angular, frequently specks carbonaceous material and/or lithic fragments, some Glauconite, Mica, no apparent porosity, NSFOC.

Shale – light–medium gray, occasionally cream, slightly–moderately calcareous, slightly carbonaceous in part, moderately soft, occasionally pyritic.

Some Dolomite–Limy Dolomite – as above.

3400–50 Siltstone occasionally ranging to very fine Sandstone – milky–light gray, highly specked with Mica, carbonaceous material, lithic fragments and Pyrite,

some Glauconite, well consolidated, moderately calcareous, slightly–moderately argillaceous, generally poorly sorted, NSFOC.

Some Shale – light–medium gray to tannish gray, occasionally slightly emerald, slightly–moderately calcareous, slightly carbonaceous in part, frequently specks of carbonaceous material, commonly pyritic, some Mica, moderately firm–moderately soft.

3450–70 Shale – cream–light gray, generally silty, moderately calcareous, highly streaked–peppered with carbonaceous material and Pyrite, some Mica and Glauconite, moderately firm.

Siltstone – cream–light gray–milky in part, moderately argillaceous, poorly sorted, moderately firm, moderately calcareous, highly peppered–streaked with carbonaceous material and Pyrite, some Mica and Glauconite.

3470–3500 Shale – tan–grayish tan, moderately firm, slightly–moderately calcareous, slightly carbonaceous in part, sub–blocky, occasionally pyritic.

Dolomite–Limy Dolomite – tan to medium–dark brown, occasionally orangish brown, moderately firm, cryptocrystalline, dense, slightly carbonaceous in part.

3500–50 Limestone–Dolomitic Limestone – tan–light brown–occasionally buff, slightly argillaceous in part, cryptocrystalline, moderately firm, dense.

Dolomite–Limy Dolomite as above – some algal laminae which is highly carbonaceous, some Pyrite.

Some Shale – light–medium gray, moderately firm, slightly–moderately calcareous, slightly carbonaceous in part, some Pyrite.

3550–3600 Shale – cream–light gray, frequently slightly pink, moderately firm–moderately soft, slightly–moderately calcareous, slightly carbonaceous in part, frequently silty, commonly pyritic.

Some Siltstone – milky–light gray, moderately well consolidated, slightly–moderately calcareous, slightly–moderately argillaceous, frequently pyritic, moderately firm.

3600–50	Siltstone ranging to very fine grained Sandstone – milky–white to light gray, well consolidated, moderately well–poorly sorted, slightly–moderately argillaceous, slightly–moderately calcareous, frequently specked with Pyrite, carbonaceous material and lithic fragments, trace Glauconite, no apparent porosity, NSFOC.
	Shale – cream–light gray–slightly tan, moderately firm, slightly–moderately calcareous, slightly carbonaceous in part, sub–blocky, frequently silty, frequently pyritic.
3650–3700	Siltstone – light gray–milky, well consolidated, slightly–moderately calcareous, moderately firm, slightly argillaceous, frequently specks of carbonaceous material and Pyrite.
	Shale – light gray–occasionally tannish gray, moderately firm, frequently silty, slightly–moderately calcareous, some specks of carbonaceous material and Pyrite, sub–blocky.
3700–50	Dolomitic Limestone–Limestone – tan–buff–light to medium brown, cryptocrystalline–microcrystalline, moderately firm, slightly carbonaceous in part, dense, frequently pyritic.
	Some Shale – dark brown–dark brownish gray–slightly black, moderately–highly calcareous, moderately–highly carbonaceous, sub–blocky, moderately firm, frequently pyritic.
3750–3800	Dolomitic Limestone–Limestone – buff–tan–occasionally light brown as above.
	Some Shale – light gray–very faint emerald–cream, slightly–moderately calcareous, moderately firm–moderately soft, sub–blocky, frequently pyritic.
	Some Siltstone as 3650–3700 above.
3800–50	As above with increase in Siltstone and Shale.
3850–3900	Dolomitic Limestone–Limestone as 3700–3750 above, some cream.
	Shale – dark brown–dark brownish gray as 3700–3750 above.

3900–50	Shale – light–medium gray with silver metallic sheen, some tannish gray, slightly calcareous, some black specks of carbonaceous material, moderately firm, sub–blocky, frequently microcrystalline disseminated Pyrite.
	Some Dolomite–Limestone Dolomite – medium–dark brown to mahogany, cryptocrystalline–frequently microcrystalline, moderately–highly carbonaceous in part, moderately firm–moderately soft, some Spar Calcite, occasionally amber siliceous material, dense.
3950–4000	Limestone–Dolomitic Limestone – buff–light tan, moderately soft–frequently moderately firm, slightly argillaceous in part, microcrystalline, dense.
	Shale – light gray–tannish gray, occasionally cream, slightly–moderately calcareous, silty in part, moderately firm–moderately soft, slightly calcareous.
	Some Siltstone – milky–clear–frequently white, slightly argillaceous, slightly–moderately calcareous, moderately firm, NSFOC, some Pyrite.
	Some Dolomite–Limestone Dolomite as above – frequently with fair microsucrosic porosity, commonly with dark brown oil globules, dull gold fluorescence and fair bluish–yellowish milky cut.
4000–50	Siltstone – as above.
	Shale – as above.
4050–4100	Shale – light gray, moderately soft, silty in part, slightly–moderately calcareous, commonly slightly carbonaceous, sub–blocky.
	Some Siltstone occasionally ranging to very fine grained Sandstone – milky–clear to light gray, well consolidated, slightly–moderately calcareous, slightly argillaceous in part, frequently specks of carbonaceous material, commonly pyritic, NSFOC.
4100–50	Shale as above – some dark brown–dark grayish brown, moderately soft, moderately–highly carbonaceous.
	Limestone–Dolomitic Limestone – as above.

4150–4200 Limestone–Dolomitic Limestone – tan–medium to dark brown, microcrystalline, moderately firm–moderately soft in part, slightly argillaceous in part, dense.

Shale – dark brown–dark grayish brown to grayish black, moderately firm–firm in part, slightly brittle in part, moderately–highly carbonaceous, slightly–moderately calcareous.

4200–50 Limestone–Dolomitic Limestone – tan–buff as above.

Shale – as above.

4250–4300 Shale – light gray–slightly emerald tinge occasionally cream, moderately soft, slightly–moderately calcareous, sub–blocky, frequently pyritic, some specks of carbonaceous material.

Siltstone occasionally ranging to very fine grained Sandstone, milky–clear–occasionally light gray, slightly–moderately calcareous, slightly argillaceous in part, moderately well consolidated, sub–angular, moderately well sorted, no apparent porosity, NSFOC, frequently pyritic.

4300–62 Sandstone – very fine–fine grained, clear–milky, moderately unconsolidated–slightly friable in part, sub–angular, moderately well–well sorted, slightly calcareous in part, slightly argillaceous in part, fair–good intergranular porosity, no stain, some dull yellow mineral fluorescence, very weak faint dull bluish milky cut after soaking, some specks of Pyrite and carbonaceous material, trace Glauconite.

Shale – as above.

Some Limestone–Dolomitic Limestone as 4200–4250 above.

TOH @ 4362' to switch to fluid and change bit.

4362–80 Sandstone very fine grained ranging to Siltstone in part, clear–milky, slightly calcareous in part, moderately well consolidated–slightly friable, moderately well sorted, sub–angular to sub–round, commonly pinpoint medium–dark brown oil stain, with dull yellow fluorescence, and weak bluish–yellow milky–slow streaming cut. Some fair–good intercrystalline porosity, some Pyrite, probably not good enough show to be commercial.

Shale – light gray–cream–white, moderately soft, sub–blocky, silty in part, slightly–moderately calcareous, some Pyrite.

4380–4400 Shale – light–medium gray, occasionally cream, slightly calcareous, moderately firm–moderately soft, sub–blocky in part, slightly carbonaceous in part, some Pyrite.

Some Siltstone ranging to very fine grained Sandstone – generally as above, but generally NSFOC.

4400–20 Siltstone and Shale – as above.

Some Limy Dolomite – tan–medium to dark brown–mahogany, microcrystalline, moderately firm–moderately soft, moderately carbonaceous, dense.

Some Limestone–Argillaceous Limestone – buff–slightly cream, microcrystalline–cryptocrystalline, moderately soft–soft, dense.

4420–40 Shale – medium–dark gray to dark brown, occasionally cream, generally moderately firm, slightly–moderately calcareous, slightly–moderately carbonaceous, sub–blocky in part, frequently pyritic.

Limy Dolomite–Dolomite as above, some Spar Calcite.

Some Limestone–Argillaceous Limestone – as above.

4440–60 Limestone – buff–light tan, microcrystalline, moderately firm–moderately soft, brittle in part, frequently Spar Calcite, some pellets–oolites, generally most fabric indistinguishable due to recrystallization, trace pinpoint vugular–intergranular porosity with trace dark brown dead oil stain, no fluorescence and very weak dull yellow milky cut. Generally dense.

4460–80 Limestone – generally as above, slightly darker buff–light tan.

Shale – medium–dark gray–tannish gray, moderately firm–moderately soft, slightly–moderately calcareous, slightly–moderately carbonaceous, sub–blocky, slightly silty in part, frequently pyritic.

Some Limy Dolomite–Dolomite – as above.

4480–4500	Shale – as above.
	Equal amounts of Limestone and Limy Dolomite–Dolomite – as above.
4500–20	Shale – light–medium gray to frequently slightly emerald, occasionally dark gray–cream, moderately firm–moderately soft, slightly–moderately calcareous, generally slightly carbonaceous, frequently pyritic, silty in part.
	Limy Dolomite–Dolomite – orangish brown–tan to occasionally medium–dark brown, microcrystalline, moderately firm, moderately–highly carbonaceous.
	Some Siltstone – as above, NSFOC.
4520–40	Shale – as above.
	Some Limy Dolomite–Dolomite as above, frequently clear Spar Calcite.
4540–60	Shale – medium–dark gray to dark grayish brown, commonly cream–light gray, moderately firm, slightly–moderately calcareous, sub–blocky in part, slightly–commonly highly carbonaceous, commonly pyritic, some Silt.
	Some Dolomite–Limy Dolomite – as above.
4560–80	Shale – light–medium gray to emerald to commonly dark brown–cream, moderately firm–moderately soft, slightly–moderately calcareous, moderately carbonaceous in part, some Pyrite, silty in part.
	Limestone – buff–light tan, cryptocrystalline–microcrystalline, moderately firm, occasionally moderately soft, dense, commonly ostracods, some pellets–oolites, argillaceous in part.
	Some Limy Dolomite–Argillaceous Dolomite – orangish brown–yellowish tan, microcrystalline, generally moderately firm, moderately carbonaceous, dense.
4580–4600	Shale – generally medium gray, occasionally light gray–grayish tan, moderately soft, slightly–moderately calcareous, frequently specked with carbonaceous material, some Pyrite, occasionally silty.

Some Siltstone – milky–occasionally light gray, moderately well consolidated, slightly calcareous, slightly argillaceous in part, some lithic fragments and carbonaceous material, frequently pyritic, generally NSFOC, trace medium brown, dull yellow–gold fluorescence, weak dull yellow halo cut.

Some Limy Dolomite–Argillaceous Dolomite and Limestone – as above.

4600–20 Shale – light–medium gray to cream to slightly emerald – as above.

Siltstone as above, slightly more rock with show as above.

Some Limy Dolomite–Argillaceous Dolomite – as above.

4620–60 Shale – light gray–emerald, frequently medium–cream as above.

Siltstone occasionally ranging to very fine grained Siltstone – milky–frequently light–medium brown, generally well consolidated–slightly friable in part, slightly calcareous, slightly argillaceous in part, commonly pyritic. Generally tight, trace fair intergranular porosity, fair–good even spotty light–medium brown oil stain, generally no fluorescence – weak–fair slow dull yellow oozing cut, globules–fairly large globules of dark brown–black congealed oil in sample. Considered too tight to be commercial.

Limy Dolomite–Argillaceous Dolomite – as above, frequently Spar Calcite.

Some Limestone – as above.

4660–80 Shale – light–medium gray to frequently cream, occasionally slightly emerald as above.

Siltstone ranging to very fine grained Sandstone, milky–clear to slightly gray in part, well consolidated, slightly calcareous, slightly argillaceous in part, some specks of lithic fragments and carbonaceous material, some Glauconite, tight, NSFOC.

Some Limy Dolomite–Argillaceous Dolomite – as above.

4680–4700 Shale – medium–light gray to cream, frequently mottled–specked with carbonaceous material, slightly–moderately carbonaceous, moderately soft in part, frequently pyritic.

Siltstone ranging to very fine grained Sandstone generally as above, but somewhat more light gray with more argillaceous material, frequently carbonaceous material and pyritic. Trace light brown oil stain in part, generally no fluorescence, very weak bluish yellow milky cut. Generally tight.

4700–20 Shale – medium–dark gray to brownish gray–frequently black, moderately firm–moderately soft in part, moderately–highly calcareous, moderately–highly carbonaceous.

Some Pyrite.

Dolomitic Limestone–Limestone – medium–dark brown to frequently tan–yellowish tan, slightly–moderately carbonaceous, slightly argillaceous in part, generally firm–moderately firm, brittle in part, dense, cryptocrystalline–microcrystalline.

4720–40 Shale – light–medium gray, frequently dark gray–dark brownish gray to black as above.

Some Dolomitic Limestone–Limestone – as above.

Some Limy Dolomite–Argillaceous Dolomite – as above.

4740–60 Shale – light–medium gray, moderately soft, slightly–moderately calcareous, sub–blocky in part, slightly carbonaceous, some Shale as 4700–20 above.

Limy Dolomite–Argillaceous Dolomite – orangish brown–yellowish tan, microcrystalline–occasionally cryptocrystalline, moderately firm–moderately soft, slightly–moderately carbonaceous, dense.

4760–80 Shale as 4720–40 above.

Some Siltstone ranging to very fine grained Sandstone as 4660–4680 above.

4780–4800 Shale – dark brown–black commonly with orangish tinge slightly–moderately calcareous, moderately–highly carbonaceous, probably good source rock, moderately firm–moderately soft, sub–platy to sub–fissile in part. Frequently Gilsonite, dark brown–black, hard–brittle, concoidal fracture.

4800–20 Limestone–Dolomitic Limestone – buff–light tan, microcrystalline–cryptocrystalline, moderately firm, frequently clear Spar Calcite, commonly ostracods, some pellets and oolites, generally dense, trace intercrystalline porosity with spotty pinpoint medium brown oil stain, dull yellow mineral fluorescence and very weak bluish milky cut after soaking.

Some Shale – dark gray–dark brownish gray, slightly–moderately calcareous, moderately–highly carbonaceous, moderately firm, sub–blocky in part.

4820–40 Shale – light–medium gray, frequently cream occasionally slightly emerald, moderately firm–moderately soft, slightly–moderately calcareous, slightly carbonaceous, sub–blocky in part, some Pyrite.

Siltstone ranging to very fine grained Sandstone – milky–light gray, moderately–well consolidated, slightly calcareous, slightly argillaceous in part, frequently specks of carbonaceous material, some Glauconite and Pyrite, generally dense, NSFOC, trace fair intergranular porosity, with pinpoint dark brown oil stain, no fluorescence, very weak bluish milky cut.

Some Limy Dolomite–Argillaceous Dolomite – as above.

4840–60 Shale and Limy Dolomite–Argillaceous Dolomite – as above.

Some Siltstone ranging to very fine grained Sandstone as above, but no show.

4860–80 Equal amounts of Shale – Limy Dolomite–Argillaceous Dolomite and Siltstone ranging to very fine grained Sandstone as above, trace Chert – milky, amorphous, hard, sharp edges.

4880–4900 Shale – medium–dark gray, dark tannish gray, occasionally cream commonly pinpoint specks of carbonaceous material, slightly–moderately calcareous, moderately soft, silty in part, frequently pyritic, frequently streaked–slightly mottled with carbonaceous material.

Limy Dolomite–Argillaceous Dolomite grading brown–yellowish tan, light tan, microcrystalline–cryptocrystalline, generally moderately firm, dense, slightly–moderately carbonaceous, frequently Spar Calcite.

Some Siltstone – generally light gray, slightly–moderately argillaceous, slightly–moderately calcareous, well consolidated, frequently carbonaceous specks and lithic fragments, commonly pyritic, dense, NSFOC.

4900–20	Shale – medium–dark gray, dark brown–black with bronze cast, highly foliated–fissile, somewhat elastic, slightly–moderately calcareous, commonly disseminated microcrystalline Pyrite, moderately–highly carbonaceous. Probably very good source rock.
	Some Limy Dolomite–Argillaceous Dolomite – as above.
4920–28	Shale – dark gray–dark brownish gray, slightly black, moderately firm–brittle in part, slightly calcareous, moderately–highly carbonaceous sub–blocky, some Shale – as above.
4928–40	Limestone – buff–tan, microcrystalline, moderately firm–moderately soft, frequently Spar Calcite, some ostracods, pellets and oolites and other unidentifiable fragments, dense.
	Shale – as above.
	Some Siltstone as 4840–60 above.
4940–60	Siltstone ranging to very fine grained Sandstone – milky–white, moderately well sorted, slightly–moderately calcareous, slightly–moderately argillaceous in part, moderately–poorly sorted, frequently specks of lithic fragments and carbonaceous material, some Glauconite and Pyrite, dense, NSFOC.
	Shale – white–cream–light gray, slightly–moderately calcareous, moderately soft, frequently streaked–specked with carbonaceous material and Pyrite, silty in part.
	Some Limy Dolomite–Argillaceous Dolomite – as above.
4960–80	Shale – medium–dark gray, frequently highly mottled light gray–cream, moderately firm–moderately soft, sub–blocky in part, frequently pyritic, slightly–moderately carbonaceous, some rust colored, gritty, could be cavings.
	Limy Dolomite–Argillaceous Dolomite – as above.
	Some Limestone – tan–light brown to milky, microcrystalline, commonly Spar Calcite, commonly ostracods, dense, moderately firm.
4980–5000	Limy Dolomite–Argillaceous Dolomite – orangish brown–yellowish tan, occasionally moderately dark brown–mahogany, microcrystalline,

moderately firm–occasionally moderately soft, slightly–moderately carbonaceous, dense, frequently Spar Calcite.

Shale – light gray–cream occasionally emerald–rust, slightly specked–streaked with carbonaceous material in part, slightly–moderately calcareous, generally moderately soft.

Some Pyrite.

Some Siltstone as 4940–60 above.

5000–20 Shale – medium–dark gray, frequently grayish brown, occasionally cream–slightly emerald, moderately soft occasionally moderately firm, slightly–moderately calcareous, slightly–moderately carbonaceous.

Limy Dolomite–Argillaceous Dolomite – yellowish tan, some orangish brown–medium brown, microcrystalline, moderately firm–frequently moderately soft, slightly–moderately carbonaceous, dense, some Spar Calcite.

Some Limestone – buff–tan, cryptocrystalline–microcrystalline, moderately soft–occasionally moderately firm, frequently ostracods, dense.

5020–60 Shale – cream–light gray, frequently medium gray–slightly emerald, moderately soft, slightly calcareous, frequently mottled–streaked with carbonaceous material, commonly pyritic.

Limy Dolomite–Argillaceous Dolomite – as above.

Siltstone ranging to very fine grained Sandstone – milky–white–clear, moderately well consolidated, sub–angular, slightly calcareous, slightly argillaceous in part, some carbonaceous material, lithic fragments and Glauconite, no porosity, NSFOC, some Pyrite.

5060–80 Shale – generally medium gray, moderately soft, slightly calcareous, slightly carbonaceous, frequently pinpoint specks of carbonaceous material, sub–blocky.

Limy Dolomite–Argillaceous Dolomite – as above.

5080–5100	Shale as above, also dark brown–black, frequently bronze tinge, moderately firm–moderately soft, slightly calcareous, moderately–highly carbonaceous sub–fissile.
5100–20	Shale – cream–light gray to frequently slightly emerald, moderately soft, slightly calcareous, some Pyrite. Also Shale – dark brown–dark grayish brown–occasionally black, moderately firm–frequently brittle, moderately–occasionally highly carbonaceous, slightly calcareous, sub–blocky.
	Some Siltstone – as above.
	Some Limy Dolomite–Argillaceous Dolomite – as above.
5120–40	Shale – medium gray–medium to dark brown, moderately firm, frequently brittle, slightly–moderately calcareous, moderately carbonaceous, sub–blocky, silty in part, frequently pyritic.
	Siltstone – light gray–milky, well consolidated, slightly–moderately calcareous, slightly–moderately argillaceous, frequently specks of carbonaceous material, frequently pyritic, NSFOC.
	Limestone–Dolomitic Limestone – tan–brownish gray, abundant pellets–oolites, microcrystalline–cryptocrystalline, moderately firm, dense.
	At 5166' made short trip for hole in pipe, didn't find anything, TIH, went back to drilling.
5140–60	Siltstone ranging to very fine grained Sandstone as above, NSFOC.
5160–5200	Shale – light gray, frequently medium gray–cream, silty in part, slightly–moderately calcareous, slightly carbonaceous, frequently streaked–specked with carbonaceous material, commonly pyritic.
	Siltstone frequently ranging to very fine grained Sandstone – milky–light gray, well consolidated, slightly–moderately calcareous, slightly argillaceous in part, some specks of carbonaceous material, occasionally pyritic, dense, NSFOC.
5200–20	Shale – mostly medium gray as above.
	Some Siltstone ranging to very fine grained Sandstone as above.

5220–60 Shale – light–medium gray to tannish gray, frequently cream, moderately soft, slightly–moderately calcareous, slightly carbonaceous, some Pyrite.

Siltstone ranging to very fine grained Sandstone as 5160–5200 above.

5260–80 Shale – light–medium gray, frequently cream, occasionally dark gray, moderately soft, slightly–moderately calcareous, slightly carbonaceous in part, frequently specks of carbonaceous material, some Pyrite, silty in part.

Siltstone ranging to very fine grained Sandstone, generally milky–clear, occasionally white, moderately well consolidated, sub–angular, moderately well sorted in part, slightly calcareous, slightly argillaceous in part, no apparent porosity, NSFOC.

5280–5300 Shale – light gray–cream as above.

Sandstone very fine grained frequently ranging to Siltstone – milky–light tan, moderately consolidated–slightly friable in part, sub–angular to sub–round, slightly calcareous in part, slightly argillaceous in part, some fair–good intergranular porosity but commonly tight. Commonly even light tan–light brown oil stain, dull yellow–dull gold fluorescence, fair dull bluish–yellow milky–slow streaming cut. Visual show, very encouraging but porosity appears somewhat tight.

5300–10 Sandstone very fine grained ranging to Siltstone – light tan–milky, moderately unconsolidated–moderately friable, some loose Quartz grains, sub–angular to sub–round, slightly calcareous in part, slightly argillaceous in part, fair–good very fine intergranular porosity, commonly light tan oil stain, dull yellow fluorescence, weak milky–slow dull yellow streaming cut.

5310–20 Sandstone – very fine to occasionally fine grained light tan – frequently clear–milky, generally moderately unconsolidated–friable, some loose Quartz grains, sub–angular to sub–round, slightly calcareous in part, slightly argillaceous in part, moderately–well sorted, frequently fair–good very fine–fine intergranular porosity, generally even light–medium tan oil stain, dull yellow fluorescence, fair–good dull yellow milky–blooming cut. Good show and porosity, should be good commercial zone.

5320–40 Sandstone very fine–fine grained generally light–medium brown, generally moderately unconsolidated–moderately friable, sub–angular to sub–round, moderately well–well sorted, slightly argillaceous in part, slightly calcareous in part, commonly fair–good to very fine–fine intergranular porosity, generally medium tan to medium brown oil stain, dull yellow fluorescence, fair dull yellow milky–slow streaming cut. Good porosity and visual show, should be good commercial zone.

5340–60	Shale – cream–light gray to tannish gray, frequently mottled with carbonaceous material and Pyrite, moderately soft, slightly–moderately calcareous.
	Limy Dolomite–Argillaceous Dolomite – yellowish tan to frequently orangish brown, microcrystalline, moderately firm–moderately soft, slightly–moderately carbonaceous.
	Much Sandstone – as above.
5360–5400	Shale – medium–dark gray to tannish gray, frequently light gray, moderately firm, moderately–highly calcareous, slightly carbonaceous, commonly microcrystalline disseminated Pyrite, silty in part.
	Some Limy Dolomite–Argillaceous Dolomite – orangish brown–yellowish tan–medium brown – as above.
5400–20	Shale – medium–dark grayish tan, occasionally light tan–cream, moderately soft–frequently moderately firm, moderately–highly calcareous, slightly–moderately carbonaceous.
5420–40	Shale – as above.
	Limy Dolomite–Argillaceous Dolomite as 5340–60 above.
	Some Siltstone ranging to very fine grained Sandstone – white–light gray–milky, moderately well consolidated, slightly calcareous in part, slightly argillaceous in part, some carbonaceous material, trace Glauconite, tight, NSFOC.
5440–60	Limy Dolomite–Argillaceous Dolomite – orangish brown–yellowish tan, occasionally tan, microcrystalline occasionally cryptocrystalline, moderately firm–occasionally moderately soft, dense, frequently Spar Calcite, moderately carbonaceous.
	Some Shale and Siltstone – as above.
	Trace Limestone – tan–buff, microcrystalline, dense, frequently pellets–oolites.
5460–80	Limy Dolomite–Argillaceous Dolomite – as above.
	Shale – light–medium gray–tan, commonly rust–slightly lavender–emerald, generally moderately firm, slightly–moderately calcareous, generally slightly carbonaceous, sub–blocky in part, silty in part.

5480–5500	Limy Dolomite–Argillaceous Dolomite – as above.
	Shale – light–medium gray to cream, frequently emerald–rust, frequently specked–streaked with carbonaceous material, generally moderately soft, slightly–moderately calcareous.
5500–20	Shale – light–medium gray–cream, frequently emerald as above.
	Limy Dolomite–Argillaceous Dolomite – as above.
5520–40	Shale – light–medium gray, frequently dark brown–brownish black to black with bronze cast, generally moderately soft, slightly–moderately calcareous, slightly–highly carbonaceous, silty in part, some Pyrite.
	Limy Dolomite–Argillaceous Dolomite – as above.
5540–60	Shale – dark gray–dark brownish gray, occasionally light–medium gray, generally moderately firm–frequently moderately soft to moderately calcareous, moderately–highly carbonaceous, sub–blocky in part.
	Limy Dolomite–Argillaceous Dolomite – orangish brown–yellowish tan, microcrystalline–cryptocrystalline, moderately firm–occasionally moderately soft, slightly–moderately carbonaceous, dense, trace Pyrite.
5560–5600	Shale – medium–dark brownish gray–medium gray to frequently light gray – as above.
	Limy Dolomite–Argillaceous Dolomite – as above.
5600–20	Shale – medium–dark gray–dark brownish gray, occasionally light gray, occasionally specked–mottled carbonaceous material, moderately calcareous, slightly–moderately carbonaceous, moderately firm–moderately soft, silty in part.
	Limy Dolomite–Argillaceous Dolomite – as above, frequently Spar Calcite.
	Some Siltstone – milky–light gray, well consolidated, slightly calcareous, slightly argillaceous, some Pyrite, NSFOC.
5620–40	Shale – as above, frequently emerald.
	Siltstone frequently ranging to very fine grained Sandstone – light gray–milky to commonly medium–dark brown, generally moderately well consolidated, slightly calcareous, slightly argillaceous, commonly pyritic, sub–angular to sub–round, generally tight, trace fair very fine intergranular

porosity, commonly uneven–spotty medium–dark brown oil stain, very weak dull yellow fluorescence in part, weak dull yellow milky halo cut. Appears to be too tight to be commercial.

Some Limy Dolomite–Argillaceous Dolomite – as above.

5640–60 Shale – light–medium gray to cream, slightly emerald in part, some rust, commonly mottled–streaked with carbonaceous material, commonly Pyrite, moderately soft, slightly–moderately calcareous.

Siltstone commonly ranging to very fine grained Sandstone – generally milky–white, moderately well consolidated, slightly calcareous, some Pyrite, dense, NSFOC, trace as above with show as above.

5660–80 Shale – generally light–medium gray, occasionally emerald–rust–cream, moderately soft, moderately calcareous, slightly carbonaceous in part, frequently specks of carbonaceous material, sub–blocky in part, occasionally silty.

Limy Dolomite–Argillaceous Dolomite – orangish brown–yellow tan–occasionally tan, microcrystalline, generally moderately firm, slightly–moderately carbonaceous, frequently clear Spar Calcite, dense.

5680–5700 Shale – dark brownish gray–black, frequently with bronze cast–frequently medium gray, moderately soft–moderately firm, brittle in part, sub–blocky in part, abundant microcrystalline disseminated Pyrite, slightly–moderately calcareous, moderately–highly carbonaceous, probably good source rock.

5700–20 Shale – dark brownish gray–black with bronze cast, generally moderately soft–soft, slightly–moderately calcareous, sub–fissile to sub–platy in part, abundant Pyrite, highly carbonaceous–petroliferous in part.

5720–60 Limy Dolomite–Argillaceous Dolomite as above. Some Shale as above – mostly Shale – light–medium gray, moderately firm, slightly–moderately calcareous, sub–blocky in part.

5760–80 Limy Dolomite–Argillaceous Dolomite – as above.

Shale – light–medium gray, frequently emerald–rust–cream, moderately firm–occasionally moderately soft, slightly–moderately calcareous, slightly carbonaceous in part, silty in part, frequently sub–blocky.

Some Siltstone – light gray–milky, slightly–moderately argillaceous, slightly–moderately calcareous, generally well consolidated, dense, NSFOC.

5780–5800 Shale – medium–dark gray, moderately firm, moderately–highly carbonaceous, slightly calcareous, sub–platy to sub–blocky, commonly rust–emerald as above.

Limy Dolomite–Argillaceous Dolomite – as above.

Some Limestone–Dolomitic Limestone – light–yellowish tan, cryptocrystalline, moderately firm, brittle in part, dense, trace Pyrite.

5800–20 Shale – black, generally with bronze cast, frequently dark gray, generally soft–moderately soft, occasionally moderately hard and brittle, sub–fissile in part, highly carbonaceous–petroliferous, commonly much microcrystalline disseminated Pyrite, slightly–moderately calcareous, likely very good source rock.

5820–40 Shale – generally as above, but more soft , black, highly carbonaceous–petroliferous.

5840–5920 Shale – as 5800–20 above.

5920–40 Shale – as above, commonly some light gray–cream, mottled–streaked with carbonaceous material, slightly–moderately calcareous, moderately soft.

Limy Dolomite–Argillaceous Dolomite – as above.

Some Sandstone very fine grained ranging to Siltstone – light gray–milky–light brown, generally poorly sorted, slightly calcareous, slightly–moderately argillaceous, well consolidated, generally sub–angular, no apparent porosity, frequently uneven light–medium brown oil stain, trace very weak dull yellow fluorescence, very weak dull yellow glow cut–ring cut. Not commercial.

Trace Limestone – light tan–buff, microcrystalline–cryptocrystalline, moderately soft, slightly argillaceous in part, trace pellets–oolites, dense.

5940–60 Shale – highly mixed, dark gray–black as above, light–medium gray–emerald to frequently rust–cream as above.

Limy Dolomite–Argillaceous Dolomite – orangish brown–yellow tan, moderately firm–soft, slightly–moderately carbonaceous, microcrystalline, dense, frequently Spar Calcite.

Some Sandstone ranging to Siltstone as above.

Some Limestone – as above.

5960–80 Shales – as above.

Limy Dolomite–Argillaceous Dolomite – as above.

Some Limestone – as above.

5980–90 Shales and Limy Dolomite–Argillaceous Dolomite – as above.

Sandstone very fine–fine grained, milky–uneven medium–dark brown, moderately well–poorly sorted, frequently argillaceous–silty, slightly calcareous, moderately well consolidated–slightly friable in part, sub–angular to sub–round, generally not very porous, but some fair–good intergranular porosity, commonly uneven medium–dark brown oil stain, dull yellow–dull gold fluorescence, weak dull yellow slow blooming cut, porosity may be suspect, but if E–logs substantiate adequate porosity this Sandstone should be commercial.

5990–6000 Sandstone fine–very fine grained, milky–clear to frequently medium–dark brown in part, moderately well consolidated–slightly friable in part, frequently black particles of carbonaceous material and/or lithic fragments, some Glauconite, moderately–poorly sorted, slightly–moderately argillaceous in part, slightly calcareous in part, sub–angular to sub–round, generally looks fairly tight, but some fair–good intergranular porosity, commonly uneven light–medium brown oil stain, dull yellow–dull gold fluorescence, weak–fair dull bluish yellow blooming–slow streaming cut. Probably commercial zone if porosity good enough.

6000–20 Dolomitic Limestone–Limestone – tan–light to medium brown in part, microcrystalline occasionally cryptocrystalline, moderately firm–soft in part, slightly argillaceous in part, dense, some Spar Calcite.

Shale – light–medium gray to cream to frequently rust–emerald, silty in part, slightly calcareous in part, moderately firm–moderately soft, frequently specks of carbonaceous material, sub–blocky in part.

Some Limy Dolomite–Argillaceous Dolomite – as above.

6020–40 Shale – cream–white–light gray, commonly mottled–streaked with dark brown carbonaceous material, slightly calcareous, moderately soft, frequently pyritic.

Sandstone very fine grained ranging to Siltstone – white–milky–light gray, moderately well consolidated, slightly–moderately calcareous, slightly–moderately argillaceous, some specks of lithic fragments and carbonaceous material, trace Glauconite, trace Pyrite, no apparent porosity, NSFOC.

Limy Dolomite–Argillaceous Dolomite – as above.

6040–60 Sandstone – very fine to occasionally fine grained ranging to Siltstone – largely as above. Trace uneven medium–dark brown oil stain, trace dull yellow fluorescence, very weak dull bluish–yellow milky cut after soaking. Not commercial.

Shale and Limy Dolomite–Argillaceous Dolomite – as above.

Some Limestone – buff–tan, microcrystalline, commonly Spar Calcite, moderately soft–moderately firm, dense.

6060–80 Sandstone – fine–very fine grained, occasionally medium grained, frequently loose Quartz grains, moderately unconsolidated–frequently friable, moderately well sorted, sub–angular, slightly calcareous in part, slightly argillaceous, some Glauconite, probably some fair–good intergranular porosity, no visible stain or fluorescence, very weak dull yellow glow–very slow oozing cut. Not considered prospective.

Shale, Limy Dolomite–Argillaceous Dolomite and Limestone – as above.

6080–6100 Sandstone – fine–very fine grained, generally as above but probably slightly coarser and better sorted. Generally loosely consolidated, frequently loose angular Quartz grains. Probably good intergranular porosity, show as above. Probably not commercial due to poor visual show, but because of likely good porosity should closely review 6060–6100' interval on E–logs.

Shale and Limy Dolomite–Argillaceous Dolomite – as above.

6100–20 Shale – creamy–light gray, frequently mottled–streaked with carbonaceous material, moderately soft, slightly–moderately calcareous, silty in part.

Siltstone frequently ranging to very fine grained Sandstone – light gray–milky, commonly looks dirty, slightly–moderately argillaceous, slightly calcareous, commonly specks of carbonaceous material, poorly–moderately sorted, sub–angular, no apparent porosity, frequently black dead oil stain, no fluorescence, very weak bluish–yellow milky cut after soaking.

Limy Dolomite–Argillaceous Dolomite – as above, frequently Spar Calcite.

Some Limestone – as above.

6120–40 Sandstone – fine–very fine grained to clear–milky, generally moderately unconsolidated, frequently loose Quartz grains, frequently slightly friable, slightly calcareous, slightly argillaceous in part, some lithic fragments, trace

Glauconite, moderately well sorted, some fair intergranular porosity, no visual stain or fluorescence, very weak dull yellow ring–very slow oozing cut in part. May be acceptable porosity, but show very poor.

Shale and Limy Dolomite–Argillaceous Dolomite – as above.

6140–60 Sandstone – fine–very fine grained, clear–milky, generally moderately unconsolidated–friable, commonly loose Quartz grains, slightly calcareous in part, slightly argillaceous in part, generally moderately–well sorted, sub–angular, fair–good intergranular porosity, frequently lithic fragments, some Glauconite and Pyrite. Very faint light tan uneven oil stain in part, fair–good bright yellow fluorescence, weak–fair bluish–yellow milky cut–slow developing ring cut. If porosity is sufficient which it likely is, this zone is likely commercial.

6160–80 Sandstone – fine–very fine grained as above with similar oil show.

Limy Dolomite–Argillaceous Dolomite and Shale – as above.

6180–6200 Shale – dark grayish brown–black with slightly bronze cast from abundant microcrystalline disseminated Pyrite, frequently medium gray–tan, generally moderately firm–firm and brittle, moderately–highly carbonaceous, slightly–highly calcareous, sub–blocky.

Limy Dolomite–Argillaceous Dolomite – orangish brown–yellowish tan, commonly mottled with clear Spar Calcite, microcrystalline, moderately firm–occasionally moderately soft, slightly–moderately carbonaceous, dense.

6200–20 Shale – highly mixed, medium–dark gray, frequently light gray, emerald–rust to also dark gray–black, as above, moderately firm, slightly–moderately calcareous, sub–blocky.

Limy Dolomite–Argillaceous Dolomite – as above.

Some Limestone – tan–buff, cryptocrystalline, moderately firm, frequently ostracods.

Some Limestone – fine–very fine grained, moderately well consolidated, moderately well–poorly sorted, slightly–moderately calcareous, slightly argillaceous in part, some Mica, Glauconite and lithic fragments, no apparent porosity, trace light brown uneven oil stain with dull yellow fluorescence in part and very weak bluish yellow diffuse milky cut.

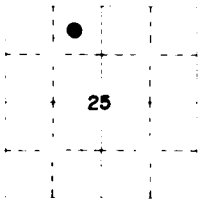
6220–40	Shale – dark gray–dark brownish gray–black with slightly bronze tinge in part, moderately firm–firm and brittle, slightly–moderately calcareous, highly carbonaceous, some light–medium gray Shale as above. Limy Dolomite–Argillaceous Dolomite as above, commonly Spar Calcite. Some Limestone – tan–buff as above, some dark brown, cryptocrystalline, hard and brittle, moderately carbonaceous, dense.
6240–60	Sample generally as above, much gel.
6260–70	Sandstone – generally fine–very fine grained, frequently medium grained, clear–milky, moderately unconsolidated–slightly friable, frequently loose Quartz grains, moderately–well sorted, slightly calcareous in part, slightly argillaceous in part, sub–angular to angular, some fair–good intergranular porosity, some very faint light brown uneven oil stain, bright yellow fluorescence, weak dull bluish–yellow ring cut–milky after soaking, show not strong but possibly commercial if E–logs confirm high porosity and high resistivity.
6270–6300	Sample highly mixed with varicolored Shales, Limy Dolomite–Argillaceous Dolomite, some Limestone and Sandstone as above. Much gel in sample. Quality is suspect due to sweeping hole with gel. TOTAL DEPTH 6300' DRILLER.

DENNIS REHRIG & ASSOCIATES, INC.

OIL & GAS CONSULTING

4924 RIMROCK ROAD
BILLINGS, MONTANA 59106
(406) 656-4785

GEOLOGIC WELL LOG



MONUMENT BUTTE FIELD
BALCRON OIL 21-25 FEDERAL
748' FNL 1964' FWL, SECTION 25, T 8 S-R 17 E
UINTAH COUNTY, UTAH

ELEVATIONS: 5060' GL 5070' KB

SPUD: 6:30 PM (MDT) 10/20/94 (ROTARY)

OUT FROM UNDER SURF. CSG.: 9:15 PM (MDT) 10/21/94

DATE DRLG. COMP.: 12:00 NOON (MDT) 10/29/94

DATE WELL COMPLETED: 5:00 PM (MST) 10/30/94

STATUS: CASED FOR OIL COMPLETION

SURF. CSG.: 8 5/8" TO 399' KB

PRODUCTION CSG: 5 1/2" TO 6290' KB

CORES: NONE

DRILL STEM TESTS: NONE

CONTRACTOR: UNION DRILLING CO.

RIG: 17

DERRICK: CABOT-FRANKS, 97' MAST

DRAWWORKS: CABOT-FRANKS, POWERED BY ONE 343 DIESEL CAT

PUMPS: 1 - GARDINER DENVER FXN 14" STROKE, 5 1/2" LINER

DRILL PIPE: 4 1/2" OD, 2 1/4" ID, X-H THREAD

COLLARS: 6" OD, 2 1/2" ID, 20 JTS

MUD SYSTEM: AIR/FOAM TO 4362', KCL/WTR 4362'-TD

TOTAL BITS: 4

TOTAL DAYS TO LOG POINT: 10 TO COMPL: 11

T.D. DRILLER 6300' LOGGER 6304'

PENETRATION: 374' BELOW CARBONATE MARKER

ROCK TYPE

(Consistent with American Stratigraphic Company)

- CONGLOMERATE
- SANDSTONE
- SILTSTONE
- SHALE
- BENTONITE
- CHERT
- LIMESTONE
- DOLOMITE
- ANHYDRITE
- SALT
- COAL
- IGNEOUS
- VOLCANIC
- METAMORPHIC

ACCESSORIES

- SANDY
- SILTY
- SAND GRAINS
- SILICEOUS
- GLAUCONITE
- PYRITE
- PLANT REMAINS
- MINERAL CRYSTALS
- CHERT
- ARGILLACEOUS
- CALCAREOUS
- DOLOMITIC
- ANHYDRITIC
- SALT CAST or INFILL
- PHOSPHATE PELLETS
- NODULES

ORGANIC or NON ORGANIC ALLOCHEMS

- FORAMINIFERA
- CRINOID
- PELECYPOD
- BIOCLASTIC or FRAGMENTAL
- CORAL
- STROMATOPOROID
- BRYOZOA
- BRACHIOPOD
- OSTRACOD
- CEPHALOPOD
- GASTROPOD
- ECHINOID
- FOSSILS UNIDENTIFIABLE
- OOLITES
- PISOLITE 2mm. or over
- PSEUDO OOLITES or PELLETS
- INTRACLASTS

FRAMEWORK ALGAE

- SKELETAL
- OOTOID or ONCOLYTIC

NON-FRAMEWORK ALGAE

- NON-DESCRIPT
- LAMINATED

MISCELLANEOUS

- NO SAMPLES
- CANNOT INTERPRET, cavings, etc.
- QUESTIONABLE INTERPRETATION
- STYLOLITES

POROSITY TYPES

- X INTERCRYSTALLINE, INTERGRANULAR, INTERFRAGMENTAL
- ◊ INTEROOLITIC, INTERPELLETOID
- V VUGGY - voids greater than 1/16mm
- P PINPOINT - voids less than 1/16mm
- MOLDIC
- O ORGANIC - bridged, Intrafossil
- F FRACTURE
- e EARTHY - low permeability, crystals less than 1/16mm
- FENESTRAL - voids from gas bubbles, shrinkage cracks & birdseye texture

OIL STAINS - stain present

- ● EVEN STAINING, FLOURESCES IN SOLVENT
- ◑ SPOTTED STAINING, FLOURESCES IN SOLVENT
- D DEAD, ASPHALTIC, BITUMEN, ETC.
- O QUESTIONABLE, NO FLOURESCENCE IN SOLVENT

EVALUATION LEGEND

- WHOLE CORE
- DRILL-STEM TEST
- PERFORATIONS

DRILLING AND PRODUCTION DATA

	CASING SET	RPM	ROTATION (REV/MIN)
NB	NEW BIT	PP	PUMP PRESSURE
RRB	RERUN BIT	LC	LOST CIRCULATION
CB	CORE BIT	NR	NO RETURNS
DS	DEVIATION SURVEY	TG	TRIP GAS
W/B	WEIGHT ON BIT	CG	CONNECTION GAS

MUD DATA

V	VISCOSITY
W	WEIGHT IN lbs/gal
WL	FILTRATE IN cc
FC	FILTER CAKE
CL	CHLORIDE CONTENT (ppm)
Rm	MUD RESISTIVITY (⎍)
Rmf	MUD FILTRATE RESISTIVITY (⎍)

ELECTRIC LOG GAMMA RAY / CALIPER	INTERPRETED LITHOLOGY AND DEPTH	DRILLING PENETRATION RATE (MIN / FT)	POROSITY (%)	OIL SHOWS	CORE & DST	CASING & PERFORATIONS
		0 1 2 3 4 5				
1600	INTERPRETATIVE LITHOLOGIC & SAMPLE DESCRIPTIONS BASED ON SAMPLES CAUGHT BY MUD LOGGERS. GENERALLY TIE WELL TO DRILL TIME LOG. SEE REPORT FOR DETAILED DESCRIPTION OF SAMPLES, POROSITY & SHOWS	SAMPLES EXAMINED FROM 1700'-TOTAL DEPTH. SEE SAMPLE DESCRIPTIONS IN REPORT FOR DETAILS.				
1700						

RECORDING CHARTS GRAPHIC CONTROLS CORPORATION

E-LOG TOPS

GREEN RIVER

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

HORSE BENCH

2800

2900

RECORDING CHARTS

Printed in U.S.A.

No. TC1 3332

BURTON, NEW YORK

GRAPHIC CONTROLS CORPORATION

RECORDING CHARTS

Printed in U.S.A.

3000
3100
3200
3300
3400
3500
0
1
2
3
4
5
GRAPHIC CONTROLS CORPORATION BUFFALO, NEW YORK
No. TCI 3355
PRINTED IN U.S.A.
GRAPHIC CONTROLS CORPORATION BUFFALO, NEW YORK
RECORDING CHARTS

3600

3700

3800

3900

4000

4100

4200

RECORDING CHARTS GRAPHIC CONTROLS CORPORATION BUFFALO, NEW YORK

No TC1 3332

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No TC1 3332

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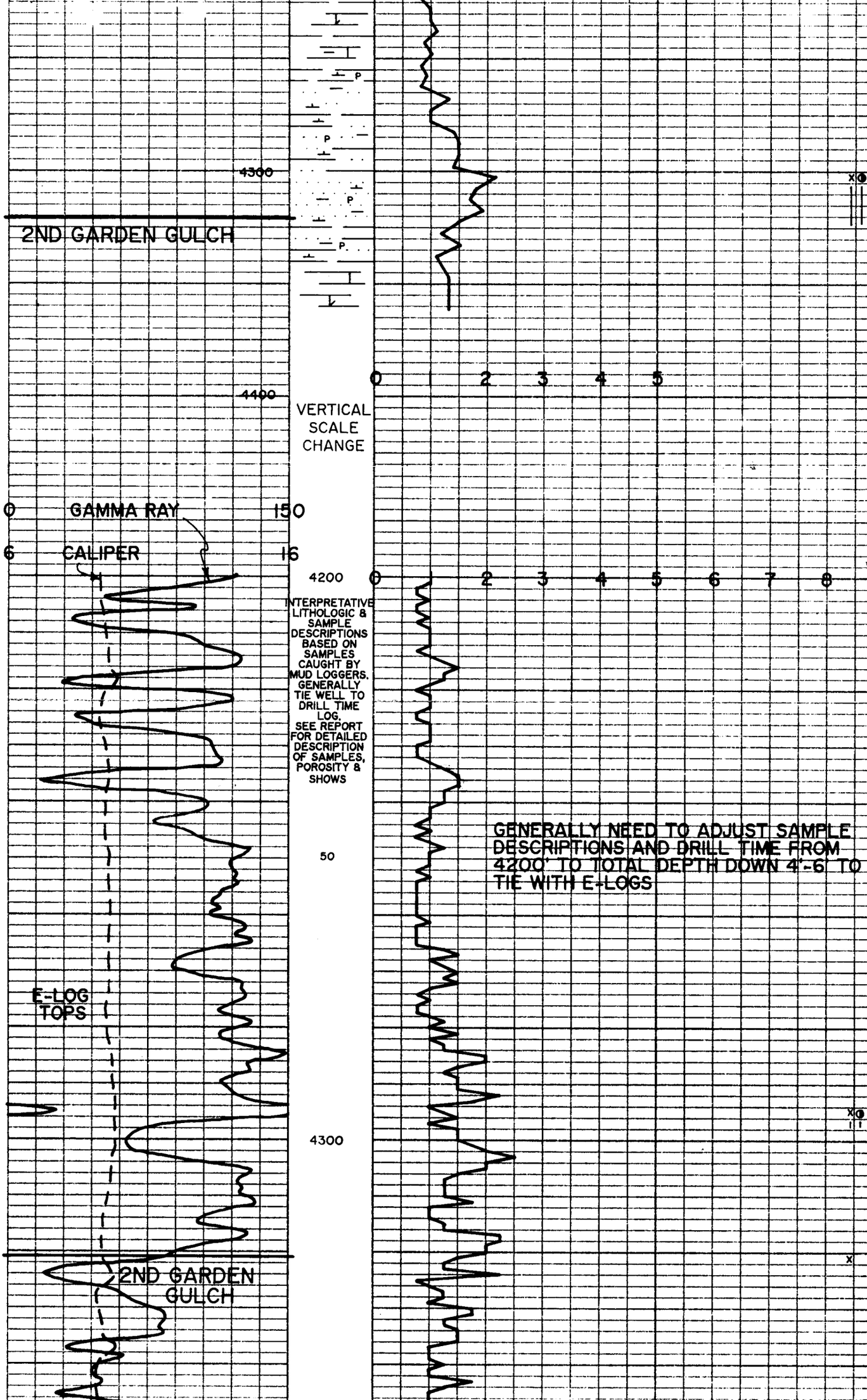
4300
2ND GARDEN GULCH
4400
VERTICAL SCALE CHANGE
0 1 2 3 4 5
0 GAMMA RAY 150
6 CALIPER 16
4200
0 2 3 4 5 6 7 8
INTERPRETATIVE LITHOLOGIC & SAMPLE DESCRIPTIONS BASED ON SAMPLES CAUGHT BY MUD LOGGERS. GENERALLY TIE WELL TO DRILL TIME LOG. SEE REPORT FOR DETAILED DESCRIPTION OF SAMPLES, POROSITY & SHOWS
50
GENERALLY NEED TO ADJUST SAMPLE DESCRIPTIONS AND DRILL TIME FROM 4200' TO TOTAL DEPTH DOWN 4'-6' TO TIE WITH E-LOGS
E-LOG TOPS
4300
2ND GARDEN GULCH

50

4400

50

4500

50

TOH AT 4362' TO
SWITCH TO FLUID
AND CHANGE BIT

4600
50
4700
50
4800
0
1
2
3
4
5
x
o
GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
CHART 8
No. TCI 3332
PRINTED IN U.S.A.
RECORDING CHART 8
GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK

No. TCI 3352
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RECORDING CHART
GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
No. TCI 3352

DOUGLAS CREEK

50

5200

50

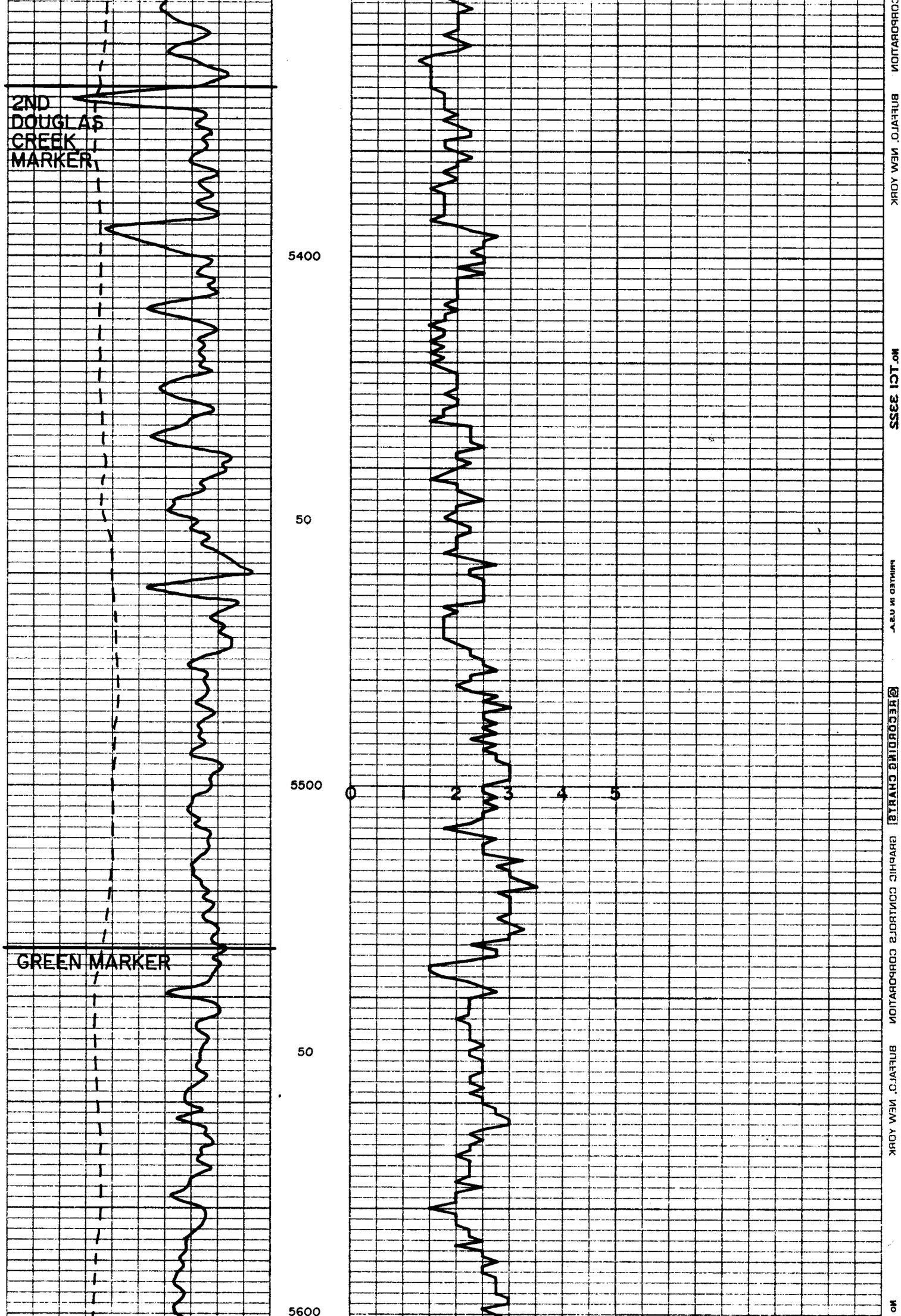
5300

50

TOH AT 5166' FOR LOST PUMP PRESSURE, DIDN'T FIND HOLE IN PIPE

G = SIGNIFICANT MUD LOG GAS SHOWS

G


2ND
DOUGLAS
CREEK
MARKER
GREEN MARKER
5400
50
5500
50
5600
0
1
2
3
4
5

50

5700

50

5800

50

RECORDING CHARTS
GRAPHIC CONTROLS CORPORATION BUFFALO, NEW YORK
No. TC1 3332
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RECORDING CHARTS
GRAPHIC CONTROLS CORPORATION BUFFALO, NEW YORK
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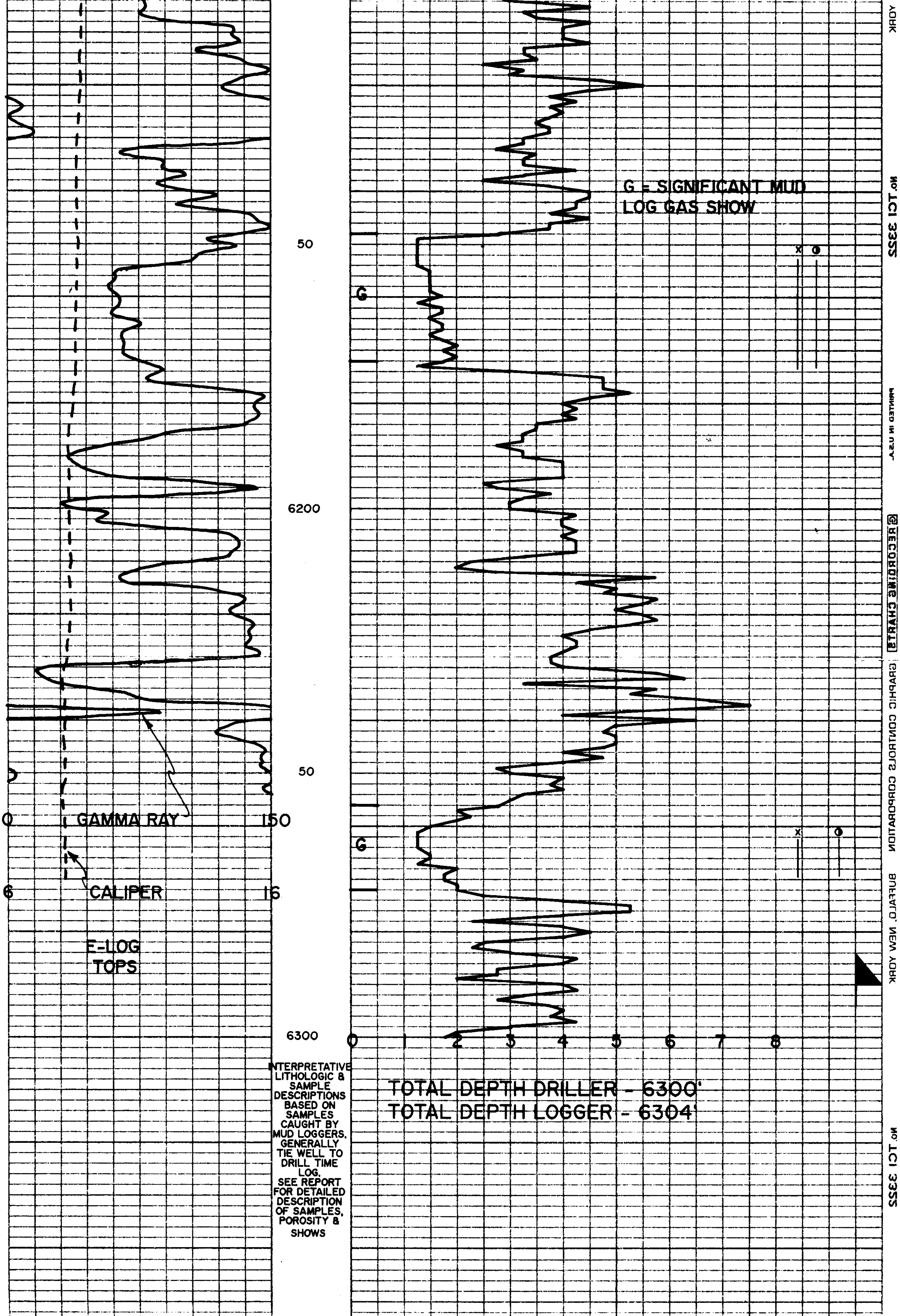
5900
CARBONATE
MARKER
50
6000
50
6100
G
RECORDING CHARTS
GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
No. TC1 3352
PRINTED IN U.S.A.


G = SIGNIFICANT MUD LOG GAS SHOW
50
G
6200
50
G
0
GAMMA RAY
150
6
CALIPER
16
E-LOG TOPS
6300
0 1 2 3 4 5 6 7 8
INTERPRETATIVE LITHOLOGIC & SAMPLE DESCRIPTIONS BASED ON SAMPLES CAUGHT BY MUD LOGGERS. GENERALLY TIE WELL TO DRILL TIME LOG. SEE REPORT FOR DETAILED DESCRIPTION OF SAMPLES, POROSITY & SHOWS
TOTAL DEPTH DRILLER - 6300'
TOTAL DEPTH LOGGER - 6304'
No. ICI 3322
PRINTED IN U.S.A.
GRAPHIC CONTROLS CORPORATION BUFFALO, NEW YORK
RECORDING CHARTS

CONFIDENTIAL

RECEIVED
DEC 12 1994
DIV 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

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-67845
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
2. Name of Operator: EQUITABLE RESOURCES ENERGY COMPANY, BALCRON OIL DIVISION
3. Address and Telephone No.: P.O. Box 21017; Billings, MT 59104 (406) 259-7860
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
   SURFACE: NE NW Section 25, T8S, R17E
   TD: 747.6' FNL, 1963.6' FWL

8. Well Name and No.: Balcron Monument Federal #21-25
9. API Well No.: 43-047-32528
10. Field and Pool, or Exploratory Area: Undesignated / Green River
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 Report of First Production	[ ] 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 1994

First production from this well was on 11-28-94 at 11:00 a.m.

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

Signed Bobbie Schuman Title Regulatory and Environmental Specialist Date 11-29-94

(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 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

5. Lease Designation and Serial No.
U-67845

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

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

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT –" for such proposals

SUBMIT IN TRIPLICATE

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

8. Well Name and No.
Balcron Monument Federal #21-25

2. Name of Operator
EQUITABLE RESOURCES ENERGY COMPANY, BALCRON OIL DIVISION

9. API Well No.
43-047-32528

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

10. Field and Pool, or Exploratory Area
Undesignated / Green River

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SURFACE: NE NW Section 25, T8S, R17E
TD: 747.6' FNL, 1963.6' 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
	[ ] Recompletion	[ ] New Construction
[X] Subsequent Report	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
[ ] Final Abandonment Notice	[ ] 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 the subject well.

RECEIVED
DEC 27 1994
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 12-21-94

(This space for Federal or State office use)

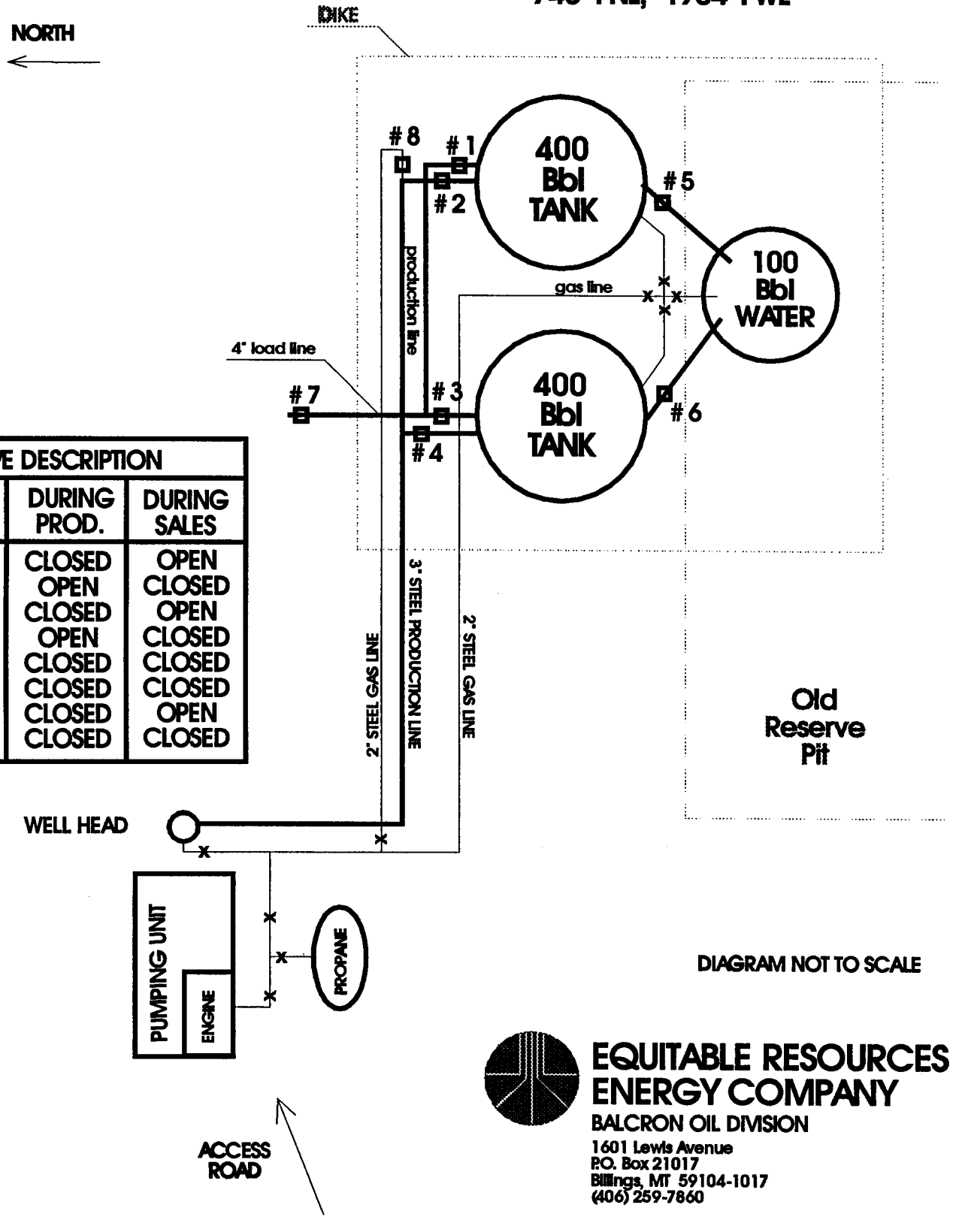
Approved by Bobbie Schuman Title _____ Date _____
Conditions of approval, if any:

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 Monument Federal 21-25
Production Facility Diagram

Balcron Monument Federal 21-25
NE NW Sec. 25, T8S, R17E
Uintah County, Utah
Federal Lease # U-67845
748' FNL, 1964' 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
VALVE #8	CLOSED	CLOSED

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

Form 3160-5 UNITED STATES
(June 1990) DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

5. Lease Designation and Serial No.
U-67845

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

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

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

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

8. Well Name and No.
Balcron Monument Federal #21-25

2. Name of Operator
EQUITABLE RESOURCES ENERGY COMPANY, BALCRON OIL DIVISION

9. API Well No.
43-047-32528

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

10. Field and Pool, or Exploratory Area
Undesignated / Green River

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SURFACE: NE NW Section 25, T8S, R17E
TD: 747.6' FNL & 1963.6' 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 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.)*

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 in 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 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 Bureau of Land Management.

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

Signed Bobbie Schuman Title Regulatory and Environmental Specialist Date 12-21-94
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

Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

FORM 7

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

REPORT OF WATER ENCOUNTERED DURING DRILLING

1. Well name and number: Balcron Monument Federal #21-25

   API number: 43-047-32528

2. Well Location: QQ NE NW Section 25 Township 8S Range 17E County Duchesne

3. Well operator: Equitable Resources Energy Company, Balcron Oil Division

   Address: P.O. Box 21017

   Billings, MT 59104 Phone: (406) 259-7860

4. Drilling contractor: Union Drilling

   Address: Drawer 40

   Buckhannon, WV 26201 Phone: (304) 472-9037

5. Water encountered (attach additional pages as needed):

DEPTH		VOLUME (FLOW RATE OR HEAD)	QUALITY (FRESH OR SALTY)
FROM	TO		
		No measurable water encountered	
		during drilling operations.	

6. Formation tops: See Geological Report submitted separately.

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If an analysis has been made of the water encountered, please attach a copy of the report to this form.

I hereby certify that this report is true and complete to the best of my knowledge. Date: 12-21-94

Name & Signature: Bobbie Schuman, Bobbie Schuman Title: Regulatory and Environmental Specialist

(7/93)

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*

5. LEASE DESIGNATION AND SERIAL NO.: U-67845

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

7. UNIT AGREEMENT NAME: n/a

8. FARM OR LEASE NAME: Balcron Monument Federal

9. WELL NO.: #21-25

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

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: NE NW Section 25, T8S, R17E

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 CONFIDENTIAL

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: 747.6' FNL & 1963.6' FWL
At top prod. interval reported below
At total depth

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
43-047-32528	8-23-94	~~Duchesne~~ Uintah	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
10-20-94	10-30-94	11-28-94	5060.4' 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
6,300'	6246.32' KB	n/a	→	Sfc - TD	n/a

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 5308' - 6002' Green River

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: CNL/LDT, DLL, CBL/GR/CCL, MUD LOG. 11-94

27. WAS WELL CORED:

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#	399.55'	12-1/4"	230 sxs Class "G"	n/a
5-1/2"	15.5#	6290.32'	7-7/8"	194 sxs Super "G" and tail w/ 535 sxs 50-50 POZ.	n/a

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"	6063.92' KB	n/a

31. PERFORATION RECORD (*Interval, size and number*)
5998' - 6002' (4 SPF)
5337' (2 shots)
5328'-5334' (2 SPF)
5308'-5323' (2 SPF)

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32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
Please see attachment.	

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
11-28-94	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
12-20-94	24	n/a	→	157.68	235	6.19	1.5

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
n/a	n/a	→	157.68	235	6.19	34 deg.

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): Used for fuel.

TEST WITNESSED BY: Dale Griffin

35. LIST OF ATTACHMENTS: Acid, shot, fracture, cement squeeze information attached.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Bobbie Schuman TITLE Regulatory and Environmental Specialist DATE 12-21-94

*(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.

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 Geological Report submitted separately.		

BALCRON MONUMENT FEDERAL #21-25
Undesignated Field
U-67845
NE NW Section 25, T8S, R17E
County, Utah
Uintah

BREAK DOWN AND FRACTURE INFORMATION

ACID/BREAK DOWN

5998'KB - 6002'KB	11-10-94 by Western w/500 gals 15% HCL acid and 2100 gals 2% KCL water. No ATR or ATP reported. ISIP 1200 psi. Spot acid at packer, set packer, pump 2 bbls/bbl. Initial break at 2200 psi @ 1.5 BPM. Back to 1500 psi @ 4 BPM. Surge balls off, pump for rate, 6.2 BPM @ 2600 psi. .64 Frac Graient.
5308'KB - 5337'KB	11-14-94 by Western w/3,276 gals 2% KCL wtr. ATP 2500 psi, max 4000 psi. ATR 5 BPM, max 6.1 BPM. ISIP 400. Pump 2 balls/bbl, 4 bbls/min. Initial break at 1300 psi at 2 BPM. Back to 1200 psi @ 4.2 BPM. Surge balls off, pump for rate, 6.4 BPM @ 1700 psi.

FRACTURE

5998' KB - 6002'KB	11-11-94 by Western w/17.020# 20/40 mesh sand and 10,360# 16/30 mesh sand w/ 12,894 gals 2% KCL gelled water. ATP 3000 psi, max 3100 psi. ATR 30 BPM, max 31.1 BPM. ISIP 1950 psi, 5 min 1670 psi, 10 min 1510 psi, 15 min 1440 psi, and 30 min 1200 psi. Frac Gradient .765. 30 minute forced closure at .5 BPM.
5308'KB - 5337'	11-17-94 by Western w/80,580# 20/40 mesh sand and 67,420# 16/30 mesh sand w/ 39,102 gals 2% KCL gelled wtr. ATP 1600 psi, max 1890 psi. ATR 31 BPM, max 32 BPM. ISIP 1380 psi, 5min 1110 psi, 10 min 1040 psi, 15 min 990' and 30 min 900 psi. Load hole w/30 bbls. .699 frac gradient.

DAILY OPERATING REPORT

BALCRON MONUMENT FEDERAL #21-25
Location: NE NW Section 25, T8S, R17E
Duchesne County, Utah **---TIGHT HOLE---**
747.6' FNL, 1963.6' FWL
PTD: 6,300' Formation: Green River
Undesignated Field
Elevations: 5060.4' GL
Contractor: Union Drilling #17
Operator: Balcron/EREC
Spud: 10-20-94 @ 6 p.m.
Casing: 8-5/8", 24#, J-55 @ 399.55'
5-1/2", 15.5#, J-55 @ 6290.32' KB
Tubing: 2-7/8", 6.5#, J-55 @ 6063.92' KB

10-12/19-94 Build location, install pit liner.
DC: $8,600 CC: $8,600

10-21-94 TD: 401' (401') Day 1
Formation: Uintah
MW air & mist
Present Operation: Drilling
RU, drill rat hole, drill hole & set conductor. NU air head & drill surface hole. Well spud @ 6 p.m. 10-20-94.
DC: $7,102 CC: $15,702

10-22-94 TD: 830' (415') Day 2
Formation: Uintah
MW Air & Mist
Present Operation: Drilling
Drill surface hole, blow hole, TOH, ND air head. Run 8-5/8" csg run as follows:

Guide Shoe	.60'
1 jt 8-5/8", 24# Shoe Jt	43.30'
Insert Float	------
8 jts 8-5/8", 24#, J-55	345.65'
	389.55'
Landing jt	+10.00'
8-5/8" csg landed @	399.55'

Cmt by Western w/230 sxs "G" w/2% CCL & 1/4#/sx Cello-Seal. 6 bbls cmt back to pit. Plug down 9:30 a.m. WOC NU & install well head. Test BOP & manifold to 2000# - OK. Test surface pipe to 1500 # - OK. TIH, drill cmt, drill & survey.
DC: $14,751 CC: $30,453

10-23-94 TD: 2,155' (1,325') Day 3
Formation: Green River
MW air & mist
Present Operation: Drilling
Drill, survey, & clean on rig.
DC: $17,502 CC: $47,955

DAILY OPERATING REPORT

BALCRON MONUMENT FEDERAL #21-25
Location: NE NW Section 25, T8S, R17E
Duchesne County, Utah **---TIGHT HOLE---**

10-24-94 TD: 3,320' (1,165') Day 4
Formation: Green River
MW 8.5 VIS 27
Present Operation: Drilling
Drill, survey, & clean on rig. Hole making water.
DC: $16,355 CC: $64,310

10-25-94 TD: 4,363' (1,042') Day 5
Formation: Yellow Zone
MW 8.5 VIS 27 pH air & mist
Present Operation: Blow hole to clean.
Drill, survey, clean on rig & blow hole to clean.
DC: $14,148 CC: $78,458

10-26-94 TD: 4,802' (440') Day 6
Formation: Yellow Zone
MW 8.5 VIS 27
Present Operation: Drilling
Load hole w/fluid & circ, TOH, change bit, TIH, drill, survey, & clean on rig. PU 1 drill collar on trip.
DC: $8,514 CC: $86,972

10-27-94 TD: 5,177' (375') Day 7
Formation: R Zone
MW 8.5 VIS 27
Present Operation: Drilling
Drill, survey, trip for hole in pipe. Could not find hole. Back to drilling.
DC: $6,844 CC: $93,816

10-28-94 TD: 6,214' (488') Day 9
Formation: Blue Zone
MW 8.6 VIS 27
Present Operation: Drilling
Drill & clean on rig. Fair show in B Zone. BGG - 70 to 80 units. CG - 150 to 200 units.
DC: $8,220 CC: $110,342

10-30-94 TD: 6,300' (96') Day 10
Formation: Blue Zone
MW 8.7 VIS 27
Present Operation: Change BOP rams.
Drill, circ, drop survey, TOOH for logs. Log well by Schlumberger. TIH, LD drill pipe & collars. Turn clock back 1 hr.
DC: $17,371 CC: $127,713

DAILY OPERATING REPORT

BALCRON MONUMENT FEDERAL #21-25
Location: NE NW Section 25, T8S, R17E
Duchesne County, Utah **---TIGHT HOLE---**

10-31-94 TD: 6,300' (0') Day 11
Formation: Blue Zone
Present Operation: Moving Rig.
Change BOP rams, test BOP to 2000 - OK. Run 5-1/2" csg as follows:

Guide Shoe	.60'
1 jt 5-1/2" 15.5# shoe jt	42.40'
Float collar	1.00'
148 jts 5-1/2" 15.5# J-55 csg	6237.32'
	6281.32'
Landing Jt	9.00'
5-1/2" csg set @	6290.32'
PBTD @	6246.32'

Cmt by Western. Lead cmt 194 sxs Super "G", 47#/sx "G", 20#/sx POZ A, 17#/sx CSE, 3% salt, 2% gel, 2#/sx HiSeal, & 1/4#/sx Celloseal. Tail w/535 sxs 50-50 POZ & 2% gel, & 1/4#/sx Celloseal & 2#/sx HiSeal2. Plug down @ 1 p.m. Set slips & ND. Clean mud tanks. Rig released @ 5 p.m.
DC: $60,276 CC; $187,989

11-8-94 Completion
MIRU Cannon Well Service Rig #2. MI tanks & pump, MI tbg. NU 5M well head, NU BOP. TIH w/4-3/4" bit, scraper, & 100 jts 2-7/8" tbg. SWIFN.
DC: $3,948 CC: $187,989

11-9-94 Completion
Continue in hole w/bit & scraper, tag PBTD @ 6244' KB. Circ hole clean w/135 bbls 2% KCL wtr. TOOH w/tbg & tools. RU Schlumberger & run CBL/GR from PBTD to 150' above cmt top, cmt top @ 1870' KB. Perforate 5998'-6002' (4 SPF) . RD Schlumberger. SWIFN.
DC: $5,989 CC: $193,978

11-10-94 Completion
CP - 0 psi. TIH w/RBP, retrieving tool, 4' x 2-3/8" sub, HD packer, 2-3/8" x 2-7/8" X over, SN & 194 jts 2-7/8" tbg. Set BP @ 6036' KB, set packer @ 5963' KB, EOT 5970' KB. RU Western to Break down 5998'-6002' w/500 gals 15% HCL & 2100 gals 2% KCL wtr. ISIP 1200 psi. RD Western. Made 8 swab runs, recovered 43 bbls wtr & acid, trace oil. k Well swabbed down to SN. TOOH w/tbg & packer. SWIFN.
DC: $6,224 CC: $200,202

11-11-94 Completion
RU Western to frac 5998'-6002' w/17,020# 20/40 mesh sand & 10,360# 16/30 mesh sand in 12,894 gals 2% KCL gelled wtr. ATP 3000 psi, max 3100 psi. ATR 30 bpm, max 31.1 bpm. ISIP 1950 psi, 5 min 1670 psi, 10 min 1510 psi, 15 min 1440 psi, & 30 min 1200 psi. SWIFN.
DC: $23,616 CC: $223,818

DAILY OPERATING REPORT

BALCRON MONUMENT FEDERAL #21-25
Location: NE NW Section 25, T8S, R17E
Duchesne County, Utah **---TIGHT HOLE---**

11-12-94 Completion
CP 680 psi, flow back 80 BW. TIH w/retrieving tool, 2-3/8" x 4' sub, HD packer, 2-3/8" x 2-7/8" XO, SN, & 191 jts 2-7/8" tbg. Tag sand @ 5920' KB, circ down to BP @ 6036' KB, set packer @ 5963' KB. Made 28 swab runs, recovered 227 bbls fluid, total, 2 BO & 225 BW, good gas. No sand last 7 runs. 10% oil last 5 runs. FL stable @ 1800' last 12 runs. SWI for weekend.
DC: $1,892 CC: $225,710

11-14-94 Completion
CP 0, TP 25#. Fluid level @ surface. Well flowing, flow back 10 BO, kill well w/KCL wtr. TIH, tag sand @ 6016' KB, circ down to & retrieve BP @ 6036' KB. Reset BP @ 5421' KB, TOOH w/tbg & packer. RU Schlumberger to perf 5308'-23, 5328'-34' & 5337 (2 SPF). TIH w/HD packer & 170 jts 2-7/8" tbg, set packer @ 5290' KB. RU Western to do KCL break down on perfs w/3,276 gals 2% KCL wqtr. ATP 2500 psi, max 4000 psi. ATR 5 bpm, max 6.1 bpm. ISIP 400 psi. Pump 2 balls/bbl, 4 bpm. Made 9 swab runs, swab back 59 bbls fluid. TOOH w/tbg & packer. TIH w/1 jt 2-7/8" tbg, w/BH pressure bomb inside, 1 perf sub 2-7/8" x 4', 1 blanking sub, 1 HD packer, SN, & 168 jts 2-7/8" tbg. Set packer. SWIF for 36 hrs.
DC: $5,197 CC: $230,907

11-16-94 Completion
TP & CP - 0#. Unset packer, TOOH w/tbg & tools. Prepare to frc. SDFN.
DC: $805 CC: $231,712

11-17-94 Completion
BP @ 5421' KB. RU Western to frac 5308'-23', 5328'-34', & 5337' w/80,580# 20/40 mesh sand & 67,420# 16/30 mesh sand w/39,102 gals 2% KCL gelled wtr. ATP 1600 psi, max 1890 psi. ATR 31 bpm, max 32 bpm. ISIP 1380 psi, 5 min 1110 psi, 10 min 1040 psi, 15 min 990 psi, and 30 min 900 psi. Load hole w/30 bbls.
DC: $43,550 CC: $275,262

11/18/94 Completion
TIH w/retrieving tool, 2-3/8 x 4' sub, HD pkr, Xover, seat nipple, and 170 jts 2-7/8" tubing. Tag sand at 5,282' KB. Circulate down to BP at 5421' KB. Set pkr at 5290' KB. Made 27 swab runs, recovered 164 BW, trace of oil, good gas. Last 11 runs, FL stable at 1700'. No sand last 7 runs. Release pkr. Tag sand at 5400' KB. Circulate down to BP at 5421' KB. Reset pkr at 5290'. SWIFN.
DC: $2,117 CC: $277,379

DAILY OPERATING REPORT

BALCRON MONUMENT FEDERAL #21-25
Location: NE NW Section 25, T8S, R17E
Duchesne County, Utah **---TIGHT HOLE---**

11/19/94 Completion
Release pkr; could not release BP. TOOH w/tubing, pkr, and retrieving tool. TIH w/retrieving tool and 174 jts 2-7/8" tubing. Could not get BP released. Pull 4 jts tubing. SWIF weekend.
DC: $4,426 CC: $281,805

11/21/94 Completion
Try to release BP. TOOH w/tubing and retrieving head. TIH w/retrieving head, bumper sub, hydraulic jars, and 195 jts 2-7/8" tubing. Jar BP loose, TOOH w/tubing, tools, and BP. TIH w/tubing production string. Shut well in, RDMO. Pressure tbg. 1000 psi, o.k. Load to recover: 885 BW.
DC: $3,362 CC: $285,167

11-28-94 Start well pumping @ 11:00 a.m. @ 7.5 SPM, 72" stroke.

EQUITABLE RESOURCES
ENERGY COMPANY
BALCRON OIL DIVISION
1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104 1617

TREATMENT REPORT

Date of Treatment: 11-10-94

Well Name Monument fed. 21-25 SEC. 25 TWN. 8S RNG 17E
Field Monument Butte County Uintah State utah

Formation/Perforations: Green River / 5998-6002

Treatment type: HCL BREAK DOWN Total Number of Holes: 16
Treatment Company: WESTERN

Volume	Fluid	Conc.	Sand Characteristics: Size	Volume
Gal.				
Gal.				
Gal.				
Gal.			/	#
Gal.			/	#
Gal.			/	#
Gal.			/	#
Gal.			/	#
Gal.			/	#
Gal.			/	#
Gal.			/	#

TOTAL FLUID PUMPED: 500 gal. 15 % HCL Acid
2100 gal. 2% KCL WATER fluid

TOTAL SAND VOL.: ______ lbs. ______ / ______ sand
______ lbs. ______ / ______ sand
______ lbs. ______ / ______ sand
______ lbs. ______ / ______ bauxite

Flushed well with ______ gal. of ______
32 ball sealers were pumped. Was ball action seen? ~~HHT HHT I~~ (tally: 11)
Barrels of Load to Recover 62 BUR. NO BALL OFF
Avg. Treating Pressure = ______ psi, max = ______ psi, min = ______ psi.
Avg. Treating Rate = ______ bpm, max = ______ bpm, min = ______ bpm.
ISIP = 1200 psi, 5 min. = ______ psi, 10 min. = ______ psi, 15 min. = ______ psi.
Well will be shut in for 0 hrs. before bringing back fluid.

REMARKS: SPOT ACID AT PKR., SET PKR., PUMP 2 BALLS PER BBL.
INITIAL BREAK AT 2200 PSI AT 1.5 BPM
BACK TO 1500 PSI AT 4.0 BPM
SURGE BALLS OFF, PUMP FOR RATE, 6.2 BPM AT 2600 PSI.
.64 FRAC GRAIENT

Well site Supervisor: [signature]

EQUITABLE RESOURCES ENERGY COMPANY
BALCRON OIL DIVISION
1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104-1017

TREATMENT REPORT

Date of Treatment: 11-11-94

We Name Monument Fed 21-25 SEC. 25 TWN. 8S RNG 17E
Fie Monument Butte County Duchesne State Utah

Formation/Perforations: Green / 5998-6002

Treatment type: SAND FRAC Total Number of Holes: 16
Treatment Company: WESTERN

Volume		Fluid	Conc.	BPM	PSI	Sand Characteristics Size	Volume
	Gal.						
	Gal.						
48	2000 Gal.	2% KCL WATER	PAD 0	30.8	2880		
16	600 Gal.	"	2 #	30.9	2980	20/40	1200 #
17	600 Gal.	"	4 #	30.8	3000	20/40	2400 #
14	600 Gal.	"	5 #	30.8	3000	20/40	3000 #
45	1500 Gal.	"	6 #	20.6	2890	20/40	9000 #
38	1200 Gal.	"	7 #	30.8	2580	16/30	10360 #
142	5964 Gal.	" FLUSH	0	30.8 / 31.1	2500 / 2750	-	#
	Gal.					/	#
	Gal.					/	#

TOTAL FLUID PUMPED: ____ gal. ____ % Acid
307 gal. 2% KCL WATER fluid

TOTAL SAND VOL.: 17020 lbs. 20/40 sand
10360 lbs. 16/30 sand
____ lbs. / sand
____ lbs. / bauxite

Flushed well with 5964 gal. of 2% KCL WATER
____ ball sealers were pumped. Was ball action seen? ____
Barrels of Load to Recover 307 BLTR.
Ave. Treating Pressure = 3000 psi, max = 3100 psi, min = 2550 psi.
Ave. Treating Rate = 30.0 bpm, max = 31.1 bpm, min = 20.6 bpm.
ISIP = 1950 psi, 5 min. = 1670 psi, 10 min. = 1510 psi, 15 min. = 1440 psi.
Well will be shut in for 15 hrs. before bringing back fluid. 30 MIN. = 1200 PSI

REMARKS: FRAC GRADIENT .765
30-MINUTE FORCED CLOSURE AT .5 BPM

Well site Supervisor: Dale Hanks

EQUITABLE RESOURCES ENERGY COMPANY
BALCRON OIL DIVISION
1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104-1017

RECEIVED
DEC 27 1994
DIV. OF OIL, GAS & MINING

TREATMENT REPORT

Date of Treatment: 11-14-94

We Name: Monument Fed. 21-25 SEC. 25 TWN. 8S RNG. 17E
Fie : Monument Butte County Uintah State Utah
Formation/Perforations: Green River / 5308-23, 5328-34, 5337

Tre tment type: KCL BREAK DOWN Total Number of Holes: 40
Tre tment Company: WESTERN

Volume	Fluid	Conc.	Sand Characteristics Size	Volume
Gal.				
Gal.				
Gal.				
Gal			/	#
Gal.			/	#
Gal.			/	#
Gal.			/	#
Gal.			/	#
Gal.			/	#
Gal.			/	#
Gal.			/	#

TOTAL FLUID PUMPED: gal. % Acid
gal. fluid

TOTAL SAND VOL.: lbs. / sand
lbs. / sand
lbs. / sand
lbs. / bauxite

Flushed well with gal. of
80 ball sealers were pumped. Was ball action seen?
Barrels of Load to Recover 78 BLTR.
Avg. Treating Pressure = 2500 psi, max = 4000 psi, min = 1000 psi.
Avg. Treating Rate = 5.0 bpm, max = 6.1 bpm, min = 4.2 bpm.
ISIP = 400 psi, 5 min. = psi, 10 min. = psi, 15 min. = psi.
Well will be shut in for 0 hrs. before bringing back fluid.

REMARKS: PUMP 2 BALLS PER BBL, 4 BBL. PER. MIN.
INITIAL BREAK AT 1300 PSI AT 2.0 BPM
BACK TO 1200 PSI AT 4.2 BPM.
SURGE BALLS OFF, PUMP FOR RATE, 6.4 BPM AT 1700 PSI

Well site Supervisor: Dale

EQUITABLE RESOURCES ENERGY COMPANY
BALCRON OIL DIVISION
1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104-1017

RECEIVED
DEC 27 1994
DIV OF OIL, GAS & MINING

TREATMENT REPORT

Date of Treatment: 11-17-94

We Name Monument Fed. 21-25 SEC. 25 TWN. 8S RNG 17E
Fie Monument Butte County Uintah State Utah

Formation/Perforations: Green River / 5308-28, 5320-34, 5337

Treatment type: SAND FRAC Total Number of Holes: 46
Treatment Company: WESTERN

Volume		Fluid	Conc.	Sand Characteristics BPM	PSI	Size	Volume
	Gal.						#
169	7100 Gal.	2% KCL WATER PAD		30.7	1840	—	#
15	600 Gal.	2% KCL WATER	1 #	30.7	1810	20/40	#
18	700 Gal.	"	2 #	31.0	1770	20/40	#
49	1800 Gal.	"	3 #	31.2	1670	20/40	#
99	3500 Gal.	"	4 #	31.4	1610	20/40	#
175	6000 Gal.	"	5 #	31.7	1630	20/40	#
139	4600 Gal.	"	6 #	32.0	1450	20/40	#
139	4600 Gal.	"	6 #	31.6	1320	16/30	#
169	5484 Gal.	"	7 #	31.5	1400	16/30	#
124	5200 Gal.	" FLUSH	0	32.0	1570	—	#

TOTAL FLUID PUMPED: _____ gal. _____ % _____ Acid fluid
39102 gal. 2% KCL WATER fluid

TOTAL SAND VOL.: 80,580 lbs. 20/40 sand
67,420 lbs. 16/30 sand
_____ lbs. _____ sand
_____ lbs. _____ bauxite

Flushed well with 5200 gal. of 2% KCL WATER
_____ ball sealers were pumped. Was ball action seen? _____
Barrels of Load to Recover 931 BLTR.
Avg. Treating Pressure = 1600 psi, max = 1890 psi, min = 1320 psi.
Avg. Treating Rate = 31.0 bpm, max = 32.0 bpm, min = 26.0 bpm.
ISIP = 1390 psi, 5 min. = 1110 psi, 10 min. = 1040 psi, 15 min. = 990 psi.
Well will be shut in for 22 hrs. before bringing back fluid. 30 min. = 900 psi

REMARKS: LOAD HOLE W/30 BBL.

.699 FRAC GRADIENT

Well site Supervisor: Dale

DONALD CANNON, President

PHONE 789-1218
1-828-7591
1-828-7485

CANNON WELL SERVICE, INC.

P.O. Box 906
VERNAL, UTAH 84078

DAILY REPORT

DATE 11-18-94 LEASE Monument Fed WELL NO. Fed 21-25

TANK NO. TANK SIZE BBLS. PER INCH CO. REP. Dale Griffin

	TIME	FLUID LEVEL	PULLED FROM	FLUID LEVEL IN TANK FT.	FLUID LEVEL IN TANK IN.	BBL. IN TANK	BBLS. PER INCH	TOT. BBLS. SWABBED	FLUID ANALYSIS OIL	WATER	MUD	BS	GAS
1	10:30	Surface	1000'				5 1/2	5 1/2		100%			
2		200'	1200'				5 1/2	11		100%			
3		350'	1350'				5 1/2	16 1/2		100%			
4		450'	1450'				5 1/4	21 3/4		100%			gascut
5		600'	1600'				5 1/2	27 1/4		100%			"
6		700'	1700'				5 1/4	32 1/2		100%			"
7		850'	1850'				5	37 1/2		100%			"
8		1000'	2000'				5 1/2	43		100%			"
9		1100'	2100'				5 1/4	48 1/4		100%			"
10		1250'	2250'				5 1/4	53 1/2	trace	100%			"
11		1350'	2350'				5	58 1/2	trace	100%			"
12		1450'	2450'				5 1/2	64	trace	100%			"
13		1500'	2500'				5 1/4	69 1/4	trace	100%			"
14		1600'	2600'				5 1/4	74 1/2	trace	100%			"
15		1650'	2650'				5 1/4	79 3/4	trace	100%			"
16		1650'	2650'				5 1/2	85 1/4	trace	100%			"
17		1700'	2700'				5 1/4	90 1/2	trace	100%			"
18		1700'	2700'				5 1/2	96	trace	100%			"
19		1700'	2700'				5	101	trace	100%			"
20		1650'	2650'				5 1/4	106 1/4	trace	100%			"
21		1650'	2650'				5 1/4	111 1/2	trace	100%			"
22		1700'	2700'				5 1/4	116 3/4	trace	100%	Clean		"
23		1650'	2650'				5 1/2	122 1/4	trace	100%			"
24		1700'	2700'				5 1/2	127 3/4	trace	100%			"
25		1700'	2700'				5 1/4	[illegible]	trace	100%			"
26		1700'	2700'				5 1/2	138 1/2	trace	100%			"
27		1700'	2700'				5 1/2	144	trace	100%			"
28													
29													
30													

Flowed back 20 bbls going in hole

n 3160-5
e 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
JAN 30 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-67845

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

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

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

8. Well Name and No.: Balcron Federal #21-25

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

9. API Well No.: 43-047- 32528

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

10. Field and Pool, or Exploratory Area: Undesignated/Green River

Location of Well (Footage, Sec., T., R., M., or Survey Description)
NE NW Section 25, T8S, R17E
748' FNL, 1964' FWL

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

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 venting gas	[ ] 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 put on production and the gas vented while operator was waiting on hookup of Interline's pipeline. The pipeline is now completed and operator is in the final stages of hooking up to that pipeline. It will no longer be necessary to vent gas from this well.

ORIGINAL: Vernal Bureau of Land Management
COPY: Utah Division of Oil, Gas and Mining

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

Signed Bobbie Schuman Title Regulatory and Environmental Specialist Date January 27, 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

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

RECEIVED
SEP 07 1995
DIV. OF OIL, GAS & MINING

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

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

2. Name of Operator
EQUITABLE RESOURCES ENERGY COMPANY, BALCRON OIL DIVISION

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SURFACE: NE NW Section 25, T8S, R17E
TD: 747.6' FNL, 1963.6' FWL

5. Lease Designation and Serial No.
U-67845

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

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

8. Well Name and No.
Balcron Monument Federal #21-25

9. API Well No.
43-047-32528

10. Field and Pool, or Exploratory Area
Undesignated / Green River

11. County or Parish, State
Uintah ~~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	[X] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[ ] Other	[ ] 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.)*

Additional perforations were added to the Green River Formation as follows:
3919' - 3929' (3 holes) 3897' - 3903' (2 holes)
3884' - 3895' (2 holes) 3690' - 3704' (7 holes)
The perforations were broke down as follows:
3690' - 3704' with 1,512 gallons 2% KCL water.
3884' - 3929' with 1,806 gallons 2% KCL water.

The perforations were fractured as follows:
3690' - 3929' with 117,300# 16/30 mesh sand with 29,736 gallons 2% KCL gelled water.

The well was put back on production on 8-30-95 at 5:30 p.m.

Withdraw Sundry Notice Submitted in Error. "Not Recompleted" [initials] 11-18-96

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

Signed Bobbie Schuman Title Regulatory and Environmental Specialist Date 9-5-95

(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 3160-5 (June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
SEP 15 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

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

2. Name of Operator
EQUITABLE RESOURCES ENERGY COMPANY, BALCRON OIL DIVISION

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SURFACE: NE NW Section 25, T8S, R17E
TD: 747.6' FNL, 1963.6' FWL

5. Lease Designation and Serial No.
U-67845

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

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

8. Well Name and No.
Balcron Monument Federal #21-25

9. API Well No.
43-047-32528

10. Field and Pool, or Exploratory Area
Undesignated / Green River

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	[X] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[ ] Other	[ ] 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.)*

Additional perforations were added to the Green River Formation as follows:
3919' - 3929' (3 holes) 3897' - 3903' (2 holes)
3884' - 3895' (2 holes) 3690' - 3704' (7 holes)

The perforations were broke down as follows:
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3884' - 3929' with 1,806 gallons 2% KCL water.

The perforations were fractured as follows:
3690' - 3929' with 117,300# 16/30 mesh sand with 29,736 gallons 2% KCL gelled water.

RECEIVED
SEP 07 1995

The well was put back on production on 8-30-95 at 5:30 p.m.

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

Signed Bobbie Schuman Title Regulatory and Environmental Specialist Date 9-5-95

(This space for Federal or State office use)

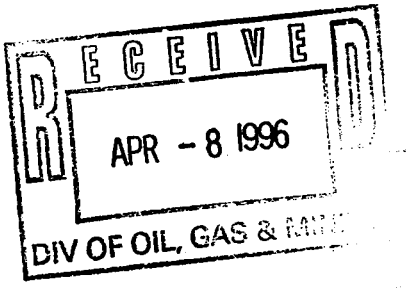
Approved by NOTED Title _____ Date SEP 11 1995
Conditions of approval, if any:

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
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

SUNDRY NOTICES AND REPORTS ON WELLS

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

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.

7. Unit Agreement Name: See attached listing

1. Type of Well: OIL ☐ GAS ☐ OTHER: See attached listing

8. Well Name and Number: See attached listing

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

9. API Well Number: See attached listing

3. Address and Telephone Number: 1601 Lewis Avenue Avenue; Billings, MT 59102 (406) 259-7860

10. Field and Pool, or Wildcat: See attached listing

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.

1996

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 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-67845

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 Monument Federal 21-25

2. Name of Operator: Equitable Resources Energy Company

9. API Well No.: 43-047-32528

3. Address and Telephone No.: 1601 Lewis Avenue, Billings, MT 59102 (406) 259-7860

10. Field and Pool, or Exploratory Area: Undesignated/Green River

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NE NW Section 25, T8S, R17E
747.6' FNL & 1963.6' FWL

11. County or Parish, State: ~~Duchesne~~ Uintah 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 Withdraw Sundry Notice	[ ] 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.)*

On 9-15-95 the attached recompletion sundry was submitted in error for this well. Please disregard the sundry as this well was not recompleted.

14. I hereby certify that the foregoing is true and correct
Signed Molly Conrad Title Operations Secretary Date 4-12-96

(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

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:
1-LEP 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 ~~KKK~~ 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	(former operator)	EQUITABLE RESOURCES ENERGY C(
(address)	1601 LEWIS AVE	(address)	BALCRON OIL DIVISION
	BILLINGS MT 59102-4126		1601 LEWIS AVE
			BILLINGS MT 59102-4126
	phone (406) 259-7860		phone (406) 259-7860
	account no. N9890		account no. N9890

Well(s) (attach additional page if needed):

Name: **SEE ATTACHED**	API: 43-047-32528	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) Safeco 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

LDR 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

9/6/10 BLM/BIA "Formal approval not necessary".

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)
BALCRON FEDERAL 31-5Y 4304732503 11680 09S 18E 5	GRRV					
BALCRON MONUMENT FEDERAL 21-25 4304732528 11683 08S 17E 25	GRRV					
MONUMENT FEDERAL 12-25 4304732526 11694 08S 17E 25	GRRV					
MONUMENT FEDERAL 32-25 4304732524 11707 08S 17E 25	GRRV					
MONUMENT FEDERAL 31-25 4304732530 11710 08S 17E 25	GRRV					
BALCRON FEDERAL 12-22Y 4301331476 11717 08S 17E 22	GRRV					
BALCRON MONUMENT FEDERAL 33-25 4304732525 11729 08S 17E 25	GRRV					
MONUMENT FEDERAL 23-25 4304732529 11730 08S 17E 25	GRRV					
BALCRON MONUMENT STATE 24-2 4304732612 11736 09S 17E 2	GRRV					
BALCRON MONUMENT STATE 13-2 4301331482 11738 09S 17E 2	GRRV					
BALCRON MONUMENT STATE 22-2 4304732610 11742 09S 17E 2	GRRV					
BALCRON MONUMENT STATE 12-2 4301331481 11745 09S 17E 2	GRRV					
BALCRON FEDERAL 31-19Y 4304732614 11751 09S 18E 19	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:

Balcron Monument Fed. #14-12J	Monument Butte	SW SW	12	9S	16E	Duchesne	UT	WIW	Green River	U-035521-A	43-013-31411	660' FSL, 660' FWL	Vernal	Jonah
Balcron Monument Fed. #14-15	Monument Butte	SW SW	15	9S	16E	Duchesne	UT	PND	Green River	U-017985	43-013-31381	772' FSL, 543' FWL	Vernal	
Balcron Monument Fed. #14-26	Monument Butte	SW SW	26	8S	16E	Duchesne	UT	PND	Green River	U-34346	43-013-31512	660' FSL, 660' FWL	Vernal	
Balcron Monument Fed. #14-3-9-17Y	Monument Butte	SW SW	3	9S	17E	Duchesne	UT	Oil	Green River	U-64381	43-013-31535	671' FSL, 792' FWL	Vernal	
Balcron Monument Fed. #14-4	Monument Butte	SW SW	4	9S	16E	Duchesne	UT	PND	Green River	U-73086	43-013-31430	719' FSL, 607' FWL	Vernal	
Balcron Monument Fed. #14-5	Monument Butte	SW SW	5	9S	17E	Duchesne	UT	Oil	Green River	U-020250	43-013-31385	556' FSL, 517' FWL	Vernal	Jonah
Balcron Monument Fed. #14-8	Monument Butte	SW SW	8	9S	17E	Duchesne	UT	Oil	Green River	UTU-74108	43-013-31398	660' FSL, 660' FWL	Vernal	Beluga
Balcron Monument Fed. #21-10-9-17Y	Monument Butte	NE NW	10	9S	17E	Duchesne	UT	Oil	Green River	U-65210	43-013-31537	807' FNL, 2120' FWL	Vernal	
Balcron Monument Fed. #21-14J	Monument Butte	NE NW	14	9S	16E	Duchesne	UT	WIW	Green River	U-096547	43-013-31421	518' FNL, 1850' FWL	Vernal	Jonah
Balcron Monument Fed. #21-17	Monument Butte	NE NW	17	9S	17E	Duchesne	UT	Oil	Green River	U-3563-A	43-013-31387	500' FNL, 1980' FWL	Vernal	Beluga
Balcron Monument Fed. #21-25	Undesignated	NE NW	25	8S	17E	Uintah	UT	Oil	Green River	U-67845	43-047-32528	748' FNL, 1964' FWL	Vernal	
Balcron Monument Fed. #22-12J	Monument Butte	SE NW	12	9S	16E	Duchesne	UT	Oil	Green River	U-096550	43-013-15796	2018' FNL, 2099' FWL	Vernal	Jonah
Balcron Monument Fed. #22-14J	Monument Butte	SE NW	14	9S	16E	Duchesne	UT	PND	Green River	U-096547	43-013-31489	2134' FNL, 2198' FWL	Vernal	Jonah
Balcron Monument Fed. #22-17	Monument Butte	SE NW	17	9S	17E	Duchesne	UT	Oil	Green River	UTU-72106	43-013-31429	1800' FNL, 1980' FWL	Vernal	Beluga
Balcron Monument Fed. #22-20-9-18Y	Monument Butte	SE NW	20	9S	18E	Uintah	UT	Oil	Green River	U-64917	43-047-32711	1980' FNL, 1980' FWL	Vernal	
Balcron Monument Fed. #22-22-8-17Y	Monument Butte	SE NW	22	8S	17E	Duchesne	UT	Oil	Green River	U-67845	43-013-31538	1945' FNL, 2030' FWL	Vernal	
Balcron Monument Fed. #22-5	Monument Butte	SE NW	5	9S	17E	Duchesne	UT	WIW	Green River	U-020252	43-013-31384	1853' FNL, 1980' FWL	Vernal	Jonah
Balcron Monument Fed. #23-11	Monument Butte	NE SW	11	9S	16E	Duchesne	UT	WIW	Green River	U-096550	43-013-31369	1787' FSL, 2147' FWL	Vernal	Jonah
Balcron Monument Fed. #23-15	Monument Butte	NE SW	15	9S	16E	Duchesne	UT	WIW	Green River	U-017985	43-013-31373	1724' FSL, 2078' FWL	Vernal	Jonah
Balcron Monument Fed. #23-24-8-17		NE SW	24	8S	17E	Uintah	UT	PND	Green River				Vernal	
Balcron Monument Fed. #23-25	Undesignated	NE SW	25	8S	17E	Uintah	UT	Oil	Green River	U-67845	43-047-32529	1927' FSL, 2139' FWL	Vernal	
Balcron Monument Fed. #23-5	Monument Butte	NE SW	5	9S	17E	Duchesne	UT	Oil	Green River	U-020252	43-013-31383	1816 'FSL, 2057'FWL	Vernal	Jonah
Balcron Monument Fed. #24-12J	Monument Butte	SE SW	12	9S	16E	Duchesne	UT	Oil	Green River	U-035521-A	43-013-31409	539' FSL, 1777' FWL	Vernal	Jonah
Balcron Monument Fed. #24-25	Undesignated	SE SW	25	8S	17E	Uintah	UT	Oil	Green River	U-67845	43-047-32669	653' FSL, 2028' FWL	Vernal	
Balcron Monument Fed. #24-5	Monument Butte	SE SW	5	9S	17E	Duchesne	UT	WIW	Green River	U-020252	43-013-31375	765' FSL, 2243' FWL	Vernal	Jonah
Balcron Monument Fed. #24-6	Monument Butte	SE SW	6	9S	17E	Duchesne	UT	WIW	Green River	U-020252-A	43-013-31363	504' FSL, 1613' FWL	Vernal	Jonah
Balcron Monument Fed. #31-17	Monument Butte	NE NW	17	9S	17E	Duchesne	UT	Oil	Green River	UTU-72106	43-013-31428	660' FNL, 1980' FEL	Vernal	Beluga
Balcron Monument Fed. #31-1J	Monument Butte	NW NE	1	9S	16E	Duchesne	UT	Oil	Green River	U-33992	43-013-31413	660' FNL, 1980' FEL	Vernal	Jonah
Balcron Monument Fed. #31-25	Undesignated	NW NE	25	8S	17E	Uintah	UT	Oil	Green River	U-67845	43-047-32530	660' FNL, 1980' FEL	Vernal	
Balcron Monument Fed. #31-7J	Monument Butte	NW NE	7	9S	17E	Duchesne	UT	WIW	Green River	U-44426	43-013-31405	831' FNL, 1782' FEL	Vernal	Jonah
Balcron Monument Fed. #32-11	Monument Butte	SW NE	11	9S	16E	Duchesne	UT	WIW	Green River	U-096550	43-013-31386	2059' FNL, 1763' FEL	Vernal	Jonah
Balcron Monument Fed. #32-12J	Monument Butte	SW NE	12	9S	16E	Duchesne	UT	WIW	Green River	U-035521	43-013-31419	1805' FNL, 2139' FEL	Vernal	Jonah
Balcron Monument Fed. #32-14J	Monument Butte	SW NE	14	9S	16E	Duchesne	UT	PND	Green River	U-096547	43-013-31490	1980' FNL, 1980' FEL	Vernal	Jonah
Balcron Monument Fed. #32-15	Monument Butte	SW NE	15	9S	16E	Duchesne	UT	WIW	Green River	U-017985	43-013-31368	1868' FNL, 1993' FEL	Vernal	Jonah
Balcron Monument Fed. #32-17	Monument Butte	SW NE	17	9S	17E	Duchesne	UT	Oil	Green River	UTU-72106	43-013-31465	1880' FNL, 1980' FEL	Vernal	Beluga

FORM 9

STATE OF UTAH

DIVISION OF OIL, GAS AND MINING

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

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 [X] GAS [ ] OTHER:

RECEIVED

2. Name of Operator: Inland Production Company

OCT 13 1997

3. Address and Telephone Number: 475 - 17th Street, Suite 1500, Denver, CO 80202

4. Location of Well

Footages: See Attached Exhibit

County:

QQ, Sec., T., R., M.:

State:

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	[X] Other Change of Operator	
[X] 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.

RECEIVED

OCT 10 1997

13.

Name & Signature: Chris A. Potter Title: CHRIS A. POTTER, ATTORNEY-IN-FACT Date: 9/30/97

(This space for State use only)

4\94) (See Instructions on Reverse Side)

Inland Resources Change of Operator							
WELL NAME	LOCATION	COUNTY	ST	FIELD NAME	API NUMBER	LEASE NO.	AGEEMENT
HENDEL FEDERAL #1-17	NENW 17 9S 19E	UINTA	UT	PARIETTE BENCH	43-047-30059-00	UTU017991	
HENDEL FEDERAL #3-17	SWNW 17 9S 19E	UINTA	UT	PARIETTE BENCH	43-047-30074-00	UTU017991	
PARIETTE BENCH #4 (SWD)	SWSE 7 9S 19E	UINTA	UT	PARIETTE BENCH	43-047-15681-00	UTU017992	8910069630
PARIETTE BENCH FEDER #14-5	SWSW 5 9S 19E	UINTA	UT	PARIETTE BENCH	43-047-31123-00	UTU017992	
PARIETTE BENCH FEDER #41-7	NENE 7 9S 19E	UINTA	UT	PARIETTE BENCH	43-047-31584-00		8910069630
PARIETTE BENCH FEDER #32-6	SWNE 6 9S 19E	UINTA	UT	PARIETTE BENCH	43-047-31554-00	UTU50385	
PARIETTE BENCH FEDER #43-6	NESE 6 9S 19E	UINTA	UT	PARIETTE BENCH	43-047-31616-00	UTU017992	
PARIETTE BENCH UNIT #2	SWNE 7 9S 19E	UINTA	UT	PARIETTE BENCH	43-047-15680-00		8910069630
FEDERAL #22-25	SENW 25 8S 17E	UINTAH	UT	UNDESIGNATED (H)	43-047-32008-00	UTU67845	UTU76189X
MONUMENT BUTTE FED #24-25	SE SW 25 8S 17E	UINTAH	UT	UNDESIGNATED (H)	43-047-32669-00	UTU67845	UTU76189X
MONUMENT BUTTE FED #34-25	SW SE 25 8S 17E	UINTAH	UT	UNDESIGNATED (H)	43-047-32670-00	UTU67845	UTU76189X
MONUMENT BUTTE FED. #21-25	NENW 25 8S 17E	DUCHESNE	UT	UNDESIGNATED (H)	43-047-32528-00	UTU67845	UTU76189X
MONUMENT BUTTE FED. #12-25	SWNW 25 8S 17E	UINTAH	UT	UNDESIGNATED (H)	43-047-32526-00	UTU67845	UTU76189X
MONUMENT BUTTE FED. #23-25	NESW 25 8S 17E	UINTAH	UT	UNDESIGNATED (H)	43-047-32529-00	UTU67845	UTU76189X
MONUMENT BUTTE FED. #31-25	NWNE 25 8S 17E	UINTAH	UT	UNDESIGNATED (H)	43-047-32530-00	UTU67845	UTU76189X
MONUMENT BUTTE FED. #32-25	SWNE 25 8S 17E	UINTAH	UT	UNDESIGNATED (H)	43-047-32524-00	UTU67845	UTU76189X
MONUMENT BUTTE FED. #33-25	NWSE 25 8S 17E	UINTAH	UT	UNDESIGNATED (H)	43-047-32525-00	UTU67845	UTU76189X
MONUMENT FEDERAL #11-25	NWNW 25 8S 17E	UINTAH	UT	UNDESIGNATED (H)	43-047-32455-00	UTU67845	UTU76189X
PARIETTE DRAW FED. #8-23	SE NE 23 8S 17E	UINTAH	UT	UNDESIGNATED (H)	43-047-32676-00	UTU45431	UTU76189X
PARIETTE FEDERAL #9-23	NESE 23 8S 17E	UINTAH	UT	UNDESIGNATED (H)	43-047-31543-00	UTU45431	UTU76189X
PARIETTE FEDERAL #12-24	SWNW 24 8S 17E	UINTAH	UT	UNDESIGNATED (H)	43-047-32713-00	UTU45431	UTU76189X
PARIETTE FEDERAL #13-24	NWSW 24 8S 17E	UINTAH	UT	UNDESIGNATED (H)	43-047-32546-00	UTU45431	UTU76189X
PARIETTE FEDERAL #14-24	SWSW 24 8S 17E	UINTAH	UT	UNDESIGNATED (H)	43-047-32645-00	UTU45431	UTU76189X
PARIETTE FEDERAL #23-24-8-17	NE SW 24 8S 17E	UINTAH	UT	MONUMENT BUTTE (H)	43-047-32710-00	UTU45431	UTU76189X
PARIETTE FEDERAL #24-24	SESW 24 8S 17E	UINTAH	UT	UNDESIGNATED (H)	43-047-32646-00	UTU45431	UTU76189X
PARIETTE FEDERAL #34-24	SWSE 24 8S R17E	UINTAH	UT	UNDESIGNATED (H)	43-047-32506-00	UTU45431	UTU76189X

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

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.

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155

IN REPLY REFER TO
UT-931

February 10, 1998

Inland Production Company
475 17th Street, Suite 1500
Denver, Colorado 80202

Re: Humpback (Green River) Unit
Uintah County, Utah

Gentlemen:

On February 10, 1998, we received an indenture dated November 17, 1997, whereby Equitable Resources Energy Company resigned as Unit Operator and Inland Production Company was designated as Successor Unit Operator for the Humpback (Green River) Unit, Uintah County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective February 10, 1998. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under Humpback (Green River) Unit Agreement.

Your statewide (Utah) oil and gas bond No. 0056 will be used to cover all operations within the Humpback (Green River) Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks
Chief, Branch of Fluid Minerals

Enclosure
bcc: District Manager - Vernal (w/enclosure)
Division of Oil, Gas & Mining
Minerals Adjudication Group U-932
File - Humpback (Green River) Unit (w/enclosure)
MMS - Data Management Division
Agr. Sec. Chron/Fluid Chron
U-931:TAThompson:tt:2/10/98

02/10/98

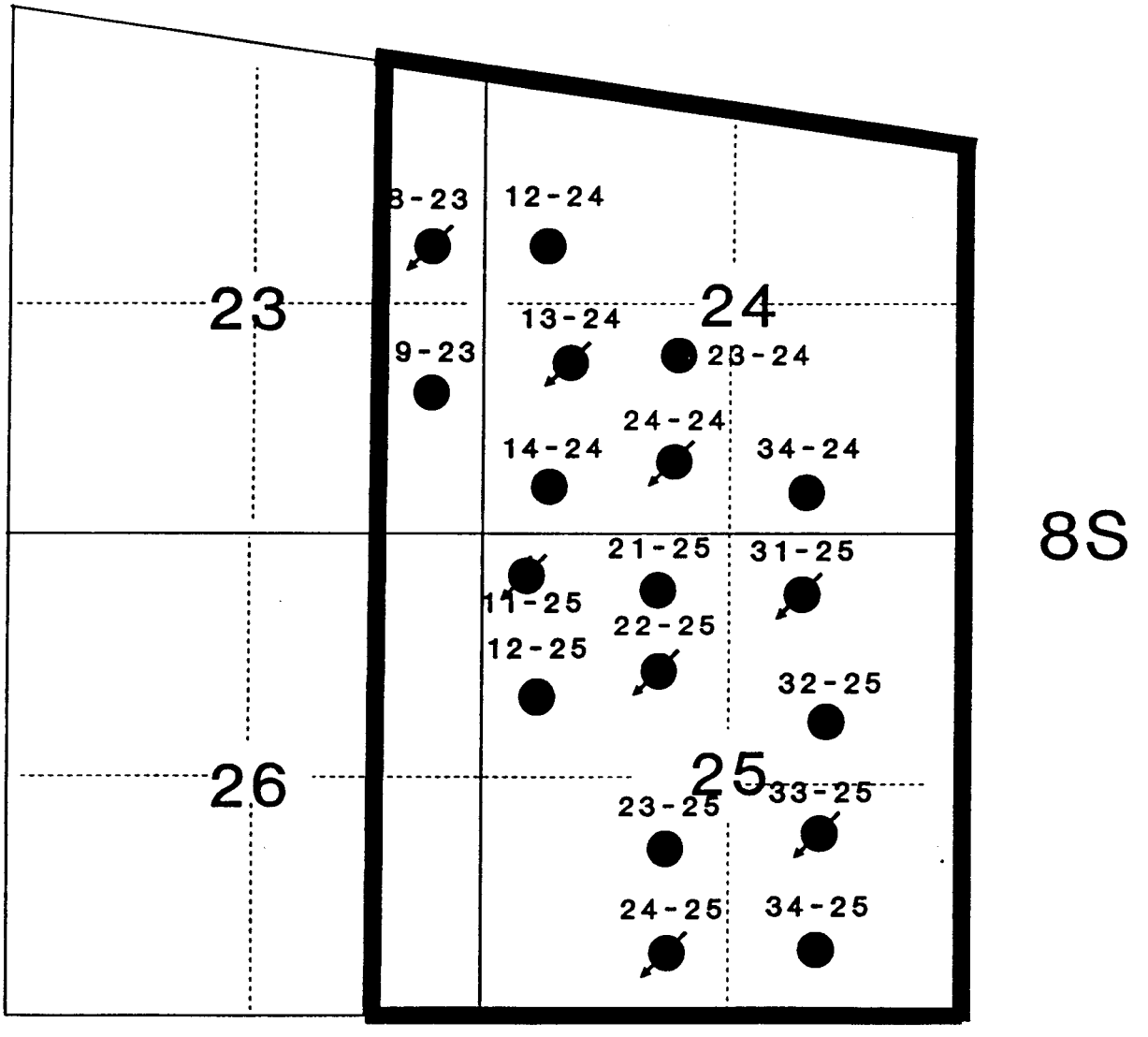
Well Status Report
Utah State Office
Bureau of Land Management

Lease	Api Number	Well Name	QTR	Section	Township	Range	Well Status	Operator
** Inspection Item: UTU76189X								
UTU67845	4304732455	11-25	NWNW	25	T 8S	R17E	OSI	EQUITABLE RESOURCES ENERGY CO
UTU45431	4304732713	12-24	SWNW	24	T 8S	R17E	POW	EQUITABLE RESOURCES ENERGY CO
UTU67845	4304732526	12-25	SWNW	25	T 8S	R17E	POW	EQUITABLE RESOURCES ENERGY CO
UTU45431	4304732645	14-24	SWSW	24	T 8S	R17E	POW	EQUITABLE RESOURCES ENERGY CO
UTU67845	4304732528	21-25	NENW	25	T 8S	R17E	OSI	EQUITABLE RESOURCES ENERGY CO
UTU67845	4304732008	22-25 FEDERAL	SENW	25	T 8S	R17E	POW	EQUITABLE RESOURCES ENERGY CO
UTU67845	4304732529	23-25	NESW	25	T 8S	R17E	POW	EQUITABLE RESOURCES ENERGY CO
UTU45431	4304732646	24-24	SESW	24	T 8S	R17E	POW	EQUITABLE RESOURCES ENERGY CO
UTU67845	4304732669	24-25	SESW	25	T 8S	R17E	POW	EQUITABLE RESOURCES ENERGY CO
UTU67845	4304732530	31-25 FEDERAL	NWNE	25	T 8S	R17E	POW	EQUITABLE RESOURCES ENERGY CO
UTU67845	4304732524	32-25 MONUMENT BUTTE	SWNE	25	T 8S	R17E	POW	EQUITABLE RESOURCES ENERGY CO
UTU67845	4304732525	33-25	NWSE	25	T 8S	R17E	POW	EQUITABLE RESOURCES ENERGY CO
UTU45431	4304732506	34-24	SWSE	24	T 8S	R17E	POW	EQUITABLE RESOURCES ENERGY CO
UTU67845	4304732670	34-25	SWSE	25	T 8S	R17E	POW	EQUITABLE RESOURCES ENERGY CO
UTU45431	4304731543	9-23 PARIETTE DRAW	NESE	23	T 8S	R17E	POW	EQUITABLE RESOURCES ENERGY CO
UTU45431	4304732676	PARIETTE DRAW 8-23	SENE	23	T 8S	R17E	POW	EQUITABLE RESOURCES ENERGY CO
UTU45431	4304732546	PARIETTE FED 13-24	NWSW	24	T 8S	R17E	POW	EQUITABLE RESOURCES ENERGY CO
UTU45431	4304732710	PARIETTE FED 23-24	NESW	24	T 8S	R17E	POW	EQUITABLE RESOURCES ENERGY CO

HUMPBACK (GREEN RIVER) UNIT

Uintah County, Utah

EFFECTIVE: JANUARY 1, 1997



UNIT OUTLINE (UTU76189X)

1,468.47 ACRES

SECONDARY ALLOCATION
FEDERAL 100.00%

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

Routing:	
~~1-LEC~~	~~6-LEC~~
~~2-GLH~~	7-KAS
~~3-DTS~~	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.

XXX 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
(address) PO BOX 1446
ROOSEVELT UT 84066

Phone: (435)722-5103
Account no. N5160

FROM: (old operator) EQUITABLE RESOURCES ENERGY
(address) PO BOX 577
LAUREL MT 59044
C/O CRAZY MTN O&G SVS'S
Phone: (406)628-4164
Account no. N9890

WELL(S) attach additional page if needed: HUMPBACK (GREEN RIVER) UNIT

Name	API	Entity	S	T	R	Lease
SEE ATTACHED	43-047-32528					

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 10-13-97)

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. (2-13-98)

Lec 6. **Cardex** file has been updated for each well listed above. (2-18-98)

Lec 7. Well **file labels** have been updated for each well listed above. (2-18-98)

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. (2-13-98)

Lec 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.

---

dons\wpdocs\forms\operchng

- OVER -

OPERATOR CHANGE WORKSHEET (continued) - Initial each item when completed. Write N/A if item is not applicable.

ENTITY REVIEW

Lec 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.
12053 previously assigned "Humpback (GR) Unit".

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/Lec 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

__ 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.

__ 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

VS 1. All attachments to this form have been **microfilmed**. Today's date: 3.20.98.

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

980211 BLM/SL Aprv. eff. 2-10-98.

FORM 10

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

C/O CRAZY MTN O&G SVS'S
EQUITABLE RESOURCES ENERGY
PO BOX 577
LAUREL MT 59044

UTAH ACCOUNT NUMBER: N9890

REPORT PERIOD (MONTH/YEAR): 12 / 97

AMENDED REPORT ☐ **(Highlight Changes)**

Well Name / API Number / Entity / Location	Producing Zone	Well Status	Days Oper	Production Volumes OIL(BBL)	GAS(MCF)	WATER(BBL)
MONUMENT FEDERAL 43-7 4301331432 11880 09S 17E 7	GRRV					
MONUMENT FEDERAL 32-17 4301331465 11880 09S 17E 17	GRRV					
MONUMENT FEDERAL 41-17 4301331466 11880 09S 17E 17	GRRV					
MONUMENT STATE 23-16-9-17B 4301331578 11880 09S 17E 16	GRRV					
MONUMENT FEDERAL 23-17-9-17B 4301331582 11880 09S 17E 17	GRRV					
PARIETTE DRAW FED 9-23 4304731543 12053 08S 17E 23	GRRV			U45431	Humpback(GR)	Unit
ERAL 22-25 4304732008 12053 08S 17E 25	GRRV			UTU67845	"	
MONUMENT FEDERAL 11-25 4304732455 12053 08S 17E 25	GRRV			U67845	"	
PARIETTE FEDERAL 34-24 4304732506 12053 08S 17E 24	GRRV			U45431	"	
MONUMENT FEDERAL 32-25 4304732524 12053 08S 17E 25	GRRV			U67845	"	
BALCRON MONUMENT FEDERAL 33-25 4304732525 12053 08S 17E 25	GRRV			U67845	"	
MONUMENT FEDERAL 12-25 4304732526 12053 08S 17E 25	GRRV			"	"	
BALCRON MONUMENT FEDERAL 21-25 4304732528 12053 08S 17E 25	GRRV			"	"	
		TOTALS				

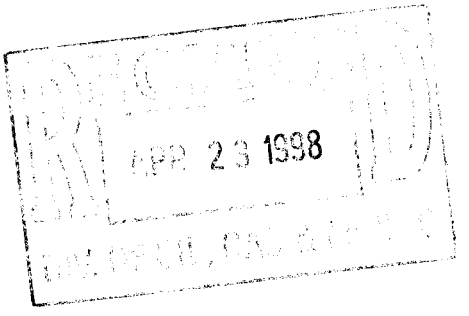
COMMENTS: _____

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

Name and Signature: _____ Telephone Number: _____

(12/93)

Inland
RESOURCES INC.



April 20, 1998

Mr. Dan Jarvis
State of Utah
Division of Oil, Gas and Mining
P. O. Box 145801
Salt Lake City, Utah 84114-5801

RE: Permit Application for Water Injection Well
Balcron Monument Federal #21-25, Humpback Unit
Monument Butte Field, Lease #U-67845
Section 25-Township 8S-Range 17E
Uintah County, Utah

Dear Mr. Jarvis:

Inland Production Company herein requests approval to convert the Balcron Monument Federal #21-25 from a producing oil well to a water injection well in the Monument Butte (Green River) Field, Humpback Unit.

Please note that the wells in this field typically do not produce enough water to sample. Therefore, the sample being submitted with this application is that of a nearby well.

I hope you find this application complete; however, if you have any questions or require additional information, please contact Debbie Knight at (303) 382-4434.

Sincerely,

John E. Dyer
Chief Operating Officer

410 Seventeenth Street, Suite 700, Denver, CO 80202 • 303-893-0102 • FAX 303-893-0103

INLAND PRODUCTION COMPANY

APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL

BALCRON MONUMENT FEDERAL #21-25

MONUMENT BUTTE FIELD (GREEN RIVER) FIELD

HUMPBACK UNIT

LEASE #U-67845

APRIL 20, 1998

TABLE OF CONTENTS

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR Inland Production Company
ADDRESS 410 17th Street, Suite 700
Denver, Colorado 80202

Well Name and number: Balcron Monument Federal #21-25
Field or Unit name: Monument Butte (Green River) Humpback Unit Lease No. U-67845
Well Location: QQ NENW section 25 township 8S range 17E county Uintah

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 [X] No [ ]
Date of test: 11/9/94
API number: 43-047-32528

Proposed injection interval: from 5308' to 6002'
Proposed maximum injection: rate 500 bpd pressure 1353 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: Exhibits "A" through "G"

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

Name: John E. Dyer Signature
Title Chief Operating Officer Date 4/20/98
Phone No. (303) 292-0900

(State use only)
Application approved by Title
Approval Date

Comments:

FAX COVER SHEET

Inland
RESOURCES INC.
410 17th Street, Suite 700
Denver, CO 80202
Phone: 303-893-0102, Fax: 303-382-4454

DATE: June 29, 1998

TO: Brad Hill

COMPANY: State of Utah

FAX NUMBER: 801-359-3940

FROM: Debbie Knight

NUMBER OF PAGES: 1 INCLUDING COVER SHEET

Per your request, regarding packer/anchor settings for wells in the Humpback Unit:

Well Name	Packer/Anchor Depth
Monument Federal #12-25	5208.43'
[redacted]	[redacted]
Monument Federal #23-25	5119.34'
Monument Federal #32-25	5094.61'
Monument Federal #34-25	5209.79'

Let me know if you need additional info.

Thanks
Debbie

If you do not receive all pages or there is a problem with this transmission, please call 303-382-4441.

BALCRON MONUMENT FEDERAL #21-25
NE NW Section 25, T8S, R17E
747.6' FNL, 1963.6' FWL
Lease #U-67845
Undesignated Field (Humpback Unit)
Duchesne County, Utah

Elev.GR - 5060' GL
Elev.KB - 5070' KB (10' KB)

PROPOSED INJECTION WELLBORE DIAGRAM

DATE : 10/25/96 vk

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 9 jts (389.55 ft)
DEPTH LANDED: 399.55' KB
HOLE SIZE: 12-1/4"
CEMENT DATA: 230 sxs class "G" w/ 2% CCL + 1/4 #/sk CelloSeal

399' KB

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 149 jts (6281.32 ft)
DEPTH LANDED: 6290' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 194 sxs super "G" w/ (47# "G" + 20# Poz A + 17# CSE + 2# HiSeal + 1/4# CelloSeal)/sk + 3% salt +2% gel Tailed w/ 535 sxs 50/50 POZ + 2% gel + (1/4# CelloSeal + 2# HiSeal2)/sk

CEMENT TOP AT: 1874' KB per CBL

TOC @ 1874' KB

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 170 jts (5277.58 ft)
TUBING ANCHOR: 2-7/8" x 5-1/2" (2.35 ft)
NO. OF JOINTS: 24 jts (737.84 ft)
SEATING NIPPLE: 2-7/8" x 1' (1.10 ft)
PERFORATED SUB: 2-7/8" x 3' (3.20 ft)
MUD ANCHOR: 2-7/8" x 31' (31.85 ft)
TOTAL STRING LENGTH: 6053.92 ft (EOT @ 6064' KB)
SN LANDED AT: 6029' KB

SUCKER RODS

POLISHED ROD:
SUCKER RODS:

TOTAL STRING LENGTH:

PUMP NUMBER:
PUMP SIZE:

STROKE LENGTH:
PUMP SPEED, SPM:
PUMPING UNIT SIZE:
PRIME MOVER:

LOGS: Comensated Neutron-Litho-Density, Dual Latero-log, CBL w/ Gamma Ray

5308' - 5323' R-5
5328' - 5334' R-5
5337' R-5

5998' - 6002' B-1D

EOT LANDED @ 6064' KB

PBTD @ 6246' KB
TD @ 6300' KB

ACID JOB /BREAKDOWN

11/10/94	5998' - 6002'	Western : 672 gal 15% HCl acid w/ 32 ball sealers. No ball off. Flush w/ 1470 gal 2% KCl wtr. ATP-2400 psi, Max-2600 psi, ATR-2 bpm, Flush-4 bpm. ISIP-1200 psi.
11/14/94	5308' - 5337'	Western : 1554 gal 3% KCl wtr w/ 75 ball sealers. Flush w/ 1344 gal 3% KCl wtr. ATP-2500 psi, Max-4000 psi, ATR-4.2 bpm, Flush-6.1 bpm. ISIP-400 psi.

FRAC JOB

11/11/94	5998' - 6002'	Western : 2016 gal 2% KCl wtr pad followed by 4704 2% KCl gel w/ 17,020# 20/40 + 10,360# 16/30 sand. Flush w/ 5964 gal 2% KCl wtr. ATP-3000 psi, Max-3100 psi, ATR-30 bpm, Max-31.1 bpm. ISIP-1950 psi, 5 min-1670 psi, 10 min-1510 psi, 15 min-1440 psi, 30 min - 1200 psi
11/17/94	5308' - 5337'	Western : 7098 gal 2% KCl pad followed by 26,712 gal 2% KCl gel w/ 80,580# 20/40 + 67,420# 16/30 sand. Flush w/ 5292 gal 2% KCl water. ATP-1600 psi, Max-1870 psi, ATR-30 bpm, Flush-32 bpm. ISIP-1380 psi, 5 min-1110 psi, 10 min-1040 psi, 15 min-990 psi, 30 min-900 psi

PERFORATION RECORD

11/14/94	5308' - 5323'	2 SPF	15 ft	30 holes	R-5
11/14/94	5328' - 5334'	2 SPF	6 ft	12 holes	R-5
11/14/94	5337'	2 SPF	1 ft	2 holes	R-5
11/9/94	5998' - 6002'	4 SPF	4 ft	16 holes	B-1D

PROPOSED PERFORATIONS :

6154' - 6176'	4 SPF	22 ft	88 holes	B-3C

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, 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.

   Inland Production Company
   410 17th Street, Suite 700
   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 Balcron Monument Federal #21-25 from a producing oil well to a water injection well in the Monument Butte (Green River) Field, Humpback Unit.

   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.

   2.4 The names, description and depth of the pool or pools to be affected.

   The injection zone is in the Douglas Creek Member of the Green River Formation. At the Balcron Monument Federal #21-25 well, the proposed injection zone is from 5308'-6002'. The confining stratum directly above and below the injection zone is the Douglas Creek Member of the Green River Formation, with the Douglas Creek Marker top at 5308'.

   2.5 A copy of a log of a representative well completed in the pool.

   The referenced log for the Balcron Monument Federal #21-25 is on file with the Utah Division of Oil, Gas and Mining.

2.6 A statement as to the type of fluid to be used for injection, its source and the estimated amounts to be injected daily.

The type and source of fluid to be used for injection will be culinary water from the Johnson Water District supply line. 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.

2.7 A list of all operators and surface owners within one-half mile radius of the proposed project.

See Attachment B.

2.8 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.

2.9 Any additional information the Board may determine is necessary to adequately review the petition.

Inland 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 #U-67845), in the Monument Butte (Green River) Field, Humpback Unit, 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 Attachment 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#, J-55 surface casing run to 399.55' GL, and the 5-1/2" casing run from surface to 6290' 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 type and source of fluid to be injected is culinary water from the Johnson Water District supply line. 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, F-1, and F-2.

2.8 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 1353 psig.

2.9 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 fracture gradient for the Balcron Monument Federal #21-25, for proposed zones (5308' – 6002') calculates at .69 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 1353 psig. See Attachment G through G-2.

2.10 Appropriate geological data on the injection interval and confining beds, including the geologic name, lithologic description, thickness, depth, and lateral extent.

In the Balcron Monument Federal #21-25, the injection zone (5308'-6002') is in the Douglas Creek member of the Green River Formation. The reservoir is a very fine-grained sandstone with minor imbedded shale streaks. The estimated porosity is 13%. The Douglas Creek member is 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 Field. Outside the Monument Butte 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.

2.11 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-9.

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.

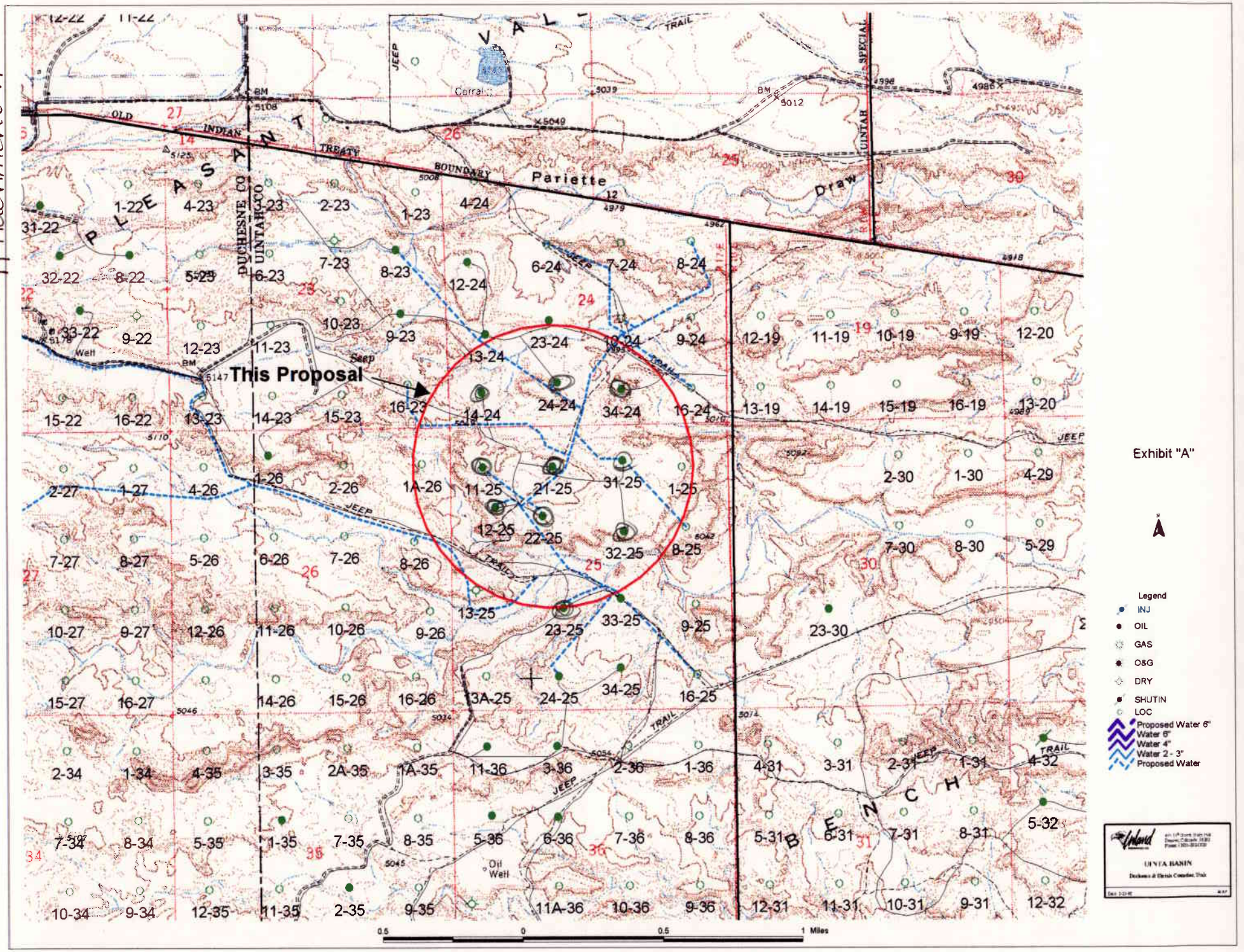
2.12 An affidavit certifying that a copy of the application has been provided to all operators or owners, and surface owners within a one-half mile radius of the proposed injection well.

See Attachment C.

2.13 Any other information that the Board or Division may determine is necessary to adequately review the application.

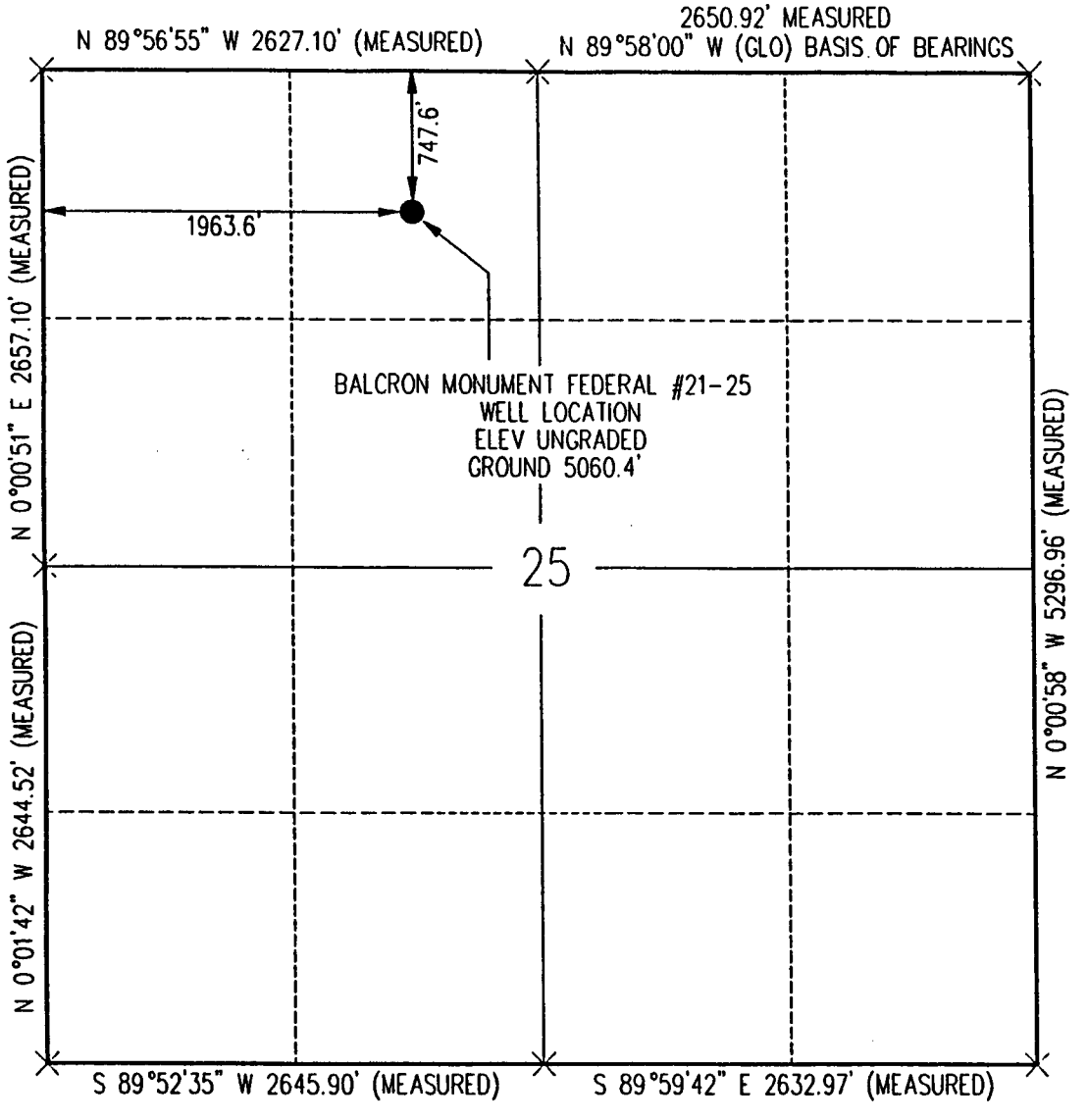
Inland Production Company will supply any requested information to the Board or Division.

Attachment A



Attachment A-1

T8S, R17E, 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 (PARIETTE DRAW SW))

EQUITABLE RESOURCES ENERGY CO.

WELL LOCATION, BALCRON MONUMENT FEDERAL #21-25, LOCATED AS SHOWN IN THE NE 1/4 NW 1/4 OF SECTION 25, T8S, R17E, S.L.B. & M, UINTAH 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.

REGISTERED LAND SURVEYOR
REGISTRATION No. 161189377
STATE OF UTAH
STACY W. STEWART
STATE OF UTAH

WEATHER: SUNNY & HOT	
DATE: 5/26/94	
SCALE: 1" = 1000'	
SURVEYED BY: SS CB	
FILE: MF#21-25	

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

EXHIBIT B
Page 1

#	Land Description	Minerals Ownership & Expires	Minerals Leased By	Surface Rights
1	Township 8 South, Range 17 East Section 22: NE/4, E/2NW/4, S/2 Section 25: W/2E/2, NW/4 N/2SW/4, SE/SW Section 26: N/2, N/2S/2	U-67845 HBP	Inland Production Company	(Surface Rights) USA
2	Township 8 South, Range 17 East Section 23: Lot 1, SE/4NE/4, E/2SE/4 Section 24: Lots 2-5, SW/4, W/2SE/4	U-45431 HBP	Inland Production Company	(Surface Rights) USA
3	Township 8 South, Range 17 East Section 24: L1, E/2SW/4 Section 25: E/2E/2, SW/4SW/4 Section 26: SE/4SE/4	U-74870 HBP	Inland Production Company	(Surface Rights) USA

Attachment B

ATTACHMENT C

CERTIFICATION FOR SURFACE OWNER NOTIFICATION

RE: Application for Approval of Class II Injection Well
Balcron Monument Federal #21-25

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: _____
Inland Production Company
John E. Dyer
Chief Operating Officer

Sworn to and subscribed before me this 20th day of April, 1998.

Notary Public in and for the State of Colorado: Patsy A. Barreau

PATSY A. BARREAU NOTARY PUBLIC STATE OF COLORADO

My Commission Expires 11/14/2000

Attachment E

BALCRON MONUMENT FEDERAL #21-25
NE NW Section 25, T8S, R17E
747.6' FNL, 1963.6' FWL
Lease #U-67845
Undesignated Field (Humpback Unit)
Duchesne County, Utah

Elev.GR - 5060' GL
Elev.KB - 5070' KB (10' KB)

WELLBORE DIAGRAM

DATE : 10/25/96 vk

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 9 jts (389.55 ft)
DEPTH LANDED: 399.55' KB
HOLE SIZE: 12-1/4"
CEMENT DATA: 230 sxs class "G" w/ 2% CCL + 1/4 #/sk CelloSeal

399' KB

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 149 jts (6281.32 ft)
DEPTH LANDED: 6290' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 194 sxs super "G" w/ (47# "G" + 20# Poz A + 17# CSE + 2# HiSeal + 1/4# CelloSeal)/sk + 3% salt +2% gel Tailed w/ 535 sxs 50/50 POZ + 2% gel + (1/4# CelloSeal + 2# HiSeal2)/sk

CEMENT TOP AT: 1874' KB per CBL

TOC @ 1874' KB

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 170 jts (5277.58 ft)
TUBING ANCHOR: 2-7/8" x 5-1/2" (2.35 ft)
NO. OF JOINTS: 24 jts (737.84 ft)
SEATING NIPPLE: 2-7/8" x 1' (1.10 ft)
PERFORATED SUB: 2-7/8" x 3' (3.20 ft)
MUD ANCHOR: 2-7/8" x 31' (31.85 ft)
TOTAL STRING LENGTH: 6053.92 ft (EOT @ 6064' KB)
SN LANDED AT: 6029' KB

SUCKER RODS

POLISHED ROD: 1-1/4" x 22' SM
SUCKER RODS: one - 3/4" x 6' pony
one - 3/4" x 8' pony
239 - 3/4" x 25' Plain D-61

TOTAL STRING LENGTH: 6005.5 ft

PUMP NUMBER: Trico #?
PUMP SIZE: 2-1/2" x 1-1/2" x 16' RWAC w/ PA plunger

STROKE LENGTH: 72 in.
PUMP SPEED, SPM: 7.5 SPM
PUMPING UNIT SIZE: CMI 160-200-74
PRIME MOVER: Arrow

LOGS: Comensated Neutron-Litho-Density, Dual Latero-log, CBL w/ Gamma Ray

5308' - 5323' R-5
5328' - 5334' R-5
5337' R-5

5998' - 6002' B-1D

SN LANDED @ 6029' KB
EOT LANDED @ 6064' KB

PP 6154' - 6176' B-3C

PBTD @ 6246' KB
TD @ 6300' KB

ACID JOB /BREAKDOWN

11/10/94	5998' - 6002'	Western : 672 gal 15% HCl acid w/ 32 ball sealers. No ball off. Flush w/ 1470 gal 2% KCl wtr. ATP-2400 psi, Max-2600 psi, ATR-2 bpm, Flush-4 bpm. ISIP-1200 psi.
11/14/94	5308' - 5337'	Western : 1554 gal 3% KCl wtr w/ 75 ball sealers. Flush w/ 1344 gal 3% KCl wtr. ATP-2500 psi, Max-4000 psi, ATR-4.2 bpm, Flush-6.1 bpm. ISIP-400 psi.

FRAC JOB

11/11/94	5998' - 6002'	Western : 2016 gal 2% KCl wtr pad followed by 4704 2% KCl gel w/ 17,020# 20/40 + 10,360# 16/30 sand. Flush w/ 5964 gal 2% KCl wtr. ATP-3000 psi, Max-3100 psi, ATR-30 bpm, Max-31.1 bpm. ISIP-1950 psi, 5 min-1670 psi, 10 min-1510 psi, 15 min-1440 psi, 30 min - 1200 psi
11/17/94	5308' - 5337'	Western : 7098 gal 2% KCl pad followed by 26,712 gal 2% KCl gel w/ 80,580# 20/40 + 67,420# 16/30 sand. Flush w/ 5292 gal 2% KCl water. ATP-1600 psi, Max-1870 psi, ATR-30 bpm, Flush-32 bpm. ISIP-1380 psi, 5 min-1110 psi, 10 min-1040 psi, 15 min-990 psi, 30 min-900 psi

PERFORATION RECORD

11/14/94	5308' - 5323'	2 SPF	15 ft	30 holes	R-5
11/14/94	5328' - 5334'	2 SPF	6 ft	12 holes	R-5
11/14/94	5337'	2 SPF	1 ft	2 holes	R-5
11/9/94	5998' - 6002'	4 SPF	4 ft	16 holes	B-1D

PROPOSED PERFORATIONS :

6154' - 6176'	4 SPF	22 ft	88 holes	B-3C

Attachment E-1

Federal #22-25
Monument Butte Field (Humpback Unit)
Lease #UTU-67845
1667' FNL, 1773' FWL
SE NW Sec 25, T8S, R17E
Uintah County, Utah

Elev.GR -5049' GL
Elev.KB - 5063' KB (14' KB)

WELLBORE DIAGRAM

DATE : 9/26/96 DZ

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts (294.05 ft)
DEPTH LANDED: 309' KB
HOLE SIZE: 12-1/4"
CEMENT DATA: 225 sxs regular w/ 3% CCL

309'KB

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15#
LENGTH: 7036'
DEPTH LANDED: 7050' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: by Haliburton w/ 425 sx lite tailed w/ 350 sxs reg 2% CC

CEMENT TOP AT: 1520' KB

TOC @ 1520' KB

TUBING

SIZE/GRADE/WT.: 2-7/8" 8rd EUE/ J-55 / 6.5#
NO. OF JOINTS: 149 Jts (4796.36')
TUBING ANCHOR: 2-7/8" x 5-1/2" x 2.75' Trico
NO. OF JOINTS: 43 Jts (1380.54')
SEATING NIPPLE: 2-7/8" x 1.10'
PERFORATED SUB: 2-7/8" x 4.25'
MUD ANCHOR: 2-7/8" x 31.77'
STRING LENGTH: 6216.77'
SN LANDED AT: 6194.75' KB

SUCKER RODS

WELL LAST PULLED : 9/3/96

POLISHED ROD: 1-1/4" x 22' SM
SUCKER RODS: 102 - 7/8" x 25' D-61 w/ 2.5" metal scrapers
145 - 3/4" x 25' D-61 Plain
TOTAL STRING LENGTH: 6192'

PUMP NUMBER: Trico #1175
PUMP SIZE: 2-1/2" x 1-1/2" x 16' RwAC w/ PA plunger
STROKE LENGTH:
PUMP SPEED, SPM:
PUMPING UNIT:
PRIME MOVER:

LOGS: CBL
Dual Laterolog/GR
Temperature
Compensated Densilog
Compensated Neutron/Gr

4850'-4862' Y-5

5272'-5290' R-5

6014'-6025' B-2

6150'-6154' B-3C

SN LANDED @ 6194.75' KB
EOT LANDED @ 6230.77' KB

PBTD @ 6802' KB
TD @ 7000' KB

ACID JOB /BREAKDOWN

2/10/95	6150'-6154'	Western: 2310 gal 2% KCL wtr w/ 8 ball sealers. Ball off. ATP=2500 psi, ATR= 3.8 bpm, ISIP=1650 psi. 10 min-440 psi,15 min-410 psi.
2/9/95	6014'-6025'	Western: 1764 gal 2% KCL wtr w/ 14 ball sealers. ATP= 2000 psi, ATR=4.0 bpm, ISIP=1400 psi.
8/12/91	5272' - 5290'	Smith: w/ 76 bbls hot 2% KCl @4600', dropped 146 balls, some ball action ATP=1880 psi, ATR=9 bpm, ISIP=650 psi. 5 min-450 psi, 10 min-440 psi, 15 min-410 psi.
12/11/91	4850' - 4862'	Western: 840 gal 2% KCl w/ 96 balls. Flush w/ 924 gal, balled out. ATP=3000 psi, ATR=3.5 bpm, ISIP=2000 psi Est. inj. rate of 6.9 bpm @ 3500 psi

FRAC JOB

2/10/95	6014'-6025' 6150'-6154'	Western: 25,872 gal 2% KCl wtr w/ 46,660# 20/40 + 47,900# 16/30 sand ATP=5000 psi, ATR=21 bpm, ISIP= 1800 psi, 5 min=1580 psi, 10 min= 1500 psi, 15 min=1460 psi 1460 psi.
8/13/91	5272' - 5290'	Smith : 40,000 gal pad, 27,366 gal frac fluid w/ 293,000# 16/30 sand ATP=1600 psi, ATR=50 bpm, ISIP=2040 psi.
12/12/91	4850' - 4862'	Western : 14,994 gal pad, 20,664 gal frac fluid w/ 28,125# 16/30 sand Flush w/ 2646 gal, ATP=3100 psi, ATR=35 bpm, Screen Out when 10# sand hit formation

PERFORATION RECORD

2/8/95	6014' - 6025'		7 holes	B-2
	6150' - 6154'		4 holes	B-3C
8/12/91	5272' - 5290'	4 SPF	75 holes	R-5
12/10/91	4850' - 4862'	4 SPF	48 holes	Y-5

Attachment E-2

Balcron Monument Federal # 23-25
Monument Butte (Humpback Unit)
Lease #U-67845
NE SW Section 25, T8S, R17E
1927' FSL, 2139' FWL
Uintah County, Utah

Elev.GR - 4992' GL
Elev. KB - 5002' KB (10' KB)

WELLBORE DIAGRAM

DATE : 10/25/96 vk

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 260.50' (6 jt's)
DEPTH LANDED: 270.50' KB
HOLE SIZE: 12-1/4"
CEMENT DATA: By Western W/ 160 sxs class "G", 2% CaCL2, 1/4#/sk cello-seal.

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 6173.26' (146 jts)
DEPTH LANDED: 6182.26' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 50 sxs super "G", 47#/sk POZ, 17#/sk CSE, 3% salt 2% gel, 5#/sk HISEAL, 2-1/4#/sk CELLOSEAL
Tailed w/ 125 sxs super "G", 47#/sk G +20#/sk POZ 17#/sk CSE, 3% salt, 2% GEL 2#/sk HISEAL, 2-1/4#/sk CELLOSEAL
450 sxs 50/50 POZ + 2% GEL, 2#/sk HISEAL

CEMENT TOP AT: 2230' KB

TUBING

SIZE/GRADE/WT.: 2-7/8" EUE / J-55 / 6.5#
NO. OF JOINTS: 162 jts (5108.03')
TUBING ANCHOR: 2 7/8 x 5 1/2 - 2.35
NO. OF JOINTS: 27 jts (831.27')
SEATING NIPPLE: 2 7/8 - 1.10'
PERFORATED SUB: 2 7/8 - 4.20'
MUD ANCHOR: 2 7/8 / 31.07'
STRING LENGTH: 5978.02'
SN LANDED AT: 5952.75' KB

SUCKER RODS

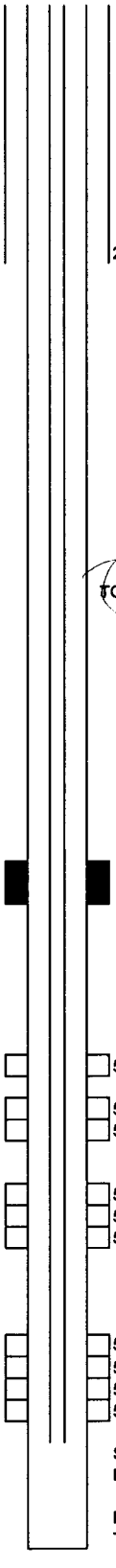
POLISHED ROD: 1-1/4"x22'
SUCKER RODS: 237- 3/4"x25' D-61 Plain

STRING LENGTH: 5925'

PUMP NUMBER: Trico # 1127
PUMP SIZE: 2-1/2"x1-1/2"x16' RWAC

STROKE LENGTH: 85.5"
PUMP SPEED, SPM: 7-1/2" SPM
PUMPING UNIT: American 228-213-86
PRIME MOVER: Ajax EH-30

LOGS: Digital Sonic Log
Dipole Shear Anisotropy Log
Integrated Porosity Lithology Log
CBL/GR
Formation Microimager Monitor Log
Mechanical Properties Impact Log



SN LANDED @ 5952.75' KB
EOT LANDED @ 5988' KB

PBTD @ 6137' KB
TD @ 6200' KB

ACID JOB /BREAKDOWN

2/8/95	5824'-5827' 5830'-5834' 5850'-5855'	Western: 2940 gal 2% KCL wtr w/ 100 ball sealers, ball action seen but no ball out. ATP= 4700 psi, ATR=6.0 bpm ISIP= 1000 psi.
2/8/95	5886'-5898'	Western: 3150 gal 2% KCL wtr w/ 100 ball sealers. Ball action seen but no ball off. ATP= 2300 psi, ATR= 5.9 bpm, ISIP=1000 psi.
2/13/95	5300'-5308' 5327'-5338'	Western: 3486 gals 2% KCL w/ 150 ball sealers. Ball action seen but no ball off. ATP= 2150 psi, ATR= 5.0 bpm, ISIP= 800 psi.
2/13/95	5378'-5394'	Western: 4452 gals 2% KCL w/ 125 ball sealers. Ball actions seen but no ball off. ATP=1800 psi, ATR= 6.1 bpm, ISIP= 800 psi.
2/27/95	5160'-5175' 5204'-5207' 5214'-5216'	Western: 3822 gal 2% KCL wtr, w/ 125 ball sealers. Ball action seen but no ball off. ATP=2400 psi, ATR= 6.8 bpm, ISIP= 1100 psi.

FRAC JOB

2/8/95	5824'-5827' 5830'-5834' 5850'-5855' 5886'-5898'	Western: 40,908 gal 2% KCL wtr w/ 60,480 # 20/40 sand and 90,640 # 16/30 sand. ATP= 1700 psi, ATR= 31.5 bpm, ISIP=1750 psi, 5 min=1580 psi, 10 min= 1490 psi, 15 min=1420 psi, 30 min=1360 psi.
2/20/95	5300'-5308' 5327'-5338' 5378'-5394'	Western: 47,208 gals 2% KCL wtr w/ 60,000# 20/40 sand & 92,000# 16/30 sand. ATP=1200 psi, ATR=33.0 bpm, ISIP=1500 psi, 5 min= 1360 psi, 10 min=1250 psi, 15 min=1180 psi, 30 min= 985 psi.
2/27/95	5160'-5175' 5204'-5207' 5214'-5216'	Western: 37,548 gals 2% KCL wtr, w/ 67,000# 20/40 sand & 68,700# 16/30 sand. ATP= 1950 psi, ATR= 31 bpm, ISIP= 1650 psi.

PERFORATION RECORD

2/7/95	Cutter Wireline Service	5824'-5827'	4 SPF	B-1C
		5830'-5834'	4 SPF	B-1C
		5850'-5855'	4 SPF	B-1D
		5886'-5898'	4 SPF	B-2
2/13/95	Cutter Wireline Service	5300'-5308'	4 SPF	G-1
		5327'-5338'	4 SPF	G-1
		5378'-5394'	4 SPF	G-1
2/27/96	Cutter Wireline Service	5160'-5176'	4 SPF	R-5
		5204'-5207'	4 SPF	R-5
		5214'-5216'	4 SPF	R-5

PROPOSED PERFORATIONS :

4531' - 4533'	4 SPF	2 ft	8 holes
4543' - 4554'	4 SPF	11 ft	44 holes

Attachment E-3

Balcron Monument Federal #11-25
Monument Butte Field (Humpback Unit)
Lease # U-67845
NW NW Section 25, T8S, R17E
738.6' FNL, 648.2' FWL
Uintah County, Utah

Elev.GR - 5059.59' GL
Elev.KB - 5069.59' KB (10' KB)

WELLBORE DIAGRAM

DATE : 10/01/96 DZ

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 6 jts (258.44 ft)
DEPTH LANDED: 266' KB
HOLE SIZE: 12-1/4"
CEMENT DATA: 150 sxs class "G" + 2% CaCl + 1/4 #/sk CelloSeal

266' KB

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: K-55
WEIGHT: 15.5#
LENGTH: 147 jts (6429.74 ft)
DEPTH LANDED: 6438.74' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 200 sxs class "G" + 4% Thrifty-lite + 3% salt + (3# CSE + 1/4 # CelloSeal)/sk, tailed w/ 400 sxs 50/50 POZ + 2% gel + 10% salt + 1/4 #/sk CelloSeal.

CEMENT TOP AT: 1292' KB

TOC @ 1292' KB

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 152 jts (4726.43 ft)
TUBING ANCHOR: 2-7/8" x 5-1/2" (2.35 ft) w/ 24" tension
NO. OF JOINTS: 42 jts (1313.56 ft)
SEATING NIPPLE: 2-7/8" x 1' (1.10 ft)
PERFORATED SUB: 2-7/8" x 3' (3.20 ft)
MUD ANCHOR: 2-7/8" x 31' (31.35 ft)
TOTAL STRING LENGTH: 6077.99 ft (EOT @ 6088' KB)
SN LANDED AT: 6053' KB

SUCKER RODS

POLISHED ROD: 1-1/4" x 16'
SUCKER RODS: one - 3/4" x 6' Pony
one - 3/4" x 8' Pony
241 - 3/4" x 25' Plain D-61

TAL ROD STRING LENGTH: 6051 ft

PUMP NUMBER: Trico #1052
PUMP SIZE: 2-1/2" x 1-1/2" x 16' RWAC w/ PA plunger

STROKE LENGTH: 121 in.
PUMP SPEED, SPM: 4 SPM
PUMPING UNIT SIZE: American 320-256-120
PRIME MOVER: Ajax E-42

LOGS: Dual Laterolog, Compensated Neutron-Litho-Density, Cement Bond - Gamma Ray

ACID JOB /BREAKDOWN

6009' - 6016'	4/26/94	Western : 500 gal 15% HCl acid w/ 50 ball sealers. Balled off. Flush w/ 1483 gal 2% KCl. ATP-2800 psi, Max-5000 psi, ATR-4.6 bpm, Flush-4.1 bpm. ISIP-1300 psi.
4757' - 4760'	5/3/94	Western : 294 gal 2% KCl water w/ 25 ball sealers. No ball out. Flush w/ 1176 2% KCl water. ISIP-2700 psi, ATP-4250 psi, Max-4410 psi, ATR-4.1 bpm, Flush-4.1 bpm.

FRAC JOB

6009' - 6016'	4/26/94	Western: 3300 gal 2% KCl water pad, followed by 3950 gal 2% KCl gel w/ 9400# 20/40 + 9500# 16/30 sand. Flushed w/ 6013 gal 2% KCl water. ATP-2000 psi, Max-2300 psi, ATR-24.8 bpm, Max-25 bpm. ISIP-1800 psi, 5 min-1720 psi, 10 min-1590 psi, 15 min-1550 psi.
5298' - 5311'	4/29/94	Western : 8988 gal 2% KCl water pad, followed by 7434 gal 2% gel w/ 22,440# 16/30 + 17,840# 20/40 sand, Flushed w/ 5292 gal 2% KCl water. ATP-1800 psi, Max-1960 psi, ATR-30 bpm, Flush-30 bpm. ISIP-1270 psi, 5 min-1140 psi, 10 min-1080 psi, 15 min-1020 psi.
4757' - 4760'	5/3/94	Western : 3990 gal 2% KCl water pad, followed by 5418 gal 2% KCl gel w/ 13,700# 16/30 sand, Flush w/ 4746 gal 2% KCl water. ATP-3700 psi, Max-3890 psi. ATR-25 bpm, Flush-25 bpm. ISIP-3200 psi, 5 min-2250 psi, 10 min-2150 psi, 15 min-1980 psi., 60 min-1150 psi.

PERFORATION RECORD

4757' - 4760'	5/02/94	4 SPF	3 ft	12 holes	Y-4
5298' - 5311'	4/28/94	4 SPF	13 ft	52 holes	R-5
6009' - 6016'	4/25/94	4 SPF	17 ft	28 holes	B-1D

4757' - 4760' R-4

5298' - 5311' R-5

6009' - 6016' B-1D

SN LANDED @ 6053' KB
EOT LANDED @ 6088' KB

PBTD @ 6392' KB
TD @ 6450' KB

Attachment E-4

BALCRON MONUMENT FED. #12-25
SW NW Sec.25, T8S, R17E
1486' FNL, 875.7' FWL
Lease #U-67845
Undesignated (Humpback Unit)
Uintah County, Utah

Elev.GR - 5059' GL
Elev.KB - 5071' KB (12' KB)

WELLBORE DIAGRAM

DATE : 10/29/96 DZ

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts (273.90 ft)
DEPTH LANDED: 270' KB
HOLE SIZE: 12-1/4"
CEMENT DATA: 200 sxs class "G" w/ 2% CaCl + 1/4 #/sk CelloSeal

270' KB

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 145 jts (6270.32 ft)
DEPTH LANDED: 6248.32' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 170 sxs super "G" w/ (47# class "G" + 20# Poz A + 17# CSE + 2# HiSeal3 + 1/4 # CelloSeal)/sk + 2% gel + 3% salt, Tailed by 495 sxs 50/50 POZ + 2% gel + 1/4 #/sk CelloSeal + 2#/sk HiSeal2.

CEMENT TOP AT: 2560' KB per CBL

TOC @ 2560' KB

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 169 jts (5193.68 ft)
TUBING ANCHOR: 2-7/8" x 5-1/2" (2.75 ft) w/ 18" tension
NO. OF JOINTS: 4 jts (125.42 ft)
SEATING NIPPLE: 2-7/8" x 1' (1.10 ft)
PERFORATED SUB: 2-7/8" x 3' (3.02 ft)
MUD ANCHOR: 2-7/8" x 31' (31.38 ft)
TOTAL STRING LENGTH: 5357.35 ft (EOT @ 5369' KB)
SN LANDED AT: 5335' KB

SUCKER RODS

POLISHED ROD: 1-1/4" x 22' SM
SUCKER RODS: one - 3/4" x 2' Pony
two - 3/4" x 6' Pony
211 - 3/4" x 25' Plain D-61

TOTAL STRING LENGTH: 5305.5 ft

PUMP NUMBER: Trico #1088
PUMP SIZE: 2-1/2" x 1-1/2" x 16' RWAC w/ PA plunger

STROKE LENGTH: 86 in.
PUMP SPEED, SPM: 5.75 SPM
PUMPING UNIT SIZE: Lufkin LM-228D-213-86T
PRIME MOVER: Ajax E-42

LOGS: Compensated Neutron-Litho-Density, Dual Laterolog, Cement Bond - Gamma Ray

5246' - 5260' R5
5262' - 5266' R5
5270' - 5272' R5
5293' - 5306' R5

SN LANDED @ 5335' KB
EOT LANDED @ 5369' KB

PBTD @ 6202' KB
TD @ 6250' KB

ACID JOB /BREAKDOWN

5246' - 5306'	12/6/94	Western : 168 gal 2% KCl water pad, followed by 1302 gal 2% KCl water w/ 125 ball sealers. No ball out. ATP-2200 psi, Max-4540 psi, ATR-5.4 bpm, Max-5.4 bpm. ISIP-700 psi,

FRAC JOB

5246' - 5306'	12/6/94	Western : 6090 gal 2% KCl water pad followed by 22,470 gal 2% KCl gel w/ 60,366# 20/40 + 55,106# 16/30 sand. Flush w/ 5208 gal 2% KCl water. ATP-1800 psi, Max-2080 psi, ATR-30 bpm, Max-30.8 bpm. Flush-30 bpm. ISIP-1600 psi, 5 min-1440 psi, 10 min-1270 psi, 15 min-1120 psi, 30 min-960 psi.

PERFORATION RECORD

5246' - 5260'	12/5/94	2 SPF	14 ft	28 holes	R5
5262' - 5266'	12/5/94	2 SPF	4 ft	8 holes	R5
5270' - 5272'	12/5/94	2 SPF	2 ft	4 holes	R5
5293' - 5306'	12/5/94	2 SPF	13 ft	26 holes	R5

Attachment E-5

Balcron Monument Federal # 31-25
Monument Butte (Humpback Unit)
Lease #U-67845
NW NE Section 25, T8S, R17E
660' FNL, 1980' FEL
Uintah County, Utah

Elev.GR - 5020.30' GL
Elev.KB - 5030.30' KB (10' KB)

WELLBORE DIAGRAM

DATE : 7/22/96 DZ

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 304' (7 jts)
DEPTH LANDED: 314' KB
HOLE SIZE: 12-1/4"
CEMENT DATA: 200 sks "G", w% $CaCL_2$
1/4#/sk Cello-Seal.

314' KB

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 6224.50' (148 jts)
DEPTH LANDED: 6221.00' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 178 sks Super "G", 47#/sk G', 20#/sk CSE, 3% salt 2% gel, 2#/sk Hi-Seal, 1/4#/sk Cello-Seal.

CEMENT TOP AT: 2336' KB (Estimated from CBL Log)

TOC @ 2336' KB

TUBING

SIZE/GRADE/WT.: 2-7/8" 8rd EUE / J-55 / 6.5#
NO. OF JOINTS: 170 jts (5230.48')
TUBING ANCHOR: 2-7/8"x2.35' Trico
NO. OF JOINTS: 25 jts (773.32')
SEATING NIPPLE: 2-7/8"x1.10'
PERFORATED SUB: 2-7/8"x4.20'
MUD ANCHOR: 2-7/8"x30.23'
STRING LENGTH: 6041.68'
SN LANDED AT: 6017.25' KB

SUCKER RODS

POLISHED ROD: 1-1/4"x22' SM
SUCKER RODS: 3-3/4"x4' Pony
1-3/4"x8' Pony
239-3/4"x25' D-61 Plain
TOTAL STRING LENGTH: 6017'

PUMP NUMBER: Trico #1063
PUMP SIZE: 2-1/2"x1-1/2"x16' RWAC

STROKE LENGTH: 123"
PUMP SPEED, SPM: 4.0 SPM
PUMPING UNIT: American T30F120
PRIME MOVER: Ajax Mod. E-42

LOGS: Dual Laterolog
Spectral Density Dual Spaced Neutron
CBL/GR

ACID JOB /BREAKDOWN

1/05/95	5972'-5978'	Western: 500 gal 15% HCL w/ 50 ball sealers. ATP= 2300 psi, ATR=3.0 bpm.
1/9/95	5272'-5278' 5283'-5285' 5294'-5304'	Western: 3406 gal 2% KCL wtr, 150 ball sealers. Ball action but no ball off. ATP= 1300 psi, ATR= 5.2 bpm, ISIP= 500 psi.

FRAC JOB

1/05/95	5972'-5978'	Western: 32,200 gal 2% KCL wtr 22,700# 20/40 sand. ATP= 1850 psi, ATR= 33.5 bpm, ISIP= 1530 psi, 5 min= 1400 psi, 10 min= 1300 psi, 15 min= 1230 psi.
1/10/95	5272'-5278' 5283'-5285' 5294'-5304'	Western: 29,232 gal 2% KCL w/ 55,540# 20/40 sand, 57,380# 16/30 sand. ATP= 1500 psi, ATR=30.5 bpm, ISIP=1550 psi, 5 min= 1230 psi, 10 min= 1080 psi, 15 min= 1010 psi, 30 min= 920 psi.

PERFORATION RECORD

1/5/95	Cutter	5972'-5978'	4 SPF	B-1D
1/9/95	Cutter	5283'-5285'	4 SPF	R-5
		5294'-5304'	4 SPF	R-5

5283'-5285' R-5
5294'-5304' R-5

5972'-5978' B-1D

SN LANDED @ 6017' KB
EOT LANDED @ 6041.68' KB

PBTD @ 6180.89' KB
TD @ 6226' KB

Attachment E-6

Balcron Monument Federal #32-25
Monument Butte (Humpback Unit)
Lease #U-67845
SW NE Section 25, T8S, R16E
1980' FNL, 1980' FEL
Uintah County, Utah

Elev.GR - 5059.59' GL
Elev.KB - 5069.59' KB (10' KB)

WELLBORE DIAGRAM

DATE : 7/22/96 DZ

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 273.89' (7 jts)
DEPTH LANDED: 267.89' KB
HOLE SIZE: 12-1/4"
CEMENT DATA: 200 sks "G", 2% $CaCl_2$, 1/4#/sk Cello-Seal.

267.89' KB

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: K-55
WEIGHT: 15.5#
LENGTH: 6263.07'
DEPTH LANDED: 6259' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 150 sks super "G",47 #/sk gel 20#/sk POZ, 17#/sk CSF, 3% salt, 2% Gel, 2# sk HI-Seal, 1/4#sk Cello-Seal. Tailed w/371 sks 60/50 POZ 2% gel, 1/4#/sk Cello-Seal 2#/sk Hi-Seal.

CEMENT TOP AT: 2638' KB

TOC @ 2638' KB

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 164 jts (5079.86')
TUBING ANCHOR: 2-7/8"x5-1/2"x2.75'
NO. OF JOINTS: 29 jts (899.04')
SEATING NIPPLE: 2-7/8"x1.10'
PERFORATED SUB: 2-7/8"x4.20'
MUD ANCHOR: 2-7/8"x31.65'
TOTAL STRING LENGTH: 6018.6'
SN LANDED AT: 5992.75' KB

SUCKER RODS

POLISHED ROD: 1-1/4"x22' SM
SUCKER RODS: 1-3/4"x2' Pony
1-3/4"x6' Pony
1-3/4"x8' Pony
237-3/4"x25' D-61 Plain

ROD STRING LENGTH: 5963'

PUMP NUMBER: Trico #1069
PUMP SIZE: 2-1/2"x1-1/2"x16' RWAC

STROKE LENGTH: 64"
PUMP SPEED, SPM: 6.0 SPM
PUMPING UNIT SIZE: Lufkin 228D-TCI-TR
PRIME MOVER: Ajax E-30

LOGS: Compensated Neutron/ Litho Density
Multiple Isotope Spectroscopy
Repeat Formation Tester
CBL/GR
Dual Laterolog

5138'-51' R-5U
5220'-24' R-5U
5232'-36' R-5U
5240'-44' R-5U
PP 5391'-5404' G-1L
5581'-84' G-5
5594'-06' G-5
5608'-14' G-5
5939'-50' B-1D

SN LANDED @ 5993' KB
EOT LANDED @ 6029' KB

PBTD @ 6392' KB
TD @ 6450' KB

ACID JOB /BREAKDOWN

12/12/94	5939'-5950'	Western: 500 gal15% HCL w/2142 gal 2% KCL wtr &88 balls. ATP=3000 psi, ATR= 5.0 bpm, ISIP=1100 psi.
12/15/94	5581'-5584' 5594'-5606' 5608'-5614'	Western: Unknown vol. 2 %KCL wtr w/175 ball sealers. Ball action but no ball out. ATP= 2800 psi, ATR=5.5 bpm, ISIP=2000 psi.
12/20/94	5138'-5151'	Western: 2940 gals 2% KCL wtr w/ 100 ball sealers. Ball action but no ball off. ATP=2400 psi, ATR=4.5 bpm, ISIP= 1300 psi.
12/20/94	5220'-5224' 5232'-5236' 5240'-5244'	Western: Unknown vol 2% KCL wtr w/ 100 ball sealers. Balled off. ATP=2500 psi, ATR=5.0 bpm, ISIP= 1100 psi.

FRAC JOB

12/13/94	5939'-5950'	Western: 52,486 gal 2% KCL 40,720# 20/40 sand & 34,040# 16/30 sand. ATP=1800 psi, ATR=31.5 bpm, ISIP=1900 psi, 5 min= 1540 psi, 10 min=1390 psi, 15 min=1310 psi, 30 min= 1220 psi.
12/16/94	5581'-5584' 5594'-5606' 5608'-5614'	Western: 41,538 gal 2% KCL wtr w/ 72,560# 20/40 sand, 62,000# 16/30 sand. ATP=2150 psi, ATR=30.6 bpm, ISIP=2050 psi, 5 min=1910, 10 min=1800 psi, 15 min= 1720 psi.
12/21/94	5138'-5151' 5220'-5224' 5232'-5236' 5240'-5244'	Western: 38,724 gal 2% KCL wtr w/ 79,640# 20/40 sand, 66,220# 16/30 sand. ATR= 37 bpm, ISIP= 1650 psi. Frac Grad.= 0.76

PERFORATION RECORD

12/12/94	Schlumberger	5939'-5950'	4 SPF	B-1D
12/15/94	Schlumberger	5581'-5584'	4 SPF	G-5
		5594'-5606'	4 SPF	G-5
		5608'-5614'	4 SPF	G-5
12/19/94	Schlumberger	5138'-5151'	4 SPF	R-5U
		5220'-5224'	4 SPF	R-5
		5232'-5236'	4 SPF	R-5
		5240'-5244'	4 SPF	R-5

PROPOSED PERFORATIONS :

5391' - 5404' G-1L 13 ft 4 SPF

Attachment E-7

Pariette Federal #14-24

Spud Date: 4/1/95
Put on Production: 5/11/95
GL: 5021' KB: 5031'

Initial Production: 78 BOPD, 30 MCFPD, 0 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT:24#
LENGTH: 7 jts (298')
DEPTH LANDED: 308' GL
HOLE SIZE:12-1/4"
CEMENT DATA: 200 sxs

PRODUCTION CASING

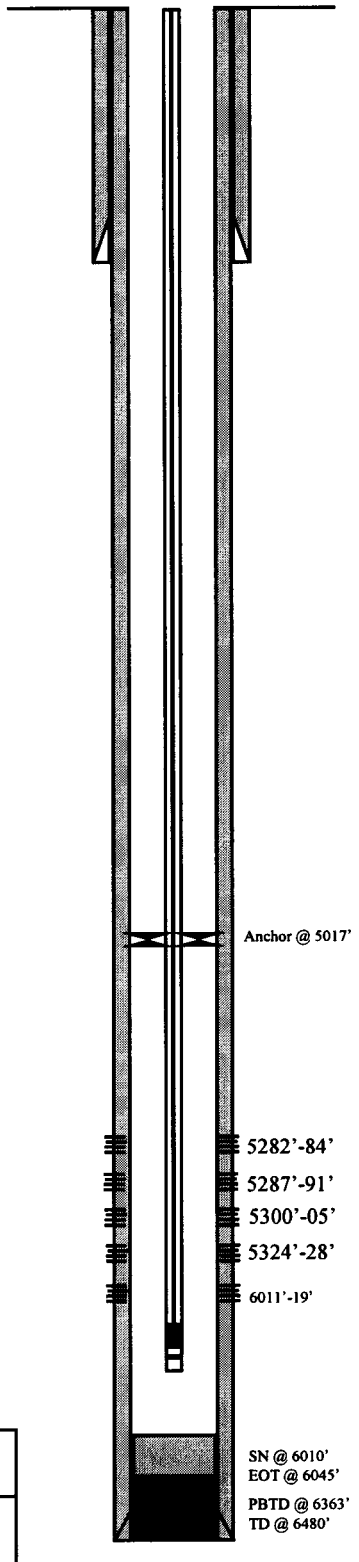
CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5'
LENGTH: 142 jts.
DEPTH LANDED: 6410'
HOLE SIZE: 7-7/8"
CEMENT DATA: 220 sx Hifill & 595 sx 50/50 Poz
CEMENT TOP AT: 1240'

TUBING

SIZE/GRADE/WT.: 2-7/8" / ? / ?
NO. OF JOINTS: 142 jts
TUBING ANCHOR: 5017'
SEATING NIPPLE: 2-7/8" (1.10')
TOTAL STRING LENGTH: ?
SN LANDED AT: 6010'

SUCKER RODS

POLISHED ROD: 1-1/2"x22'
SUCKER RODS: 239-3/4" rods, 1-8', 1-6', 1-4'x3/4" pony rods
TOTAL ROD STRING LENGTH: ?
PUMP NUMBER: ?
PUMP SIZE: 2-1/2"x1-1/2"x16' RHAC
STROKE LENGTH: ?"
PUMP SPEED, SPM: ? SPM
LOGS:



FRAC JOB

4-23-95 6011'-6019' **Frac sand as follows:**

43,000# 20/40 sand & 18,000 gal water. Breakdown @ 2450 psi. Treated w/avg press of 2760 psi w/avg rate of 23 BPM. ISIP- 1750 psi, 5 min 1670 psi.

4-27-95 5282'-5328' **Frac sand as follows:**

76,000# 20/40 sand & 25,600 gal water. Breakdown @ 1100 psi. Treated w/avg press of 1900 psi w/avg rate of 41 BPM. ISIP-1810 psi, 5 min 1230 psi.

PERFORATION RECORD

4-22-95	6011'-6019'	2 JSPF	16 holes
4-26-95	5282'-5284'	1 JSPF	3 holes
4-26-95	5287'-5291'	1 JSPF	5 holes
4-26-95	5300'-5305'	1 JSPF	8 holes
4-26-95	5324'-5328'	1 JSPF	5 holes

Inland Resources Inc.

Pariette Federal #13-24

1745 FSL 768 FWL

NWSW Section 24-T8S-R17E

Uintah Co, Utah

API #43-047-32546; Lease #U-45431

Attachment E-8

Pariette Federal #24-24

Spud Date: 4-18-95
Put on Production: 6-3-95
GL: 5012' KB: ?'

Wellbore Diagram

Initial Production: 116 BOPD, 40 MCFPD, 0 BWPD

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT:24#
LENGTH: 7 jts (313.5')
DEPTH LANDED: 323' GL
HOLE SIZE:12-1/4"
CEMENT DATA: 200 sxs Type V

PRODUCTION CASING

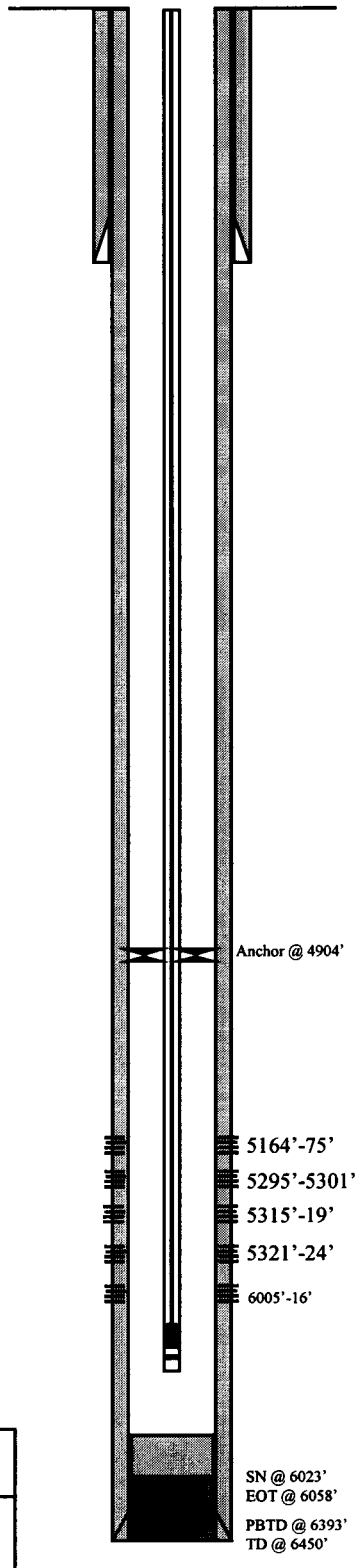
CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 144 jts.
DEPTH LANDED: 6440'
HOLE SIZE: 7-7/8"
CEMENT DATA: 180 sx HFH & 530 sx 50/50 Poz
CEMENT TOP AT: 1466'

TUBING

SIZE/GRADE/WT.: 2-7/8" / ? / ?
NO. OF JOINTS: 195 jts
TUBING ANCHOR: 4904'
SEATING NIPPLE: 2-7/8" (1.10')
TOTAL STRING LENGTH: ?
SN LANDED AT: 6023'

SUCKER RODS

POLISHED ROD: 26'x1-1/2"
SUCKER RODS: 239-3/4" rods, 1-6'x3/4" pony rod
TOTAL ROD STRING LENGTH: ?
PUMP NUMBER: ?
PUMP SIZE: 2-1/2"X1-1/2"X16' RHAC
STROKE LENGTH: ?"
PUMP SPEED, SPM: ? SPM
LOGS: DLL/ARI 6434'-323'
IPL 6414'-4000'



FRAC JOB

5-09-95 6005'-6016' **Frac sand as follows:**
41,300# 20/40 sand & 14,000 gal water. Treated w/avg press of 2400 psi w/avg rate of 20 BPM. ISIP- 3600 psi. Screened out.

5-11-95 5296'-5324' **Frac sand as follows:**
60,200# 20/40 sand & 21,700 gals water. Treated w/avg press of 1750 psi w/avg rate of 31 BPM. ISIP-1690 psi, 5 min 1350 psi.

5-17-95 5164'-5175' **Frac sand as follows:**
51,300# 20/40 sand & 19,600 gal water. Treated w/avg press of 1700 psi w/avg rate of 24 BPM. ISIP-1830 psi, 5 min 1550 psi.

PERFORATION RECORD

5-05-95	6005'-6016'	2 JSPF	22 holes
5-11-95	5295'-5301'	2 JSPF	8 holes
5-11-95	5315'-5319'	2 JSPF	8 holes
5-11-95	5321'-5324'	2 JSPF	6 holes
5-16-95	5164'-5175'	2 JSPF	22 holes

Inland Resources Inc.

Pariette Federal #24-24

2095 FWL 814 FSL

SESW Section 24-T8S-R17E

Uintah Co, Utah

API #43-047-32646; Lease #U-45431

Attachment E-9

Pariette Federal #34-24

Spud Date: 3-24-96
Put on Production: 4-26-96
GL: 4987' KB: ?'

Initial Production: 63 BOPD,
35 MCFPD, 0 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT:24#
LENGTH:7 jts (316.2')
DEPTH LANDED: 326' GL
HOLE SIZE:12-1/4"
CEMENT DATA: 200 sxs Premium

PRODUCTION CASING

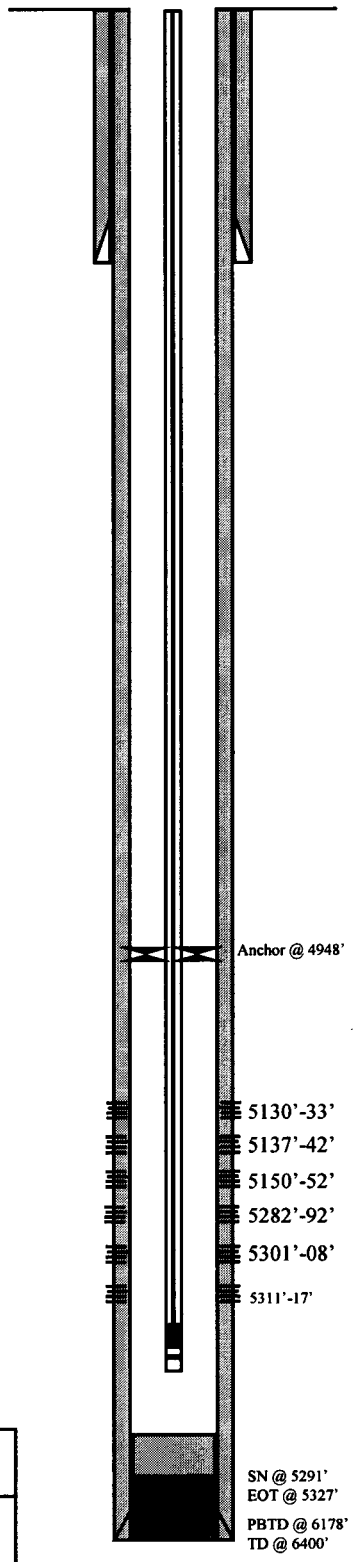
CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 144 jts.
DEPTH LANDED: 6224'
HOLE SIZE: 7-7/8"
CEMENT DATA: 160 sx Hifill & 420 sx Premium
CEMENT TOP AT: 2160'

TUBING

SIZE/GRADE/WT.: 2-7/8" / ? / ?
NO. OF JOINTS: 171 jts
TUBING ANCHOR: 4948'
SEATING NIPPLE: 2-7/8" (1.10')
TOTAL STRING LENGTH: ?
SN LANDED AT: 5291'

SUCKER RODS

POLISHED ROD: 22'x1-1/2"
SUCKER RODS: 209-3/4" rods, 1-8', 1-6', 1-2'x7/8" pony rod
TOTAL ROD STRING LENGTH: ?
PUMP NUMBER: ?
PUMP SIZE: 2-1/2"x1-1/2"x16' RHAC
STROKE LENGTH: ?"
PUMP SPEED, SPM: ? SPM
LOGS: ARI 6345'-300'
FDC/CNL 63954'-4000'



FRAC JOB

4-10-96 5282'-5317' **Frac sand as follows:**

90,000# 20/40 sand & 26,341 gal water. Treated w/avg press of 1300 psi w/avg rate of 25 BPM. ISIP- 1600 psi, 5 min 1474 psi.

4-15-96 5130'-5152' **Frac sand as follows:**

58,000# 20/40 sand & 18,810 gals water. Treated w/avg press of 1600 psi w/avg rate of 20 BPM. ISIP-1787 psi, 5 min 1735 psi.

PERFORATION RECORD

4-08-96	5311'-5317'	2 JSPF	12 holes
4-08-96	5301'-5308'	2 JSPF	14 holes
4-08-96	5282'-5290'	2 JSPF	20 holes
4-13-96	5130'-5133'	2 JSPF	6 holes
4-13-96	5137'-5142'	2 JSPF	10 holes
4-13-96	5150'-5152'	2 JSPF	4 holes

Inland Resources Inc.

Pariette Federal #34-24

465 FSL 1781 FEL

SWSE Section 24-T8S-R17E

Uintah Co, Utah

API #43-047-32506; Lease #U-45431

Attachment F

UNICHEM
A Division of BJ Services

P.O. Box 217
Roosevelt, Utah 84066

Office (801) 722-5066
Fax (801) 722-5727

WATER ANALYSIS REPORT

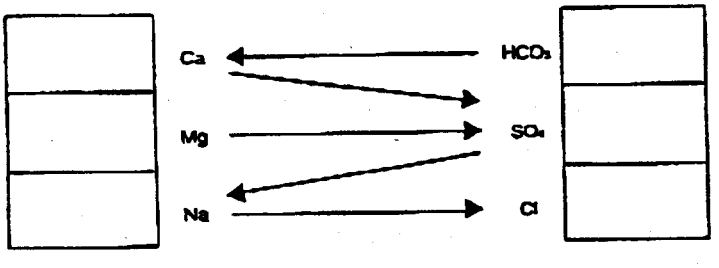
Company INLAND Address _____ Date 01-14-98

Source Johnson Water FRESH WATER Date Sampled _____ Analysis No. _____

	Analysis		mg/l(ppm)		*Meg/l	
1. PH	7.0					
2. H_2S (Qualitative)	0.5					
3. Specific Gravity	1.001					
4. Dissolved Solids			593			
5. Alkalinity ($CaCO_3$)		CO_3	0	÷30	0	CO_3
6. Bicarbonate (HCO_3)		HCO_3	300	÷61	5	HCO_3
7. Hydroxyl (OH)		OH	0	÷17	0	OH
8. Chlorides (Cl)		Cl	35	÷35.5	1	Cl
9. Sulfates (SO_4)		SO_4	110	÷48	2	SO_4
10. Calcium (Ca)		Ca	44	÷20	2	Ca
11. Magnesium (Mg)		MG	22	÷12.2	2	Mg
12. Total Hardness ($CaCO_3$)			200			
13. Total Iron (Fe)			2.2			
14. Manganese						
15. Phosphate Residuals						

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt.	X Meq/l	= Mg/l
$Ca(HCO_3)_2$	81.04	2	162
$CaSO_4$	68.07		
$CaCl_2$	55.50		
$Mg(HCO_3)_2$	73.17	2	146
$MgSO_4$	60.19		
$MgCl_2$	47.62		
$NaHCO_3$	84.00	1	84
Na_2SO_4	71.03	2	142
NaCl	58.46	1	59

Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/l
$CaSO_4 \cdot 2H_2O$	2,090 Mg/l
$MgCO_3$	103 Mg/l

REMARKS _____

Water Analysis, Scaling Tendency, and Compatibility Evaluation

Company : INLAND
Field / Lease : Monument Butte
Service Engineer : John Pope

A = Johnson Water
B = Pariette Federal 9-23

Chemical Component	100 % A	90% A:10%B	80%A:20% B	70%A:30% B	60%A:40% B	50%A:50% B	40%A:60% B	30%A:70% B	20%A:80% B	10%A:90% B	100% B
Chloride (Cl) mg/l	2,800	2,780	2,760	2,740	2,720	2,700	2,680	2,660	2,640	2,620	2,600
Sulfate (SO4) mg/l	455	420	386	351	316	282	247	212	177	143	108
Carbonate (CO3) mg/l	0	12	24	36	48	60	72	84	96	108	120
Bicarbonate (HCO3) mg	268	314	361	407	454	500	546	593	639	686	732
Calcium (Ca) mg/l	232	237	242	246	251	256	261	266	270	275	280
Magnesium (Mg) mg/l	131	128	124	121	117	114	111	107	104	100	97
Iron (Fe) mg/l	3.0	3.3	3.6	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6.0
Barium (Ba) mg/l	0	0	0	0	0	0	0	0	0	0	0
Strontium (Sr) mg/l	0	0	0	0	0	0	0	0	0	0	0
Sodium (Na) mg/l	1,621	1,619	1,617	1,615	1,613	1,611	1,609	1,607	1,605	1,603	1,601
Ionic Strength	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Dissolved Solids (TDS)	5,510	5,513	5,516	5,520	5,523	5,527	5,530	5,534	5,537	5,540	5,544
Specific Gravity @ 60F	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005
Temperature (F)	100	100	100	100	100	100	100	100	100	100	100
Is (TOMSON-ODDO)	0.06	0.31	0.54	0.76	0.98	1.19	1.39	1.59	1.78	1.98	2.17
Pressure (psia)	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
Field pH	6.93	7.08	7.23	7.38	7.53	7.69	7.84	7.99	8.14	8.29	8.44
% CO2 (Mole %)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Scaling Tendency (Pounds per Thousand BBLS of Scale Which Should Form)

CaCO3 (Tomson-Oddo)	8.9	58.1	97.7	133.8	163.7	187.2	204.8	217.7	227.3	234.9	241.1
BaSO4 (Tomson)	0.0	0.0	0.0	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
CaSO4 (Tomson)	-1121.8	-1126.3	-1130.9	-1135.5	-1140.2	-1145.0	-1149.8	-1154.7	-1159.6	-1164.6	-1169.6
SrSO4 (Tomson)	-28.8	-30.7	-32.8	-35.1	-37.7	-40.7	-44.1	-47.9	-52.2	-57.1	-62.7

Attachment G

Balcron Monument Federal #21-25
Proposed Maximum Injection Pressure

Frac Interval (feet) Top	Bottom	Avg. Depth (feet)	ISIP (psi)	Frac Gradient (psi/ft)	Pmax
5308	5337	5323	1380	0.69	1353
5998	6002	6000	1950	0.76	1948
				Minimum	1353

Calculation of Maximum Surface Injection Pressure
Pmax = (Frac Grad -(0.433*1.005)) x Depth of Top Perf
where pressure gradient for the fresh water is .433 psi/ft and
specific gravity of the injected water is 1.005.

Frac Gradient is obtained from the service company's frac summary report.

NOV-13-94 SUN 23:14

Attachment G-1

EQUITABLE RESOURCES ENERGY COMPANY
BALCRON OIL DIVISION
1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104-1017

TREATMENT REPORT

Date of Treatment: 11-11-94

We Name Monument Fed. 21-25 SEC. 25 TWN. 8S RNG 17E
Fie Monument Butte County Duchesne State Utah

Formation/Perforations: Green / 5998-6002

Treatment type: SAND FRAC Total Number of Holes: 16
Treatment Company: WESTERN

Volume		Fluid	Conc.	BPM	PSI	Sand Characteristics Size	Volume
	Gal.						
	Gal.						
48	2000 Gal.	2% KCL WATER PAD		30.8	2880		
16	600 Gal.	"	2 #	30.9	2980	20/40	1200 #
17	600 Gal.	"	4 #	30.8	3000	20/40	2400 #
14	600 Gal.	"	5 #	30.8	3000	20/40	3000 #
45	1500 Gal.	"	6 #	20.6	2890	20/40	9000 #
38	1200 Gal.	"	7 #	30.8	2580	16/30	10360 #
				30.8	2500		
142	5964 Gal.	" FLUSH	0	31.1	2750	-	#
	Gal.					/	#
	Gal.					/	#

TOTAL FLUID PUMPED: — gal. — % Acid
307 gal. 2% KCL WATER fluid

TOTAL SAND VOL.: 17020 lbs. 20/40 sand
10360 lbs. 16/30 sand
— lbs. / sand
— lbs. / bauxite

Flushed well with 5964 gal. of 2% KCL WATER
— ball sealers were pumped. Was ball action seen? —
Barrels of Load to Recover 307 BLTR.
Ave. Treating Pressure = 3000 psi, max = 3100 psi, min = 2550 psi.
Ave. Treating Rate = 30.0 bpm, max = 31.1 bpm, min = 20.6 bpm.
ISIP = 1950 psi, 5 min. = 1670 psi, 10 min. = 1510 psi, 15 min. = 1440 psi.
Well will be shut in for 15 hrs. before bringing back fluid. 30 MIN. = 1200 PSI

REMARKS: FRAC GRADIENT .765
30-MINUTE FORCED CLOSURE AT .5 BPM

Well site Supervisor: Dale

Attachment G-2

EQUITABLE RESOURCES ENERGY COMPANY
BALCRON OIL DIVISION
1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104-1017

TREATMENT REPORT

Date of Treatment: 11-17-94

We Name Monument Fed. 21-25 SEC. 25 TWN. 8S RNG 17E
Fie Monument Butte County Uintah State Utah

Formation/Perforations: Green River / 5308-28, 5328-34, 5337

Treatment type: SAND FRAC Total Number of Holes: 46
Treatment Company: WESTERN

Volume		Fluid	Conc.	Sand Characteristics Size	Volume	
	Gal			BPM / PSI		
169	7100 Gal	2% KCL WATER PAD		30.7 / 1890	—	#
15	600 Gal	2% KCL WATER	1 #	30.7 / 1890	20/40	#
18	700 Gal	"	2 #	31.0 / 1770	20/40	#
49	1800 Gal	"	3 #	31.2 / 1670	20/40	#
99	3500 Gal	"	4 #	31.4 / 1610	20/40	#
175	6000 Gal	"	5 #	31.7 / 1630	20/40	#
139	4600 Gal	"	6 #	32.0 / 1450	20/40	#
139	4600 Gal	"	6 #	31.6 / 1320	16/30	#
169	5484 Gal	"	7 #	31.5 / 1400	16/30	#
124	5200 Gal	" FLUSH	0	32.0 / 1570 26.0 / 1190	—	#

TOTAL FLUID PUMPED: ____ gal. ____ % ____ Acid
39102 gal. 2% KCL WATER fluid

TOTAL SAND VOL.: 80580 lbs. 20/40 sand
67,420 lbs. 16/30 sand
____ lbs. ____ sand
____ lbs. ____ bauxite

Flushed well with 5200 gal. of 2% KCL WATER
____ ball sealers were pumped. Was ball action seen? ____
Barrels of Load to Recover 931 BLTR.
Avg. Treating Pressure = 1600 psi, max = 1890 psi, min = 1320 psi,
Avg. Treating Rate = 31.0 bpm, max = 32.0 bpm, min = 26.0 bpm,
ISIP = 1390 psi, 5 min. = 1110 psi, 10 min. = 1040 psi, 15 min. = 990 psi,
Well will be shut in for 22 hrs. before bringing back fluid. 30 min. = 900 psi

REMARKS: LOAD HOLE W/30 BBL,

.699 FRAC GRADIENT

Well site Supervisor: Dale

NOV-17-94 THU 22:29 P.01

ATTACHMENT H

WORK PROCEDURE FOR PLUGGING AND ABANDONMENT

1.	Plug #1	Set 154' plug from 5898'-6052' with 30 sxs Class "G" cement.
2.	Plug #2	Set 179' plug from 5208'-53878' with 30 sxs Class "G" cement.
3.	Plug #3	Set 200' plug from 2000'-2200' with 30 sxs Class "G" cement.
4.	Plug #4	Set 100' plug from 350'-450' (50' on either side of casing shoe) with 15 sxs Class "G" cement.
5.	Plug #5	Set 50' plug from surface with 10 sxs Class "G" cement.
6.		Pump 10 sxs Class "G" cement down the 8-5/8" x 5-1/2" annulus to cement 400' to surface.

The approximate cost to plug and abandon this well is $18,000.

Attachment H-1

BALCRON MONUMENT FEDERAL #21-25
NE NW Section 25, T8S, R17E
747.6' FNL, 1963.6' FWL
Lease #U-67845
Undesignated Field (Humpback Unit)
Duchesne County, Utah

Elev.GR - 5060' GL
Elev.KB - 5070' KB (10' KB)

PROPOSED P&A
WELLBORE DIAGRAM

DATE : 10/25/96 vk

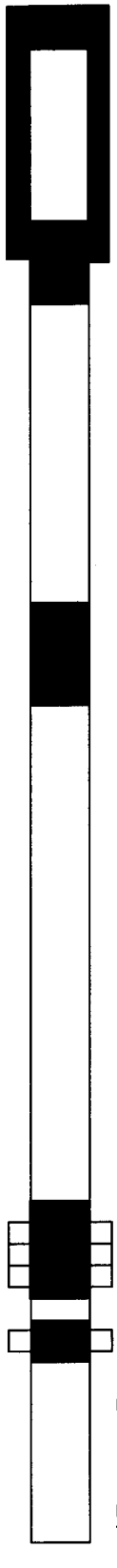
SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 9 jts (389.55 ft)
DEPTH LANDED: 399.55' KB
HOLE SIZE: 12-1/4"
CEMENT DATA: 230 sxs class "G" w/ 2% CCL + 1/4 #/sk CelloSeal

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 149 jts (6281.32 ft)
DEPTH LANDED: 6290' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 194 sxs super "G" w/ (47# "G" + 20# Poz A + 17# CSE + 2# HiSeal + 1/4# CelloSeal)/sk + 3% salt +2% gel Tailed w/ 535 sxs 50/50 POZ + 2% gel + (1/4# CelloSeal + 2# HiSeal2)/sk

CEMENT TOP AT: 1874' KB per CBL



10 sx Class "G" cmt, 50' to surface

10 sx Class "G" cement down the 8-5/8"x5-1/2" annulus to cement 400' to surface

15 sx Class "G" cmt, 350'-450'

30 sx Class "G" cmt, 2000'-2200'

30 sx Class "G" cmt, 5208'-5387'

5308' - 5323' R-5
5328' - 5334' R-5
5337' R-5

30 sx Class "G" cmt, 5898'-6052'

5998' - 6002' B-1D

EOT LANDED @ 6064' KB

PBTD @ 6246' KB
TD @ 6300' KB

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

Michael O. Leavitt
Governor
Lowell P. Braxton
Division Director

June 30, 1998

Inland Production Company
475 Seventeenth Street, Suite 1500
Denver, Colorado 80202

Re: Humpback Unit Wells: Pariette Draw #9-23, Section 23, Township 8 South, Range 17 East; Pariette Federal #12-24, #14-24, #23-24 and #34-24, Section 24, Township 8 South, Range 17 East; Balcron Monument Federal #12-25, #21-25, #23-25 and #32-25, Section 25, Township 8 South, Range 17 East, Duchesne County, Utah

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 wells to Class II injection wells. 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 Inland Production Company.

3. A casing\tubing pressure test shall be conducted prior to commencing injection.

If you have any questions regarding this approval or the necessary requirements, please contact Brad Hill or Dan Jarvis at this office.

Sincerely,

John R. Baza
Associate Director, Oil and Gas

cc: Dan Jackson, Environmental Protection Agency
Bureau of Land Management, Vernal
Inland Production Company, Roosevelt

DIVISION OF OIL, GAS AND MINING
UNDERGROUND INJECTION CONTROL PROGRAM

PERMIT
STATEMENT OF BASIS

Applicant: Inland Production Company **Well:** Balcron Monument Federal #21-25

Location: 25/8S/17E **API:** 43-047-32528

Ownership Issues: The proposed well is located on Federal land. The well is located in the Humpback 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. Inland holds the leases in the unit. Inland has provided a list of all surface, mineral and lease holders in the half-mile radius. Inland will be the operator of the Humpback Unit. Inland 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 400 feet and has a cement top at the surface. A 5 ½ inch production casing is set at 6290 feet and has a cement top at 1874 feet. A cement bond log verifies adequate bond well above the injection zone. A 2 7/8 inch tubing with a packer will be set at 5290 feet. A mechanical integrity test will be run on the well prior to injection. There are 9 producing wells in the area of review. All of the wells have adequate casing and cement. No corrective action will be required.

Ground Water Protection: According to Technical Publication No. 92 the base of moderately saline water is at a depth of approximately 100 feet. Injection shall be limited to the interval between 5308 feet and 6002 feet in the Green River Formation. Information submitted by Inland indicates that the fracture gradient for the #21-25 well is .69 psi/ft., which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 1353 psig. The requested maximum pressure is 1353 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 Humpback Unit on January 1, 1997. 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 Administrative 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): Brad Hill Date: 6/30/98

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-67845**

6. If Indian, Allottee or Tribe Name: **NA**

7. If Unit or CA, Agreement Designation: **HUMPBACK (GR RVR)**

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

8. Well Name and No.: **Monument Federal 21-25**

9. API Well No.: **43-047-32528**

2. Name of Operator: **INLAND PRODUCTION COMPANY**

10. Field and Pool, or Exploratory Area: **PARIETTE DRAW**

3. Address and Telephone No.: **Route 3, Box 3630, Myton Utah 84052 (435-646-3721)**

11. County or Parish, State: **UINTAH COUNTY, UTAH**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)
0748 FNL 1964 FWL **NE/NW Section 25, T08S R17E**

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	[X] Conversion to Injection
	[X] Other **Csg Integrity Test**	[ ] 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.)*

Inland Production Company converted the well to a injection well on 7-8-99. Contacted Mr. John Carson with the EPA and got verbal approval to conduct a MIT test on the casing without a witness. Contacted Mr. Dave Hackford with the State Of Utah and set up time to conduct a MIT on the casing. Pressured casing to 1000 psi for 30 minutes and recorded no loss of pressure.

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

Signed Ron Shuck Title Production Foreman Date 7/15/99

Ron Shuck

(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 RESOURCES INC.

DAILY WORKOVER REPORT

WELL NAME: Monument Fed. 21-25-8-17 **Report Date:** 7-15-99 **Day:** NA

Present Operation: MIT on Casing **Rig:** NA

WELL STATUS

Surf Csg: _____ @ _____ **Prod Csg:** _____ @ _____ **WT:** _____ **Csg PBTD:** _____

Tbg: **Size:** _____ **Wt:** _____ **Grd:** _____ **Pkr/EOT @:** _____ **BP/Sand PBTD:** _____

PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots

CHRONOLOGICAL OPERATIONS

Date Work Performed: 15-Jul-99 **SITP:** 0 **SICP:** 1000

Contacted Mr. John Carson with the EPA and got verbal approval to conduct a MIT on the casing without a witness. Contacted Mr. Dave Hackford with the State Of Utah and set up time to conduct MIT on casing. Pressured casing to 1000 psi and recorded no loss of pressure in 30 minutes. Pressure was released off casing and well was shut-in waiting on approval to inject.

FLUID RECOVERY (BBLS)

Starting fluid load to be recovered: _____ **Starting oil rec to date:** _____

Fluid lost/recovered today: _____ **Oil lost/recovered today:** _____

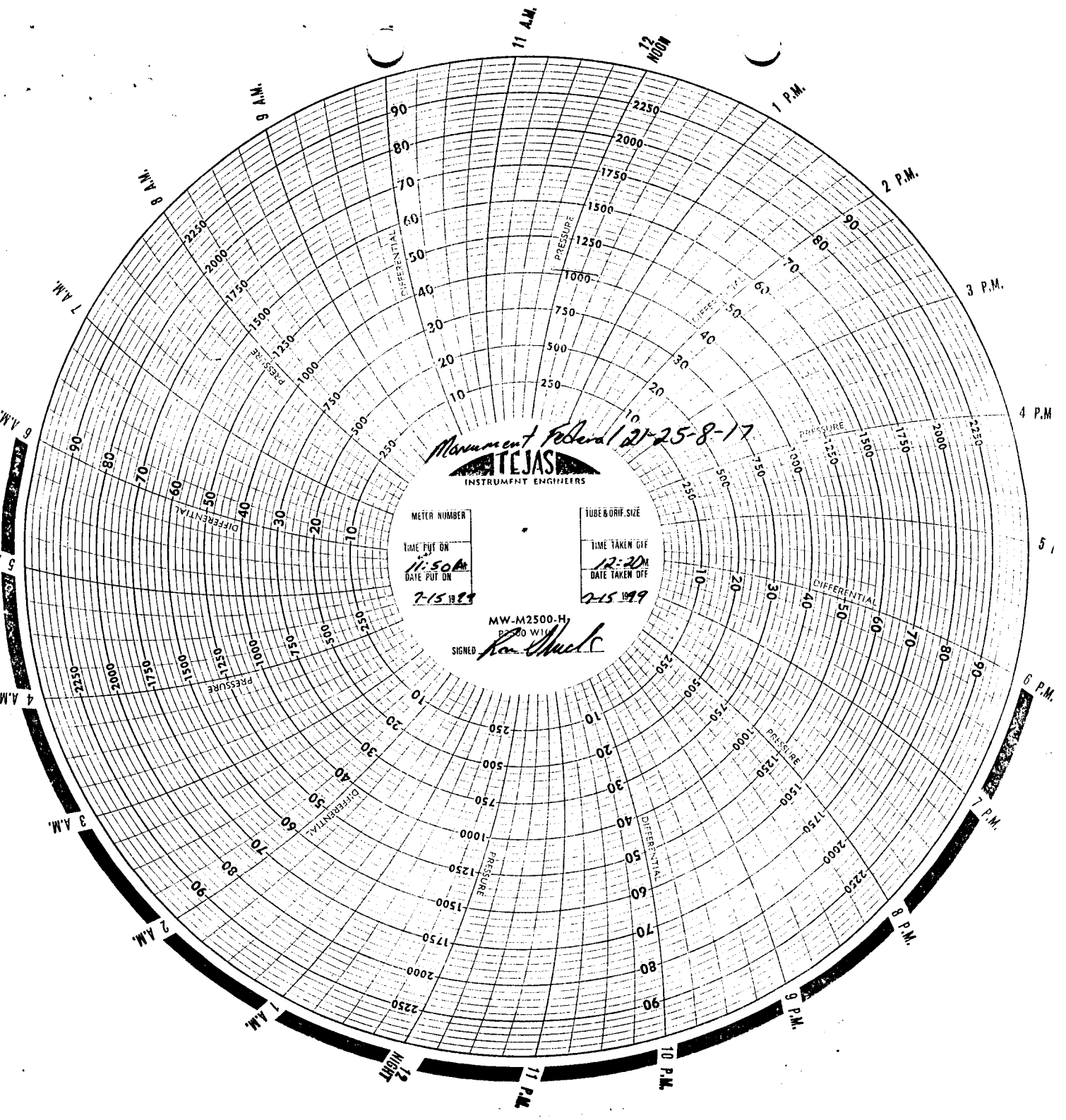
Ending fluid to be recovered: _____ **Cum oil recovered:** _____

IFL: _____ **FFL:** _____ **FTP:** _____ **Choke:** _____ **Final Fluid Rate:** _____ **Final oil cut:** _____

TUBING DETAIL	ROD DETAIL	COSTS	

DAILY COST: $0

Workover Supervisor: ~~Ron Shuck~~ **TOTAL WELL COST:** _____


Monument Federal 12-25-8-17
TEJAS
INSTRUMENT ENGINEERS
METER NUMBER
TIME PUT ON
11:50 AM
DATE PUT ON
7-15 1999
TUBE & ORIF. SIZE
TIME TAKEN OFF
12:20 PM
DATE TAKEN OFF
7-15 1999
MW-M2500-H
SIGNED
12 NOON
1 P.M.
2 P.M.
3 P.M.
4 P.M
5
6 P.M.
7 P.M.
8 P.M.
9 P.M.
10 P.M.
11 P.M.
12 MIDNT
1 A.M.
2 A.M.
3 A.M.
4 A.M.
5
6 A.M.
7 A.M.
8 A.M.
9 A.M.
11 A.M.
PRESSURE
DIFFERENTIAL

DOGM Form 5
May 5, 1987

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5. LEASE DESIGNATION AND SERIAL NO.: U-67845

1. **SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT--" for such proposals.)

6. IF INDIAN, ALLOTTEE OR TRIBAL NAME: N/A

OIL WELL [ ] GAS [ ] OTHER [X] Injection Well

7. UNIT AGREEMENT NAME: HUMPBACK (GR RVR)

2. NAME OF OPERATOR: INLAND PRODUCTION COMPANY

8. FARM OR LEASE NAME: Monument Federal 21-25

3. ADDRESS OF OPERATOR: Route 3, Box 3630, Myton Utah 84052 (435-646-3721)

9. WELL NO.: 21-25-8-17

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: NE/NW 0748 FNL 1964 FWL

10 FIELD AND POOL, OR WILDCAT: PARIETTE DRAW

11 SEC., T., R., M., OR BLK. AND SURVEY OR AREA: NE/NW Section 25, T08S R17E

14 API NUMBER	15. ELEVATIONS (Show whether DF, RT, GR, etc.)	12 COUNTY OR PARISH	13 STATE
43-047-32528	5060 GR	UINTAH	UT

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF [ ]	PULL OR ALTER CASING [ ]	WATER SHUT-OFF [ ]	REPAIRING WELL [ ]
FRACTURE TREAT [ ]	MULTIPLE COMPLETE [ ]	FRACTURE TREATMENT [ ]	ALTERING CASING [ ]
SHOOT OR ACIDIZE [ ]	ABANDON* [ ]	SHOOTING OR ACIDIZING [ ]	ABANDONMENT* [ ]
REPAIR WELL [ ]	[ ]	(OTHER) Injection Conversion	[X]
(OTHER)	[ ]	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17 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.)*

Inland Production Company converted the well to a injection well On 7-8-99. Contacted Mr. Dave Hackford with the State Of Utah and set up time to do MIT on the casing. Pressured casing to 1000 psi and recorded no loss of pressure for 30 minutes.

18 I hereby certify that the foregoing is true and correct

SIGNED Ron Shuck (Ron Shuck) TITLE Production Foreman DATE 7/15/99

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

* See Instructions On Reverse Side

Inland
PRODUCTION COMPANY
A Subsidiary of Inland Resources Inc.

July 16, 1999

RECEIVED
JUL 18 1999
DIV. OF OIL, GAS & MINING

Environmental Protection Agency
Attn: John Carsons
Region VIII
999 18th Street - Suite 500
Denver, Colorado 80202-2466

RE: Monument Federal #21-25
Humpback EPA Area Permit #UT-2852

Dear Mr. John Carsons:

Please find enclosed the results of a MIT test conducted today on the above referenced well. You were notified of this test and gave permission to conduct without an EPA representative present.

If you have any questions or need further information, please don't hesitate to contact me. I can be reached at our Pleasant Valley Office at (435) 646-3721 or on my cellular at (435) 823-7977.

Sincerely,

Ron Shuck

Ron Shuck
Production Foreman

Enclosures

cc: State of Utah – Division of Oil, Gas & Mining
Jon Holst - Inland Resources
Shannon - Denver WF
Chris - Myton WF

/rs

Mechanical Integrity Test
Casing or Annulus Pressure Test

Inland Production Company
Rt. 3 Box 3630
Myton, UT 84052
435-646-3721

Witness: None **Date** 7 / 15 / 99 **Time** _____ am pm

Test Conducted by: Ron Shuck

Others Present: None

Well: MONUMENT FEDERAL 21-25	**Field:** HUMPBACK
Well Location: NE/NW Sec25,T08S,R17E	**API No:** 43-047-32528, U-67845

Time	Casing Pressure	
0 min	1000	psig
5	1000	psig
10	1000	psig
15	1000	psig
20	1000	psig
25	1000	psig
30 min	1000	psig
35		psig
40		psig
45		psig
50		psig
55		psig
60 min		psig

Tubing pressure: 0 psig

Result: **Pass**

Signature of Witness: Contacted State of Utah and EPA

Signature of Person Conducting Test: Ron Shuck

Mechanical Integrity Test
Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program, UIC Direct Implementation Program 8P-W-GW
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: Contacted John Carson Date: 7 / 15 / 99
Test conducted by: Ron Shuck
Others present: None

Well Name: Monument Federal 21-25 Type: ER SWD Status: AC TA UC
Field: Humpback
Location: NE/NW Sec: 25 T 8 N (S) R 17 (E) W County: Uintah State: UT
Operator: Inland Production Company
Last MIT: 7 / 12 / 99 Maximum Allowable Pressure: _____ PSIG

Is this a regularly scheduled test? [ ] Yes [X] No
Initial test for permit? [X] Yes [ ] No
Test after well rework? [X] Yes [ ] No
Well injecting during test? [ ] Yes [X] No If Yes, rate: _____ bpd

Pre-test casing/tubing annulus pressure: 0 Tbg 0 Csg psig

MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING PRESSURE			
Initial Pressure	0 psig	psig	psig
End of test pressure	1000 psig	psig	psig
CASING / TUBING ANNULUS PRESSURE			
0 minutes	1000 psig	psig	psig
5 minutes	1000 psig	psig	psig
10 minutes	1000 psig	psig	psig
15 minutes	1000 psig	psig	psig
20 minutes	1000 psig	psig	psig
25 minutes	1000 psig	psig	psig
30 minutes	1000 psig	psig	psig
minutes	psig	psig	psig
minutes	psig	psig	psig
RESULT	[X] Pass [ ] Fail	[ ] Pass [ ] Fail	[ ] Pass [ ] Fail

Does the annulus pressure build back up after the test ? [ ] Yes [X] No

MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Contacted John Carson with EPA, got verbal approval to Conduct a MIT on Casing without a witness. Pressured Casing to 1000 PSI. 0 psi on Tubing. Left Pressure on Casing for 30 minutes and Recorded NO Loss of Pressure.

Signature of Witness: _____

OFFICE USE ONLY - COMPLIANCE FOLLOWUP

Staff _____ Date: ___/___/___

Do you agree with the reported test results? [ ] YES [ ] NO

If not, why? _____

Possible violation identified? [ ] YES [ ] NO

If YES, what _____

If YES - followup initiated? [ ] YES _____

[ ] NO - why not? _____

[ ] Data Entry [ ] Compliance Staff [ ] 2nd Data Entry [ ] Hardcopy Filing

Michael O. Leavitt
Governor
Kathleen Clarke
Executive Director
Lowell P. Braxton
Division Director

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

UNDERGROUND INJECTION CONTROL PERMIT

Cause No. UIC-212

Operator: Inland production Company

Well: Monument Federal #21-25

Location: Section 25, Township 8 South, Range 17 East

County: Uintah

API No.: 43-047-32528

Well Type: Enhanced Recovery (waterflood)

Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on June 30, 1998.
2. Maximum Allowable Injection Pressure: 1353 psig
3. Maximum Allowable Injection Rate: (restricted by pressure limitation)
4. Injection Interval: Green River Formation (5308 feet - 6002 feet)

Approved by: John R. Baza — 7/22/99

John R. Baza
Associate Director, Oil And Gas

Date

c
(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-67845

6. If Indian, Allottee or Tribe Name
NA

7. If Unit or CA, Agreement Designation
HUMPBACK (GR RVR)

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

8. Well Name and No.
BALCRON MONUMENT FEDERAL 21-25

9. API Well No.
43-047-32528

2. Name of Operator
INLAND PRODUCTION COMPANY

10. Field and Pool, or Exploratory Area
PARIETTE DRAW

3. Address and Telephone No.
410 17TH STREET, SUITE 700, DENVER, COLORADO 80202 (303) 893-0102

11. County or Parish, State
UINTAH COUNTY, UTAH

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)
0748 FNL 1964 FWL NE/NW Section 25, T08S R17E

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	[X] Conversion to Injection
	[X] Other **Injection**	[ ] 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.)*

The above well was converted to a water injection well 7/8/99 through 7/15/99.

Attachments:
1. Daily Workover Report

COPY SENT TO OPERATOR
Date: 8/11/99
Initials: CHD

RECEIVED
AUG 12 1999
DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct
Signed Mike Mihaljevich Title Intern Date 8/10/99
Mike Mihaljevich

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

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY

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 RESOURCES INC.

Daily Workover Report

BALCRON MONUMENT FEDERAL 21-25
NE/NW Section 25, T08S R17E
UINTAH Co., Utah
API # 43-047-32528

Spud Date: 10/20/94
POP: 11/28/94
TD: 6300'
WO Rig:

7/8/99 PO: Injection Conversion. (Day 1)

Summary: 7/7/99 – TP: 0, CP: 0. MIRU KES #55. Pump 100 BW dn csg @ 250°F. RD pumping unit. Unseat rod pump. Flush tbg & rods w/50 BW @ 250°F. Re-seat rod pump & "soft joint " rod string. Fill tbg w/20 BW. Press test tbg to 2000 psi. Unseat pump. TOH & LD rod string & pump. Pump looked good. Rods show minimal wear throughout entire string. ND wellhead. Release TA @ 5289'. NU BOP. TOH w/production tbg. LD BHA. TIH w/4-3/4" bit, 5-1/2" csg scraper & 195 jts prod. tbg to 6059' (57' below btm perf). LD top 26 jts prod. tbg. SIFN w/EOT @ 5227'. 170 BW used.
DC: $9,800 TWC: $9,800

7/9/99 PO: Injection Conversion. (Day 2)

Summary: 7/8/99 – TP: 0, CP: 0. TOH w/tbg f/5227', breaking each connection & applying "Liquid O-ring" to each pin. LD bit & scraper. TIH w/injection string as follows: 5-1/2" Arrowset 1-X packer (w/W.L. re-entry guide & hardened steel slips), SN, 168 jts 2-7/8 8rd 6.5# J-55 tbg. ND BOP. Land tbg on flange. Mix 5 gal Alpha 1-33 (biocide) & 15 gal Unichem 6061 (corrosion inhibitor) in 60 bbls fresh wtr. Pump 30 bbls dn csg @ 90°F. PU on tbg & set pkr w/17" stretch w/SN @ 5224', pkr elements @ 5228' & EOT @ 5232'. Land tbg w/15,000# tension. NU wellhead. Pump remaining 30 bbls mixed wtr, top csg off w/25 bbls fresh wtr. Press test csg & pkr to 1130 psi. Bled dn to 1075 psi in 10 min, then held solid for 30 min. Leave pressure on well. RDMOSU. Used 255 BW during rig job.
DC: $4,200 TWC: $14,000

7/10/99 PO: M.I.T.

Summary: Contacted Mr. John Carson with the EPA and got verbal approval to conduct a MIT on the casing without a witness. Contacted Mr. Dave Hackford with the State Of Utah and got verbal approval to cunduct a MIT on the casing without a witness. Pressured casing to 1220 psi and recorded no loss of pressure in 1 hour. Pressure was left on well for Dave Hackford at a later date.
DC: $4,200 TWC: $14,000

7/14/99 PO: Tbg Leak. (Day 1)

Summary: 7/13/99 – TP: 0, CP: 0. MIRU KES #55. ND wellhead. PU on tbg - pkr still set. Re-land tbg. Pump 5 BW pad dn tbg & drop standing valve. Pump to SN w/32 BW. Pressure up on tbg to 2000 psi. Bleeds off 500 psi in 5 mins. Fish standing valve w/sandline. PU on tbg & release packer @ 5228'. NU BOP. Pump 25 BW dn csg @ 225°F to stifle gas & clean tbg. TOH w/injection tbg & packer to 2007'. Break each connection & apply "Liquid O-ring" to each pin. Re-torque string as pulled. SIFN w/est 62 BW used for rig job.
DC: $2,400 TWC: $2,400

c
(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

5. Lease Designation and Serial No.: **U-67845**

6. If Indian, Allottee or Tribe Name: **NA**

7. If Unit or CA, Agreement Designation: **HUMPBACK (GR RVR)**

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

8. Well Name and No.: **BALCRON MONUMENT FEDERAL 21-25**

9. API Well No.: **43-047-32528**

2. Name of Operator: **INLAND PRODUCTION COMPANY**

10. Field and Pool, or Exploratory Area: **PARIETTE DRAW**

3. Address and Telephone No.: **410 17TH STREET, SUITE 700, DENVER, COLORADO 80202 (303) 893-0102**

11. County or Parish, State: **UINTAH COUNTY, UTAH**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)
0748 FNL 1964 FWL NE/NW Section 25, T08S R17E

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	[X] Conversion to Injection
	[X] Other **Injection**	[ ] 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.)*

The above well was converted to a water injection well 7/8/99 through 7/15/99.

Attachments:
1. Daily Workover Report

RECEIVED
OCT 13 1999
DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct
Signed Mike Mihaljevich Title Intern Date 8/10/99
Mike Mihaljevich

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

Accepted by the
Utah Division of
Oil, Gas and Mining
Date: 11-18-99
By: RJK

WTC 11-18-99

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 RESOURCES INC.

Daily Workover Report – Page Two

BALCRON MONUMENT FEDERAL 21-25
NE/NW Section 25, T08S R17E
UINTAH Co., Utah
API # 43-047-32528

Spud Date: 10/20/94
POP: 11/28/94
TD: 6300'
WO Rig:

7/15/99 PO: Tbg Leak. (Day 2)

Summary: 7/14/99 – TP: 0, CP: 0. Con't TOH w/injection string & packer f/2007'. Break each connection & apply "Liquid O-ring" to each pin. Re-torque string as pulled. Packer looks good. LD 1 gaulled joint. TIH w/injection string (same as pulled) as follows: re-run 5-1/2" Arrowset 1-X packer (w/W.L. re-entry guide & hardened steel slips), 2-7/8 SN, 168 jts 2-7/8 8rd 6.5# J-55 tbg. Ran standing valve in place in SN. Press test tbg string as RIH to 2500 psi. Changed out 2 egged tbg collars. Retrieve standing valve w/sandline. ND BOP. Land tbg on flange. Mix 15 gal Unichem 6061 (corrosion inhibitor) & 5 gal Alpha 1-33 (biocide) in 60 bbls fresh wtr. Pump 30 bbls mixed water dn csg @ 90°F. PU on tbg string & set packer w/17" stretch w/SN @ 5224', pkr elements @ 5228' & EOT @ 5232'. Land tbg w/15,000# tension. NU wellhead. Pump add'l 30 bbls mixed wtr & top off w/20 bbls fresh wtr. Pressure up on csg to 1150 psi. Bled off to 1125 psi in 10 min, then held solid for 30 min. Leave pressure on well. RDMOSU. Est 142 bbls wtr used for rig job.

DC: $3,500 TWC: $5,900

7/15/99 PO: M.I.T. (Day 3)

Summary: 7/15/99 - Contacted Mr. John Carson with the EPA and got verbal approval to conduct a MIT on the casing without a witness. Contacted Mr. Dave Hackford with the State Of Utah and set up time to conduct MIT on casing. Pressured casing to 1000 psi and recorded no loss of pressure in 30 mins. Pressure was released off casing and well was shut-in waiting on approval to inject.

DC: $0 TWC: $14,000

Inland
PRODUCTION COMPANY
A Subsidiary of Inland Resources Inc.

January 17, 2000

State of Utah
Division of Oil, Gas & Mining
Attn: Carolyn
1594 West North Temple - Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801

Dear Carolyn:

Please find enclosed the Production and Disposition Reports for November 1999. As we have discussed the wells we took over from Celsius are on my reports by not the models. I have deleted the Squaws Crossing #1-5, this is that Celsius well that was plugged. The other discrepancies between my reports and the models are as follows:

1) Travis Federal #9-28, entity #10628 went on injection in October, but there was still inventory at the end of the November.
2) Allen Federal #1-5A, entity #11492 went on injection on August 17, 1999 4301315780
3) Monument Federal #21-25, entity #12053 went on injection on August 17, 1999 4304732528
4) South Pleasant Valley #15-15, entity #12417 went on injection October 7, 1999 4301331992
5) South Wells Draw #16-4, entity #12604 went on production November 12, 1999
6) South Wells Draw #10-4, entity #12633 went on production November 26, 1999

Please let me know if there is any information that you need from me on any of the above referenced wells. As always, thanks for your assistance. If you have any questions or need further information, please don't hesitate to call me.

Sincerely,

Kebbie S. Jones

Kebbie S. Jones
District Administrator

RECEIVED
JAN 10 2000
DIV. OF OIL, GAS & MINING

Enclosures
/kg

Inland Production Company Field Office • Route 3, Box 3630 • Myton, UT 84052 • 435-646-3721 • FAX 435-646-3031
Corporate Office • 410 Seventeenth Street, Suite 700 • Denver, CO 80202 • 303-893-0102 • FAX 303-893-0103

FORM 9

STATE OF UTAH

DIVISION OF OIL, GAS, AND MINING

1. **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 NO. **UTU-67845** 6. IF INDIAN, ALLOTTEE OR TRIBAL NAME **N/A**
OIL WELL [ ] GAS WELL [ ] OTHER [X] **Injection Well**	7. UNIT AGREEMENT NAME **HUMPBACK (GR RVR)**
2. NAME OF OPERATOR **INLAND PRODUCTION COMPANY**	8. WELL NAME and NUMBER **BALCRON MONUMENT FEDERAL 21-25-8-17**
3. ADDRESS AND TELEPHONE NUMBER **Rt. 3 Box 3630, Myton Utah 84052** **435-646-3721**	9. API NUMBER **43-047-32528**
4. LOCATION OF WELL Footages **748 FNL 1964 FWL** QQ, SEC, T, R, M: **NE/NW Section 25, T08S R17**	10. FIELD AND POOL, OR WILDCAT **PARIETTE DRAW** COUNT **UINTAH** STATE **UTAH**

11. **CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

NOTICE OF INTENT: (Submit in Duplicate)		SUBSEQUENT REPORT OF: (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	[ ] RECOMPLETE
[ ] CONVERT TO INJECTION	[ ] REPERFORATE	[ ] CONVERT TO INJECTION	[ ] REPERFORATE
[ ] FRACTURE TREAT OR ACIDIZE	[ ] VENT OR FLARE	[ ] FRACTURE TREAT OR ACIDIZE	[ ] VENT OR FLARE
[ ] MULTIPLE COMPLETION	[ ] WATER SHUT OFF	[X] OTHER **Step Rate Test**	
[ ] OTHER _____		DATE WORK COMPLETED _____	

Report results of Multiple Completion and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form

*Must be accompanies 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 depth for all markers and zones pertinent to this work.

A step rate test was conducted on the subject well on 4/11/01. Results from the test indicate that the fracture gradient is .636 psi/ft. Therfore, Inland is requesting that the MAIP be changed to 1065 psi.

13.
NAME & SIGNATURE: Michael Guinn TITLE District Engineer DAT 4/13/01

(This space for State use only)

4/94

* See Instructions On Reverse Side

Approved by the Utah Division of Oil, Gas and Mining

Date: 04-24-01

By:

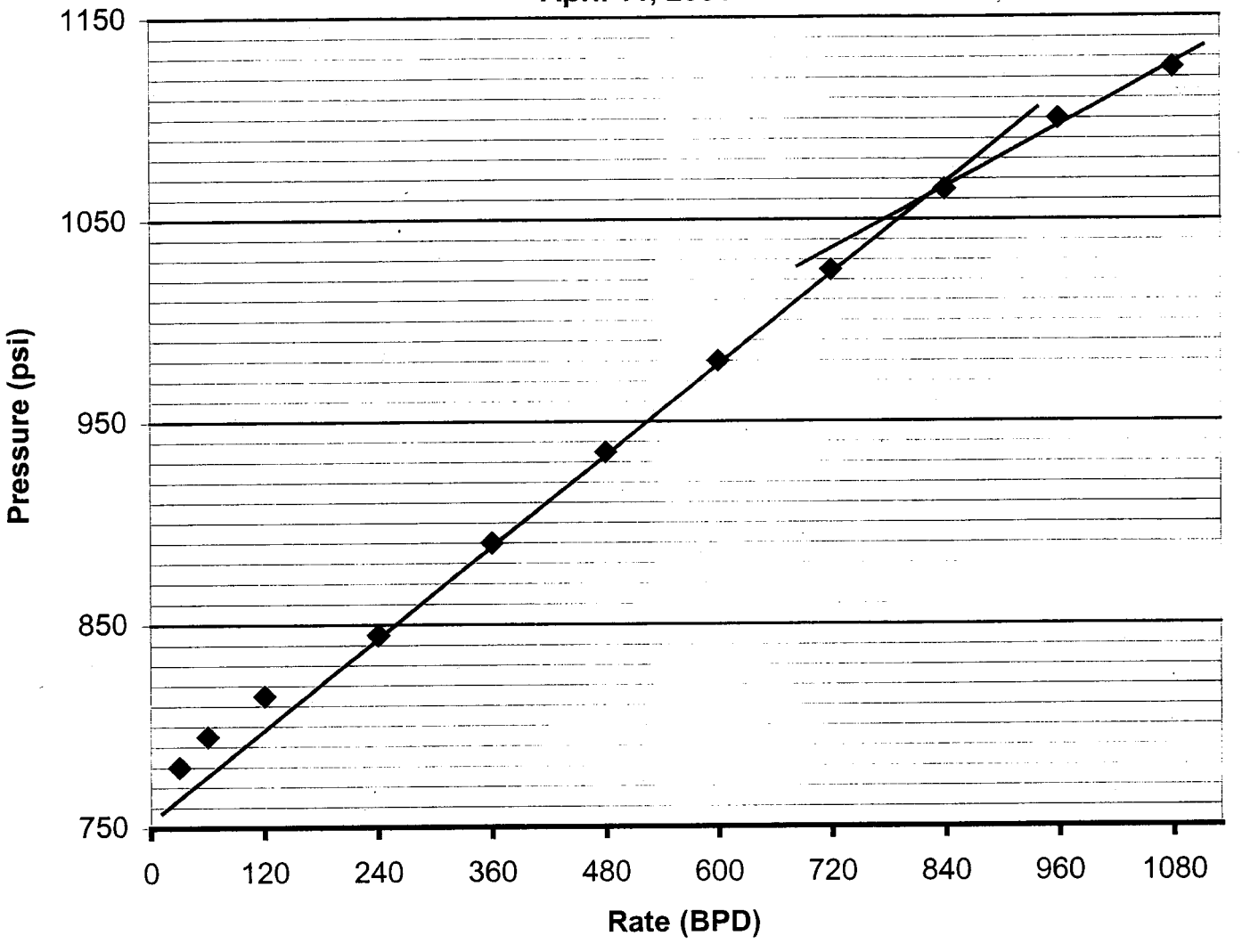
04/24/01 CHD

RECEIVED

APR 17 2001

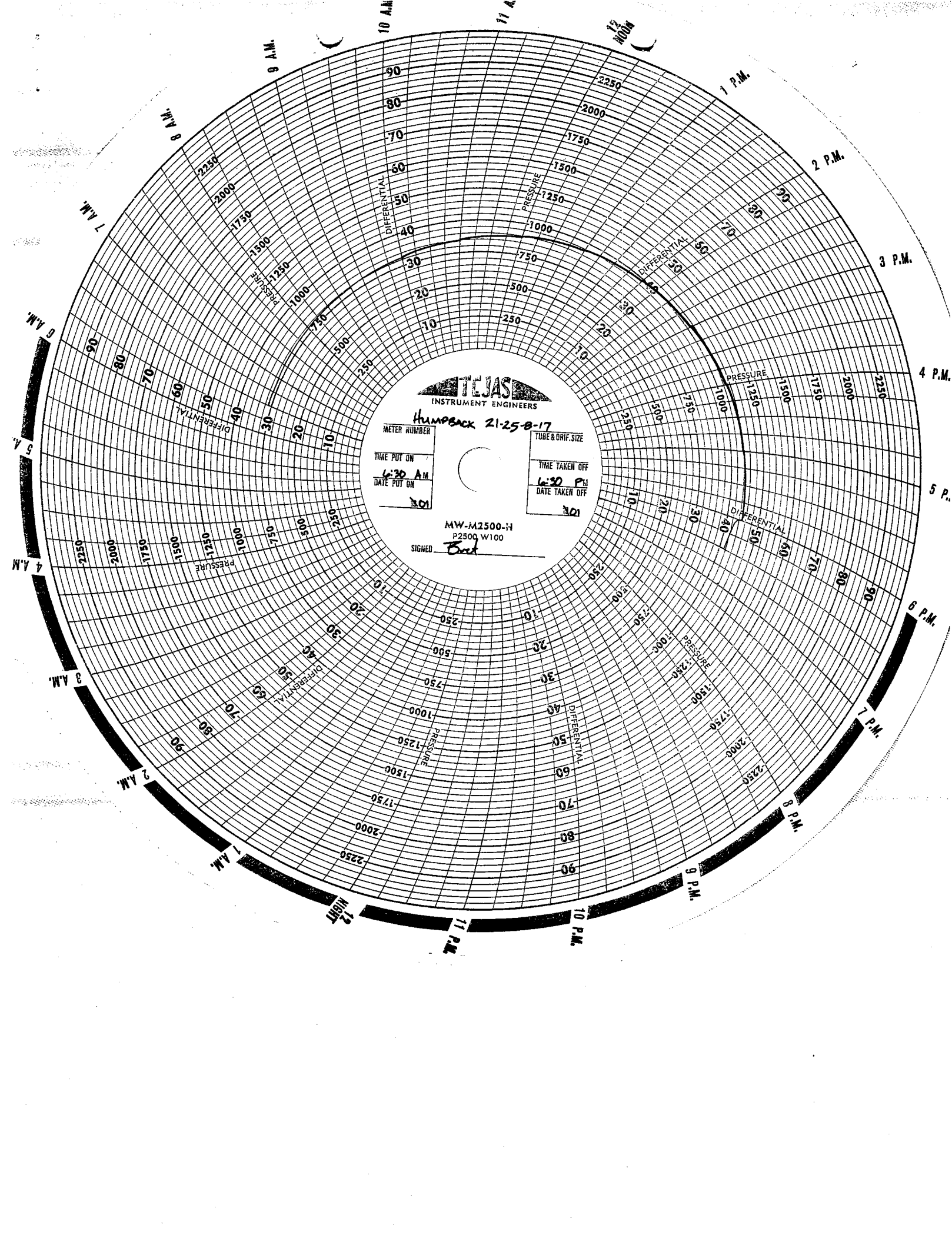
DIVISION OF OIL, GAS AND MINING

Monument Federal 21-25-8-17
Humpback Unit
Step Rate Test
April 11, 2001



Start Pressure:	770	psi
ISIP:	1090	psi
Fracture pressure:	1065	psi
Top Perforation:	5308	feet
FG:	0.636	psi/ft

Step	Rate(bpd)	Pressure(psi)
1	30	780
2	60	795
3	120	815
4	240	845
5	360	890
6	480	935
7	600	980
8	720	1025
9	840	1065
10	960	1100
11	1080	1125


TEJAS
INSTRUMENT ENGINEERS
Humpback 21-25-8-17
METER NUMBER
TUBE & ORIF. SIZE
TIME PUT ON
6:30 AM
TIME TAKEN OFF
6:30 PM
DATE PUT ON
DATE TAKEN OFF
MW-M2500-H
P2500 W100
SIGNED
Bret
12 NOON
1 P.M.
2 P.M.
3 P.M.
4 P.M.
5 P.M.
6 P.M.
7 P.M.
8 P.M.
9 P.M.
10 P.M.
11 P.M.
12 NIGHT
1 A.M.
2 A.M.
3 A.M.
4 A.M.
5 A.M.
6 A.M.
7 A.M.
8 A.M.
9 A.M.
10 A.M.
11 A.M.
PRESSURE
DIFFERENTIAL

STATE OF UTAH
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

INJECTION WELL - PRESSURE TEST

Test Date: 5/8/2000 Well Owner/Operator: Inland Prod. Co.

Disposal Well: _____ Enhanced Recovery Well: X Other: _____

API No.: 43-047-32528 Well Name/Number: Monument Fed 21-25

Section: 25 Township: 8S Range: 17E

Initial Conditions:

Tubing - Rate: 0 Pressure: 0 psi

Casing/Tubing Annulus - Pressure: 1100 psi

Conditions During Test:

Time (Minutes)	Annulus Pressure	Tubing Pressure
0	1100	0
5	1100	0
10	1100	0
15	1100	0
20	1100	0
25	1100	0
30	1100	0

Results: (Pass) Fail

Conditions After Test:

Tubing Pressure: 0 psi

Casing/Tubing Annulus Pressure: 1100 psi

REMARKS: Packer recently replaced.

Ron Shuck David W. Hackford 5/12/2000

Operator Representative **DOGM Witness**

Inland
PRODUCTION COMPANY
A Subsidiary of Inland Resources Inc.

May 8, 2000

Division Oil and Gas & Mining
Attn: Mr. Brad Hill
1594 West North Temple – Suite 1210
P. O. Box 145801
Salt Lake City, Utah 84114-5801

RE: Monument Federal 21-25-8-17
API # 43-047-32528, U-67845

Dear Mr. Brad Hill

Please find enclosed the results of a MIT test conducted today on the above referenced well. Mr Dave Hackford with The State Of Utah witnessed the test. On 5-8-00 there was 1100 psi put on casing with 0 psi on tubing there was no loss of pressure charted in a ½ hour test. The pressure was then released. This was a test resulting from a packer replacement in the well.

If you have any questions or need further information, please don't hesitate to contact me. I can be reached at our Pleasant Valley Office at (435) 646-3721 or on my cellular at (435) 823-7977.

Sincerely,

Ron Shuck

Ron Shuck
Production Foreman

Enclosures

cc: State of Utah – Division of Oil, Gas & Mining
Jon Holst - Inland Resources
Roosevelt & Denver Well Files

/rs

DOGM Form 9
May 5, 1987

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

	U-67845
1. **SUNDRY NOTICES AND REPORTS ON WELLS** (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT--" for such proposals.)	6. IF INDIAN, ALLOTTEE OR TRIBAL NAME N/A
OIL WELL [ ] GAS WELL [ ] OTHER [x] injection	7. UNIT AGREEMENT NAME HUMPBACK (GR RVR)
2. NAME OF OPERATOR INLAND PRODUCTION COMPANY	8. FARM OR LEASE NAME BALCRON MONUMENT FEDERA
3. ADDRESS OF OPERATOR Route 3 Box 3630, Myton Utah, 84052 (435) 646-3721	9. WELL NO. 21-25-8-17
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NE/NW 0748 FNL 1964 FWL	10 FIELD AND POOL, OR WILDCAT PARIETTE DRAW 11 SEC., T., R., M., OR BLK. AND SURVEY OR AREA NE/NW Section 25, T08S R17E

14 API NUMBER	15. ELEVATIONS (Show whether DF, RT, GR, etc.)	12 COUNTY OR PARISH	13 STATE
43-047-32528	5060 GR	UINTAH	UT

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF [ ]	PULL OR ALTER CASING [ ]	WATER SHUT-OFF [ ]	REPAIRING WELL [ ]
FRACTURE TREAT [ ]	MULTIPLE COMPLETE [ ]	FRACTURE TREATMENT [ ]	ALTERING CASING [ ]
SHOOT OR ACIDIZE [ ]	ABANDON* [ ]	SHOOTING OR ACIDIZING [ ]	ABANDONMENT* [ ]
REPAIR WELL [ ]	[ ]	(OTHER) MIT on Casing [X]	
(OTHER) [ ]		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17 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.)*

The above referenced well had a MIT test done on the casing on 5-8-00. The well had a Packer leak that Inland repaired. Mr Dave Hackford with the State Of Utah witnessed the test. There was 1100 psi put on the casing and no loss of pressure was charted in a 1/2 hour test.

18 I hereby certify that the foregoing is true and correct

SIGNED Ron Shuck TITLE Production Foreman DATE 5/8/00

Ron Shuck

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Accepted by the Utah Division of Oil, Gas and Mining

Date: 5/16/00

By: [signature]

COPY SENT TO OPERATOR
Date: 5-18-00
Initials: CHD

* See Instructions On Reverse Side

RECEIVED

MAY 15 2000

DIVISION OF OIL, GAS AND MINING

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program, UIC Direct Implementation Program 8P-W-GW
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: None Date: 5 / 8 / 00
Test conducted by: Ron Shuck
Others present: David W. Hackford (DOGM)

Well Name: Monument Federal 21-25 Type: (ER) SWD Status: (AC) TA UC
Field: Hungry Horse Unit # UT-2852
Location: NE/NW Sec: 25 T 8 N (S) R 17 (E) W County: Uintah State: UT
Operator: Inland Production
Last MIT: / / Maximum Allowable Pressure: PSIG

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MAY 15 2000
DIVISION OF
OIL, GAS AND MINING

Is this a regularly scheduled test? [X] Yes [ ] No
Initial test for permit? [ ] Yes [X] No
Test after well rework? [X] Yes [ ] No
Well injecting during test? [ ] Yes [X] No If Yes, rate: bpd

Pre-test casing/tubing annulus pressure: 1100 psig

MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING PRESSURE			
Initial Pressure	Vacuum psig	psig	psig
End of test pressure	Vacuum psig	psig	psig
CASING / TUBING ANNULUS PRESSURE			
1132 0 minutes	1100 psig	psig	psig
5 minutes	1100 psig	psig	psig
10 minutes	1100 psig	psig	psig
15 minutes	1100 psig	psig	psig
20 minutes	1100 psig	psig	psig
25 minutes	1100 psig	psig	psig
30 minutes	1100 psig	psig	psig
minutes	psig	psig	psig
minutes	psig	psig	psig
RESULT	[X] Pass [ ] Fail	[ ] Pass [ ] Fail	[ ] Pass [ ] Fail

Does the annulus pressure build back up after the test ? [ ] Yes [X] No

MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

The well was on Injection and got a leak. Inland Production Repaired the leak and is now waiting on permission to start Injection again

RECEIVED

MAY 15 2000

DIVISION OF
OIL, GAS AND MINING

Signature of Witness: _____

OFFICE USE ONLY - COMPLIANCE FOLLOWUP

Staff _____ Date: ___/___/___

Do you agree with the reported test results? [ ] YES [ ] NO

If not, why? _____

Possible violation identified? [ ] YES [ ] NO

If YES, what _____

If YES - followup initiated? [ ] YES _____

[ ] NO - why not? _____

[ ] Data Entry [ ] Compliance Staff [ ] 2nd Data Entry [ ] Hardcopy Filing

Inland RESOURCES INC.

DAILY WORKOVER REPORT

WELL NAME: Monument Federal 21-25-8-17 **Report Date:** 5-8-00 **Day:** NA

Operation: MIT on casing **Rig:** NA

WELL STATUS

Surf Csg: _____ @ _____ **Prod Csg:** _____ @ _____ **WT:** _____ **Csg PBTD:** _____

Tbg: **Size:** _____ **Wt:** _____ **Grd:** _____ **Pkr/EOT @:** _____ **BP/Sand PBTD:** _____

PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots

CHRONOLOGICAL OPERATIONS

Date Work Performed: 08-May-00 **SITP:** 0 **SICP:** 1100

Contacted Mr Bahram Jafari with the EPA and got verbal approval to conduct an MIT on the casing without a witness. Contacted Mr Dave Hackford with the State Of Utah and lined up a time of 11:00 AM. Dave Hackford witnessed test. The casing was pressured to 1100 psi and no loss of pressure was charted in 1/2 hour test. The well is waiting for approval to start injecting again after finding a leak in well.

RECEIVED
MAY 15 2000
DIVISION OF
OIL, GAS AND MINING

FLUID RECOVERY (BBLS)

Starting fluid load to be recovered: 0 **Starting oil rec to date:** _____

Fluid lost/recovered today: _____ **Oil lost/recovered today:** _____

Ending fluid to be recovered: _____ **Cum oil recovered:** _____

IFL: _____ **FFL:** _____ **FTP:** _____ **Choke:** _____ **Final Fluid Rate:** _____ **Final oil cut:** _____

TUBING DETAIL	ROD DETAIL	COSTS	

DAILY COST: _____

Workover Supervisor: Ron Shuck **TOTAL WELL COST:** _____

Inland RESOURCES INC.

DAILY WORKOVER REPORT

WELL NAME: Mon. Fed. 21-25-8-17 **Report Date:** 5-7-00 **Day:** 02

Operation: Hole in Tbg **Rig:** Pennant #4

WELL STATUS

Surf Csg:	8 5/8	@	400' KB	Prod Csg:	5 1/2	@	6290'	WT:	15.5#	Csg PBTD:	6244'
Tbg:	Size:	2 7/8	Wt:	6.5#	Grd:	J-55	Pkr/EOT @:	5228'		BP/Sand PBTD:	6244'

PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
	5308-5323'	2/30			
	5328-5334'	2/12			
	5337'	2/2			
	5998-6002'	4/16			

CHRONOLOGICAL OPERATIONS

Date Work Performed: 06-May-00 **SITP:** 0 **SICP:** 0

Continue to POOH w/ tbg looking for hole. Pulled 34 stands. PU new 5 1/2" Arrow set 1-X pkr, SN with standing valve in place and RIH w/ tbg pressure testing every 10 stands to 3000 psi all the way in the hole. (Tested OK). Held the last test for 30 minutes. RU sandline and retrieve standing valve. ND BOP and set pkr @ 5228' in 16,000 # tension. NU well head, Fill csg w/ 30 bbls wtr and PKR fluid. Pressure test csg and PKR to 1100 psi for 30 minutes with no leak off. RD tbg equipment and RU rod equipment. RDMOSU. Ready for MIT.

FLUID RECOVERY (BBLS)

Starting fluid load to be recovered:		Starting oil rec to date:	0
Fluid lost/recovered today:		Oil lost/recovered today:	
Accum. Fluid used:		Cum oil recovered:	0

IFL: FFL: FTP: Choke: Final Fluid Rate: Final oil cut:

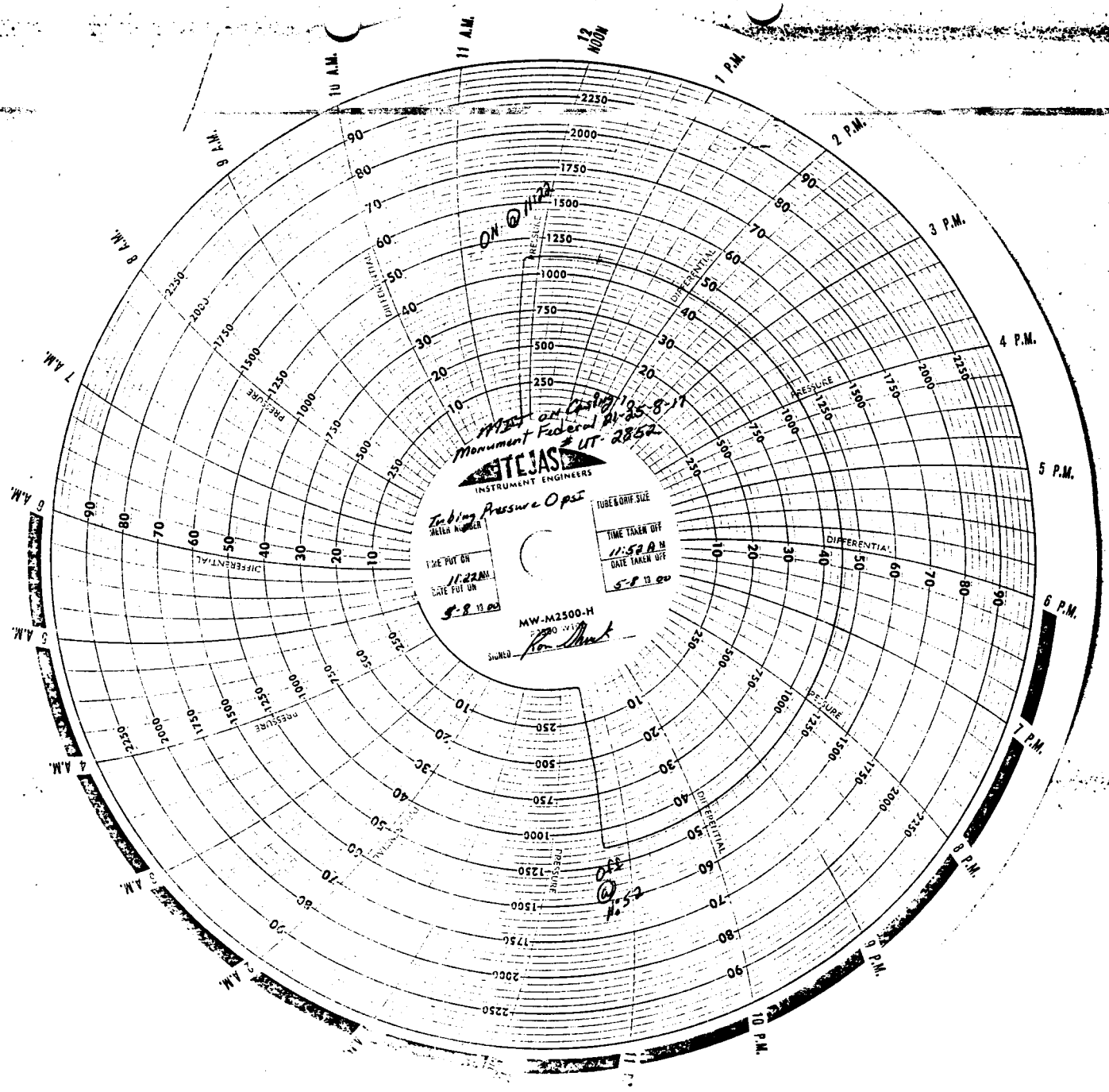
INJECTION DIAGRAM

KB	10.00'
168 jts 2 7/8 J-55 tbg	5213.51'
2 7/8 SN	1.10' @ 5223.51' KB
5 1/2" Arrowset 1-X packer	
W/ W.L. re-entry guide &	pkr elements @ 5227.86' KB
hardened steel slips (7.33')	EOT @ 5231.94' KB

COSTS

Pennant Rig	$2,100
Hot oiler	$600
Supervision	$200
BOP	$100
PKR Redress	$600
DAILY COST:	$3,600
TOTAL WELL COST:	$4,800

Workover Supervisor: Rod Bird



STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: UTU67845
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME: HUMPBACK UNIT
8. WELL NAME and NUMBER: BALCRON MON FED 21-25
9. API NUMBER: 4304732528
10. FIELD AND POOL, OR WILDCAT: Monument Butte

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, c drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER Injection well

2. NAME OF OPERATOR: Inland Production Company

3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 PHONE NUMBER 435.646.3721

4. LOCATION OF WELL:
FOOTAGES AT SURFACE: 0748 FNL 1964 FWL COUNTY: Uintah
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NE/NW, 25, T8S, R17E STATE: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

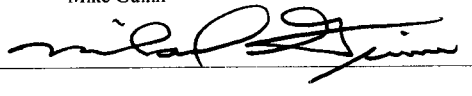
TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARITLY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLAIR
☒ 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
06/25/2004	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☒ OTHER: - Step Rate Test
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

A step rate test was conducted on the subject well on June 21, 2004. The fracture gradient was not reached during the test. Therefore, Inlan is requesting that the MAIP be changed to the highest pressure achieved during the test or 1225 psi.

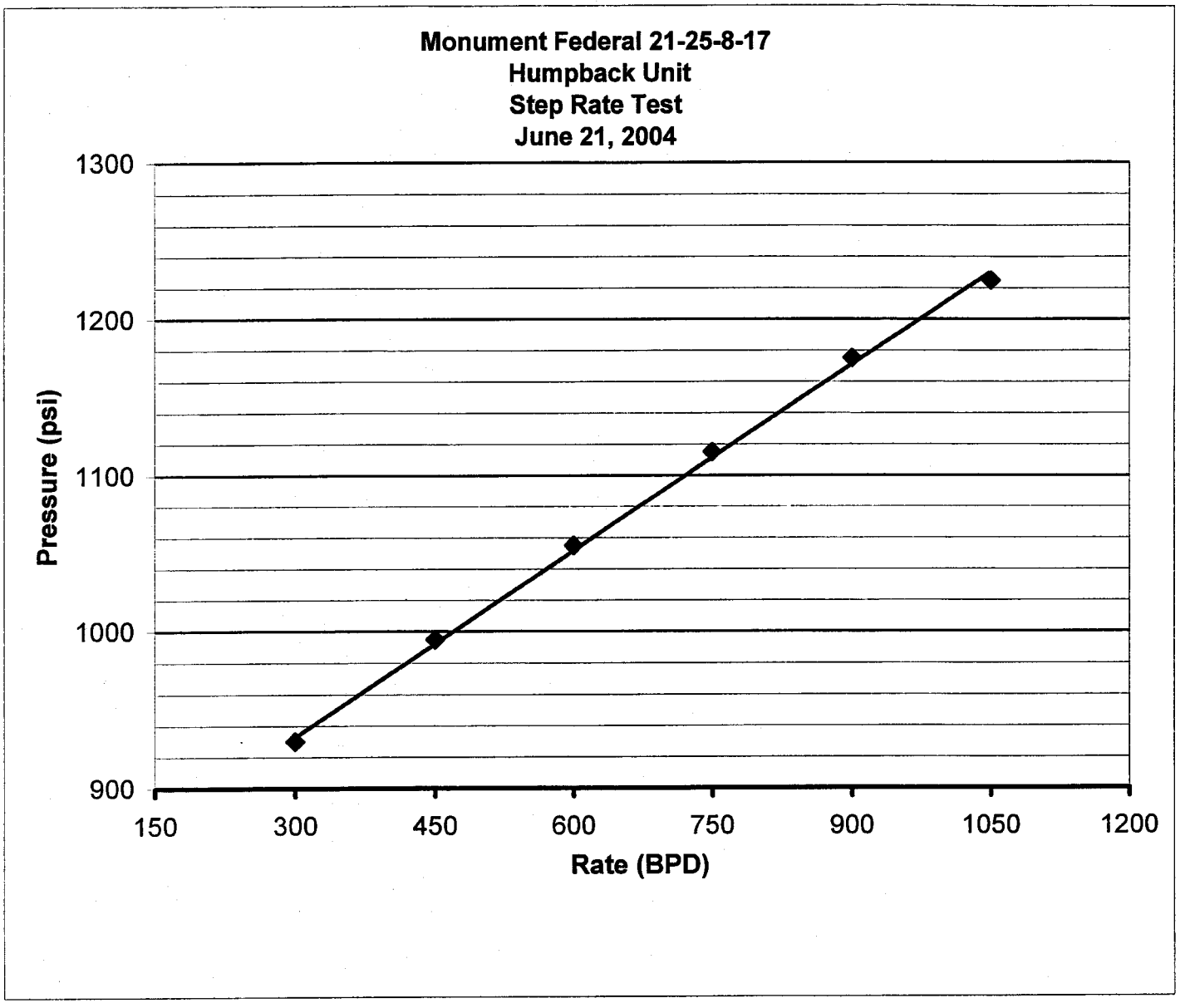
Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

NAME (PLEASE Mike Guinn TITLE Engineer

SIGNATURE  DATE June 25, 2004

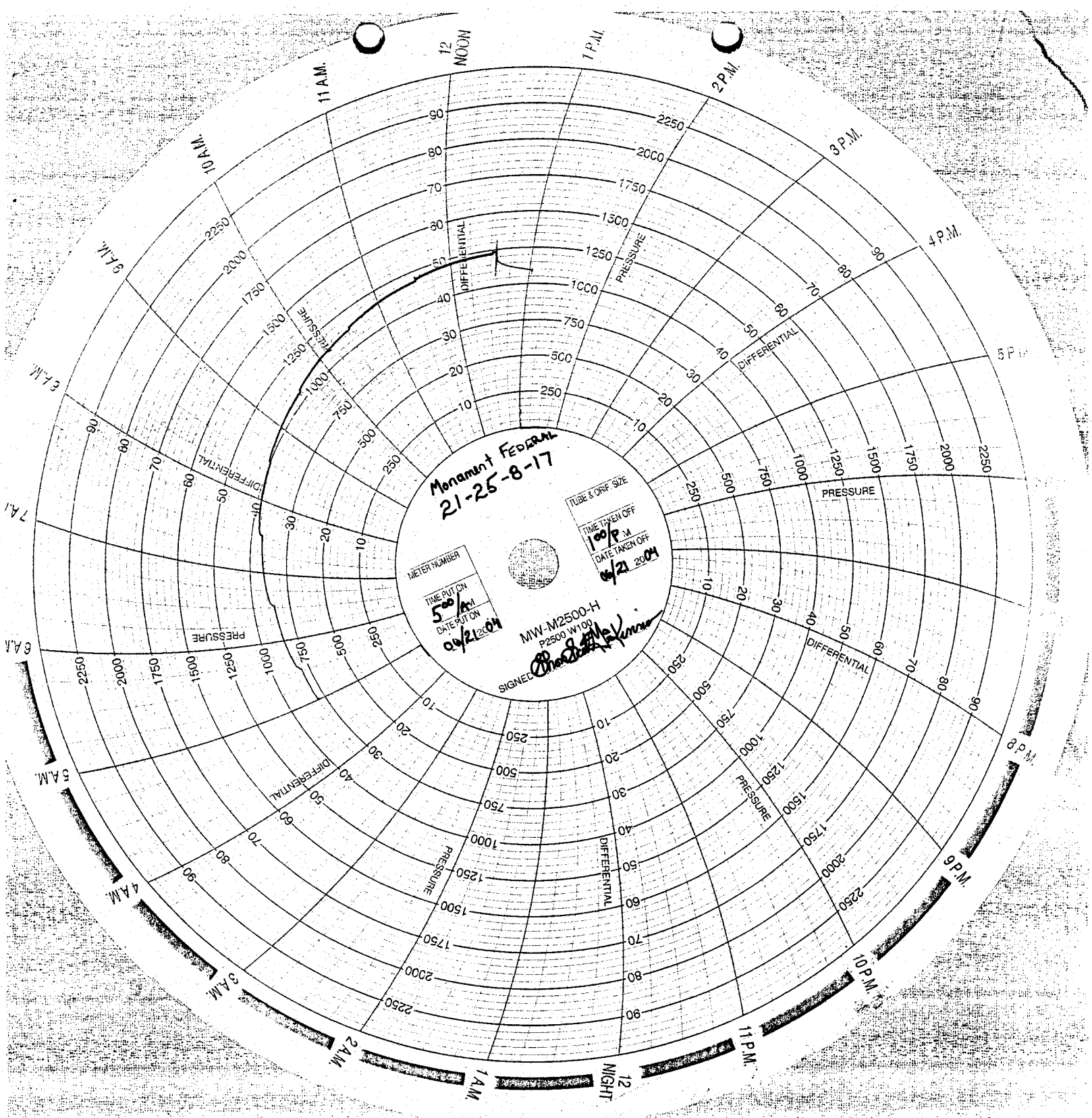
(This space for State use only)

RECEIVED
JUN 29 2004
DIV. OF OIL, GAS & MINING



Start Pressure:	800	psi
Instantaneous Shut In Pressure (ISIP):	1175	psi
Top Perforation:	5308	feet
Fracture pressure (Pfp):	N/A	psi
FG:	N/A	psi/ft

Step	Rate(bpd)	Pressure(psi)
1	150	850
2	300	930
3	450	995
4	600	1055
5	750	1115
6	900	1175
7	1050	1225


Monument Federal
21-25-8-17
TUBE & ORIF SIZE
TIME TAKEN OFF
1:00 PM
DATE TAKEN OFF
04/21/2004
METER NUMBER
TIME PUT ON
5:00 AM
DATE PUT ON
04/21/2004
MW-M2500-H
P2500 W100
SIGNED
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2 P.M.
3 P.M.
4 P.M.
5 P.M.
6 P.M.
7 P.M.
8 P.M.
9 P.M.
10 P.M.
11 P.M.
12 NIGHT
1 A.M.
2 A.M.
3 A.M.
4 A.M.
5 A.M.
6 A.M.
7 A.M.
8 A.M.
9 A.M.
10 A.M.
11 A.M.
DIFFERENTIAL
PRESSURE

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number	API Number
See Attached List	
Location of Well	Field or Unit Name
Footage : County :	See Attached List
QQ, Section, Township, Range: State : UTAH	Lease Designation and Number

EFFECTIVE DATE OF TRANSFER: 9/1/2004

CURRENT OPERATOR

Company: Inland Production Company
Address: 1401 17th Street Suite 1000
city Denver state Co zip 80202
Phone: (303) 893-0102
Comments:

Name: Brian Harris
Signature: Brian Harris
Title: Engineering Tech.
Date: 9/15/2004

NEW OPERATOR

Company: Newfield Production Company
Address: 1401 17th Street Suite 1000
city Denver state Co zip 80202
Phone:
Comments:

Name: Brian Harris
Signature: Brian Harris
Title: Engineering Tech.
Date: 9/15/2004

(This space for State use only)

Transfer approved by: [signature]
Title: Earth Services Manager

Approval Date: 9-20-04

Comments: Note: Indian Country wells will require EPA approval.

(5/2000)

RECEIVED
SEP 20 2004
DIV. OF OIL, GAS & MINING

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:** **HUMPBACK (GREEN RIVER)**

WELL(S)

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
PARIETTE DRAW FED 9-23	23	080S	170E	4304731543	12053	Federal	WI	A
PARIETTE DRAW FED 8-23	23	080S	170E	4304732676	12053	Federal	OW	P
PARIETTE FED 34-24	24	080S	170E	4304732506	12053	Federal	WI	A
PARIETTE FED 13-24	24	080S	170E	4304732546	12053	Federal	OW	P
PARIETTE FED 14-24	24	080S	170E	4304732645	12053	Federal	WI	A
PARIETTE FED 24-24	24	080S	170E	4304732646	12053	Federal	OW	P
PARIETTE FED 23-24	24	080S	170E	4304732710	12053	Federal	WI	A
PARIETTE FED 12-24	24	080S	170E	4304732713	12053	Federal	WI	A
FEDERAL 22-25	25	080S	170E	4304732008	12053	Federal	OW	P
MONUMENT FED 11-25	25	080S	170E	4304732455	12053	Federal	OW	P
MON FED 32-25	25	080S	170E	4304732524	12053	Federal	WI	A
BALCRON MON FED 33-25	25	080S	170E	4304732525	12053	Federal	OW	P
MON FED 12-25	25	080S	170E	4304732526	12053	Federal	WI	A
BALCRON MON FED 21-25	25	080S	170E	4304732528	12053	Federal	WI	A
MONUMENT FED 23-25	25	080S	170E	4304732529	12053	Federal	WI	A
MONUMENT FED 31-25	25	080S	170E	4304732530	12053	Federal	OW	P
BALCRON MON FED 24-25	25	080S	170E	4304732669	12053	Federal	OW	P
BALCRON MON FED 34-25	25	080S	170E	4304732670	12053	Federal	WI	A
HUMPBACK U 1A-26-8-17	26	080S	170E	4304734160	12053	Federal	OW	P
HUMPBACK U 8-26-8-17	26	080S	170E	4304734161	12053	Federal	OW	P

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**

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

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

UTSL-

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UTU-

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63098A
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72086A
72613A
73520X
74477X
75023X
76189X
76331X
76788X
77098X
77107X
77236X
77376X
78560X
79485X
79641X
80207X
81307X

FORM 3160-5
(September 2001)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires January 31,2004

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.

5. Lease Serial No.
UTU67845

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or No.
HUMPBACK UNIT

1. Type of Well
☐ Oil Well ☐ Gas Well ☒ Other Injection well

8. Well Name and No.
BALCRON MON FED 21-25

2. Name of Operator
Newfield Production Company

9. API Well No.
4304732528

3a. Address Route 3 Box 3630
Myton, UT 84052

3b. Phone No. *(include are code)*
435.646.3721

10. Field and Pool, or Exploratory Area
Monument Butte

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
0748 FNL 1964 FWL
NE/NW Section 25 T8S R17E

11. County or Parish, State
Uintah,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 Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other 5 Year MIT
	☐ 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.)

On 4/21/05 Nathan Wiser with the EPA was contacted concerning the 5 year MIT on the above well. Permission was give to that time to perform the test on 04/26/05. On 04/26/05 the csg was pressured up to 1400 psig and charted for 30 minutes with no pressure loss. The well was injecting during the test. The tbg pressure was 1170 psig during the test there were EPA representatives available to witness the test. (Ken Phillips & Margaret Mooney) EPA# UT 20852-04461
API# 43-047-32528

RECEIVED
MAY 06 2005
DIV. OF OIL, GAS & MINING

I hereby certify that the foregoing is true and correct
Name *(Printed/ Typed)* Kathy Chapman
Title Office Manager

Signature Kathy Chapman
Date 05/04/2005

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 reverse)

NEWFIELD

DAILY WORKOVER REPORT

WELL NAME: Monument Federal 21-25-8-17 **Report Date:** 4/28/05 **Day:** 01

Operation: MIT on casing **Rig:** NA

WELL STATUS

Surf Csg: _____ @ _____ **Prod Csg:** _____ @ _____ **WT:** _____ **Csg PBTD:** _____

Tbg: **Size:** _____ **Wt:** _____ **Grd:** _____ **Pkr/EOT @:** _____ **BP/Sand PBTD:** _____

PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots

CHRONOLOGICAL OPERATIONS

Date Work Performed: 26-Apr-05 **SITP:** 0 **SICP:** 1100

On 04/21/05 Nathan Wiser with the EPA was contacted concerning the 5 year MIT on the above listed well (Monument Fed 21-25-8-17). Permission was given at that time to perform the test on 04/26/05. On 04/26/05 the csg was pressured up to 1400 psig and charted for 30 minutes with no pressure loss. The well was injecting during the test. The tbg pressure was 1170 psig during the test. There were EPA representatives available to witness the test. (Ken Phillips & Margaret Mooney)
EPA# UT 20852-04461 API# 43-047-32528

FLUID RECOVERY (BBLS)

Starting fluid load to be recovered: 0 **Starting oil rec to date:** _____

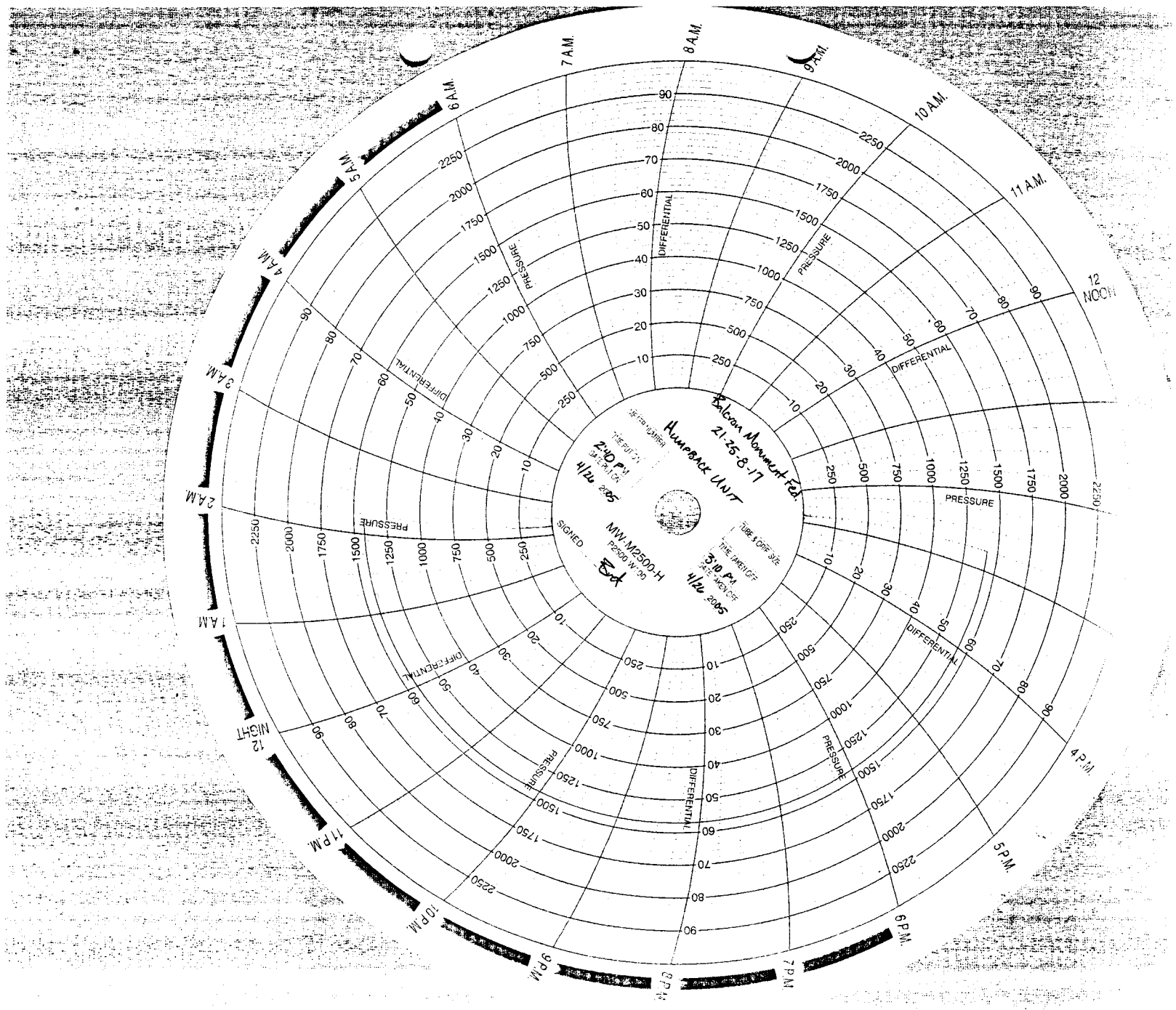
Fluid lost/recovered today: _____ **Oil lost/recovered today:** _____

Ending fluid to be recovered: _____ **Cum oil recovered:** _____

IFL: _____ **FFL:** _____ **FTP:** _____ **Choke:** _____ **Final Fluid Rate:** _____ **Final oil cut:** _____

TUBING DETAIL	ROD DETAIL	COSTS	
		NPC Supervision	$300
		DAILY COST:	$300
		TOTAL WELL COST:	$300

Workover Supervisor: John Hyder


Falcon Monument Fed.
21-25-8-17
Humpback Unit
2:40 PM
4/12 2005
3:10 PM
4/12 2005
MW-M2500-H
SIGNED
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10 A.M.
11 A.M.
PRESSURE
DIFFERENTIAL

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: UTU67845
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME: HUMPBACK UNIT
8. WELL NAME and NUMBER: BALCRON MON FED 21-25
9. API NUMBER: 4304732528
10. FIELD AND POOL, OR WILDCAT: Monument Butte

SUNDRY NOTICES AND REPORTS ON WELLS

o 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 Injection well

2. NAME OF OPERATOR: Newfield Production Company

3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 PHONE NUMBER 435.646.3721

4. LOCATION OF WELL:
FOOTAGES AT SURFACE: 0748 FNL 1964 FWL COUNTY: Uintah
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NE/NW, 25, T8S, R17E 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
04/26/2005	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☒ OTHER: - 5 Year MIT
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

On 4/21/05 Nathan Wiser with the EPA was contacted concerning the 5 year MIT on the above well. Permission was give to that time to perform the test on 04/26/05. On 04/26/05 the csg was pressured up to 1400 psig and charted for 30 minutes with no pressure loss. The well was injecting during the test. The tbg pressure was 1170 psig during the test there were EPA representatives available to witness the test. (Ken Phillips & Margaret Mooney) EPA# UT 20852-04461
API# 43-047-32528

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

RECEIVED
MAY 0 6 2005
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Kathy Chapman TITLE Office Manager

SIGNATURE Kathy Chapman DATE 05/04/2005

(This space for State use only)

Mechanical Integrity Test
Casing or Annulus Pressure Test for Well

U.S. Environmental Protection Agency
Underground Injection Control Program, UIC Implementation Section, 8WM-DW
999 18th Street, Suite 500, Denver, CO 80202-2466
This form was printed on 02/10/2000.

EPA Witness: KEN PHILLIPS / MARGARET MOONEY Date 4/26/05

Test conducted by: BRET HEUBIE

Others present: CHEVRON BATEMAN

NEW FIELD PRODUCTION COMPANY
BALCRON MONUMENT FEDERAL 21-25-8-17
EPA UT 20852-04461

Is this a regularly scheduled test? [✓] Yes [ ] No
Initial test for permit? [ ] Yes [✓] No
Test after well rework? [ ] Yes [✓] No

Well injecting during test? [ ] NO [✓] YES 36 BPD

Initial casing/tubing annulus pressure 1400 psig
Does the annulus pressure build back up? [ ] Yes [✓] No

TUBING PRESSURE			
Initial	1170 psig	psig	psig
End of Test	1170 psig	psig	psig

CASING/TUBING ANNULUS PRESSURE			
Time 2:40	Test #1	Test #2	Test #3
0 min 2:40	1400 psig	psig	psig
5 2:45	1400		
10 2:50	1400		
15 min 2:55	1400		
20 3:00	1400		
25 3:05	1400		
30 min 3:10	1400		
Result (circle)	(Pass) Fail	Pass Fail	Pass Fail

FORM 3160-5
(September 2001)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires January 31,2004

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.

5. Lease Serial No.
USA UTU-67845

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or
HUMPBACK UNIT

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
BALCRON MON FED 21-25

2. Name of Operator
NEWFIELD PRODUCTION COMPANY

9. API Well No.
4304732528

3a. Address Route 3 Box 3630
Myton, UT 84052

3b. Phone *(include are code)*
435.646.3721

10. Field and Pool, or Exploratory Area
MONUMENT BUTTE

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
748 FNL 1964 FWL

NENW Section 25 T8S R17E

11. County or Parish, State
UINTAH, 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 Step Rate Test
	☐ Change Plans	☐ Plug & Abandon	☐ Temporarily Abandon	
	☐ Convert to	☐ 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.)

A step rate test was conducted on the subject well on May 25, 2007. Results from the test indicate that the fracture gradient is .690 psi/ft. Therefore, Newfield is requesting that the maximum allowable injection pressure (MAIP) be changed to 1325 psi.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY

RECEIVED
JUN 28 2007
DIV. OF OIL, GAS & MINING

I hereby certify that the foregoing is true and correct *(Printed/ Typed)*
Chevenne Bateman

Title
Well Analyst Foreman

Signature

Date
06/25/2007

Approved by

Title

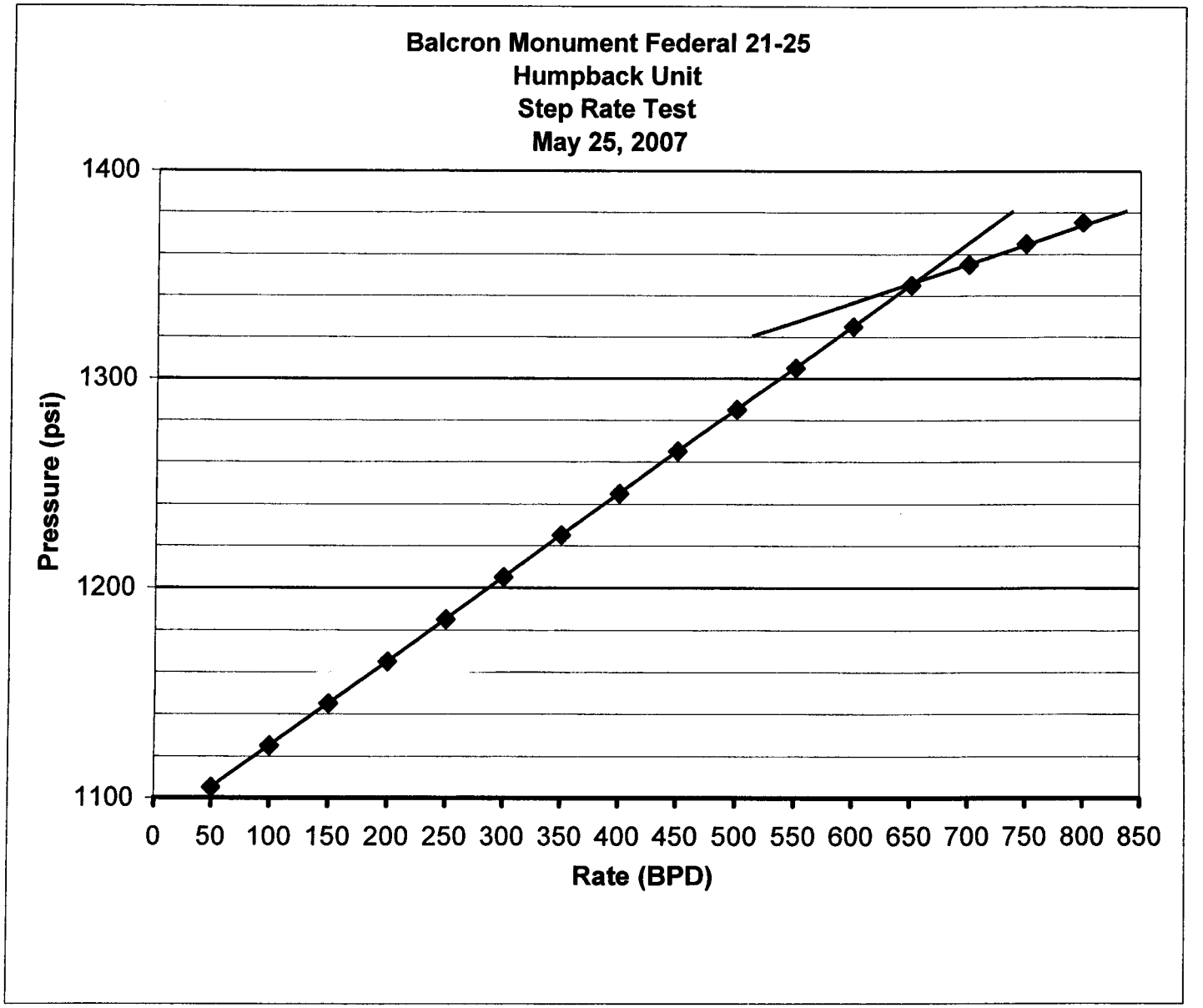
Date

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

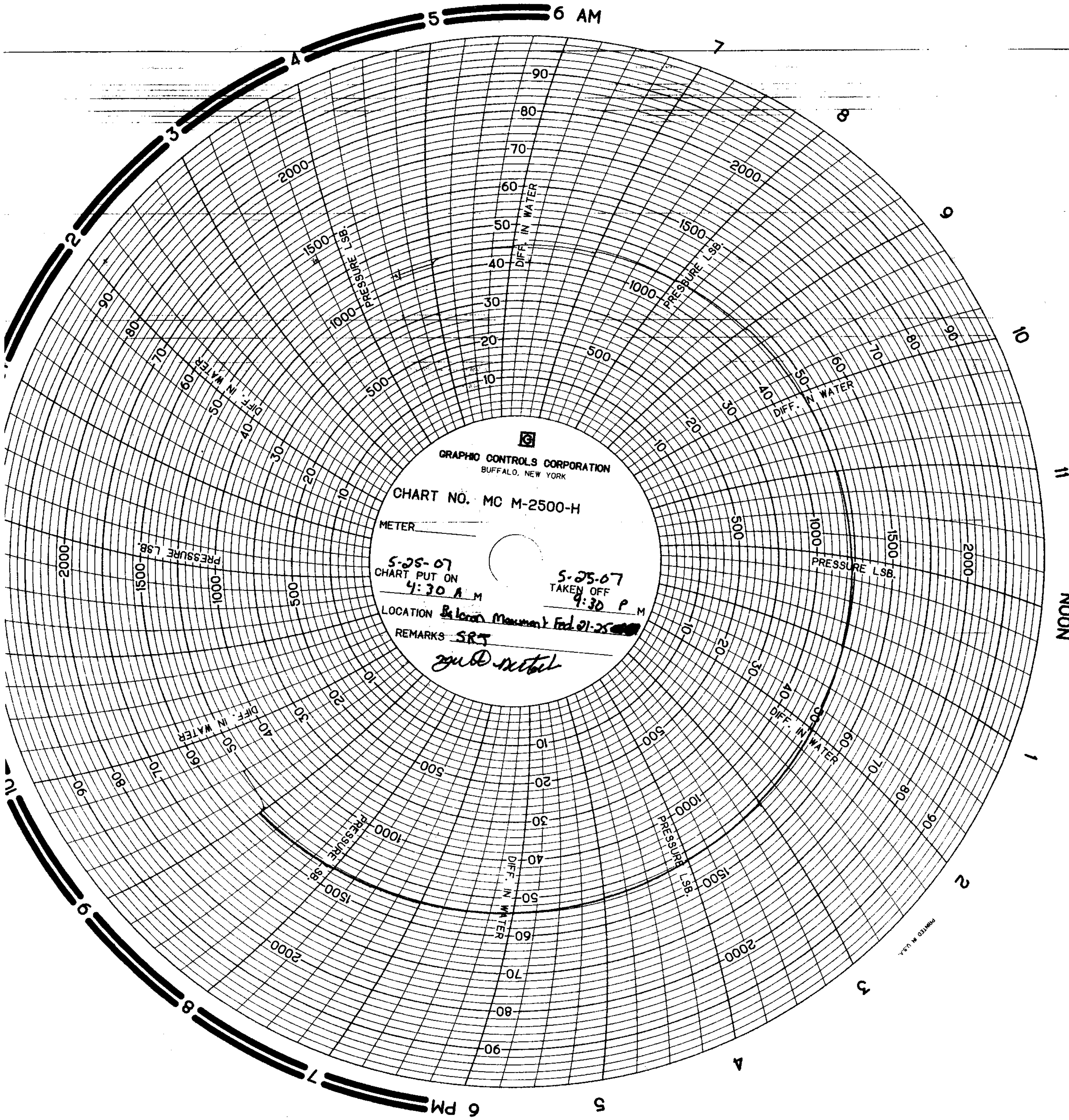
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)



Start Pressure:	1070	psi
Instantaneous Shut In Pressure (ISIP):	1330	psi
Top Perforation:	5308	feet
Fracture pressure (Pfp):	1345	psi
FG:	0.690	psi/ft

Step	Rate(bpd)	Pressure(psi)
1	50	1105
2	100	1125
3	150	1145
4	200	1165
5	250	1185
6	300	1205
7	350	1225
8	400	1245
9	450	1265
10	500	1285
11	550	1305
12	600	1325
13	650	1345
14	700	1355
15	750	1365
16	800	1375


GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
CHART NO. MC M-2500-H
METER
5-25-07
CHART PUT ON
4:30 A M
5-25-07
TAKEN OFF
4:30 P M
LOCATION Balcron Monument Fed 21-25[redacted]
REMARKS SRJ
PRESSURE LSB.
DIFF. IN WATER
6 AM
NOON
6 PM

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: USA UTU-67845

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: GMBU

1. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER

8. WELL NAME and NUMBER: BALCRON MON FED 21-25

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

9. API NUMBER: 4304732528

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: 748 FNL 1964 FWL

COUNTY: UINTAH

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NENW, 25, T8S, R17E

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
04/14/2010	[ ] COMMINGLE PRODUCING FORMATIONS	[ ] RECLAMATION OF WELL SITE	[X] OTHER: - Five Year MIT
	[ ] CONVERT WELL TYPE	[ ] RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

On 04-06-2010 Nathan Wiser with the EPA was contacted concerning the 5 year MIT on the above listed well. Permission was given at that time to perform the test on 04-12-2010. On 04-14-2010 the casing was pressured up to 1020 psig and charted for 30 minutes with no pressure loss. The well was injecting during the test. The tubing pressure was 1270 psig during the test. There was not an EPA representative available to witness the test.

EPA# UT20852-04461 API# 43-047-32528

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

NAME (PLEASE PRINT) Lucy Chavez-Naupoto TITLE Administrative Assistant

SIGNATURE [signature] DATE 04/16/2010

(This space for State use only)

RECEIVED
APR 26 2010
DIV. OF OIL, GAS & MINING

Mechanical Integrity Test
Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: _____ Date: 04 / 14 / 10
Test conducted by: Dale Giles
Others present: _____

Well Name: Monument Fed. 21-25-8-17 Type: ER SWD Status: AC TA UC
Field: _____
Location: _____ Sec: 25 T 8 N (S) R 17 (E) W County: Uintah State: UT
Operator: Newfield Production Co.
Last MIT: / / Maximum Allowable Pressure: 1325 PSIG

Is this a regularly scheduled test? [X] Yes [ ] No
Initial test for permit? [ ] Yes [X] No
Test after well rework? [ ] Yes [X] No
Well injecting during test? [X] Yes [ ] No If Yes, rate: 416 bpd

Pre-test casing/tubing annulus pressure: 0 psig

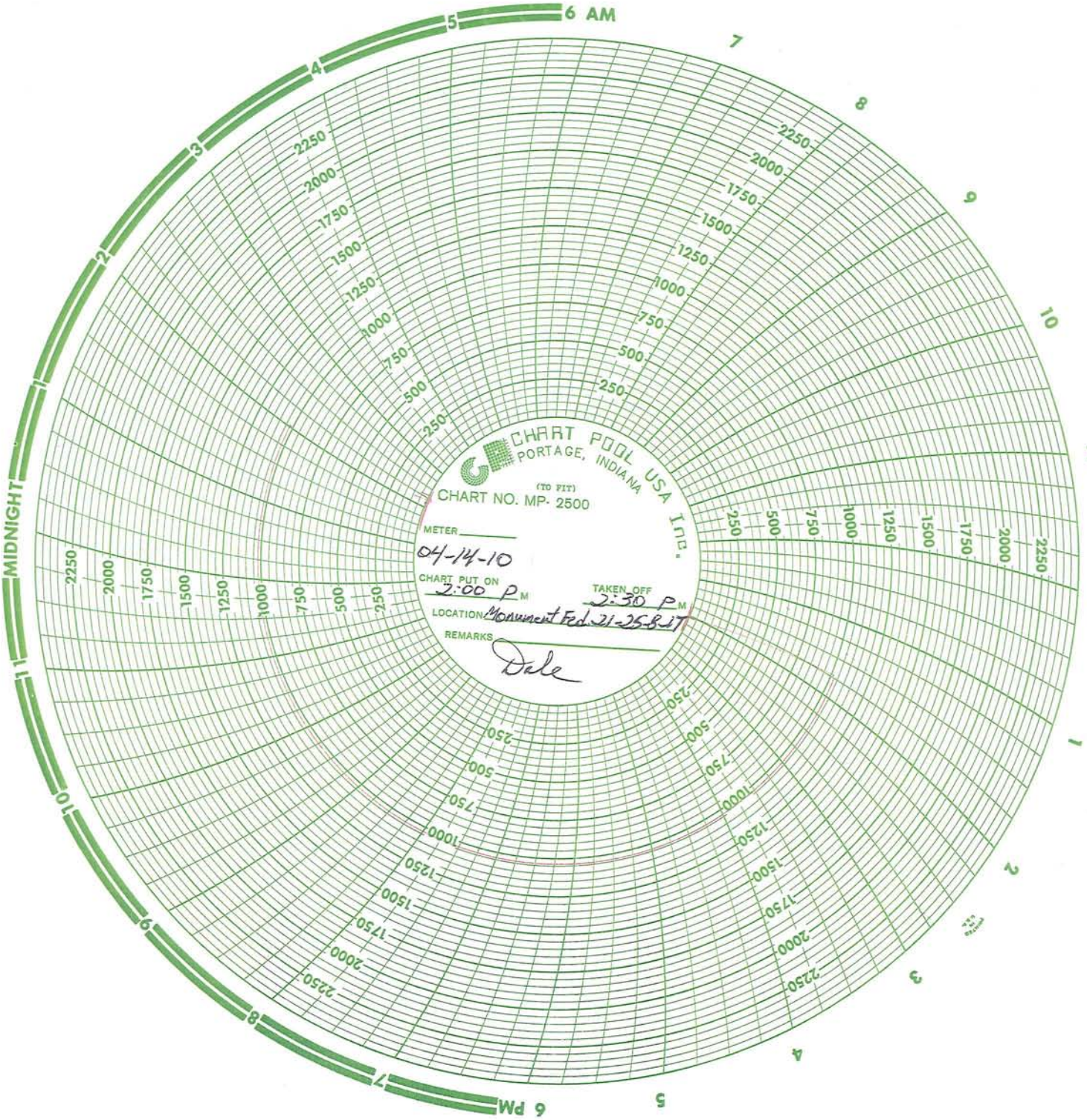
MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING	*PRESSURE*		
Initial Pressure	1270 psig	psig	psig
End of test pressure	1270 psig	psig	psig
CASING / TUBING	*ANNULUS*	*PRESSURE*	
0 minutes	1020 psig	psig	psig
5 minutes	1020 psig	psig	psig
10 minutes	1020 psig	psig	psig
15 minutes	1020 psig	psig	psig
20 minutes	1020 psig	psig	psig
25 minutes	1020 psig	psig	psig
30 minutes	1020 psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
RESULT	[X] Pass [ ] Fail	[ ] Pass [ ] Fail	[ ] Pass [ ] Fail

Does the annulus pressure build back up after the test ? [ ] Yes [X] No

MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness:


6 AM
NOON
6 PM
MIDNIGHT
CHART POOL USA Inc.
PORTAGE, INDIANA
(TO FIT)
CHART NO. MP- 2500
METER
04-14-10
CHART PUT ON 2:00 PM
TAKEN OFF 2:30 PM
LOCATION Monument Fed 21-25-8 JT
REMARKS
Dale

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
UTU-67845

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:
BALCRON MON FED 21-25

2. NAME OF OPERATOR:
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:
43047325280000

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:
0748 FNL 1964 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NENW Section: 25 Township: 08.0S Range: 17.0E Meridian: S

COUNTY:
UINTAH

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: 3/16/2015	☐ 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: 5 YR MIT

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

5 YR MIT performed on the above listed well. On 03/16/2015 the casing was pressured up to 1083 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 1356 psig during the test. There was not an EPA representative available to witness the test. EPA #UT22197-04461

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
March 24, 2015

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Lucy Chavez-Naupoto	435 646-4874	Water Services Technician
SIGNATURE		**DATE**
N/A		3/17/2015

Mechanical Integrity Test
Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: ______________________ Date: 3 / 16 / 15
Test conducted by: Dale Giles
Others present: ______________________

-04461

Well Name: Mon. Fed. 21-25-8-17 Type: ER SWD Status: AC TA UC
Field: Monument Butte
Location: NE/NW Sec: 25 T 8 N/(S) R 17 (E)/W County: Uintah State: Ut.
Operator: Newfield production Co.
Last MIT: ___ / ___ / ___ Maximum Allowable Pressure: 1484 PSIG

Is this a regularly scheduled test? [X] Yes [ ] No
Initial test for permit? [ ] Yes [X] No
Test after well rework? [ ] Yes [X] No
Well injecting during test? [X] Yes [ ] No If Yes, rate: 97 bpd

Pre-test casing/tubing annulus pressure: 0 psig

MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING	***PRESSURE***		
Initial Pressure	1356 psig	psig	psig
End of test pressure	1356 psig	psig	psig
CASING / TUBING	***ANNULUS***	***PRESSURE***	
0 minutes	1083 psig	psig	psig
5 minutes	1083 psig	psig	psig
10 minutes	1083 psig	psig	psig
15 minutes	1083 psig	psig	psig
20 minutes	1083 psig	psig	psig
25 minutes	1083 psig	psig	psig
30 minutes	1083 psig	psig	psig
____ minutes	psig	psig	psig
____ minutes	psig	psig	psig
RESULT	[X] Pass [ ] Fail	[ ] Pass [ ] Fail	[ ] Pass [ ] Fail

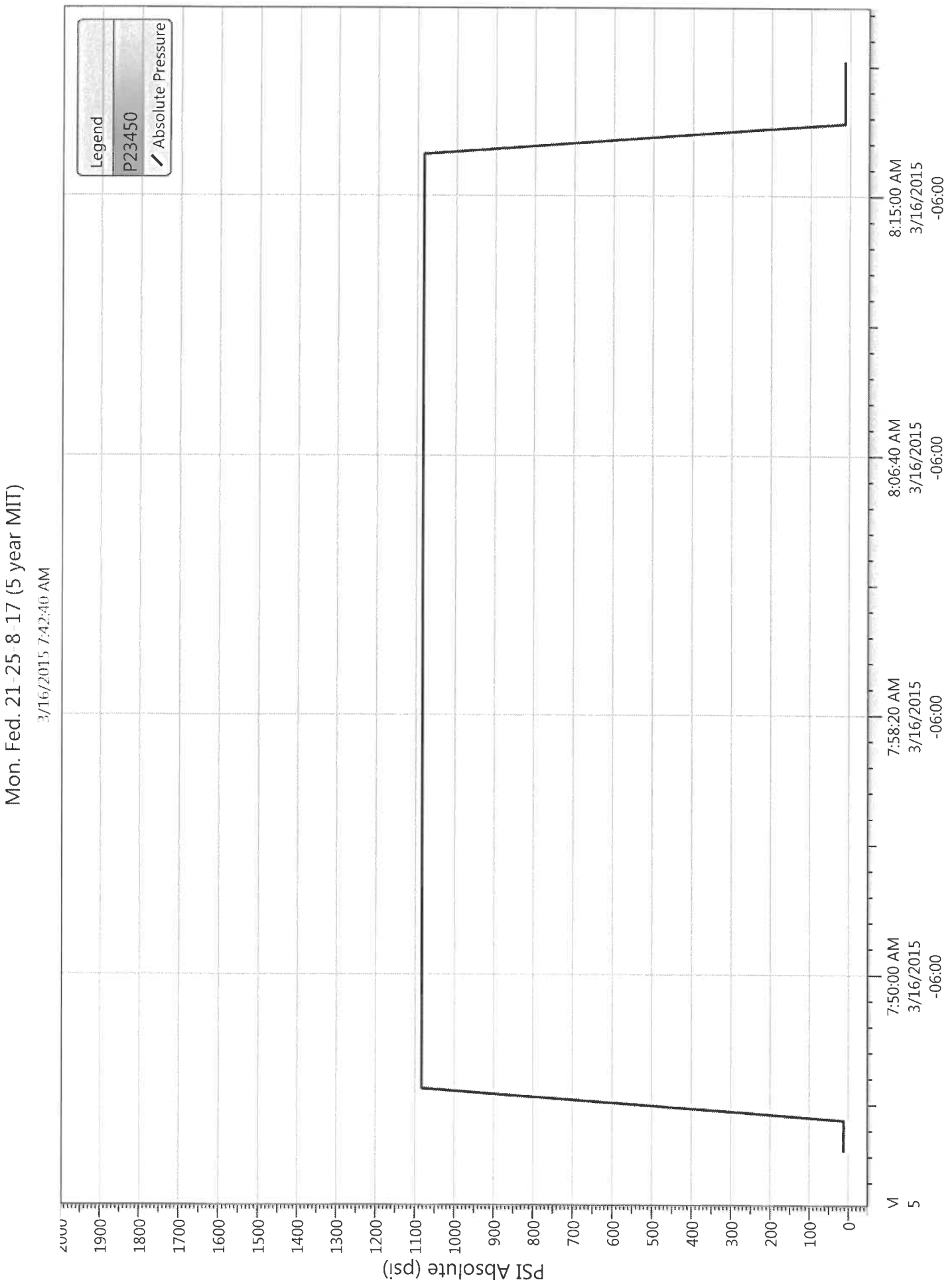
Does the annulus pressure build back up after the test ? [ ] Yes [X] No

MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

____

Signature of Witness: ______________________


Mon. Fed. 21-25-8 17 (5 year MIT)
3/16/2015 7:42:40 AM
Legend
P23450
Absolute Pressure
PSI Absolute (psi)
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
7:50:00 AM
3/16/2015
-06:00
7:58:20 AM
3/16/2015
-06:00
8:06:40 AM
3/16/2015
-06:00
8:15:00 AM
3/16/2015
-06:00

Balcron Monument Federal 21-25-8-17

Elev GR - 5060' GL
Elev.KB - 5070' KB (10' KB)

Injection Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 9 jts (389.55 ft)
DEPTH LANDED: 399.55' KB
HOLE SIZE: 12-1/4"
CEMENT DATA: 230 sxs class "G" w/ 2% CCL + 1/4 #/sk CelloSeal

PRODUCTION CASING

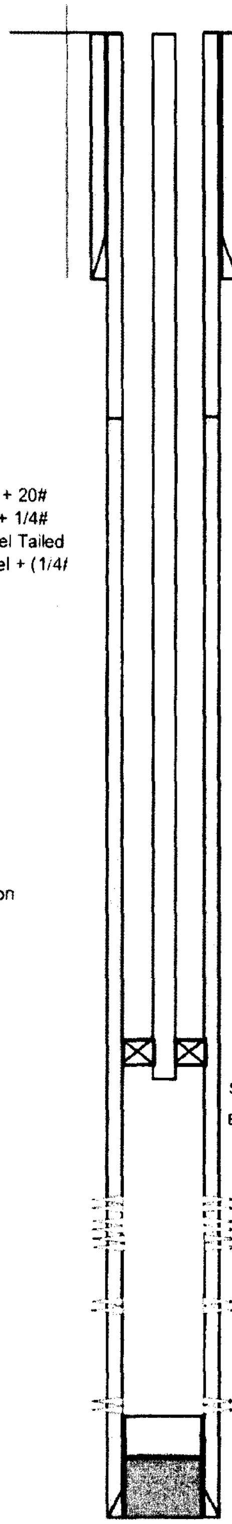
CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 149 jts (6281.32 ft)
DEPTH LANDED: 6290' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 194 sxs super "G" w/ (47# "G" + 20# Poz A + 17# CSE + 2# HiSeal + 1/4# CelloSeal)/sk + 3% salt +2% gel Tailed w/ 535 sxs 50/50 POZ + 2% gel + (1/4# CelloSeal + 2# HiSeal2)/sk

CEMENT TOP AT: 1874' KB per CBL

CEMENT TOP AT: 1874' KB per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 168 Joints (5213.51') KB
Packer: Arrowset 1-X set 15,000# tension
NO. OF JOINTS: 168 Joints
SEATING NIPPLE: 5223.51' KB
ELEMENTS: 5227.86' KB
EOT: 5222' KB



ACID JOB /BREAKDOWN

11/10/94	5998' - 6002'	Western : 672 gal 15% HCl acid w/ 32 ball sealers. No ball off. Flush w/ 1470 gal 2% KCl wtr. ATP-2400 psi, Max-2600 psi, ATR-2 bpm, Flush-4 bpm ISIP-1200 psi
11/14/94	5308' - 5337'	Western : 1554 gal 3% KCl wtr w/ 75 ball sealers. Flush w/ 1344 gal 3% KCl wtr ATP-2500 psi, Max-4000 psi, ATR-4.2 bpm, Flush-6.1 bpm. ISIP-400 psi.

FRAC JOB

11/11/94	5998' - 6002'	Western : 2016 gal 2% KCl wtr pad followed by 4704 2% KCl gel w/ 17,020# 20/40 + 10,360# 16/30 sand. Flush w/ 5964 gal 2% KCl wtr. ATP-3000 psi, Max-3100 psi, ATR-30 bpm, Max-31.1 bpm ISIP-1950 psi, 5 min-1670 psi, 10 min-1510 psi, 15 min-1410 psi, 30 min - 1200 psi
11/17/94	5308' - 5337'	Western : 7098 gal 2% KCl pad followed by 26,712 gal 2% KCl gel w/ 80,580# 20/40 + 67,420# 16/30 sand. Flush w/ 5292 gal 2% KCl water. ATP-1600 psi, Max-1870 psi, ATR-30 bpm, Flush-32 bpm ISIP-1380 psi, 5 min-1110 psi 10 min-1040 psi, 15 min-990 psi, 30 min-900 psi

6 10 09	Zone Stimulation Updated tubing details
1-14-10	5 YR MIT

PERFORATION RECORD

11/14/94	5308' - 5323'	2 SPF	15 ft	30 holes	R-5
11/14/94	5328' - 5334'	2 SPF	6 ft	12 holes	R-5
11/14/94	5337'	2 SPF	1 ft	2 holes	R-5
11/9/94	5998' - 6002'	4 SPF	4 ft	16 holes	B-1D

PROPOSED PERFORATIONS :

6154' - 6176'	4 SPF	22 ft	88 holes	B-3C

NEWFIELD

BALCRON MONUMENT FEDERAL #21-
NE NW Section 25, T8S, R17E
747.6' FNL, 1963.6' FWL
Lease #U-67845
API # 43-047-32528
Uintah county, Utah

LW 03 30 12