



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

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DIVISION OF
OIL, GAS & MINING

August 30, 1993

-- VIA FEDERAL EXPRESS --

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

Gentlemen:

Enclosed are Applications for Permit to Drill the wells on the enclosed list. We plan to drill these four wells before the end of 1993. If you foresee any problem with that plan, I would appreciate it if you would give me a call.

Both archeology and paleontology reports on the wellsites and access road locations have been ordered and will be sent to you as soon as they are completed.

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

Sincerely,

Bobbie Schuman

Bobbie Schuman
Coordinator of Operations,
Environmental and Regulatory Affairs

/rs

Enclosures

cc: Utah Division of Oil, Gas and Mining



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**DIVISION OF
OIL, GAS & MINING**

August 30, 1993

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

Gentlemen:

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

Sincerely,

Bobbie Schuman

Bobbie Schuman
Coordinator of Operations,
Environmental and Regulatory Affairs

/rs

Attachment

Balcron Monument Federal #41-14J
NE NE Section 14, T9S, R16E
Duchesne County, Utah
363.3' FNL, 600' FEL
FLS #U-096550

Balcron Monument Federal #12-12J
SW NW Section 12, T9S, R16E
Duchesne County, Utah
1980' FNL, 660' FWL
FLS #U-096550

Balcron Monument Federal #14-12J
SW SW Section 12, T9S, R16E
Duchesne County, Utah
660' FSL, 660' FWL
FLS #U-035521-A

Balcron Monument Federal #24-12J
SE SW Section 12, T9S, R16E
Duchesne County, Utah
539' FSL, 1777' FWL
FLS #U-035521-A

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STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

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APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK			5. Lease Designation and Serial No. Federal #U-035521-A	
1a. Type of Work DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			6. If Indian, Allottee or Tribe Name n/a	
b. Type of Well Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone <input type="checkbox"/>			7. Unit Agreement Name Jonah Unit	
2. Name of Operator Equitable Resources Energy Company, Balcron Oil Division			8. Farm or Lease Name Balcron Monument Federal	
3. Address of Operator P.O. Box 21017; Billings, MT 59104			9. Well No. #24-12J	
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface SE SW Section 12, T9S, R16E 539' FSL, 1777' FWL At proposed prod. zone			10. Field and Pool, or Wildcat Monument Butte/Green River	
14. Distance in miles and direction from nearest town or post office* Approximately 13 miles SW of Myton, Utah			11. 00, Sec., T., R., N., or Blk. and Survey or Area Sec. 12, T9S, R16E	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. line, if any)			12. County or Parrish Duchesne	
16. No. of acres in lease			13. State UTAH	
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. 5,700'	
19. Proposed depth			20. Rotary or cable tools Rotary	
21. Elevations (Show whether DF, RT, GR, etc.) 4,495.5' GL			22. Approx. date work will start* Upon APD approval	
23. PROPOSED CASING AND CEMENTING PROGRAM				
Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
See attached				

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

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DIVISION OF
OIL, GAS & MINING

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

24. I hereby certify that this report is true and complete to the best of my knowledge.
Signed: Bobbie Schuman Title: Coordinator of Environmental and Regulatory Affairs Date: August 30, 1993
(This space for Federal or State office use)

APD NO. 43-013-31409 Approval Date APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS AND MINING
Approved by: _____ Title: _____
Conditions of approval, if any:

DATE: 9/7/93
BY: JAD [Signature]

*See Instructions On Reverse Side

SPACING 649-2-3

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

5. LEASE DESIGNATION AND SERIAL NO.

U-035521-A

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

7. UNIT AGREEMENT NAME
Jonah Unit

8. FARM OR LEASE NAME

Balcron Monument Federal

9. WELL NO.

#24-12J

10. FIELD AND POOL, OR WILDCAT

Monument Butte/Grn. River

11. SEC., T., R., M., OR BLE.
AND SURVEY OR AREA

Sec. 12, T9S, R16E

12. COUNTY OR PARISH 13. STATE
Duchesne UTAH

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL

DEEPEN

PLUG BACK

b. TYPE OF WELL

OIL WELL

GAS WELL

OTHER

SINGLE ZONE

MULTIPLE ZONE

2. NAME OF OPERATOR

EQUITABLE RESOURCES ENERGY COMPANY, Balcron Oil

CONFIDENTIAL

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

SE SW Section 12, T9S, R16E 539' FSL, 1777' FWL
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

Approximately 13 miles SW of Myton, Utah

10. 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

13. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

20. ROTARY OR CABLE TOOLS

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

5,495.5' GL

22. APPROX. DATE WORK WILL START*

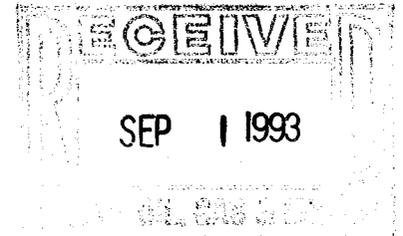
Upon APD Approval

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
See drilling	program/casing	design		

EXHIBITS ATTACHED

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



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

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

24. SIGNED Bobbie Schuman TITLE Coordinator of Environmental and Regulatory Affairs

DATE August 30, 1993

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

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

*See Instructions On Reverse Side

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

EQUITABLE RESOURCES ENERGY COMPANY
Balcron Oil Division
Balcron Monument Federal #24-12J
SE SW Section 12-T9S-R16E
Duchesne County, Utah

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

1. ESTIMATED IMPORTANT GEOLOGICAL MARKERS:

See Geologic Prognosis (EXHIBIT "C")

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

See Geologic Prognosis (EXHIBIT "C")

3. OPERATOR'S MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

- a. EXHIBIT "H" is a schematic of the BOP equipment and choke manifold. A 2M system will be used. The BOPE will be installed after setting 8-5/8" casing at 260'. The blind rams and pipe rams will be tested to 1500 psi. Pipe rams will be operationally checked each 24-hour period and blind rams each time pipe is pulled out of the hole.
- b. The BOPE will be tested to 1500 psi when initially installed, whenever any seal subject to test pressure is broken, and following related repairs. The pipe and blind rams will be activated at least weekly and on every trip the pipe and blind rams will be activated.
- c. An accumulator of sufficient capacity to open the hydraulically-controlled choke valve lines (if so equipped), close all rams, and retain a minimum of 200 psi above precharge on the closing manifold without the use of the closing unit pumps will be installed during the drilling of this well.
- d. An upper kelly cock will be used during the drilling of this well.
- e. Visual mud monitoring equipment will be used to detect volume changes indicating loss or gain in circulating fluid volume.
- f. Sufficient quantities of mud materials will be maintained or readily accessible for the purpose of assuring well control.

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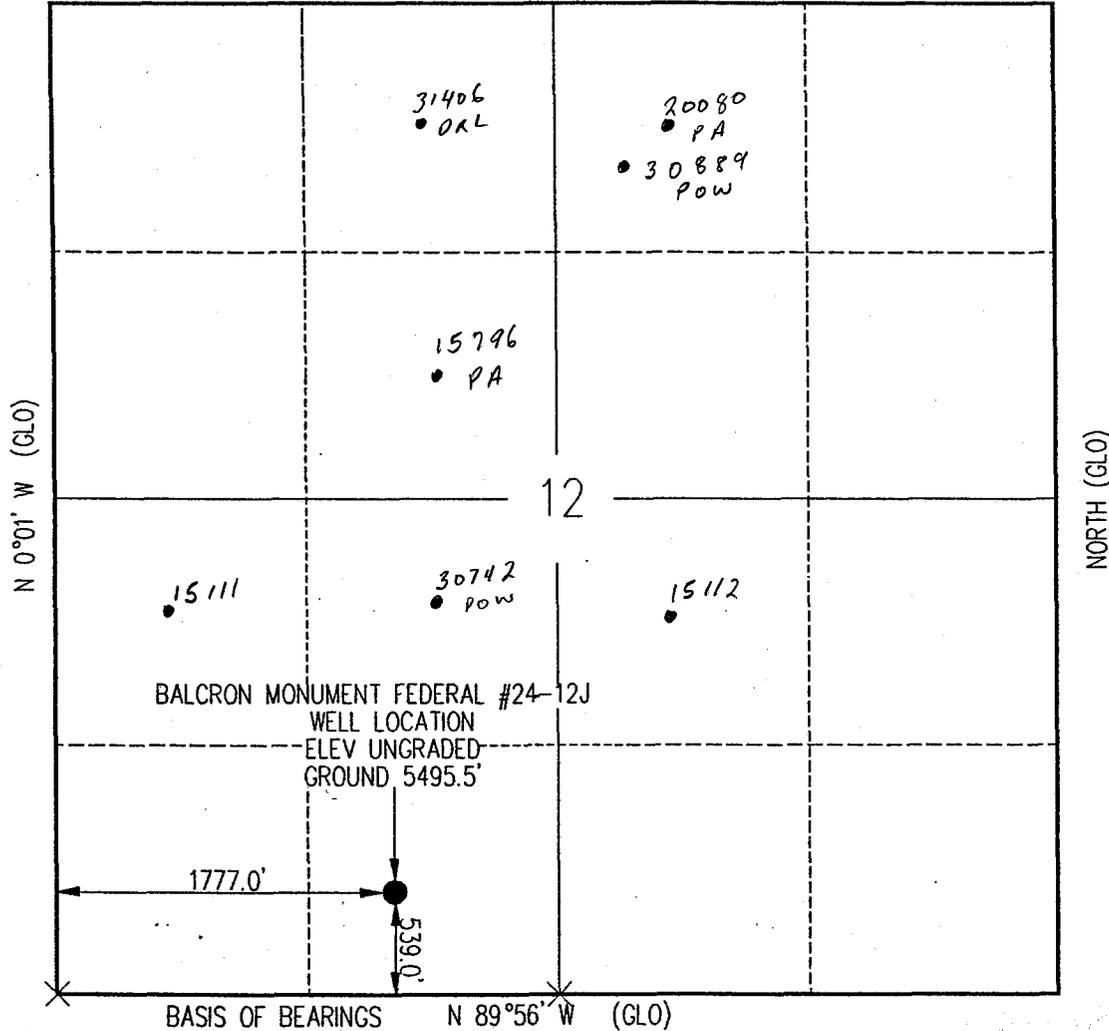
EXHIBIT "F"

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

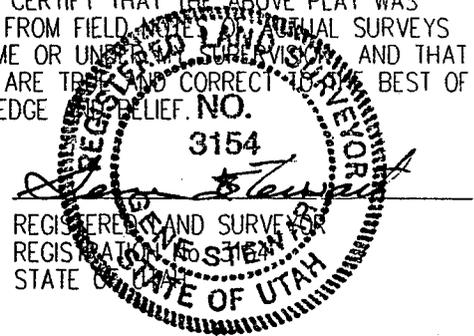
N 89°59' W (GLO)

EQUITABLE RESOURCES ENERGY CO.

WELL LOCATION, BALCRON MONUMENT FEDERAL #24-12J, LOCATED AS SHOWN IN THE SE 1/4 SW 1/4 OF SECTION 12, T9S, R16E, S.L.B. & M, DUCHESNE COUNTY UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD AND/OR AERIAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. NO.



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

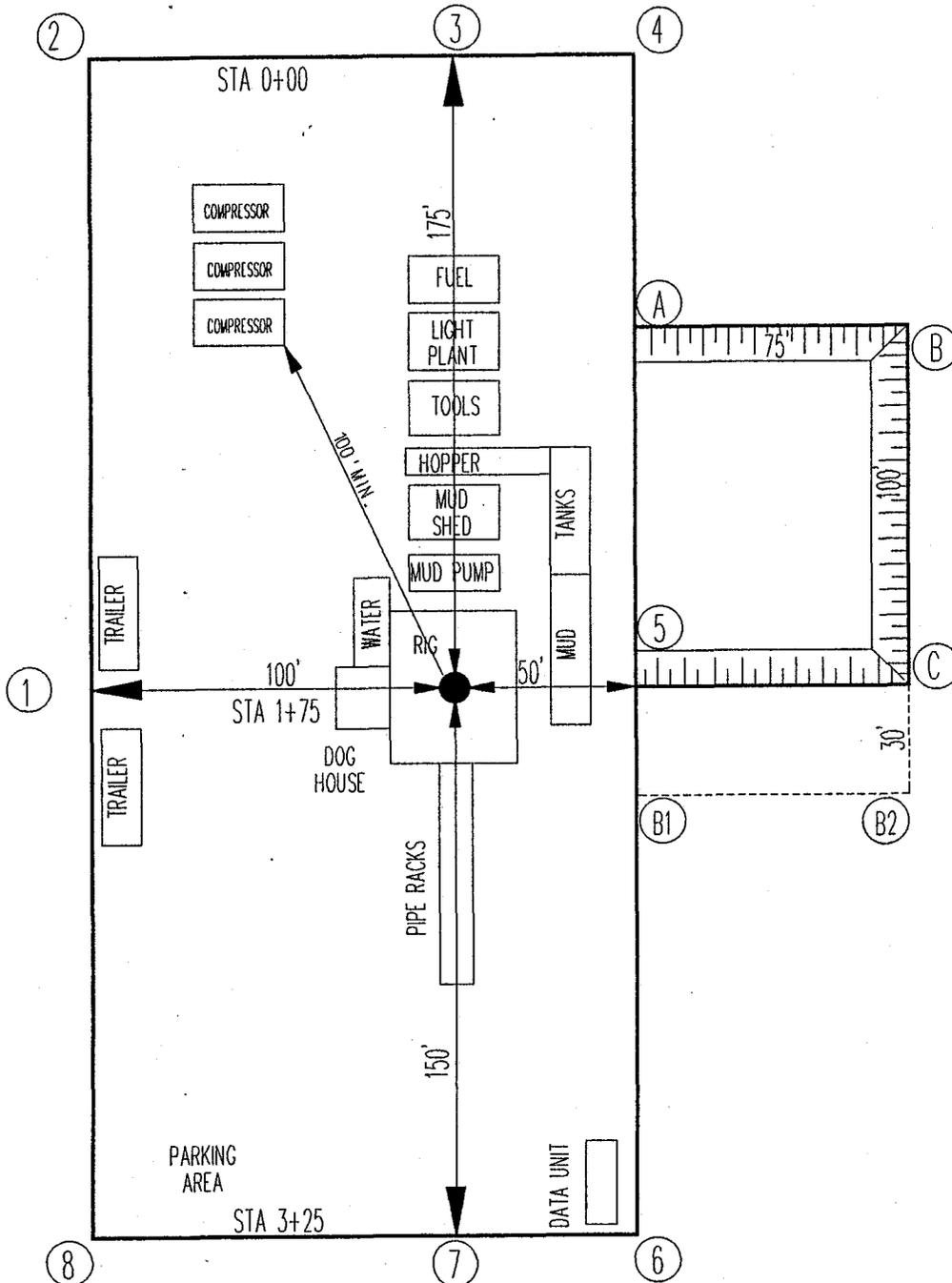
SEP 1 1993

WEATHER: CLEAR & HOT
DATE: 8/4/93
SCALE: 1" = 1000'
SURVEYED BY: GS ZD
FILE: MF 24-12



EQUITABLE RESOURCES ENERGY CO.

BALCRON MONUMENT FEDERAL #24-12J WELLSITE LAYOUT

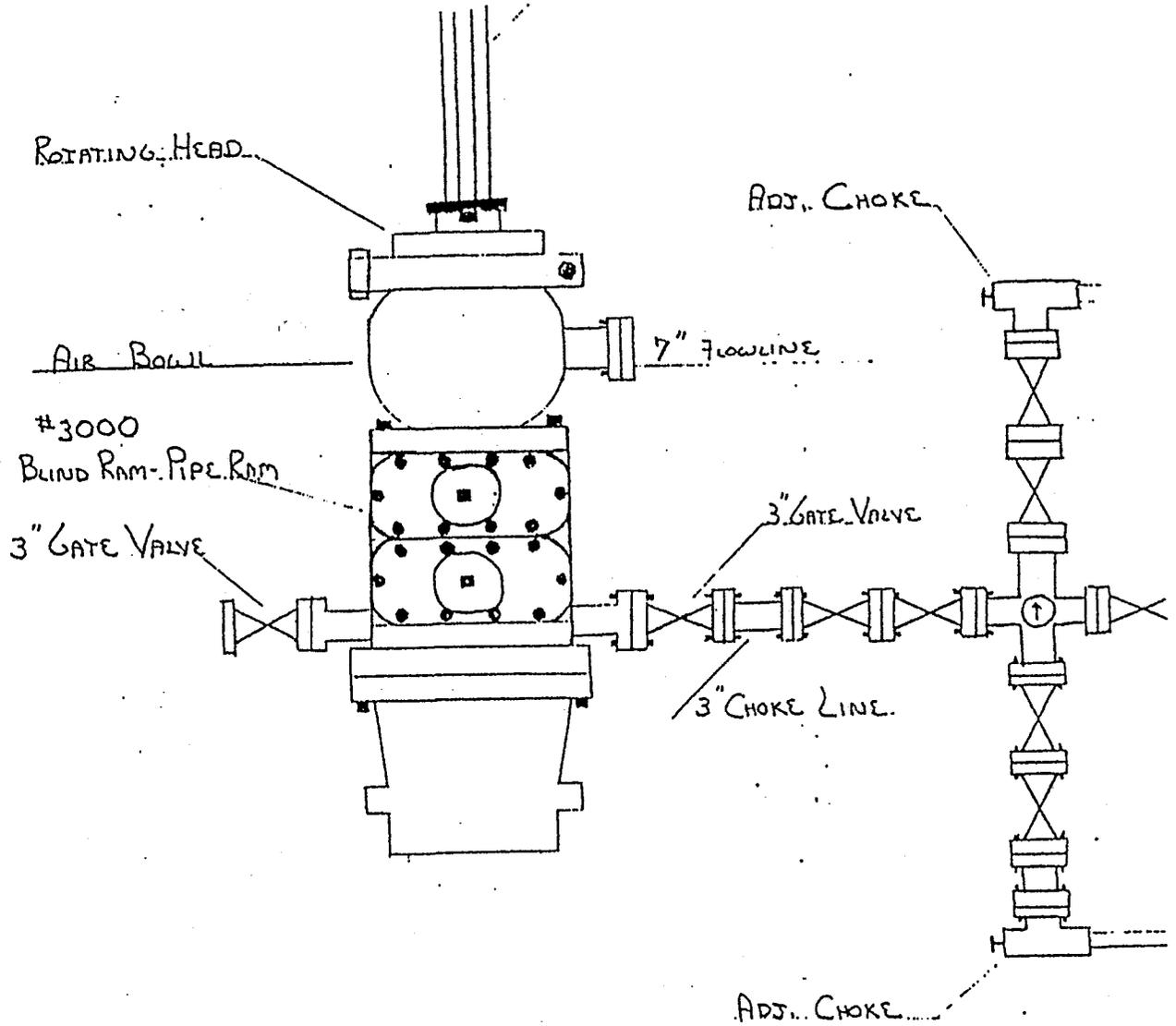


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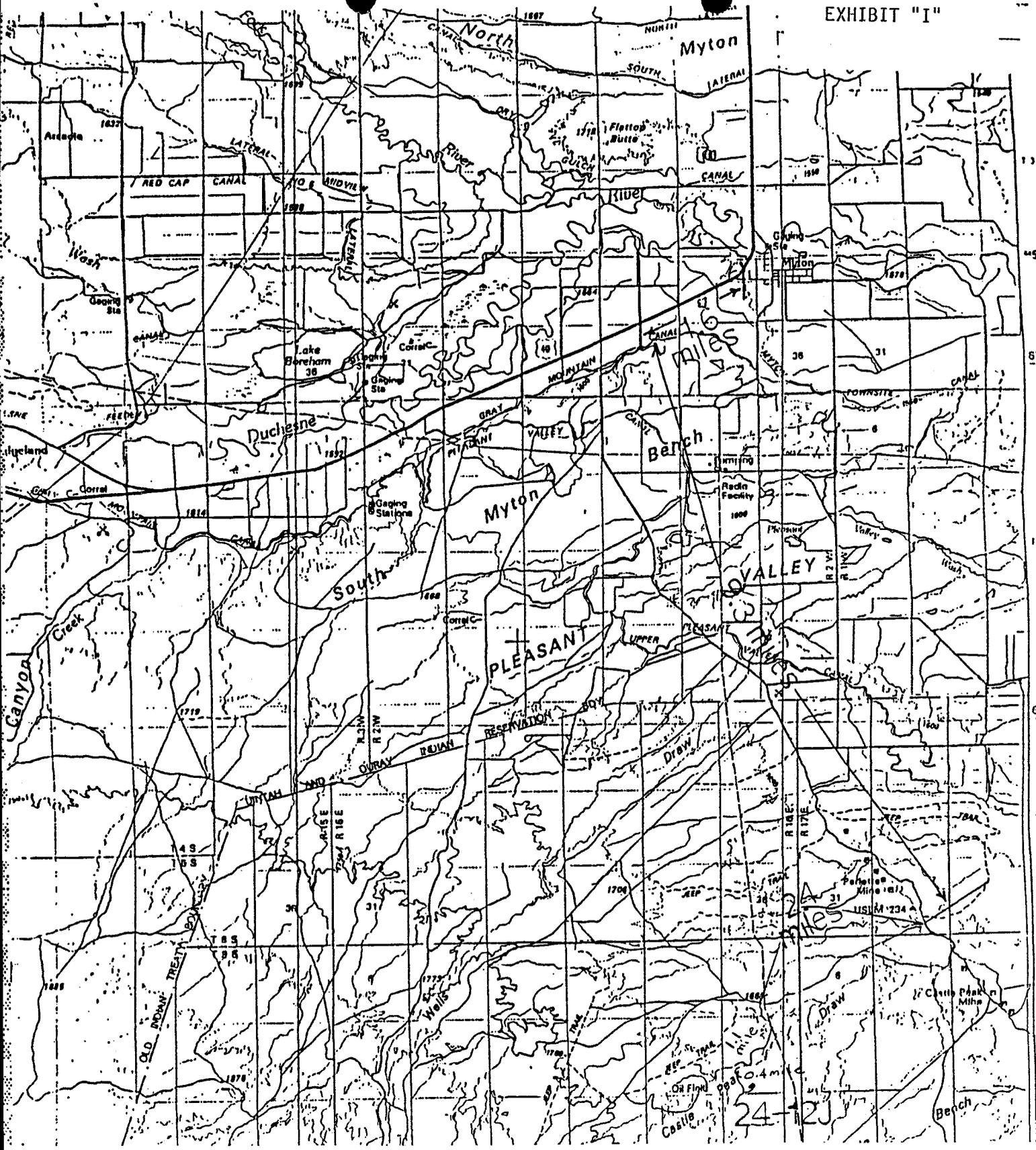
TRI-STATE
LAND SURVEYING, INC.
38 WEST 100 NORTH, VERNAL, UTAH 84078
801-781-2501

UNION DRILLING RIG #17

Hex Kelly

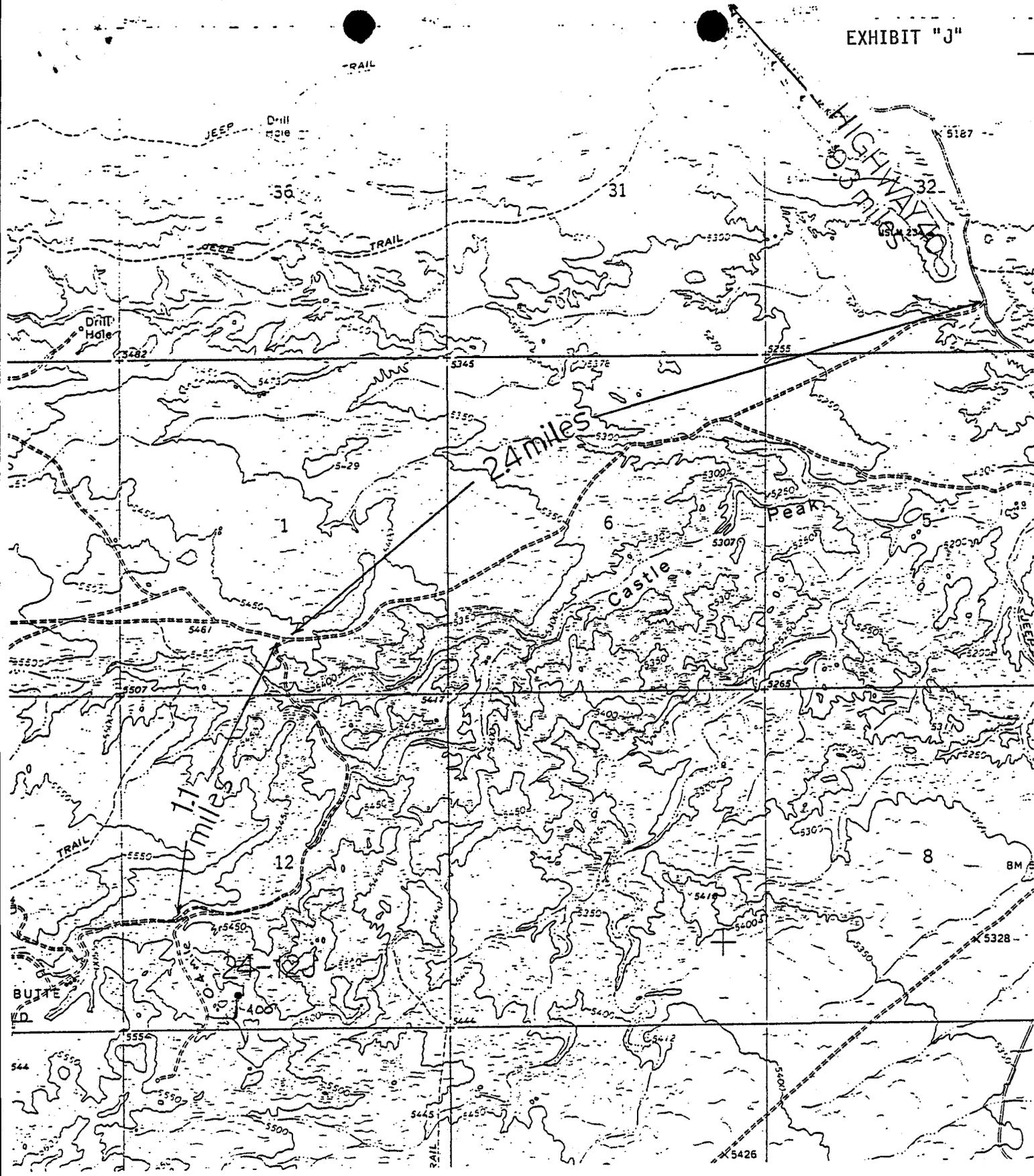


#3000 Stack



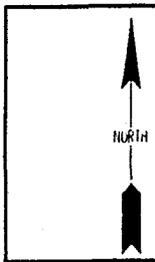
EQUITABLE RESOURCES ENERGY CO.
 MONUMENT FEDERAL #24-12J
 MAP "A"





EQUITABLE RESOURCES ENERGY CO.
 MONUMENT FEDERAL #24-12J
 MAP "B"





EQUITABLE RESOURCES ENERGY CO.
 MONUMENT FEDERAL #24-12J
 MAP "C"



4. PROPOSED CASING AND CEMENTING PROGRAM:

- a. Surface casing will be set in the Uinta formation to approximately 260' and cemented to surface.
- b. All potentially productive hydrocarbon zones will be isolated.
- c. Casing designs are based on factors of burst: 1.25, collapse: 1.125, and joint strength: 1.8.
- d. All casing strings will be pressure tested to 0.22 psi/ft. of casing string length or 1500 psi whichever is greater (not to exceed 70% of yield).
- E. For details of casing, cement program, drilling fluid program, and proposed mud program, see the following two attachments:

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

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

- a. Expected bottom hole temperature is 125 degrees F. Expected bottom hole pressure is 1500 psi.
- b. No abnormal pressures or temperatures have been noted or reported in wells drilled to the Green River formation in this area.
- c. No dangerous levels of hydrogen sulfide, hazardous fluids, or gasses have been found, reported, or known to exist at the depth to be drilled in this well, in this area.

6. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

- a. The drilling operations for this well will begin prior to September 30, 1993.
- 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.

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Multi-Point Surface Use and Operations Plan

EQUITABLE RESOURCES ENERGY COMPANY
BALCRON OIL DIVISION
BALCRON FEDERAL #24-12J
SE SW SECTION 12, T9S, R16E
DUCHESNE COUNTY, UTAH

1. **Existing Roads: Refer to Maps "A" & "B" (shown in RED)**
 - A. The proposed well site is staked and four reference stakes are present. 150' & 200' West and 200' & 250' South.
 - B. The Federal #24-12J is located 13 miles Southwest of Myton Utah in the SE1/4 SW1/4 Section 12, T9S, R16E, SLB&M, Duchesne County, Utah. To reach the 24-12J, 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 9.3 miles to an intersection with the Monnument Butte gas plant road, turn right and continue 2.4 miles to road intersection; turn left and proceed 1.1 miles to road intersection. Turn left and continue 0.4 mile 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" (shown in GREEN)**

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 will be submitted to the Authorized Officer via "Sundry Notice" (Form 3160-5) for approval of subsequent installation operations.
- 3. Production facilities will be accommodated on the

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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. Source will be determined closer to beginning 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 ninety (90) days after termination of drilling and completion activities.

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

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

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

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

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

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

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

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

8. Ancillary Facilities:

None anticipated.

9. Wellsite Layout:

- A. Plat #1 shows the drill site layout as staked. Cross sections have been drafted to visualize the planned cuts and fills across the location. An average minimum of six (6) inches of topsoil will be stripped from the location (including areas of cut, fill, and/or subsoil storage) and stockpiled for future reclamation of the well site. Refer to Figure #1 for the location of the topsoil and subsoil stockpiles. Corner #2 will be rounded to avoid rock outcropping.
- B. Plat #2 is a diagram showing the rig layout. No permanent living facilities are planned. There will be three (3) trailers on location during drilling operation.
- C. A diagram showing the proposed production facility layout will be submitted to the Authorized Officer via Sundry Notice (Form 3160-5) for approval of subsequent operations.
- D. The reserve pit will be constructed so as to be capable of holding 12,000 bbls. of fluid. The flare pit will be located downwind of the prevailing wind between corner #5 and corner #6. Access will be from the South near corner #7.

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

- E. Prior to the commencement of drilling operations, the reserve pit will be fenced on three (3) sides using 39-inch net wire with one strand of barbed wire on top of the net wire. The net wire will be no more than two inches above the ground. the barbed wire will be three inches above the net wire. total height of the fence will be at least 42-inches.
 - 1. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
 - 2. Standard steel, wood, or pipe posts shall be used between the corner braces. The maximum distance between any two (2) posts shall be no greater than sixteen (16) feet.
 - 3. All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The fourth side of the reserve pit will be fenced immediately upon removal of the drilling rig and the

fencing will be maintained until the pit is backfilled.

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

10. Plans for Reclamation of the Surface:

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

A. Production

1. Immediately upon well completion, the well location and surrounding area(s) will be cleared of all debris, materials, trash and junk not required for production.
2. Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with 43 CFR 3162.7-1.
3. The plastic pit liner shall be torn and perforated before backfilling of the reserve pit.
4. Before any dirt work to restore the location takes place, the reserve pit will be completely dry and all cans, barrels, pipe, etc. will be removed.

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

5. The reserve pit and that portion of the location and access road not needed for production facilities/operations will be reclaimed within one hundred twenty (120) days from the date of well completion, weather permitting.
6. If the well is a producer, Equitable Resources Energy Company will, upgrade and maintain access roads as necessary to prevent soil erosion, and accommodate year round traffic. Reshape areas unnecessary to operations, distribute topsoil, disk and seed all disturbed areas outside the work area according to the recommended seed mixture. Perennial vegetation must be established. Additional work shall be required in case of seeding failures, etc.

If the well is abandoned/dry hole, Equitable Resources Energy Company will, restore the access road and location to approximately the original contours.

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

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

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

7. Upon completion of backfilling, leveling and recontouring, the stockpiled topsoil will be evenly spread over the reclaimed area(s). Prior to reseeding, all disturbed surfaces will be scarified and left with a rough surface. No depressions will be left that would trap water and form ponds. All disturbed surfaces will be reseeded with the 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 1 and prior to ground frost. Spring seeding will be done after the frost leaves the ground and no later than May 15. If the seeding is unsuccessful, Equitable Resources may be required to make subsequent seedings.

B. Dry Hole/Abandoned Location

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

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

2. All disturbed surfaces will be recontoured to the approximate natural contours and reseeded according to BLM specifications. Reclamation of the well pad and access road will be performed as soon as practical after final abandonment and reseeded 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, raptors, 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. A silt catchment dam and basin may be required at the B.L.M.'s discretion.

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.

August 30, 1993
Date

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

Balcron Oil Well Prognosis

EXHIBIT "C"

Well Name BALCRON MONUMENT FEDERAL #24-12-J Exploratory Control Well C & O #4
 Location SESW SEC 12-T9S-R16E 539' FSL, 1777' FWL Development X Operator CAMPBELL EXPL
 County DUCHESNE Field JONAH UNIT KB 5462
 State UTAH Section SESW 12 Section NESW 12
 Total Depth 5700 Township 9S Township 9S
 GL (Ung) 5495.47 EST. KB 5505 Range 16E Range 16E

Formation Tops	Prognosis		Sample Top		Control Well	High/Low		Deviation
	Formation	Depth	Datum	Depth	Datum	Datum	Prog	
UINTA	SURFACE							
GREEN RIVER	1463	4042			3996			
HORSEBENCH SS	2135	3370			3324			
2ND GARDEN GULCH	3785	1720			1674			
Y-3 SAND	4103	1402			1356			
Y-5 SAND	4323	1182			1136			
YELLOW MARKER	4415	1090			1044			
DOUGLAS CREEK	4575	930			884			
R-5 SAND	4745	760			714			
2ND DOUGLAS CREEK	4815	690			644			
GREEN MARKER	4963	542			496			
G-4 SAND	5105	400			354			
CARBONATE MARKER	5437	68			NDE			
B-1 SAND	5486	19			NDE			
TD	5700							

Samples
50' FORM 1400' TO 3850'
10' FROM 3850' TO TD

DST,s
 DST #1 NONE
 DST #2
 DST #3
 DST #4

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

Logs
DLL FROM SURF CSG TO TD
LDT/CNL FROM 3600' TO TD

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

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

Comments:

Report To: 1st Name: STEVE VANDELINDER Phone # (406) 259-7860 wk. 248-2778 hm.
 2nd Name: KEVEN REINSCHMIDT Phone # wk. 248-7026 hm.
 Prepared By: KKR 8/22/93 Phone # wk. hm.

Equitable Resources Energy Company
Balcron Oil Division

DRILLING PROGRAM

WELL NAME: Monument Butte Area
LOCATION: Twn.9S Rge.16E & 17E
COUNTY: Duchesne

PROSPECT/FIELD: Monument Butte
STATE: Utah

TOTAL DEPTH: SEE APD COVER SHEET

HOLE SIZE INTERVAL

12 1/4" 0 to 260'
7 7/8" 260 to T.D.

CASING	INTERVAL		CASING		
	STRING TYPE	FROM TO	SIZE	WEIGHT	GRADE
Surface Casing	0	260	8 5/8"	24 #/Ft	J-55
Production Casing	0	T.D.	5 1/2"	15.50#/Ft	J-55

(All Casing will be new, ST&C)

CEMENT PROGRAM

Surface 150 sacks 75% Class "G" 25% Poz with 2% CaCl and 1/4 #/Sk Flocele.
(Cement will be circulated to surface.)

Production 250 sacks Thifty Lite and 400 sacks 50-50 Poz mix.

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.

depending on the drilling contractor either:

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

b.) Drilling will be done using 2% KCl water and gel.

COMMENTS

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

SEP 1 1993

BALCRON OIL CO.

Operator: BALCRON OIL	Well Name: MONUMENT BUTTE AREA
Project ID:	Location: Monument Butte, Utah

Design Parameters:

Mud weight (9.63 ppg) : 0.500 psi/ft
 Shut in surface pressure : 2280 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	SFC TO TD 5-1/2"	15.50	J-55	ST&C	SEE APD COVER SHEET	4.825			
	Load (psi)	Collapse Strgth (psi)	S.F.	Burst Load (psi)	Min Int Strgth (psi)	Yield S.F.	Tension Load (kips)	Strgth (kips)	S.F.
1	2850	4040	1.418	2850	4810	1.69	88.35	202	2.29 J

Prepared by : McCoskery, Billings, MT
 Date : 11-30-1992 (Revised 8/30/93)
 Remarks :

The mud gradient and bottom hole pressures (for burst) are 0.500 psi/ft and 2,850 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)

SFP | 1993



United States Department of the Interior



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

IN REPLY TO:

MTM 12619-A et al
BLM BOND NO. MT0576
(922.31)

April 25, 1989

NOTICE

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

OIL AND GAS

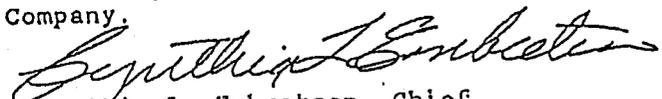
CORPORATE MERGER RECOGNIZED
RIDER TO NATIONWIDE BOND ACCEPTED

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

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

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

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


Cynthia L. Embretson, Chief
Fluids Adjudication Section

1 Enclosure
1-Exhibit A

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

SEP 1 1993

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

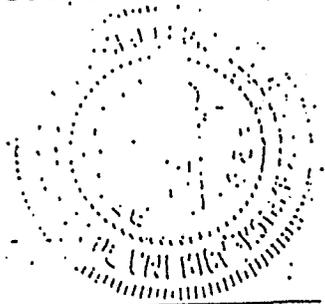
STATE, NATIONWIDE, OR NATIONAL PETROLEUM RESERVE
IN ALASKA OIL AND GAS BOND

Act of February 25, 1920 (30 U.S.C. Sec. 181)

Act of August 7, 1947 (30 U.S.C. Sec. 351)

Department of the Interior Appropriations Act, Fiscal Year 1981 (P.L. 96-514)

Other Oil and Gas Leasing Authorities as Applicable



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

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

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

- The coverage of this bond shall extend to all of the principal's holdings of federal oil and gas leases in the United States, including Alaska, issued or acquired under the Acts cited in Schedule A.
- The coverage of this bond extends only to the principal's holdings of federal oil and gas leases issued or acquired under the Acts cited and in the States named in Schedule A and to any other State or States that may be named in a rider attached hereto by the lessor with the consent of the surety.
- The coverage of this bond extends only to the principal's holdings of federal oil and gas leases within the National Petroleum Reserve in Alaska.

SCHEDULE A

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

NAMES OF STATES

ALL STATES

SEP 1 1993

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

tract, remove, and dispose of oil and gas deposits in or under the lands covered by the leases, operating agreements or designations and is obligated to comply with certain covenants and agreements set forth in such instruments; and

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

WHEREAS the principal is authorized to drill for, mine, ex-



SURETY RIDER

EXHIBIT C Page 3 of 4
SAFECO INSURANCE COMPANY OF AMERICA
GENERAL INSURANCE COMPANY OF AMERICA
FIRST NATIONAL INSURANCE COMPANY
OF AMERICA
HOME OFFICE: SAFECO PLAZA
SEATTLE, WASHINGTON 98185

To be attached to and form a part of

Type of Bond: Nationwide Oil and Gas Lease Bond

Bond No. 5547188 (RLM Bond No. MT0576)

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

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

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

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

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

The name of the Principal

From: BALCRON OIL COMPANY

To: EQUITABLE RESOURCES ENERGY COMPANY

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

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

Signed and Sealed 4/10/89
(MONTH, DAY, YEAR)
EQUITABLE RESOURCES ENERGY COMPANY

PRINCIPAL

By: _____ TITLE
SAFECO INSURANCE COMPANY OF AMERICA

SURETY

By: R. George Voinchet ATTORNEY-IN-FACT

SEP 1 1993



POWER OF ATTORNEY

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

EXHIBIT "E" Page 4 of 4
3798

No. _____

KNOW ALL BY THESE PRESENTS:

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

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

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

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

this 4th day of September, 19 87.

CERTIFICATE

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

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

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

"On any certificate executed by the Secretary or an assistant secretary of the Company setting out,
(i) The provisions of Article V, Section 13 of the By-Laws, and
(ii) A copy of the power-of-attorney appointment, executed pursuant thereto, and
(iii) Certifying that said power-of-attorney appointment is in full force and effect,
the signature of the certifying officer may be by facsimile, and the seal of the Company may be a facsimile thereof."

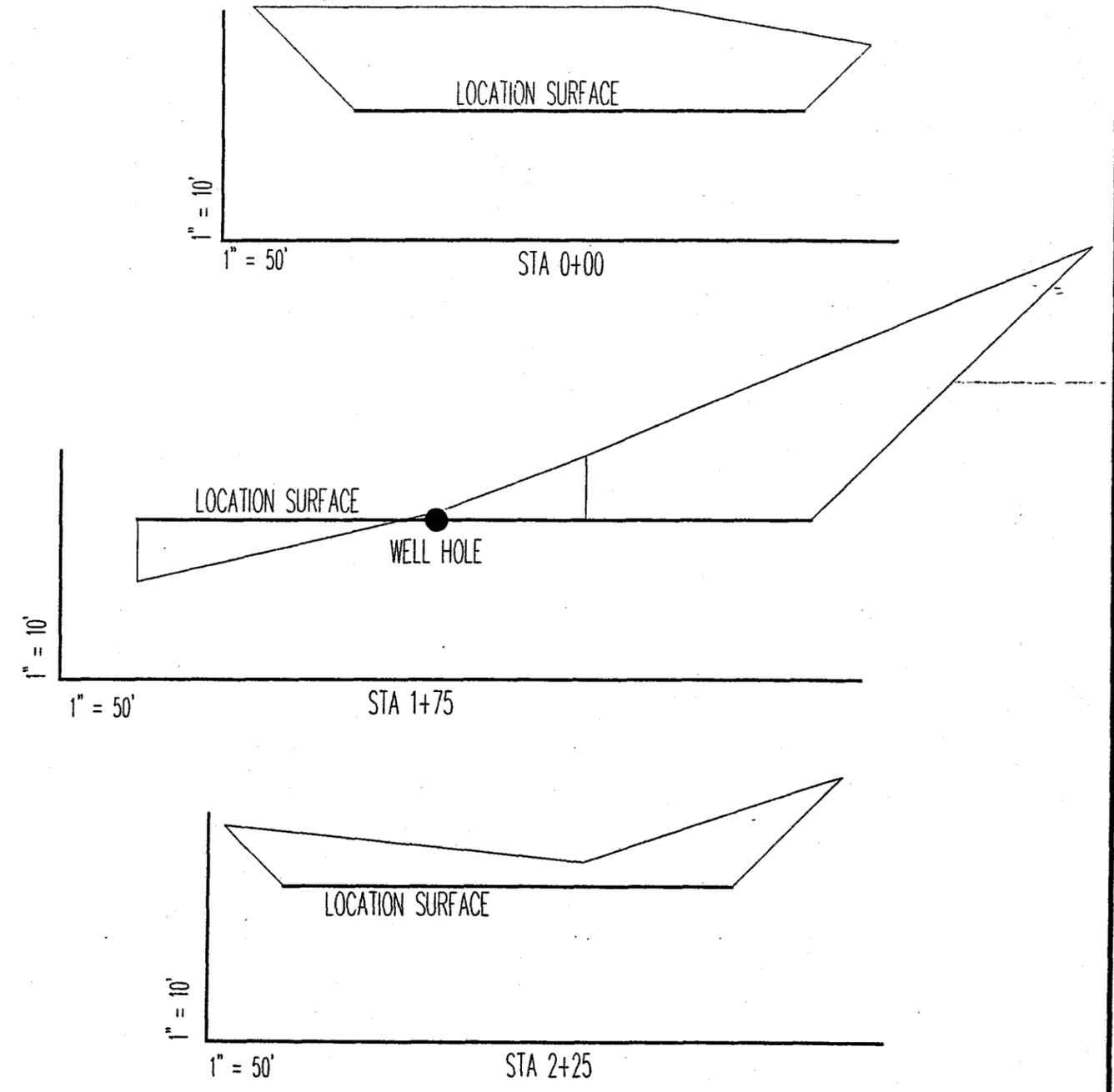
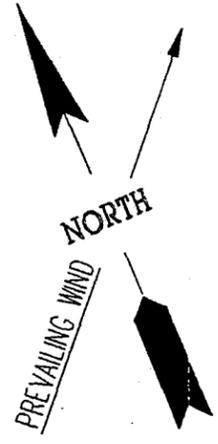
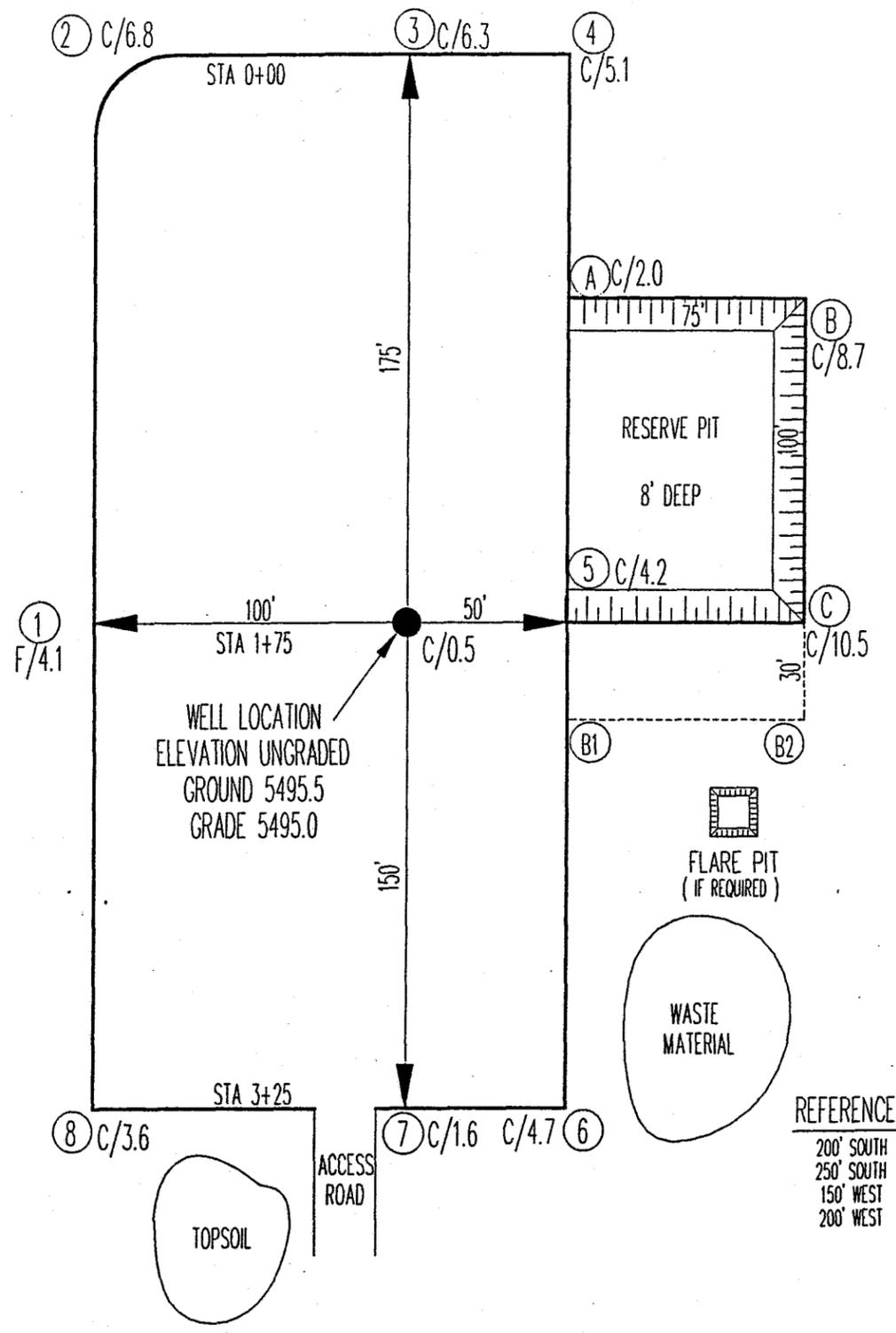
I, Boh A. Dickey, Secretary of SAFECO INSURANCE COMPANY OF AMERICA and of GENERAL INSURANCE COMPANY OF AMERICA, do hereby certify that the foregoing extracts of the By-Laws and of a Resolution of the Board of Directors of these corporations, and of a Power of Attorney issued pursuant thereto, are true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

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

this 10th day of April, 19 89.

SEP 1 1993

EQUITABLE RESOURCES ENERGY CO.
BALCRON MONUMENT FEDERAL #24-12J



APPROXIMATE YARDAGE
CUT = 3834 Cu Yds
FILL = 1065 Cu Yds
PIT = 2222 Cu Yds
NOTE: CUT & FILL CANNOT BE BALANCED
WITHOUT PUTTING RIG ON FILL

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

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

DATE RECEIVED: 09/01/93

OPERATOR: EQUITABLE RESOURCES
WELL NAME: BALCRON MONUMENT FED. 24-12J

OPERATOR ACCT NO: N-9890

API NO. ASSIGNED: 43 - 013 - 31409

CONFIDENTIAL

LEASE TYPE: FED LEASE NO: U-035521-A
LOCATION: SESW 12 - T09S - R16E DUCHESNE COUNTY
FIELD: MONUMENT BUTTE 105 FIELD CODE: 105

RECEIVED AND/OR REVIEWED:

Y Plat
Y Bond \$80,000 SURETY
(Number 5578314 SAFECO)
N Potash (Y/N)
N Oil shale (Y/N)
Water permit
(Number _____)
N RDCC Review (Y/N)
(Date: _____)

LOCATION AND SITING:

R649-2-3. Unit: JONAH UNIT
 R649-3-2. General.
 R649-3-3. Exception.
 Drilling Unit.
Board Cause no: _____
Date: _____

COMMENTS: WATER SUPPLY TO BE NOTICED BY SUNDAY
PRIOR TO SPUD

STIPULATIONS:

CONFIDENTIAL
PERIOD
EXPIRED
ON 1-30-95

cc: Duchesne County Assessor
Bureau of Land Management, Vernal
Jim Thompson, Field Inspection Suprv.



EQUITABLE RESOURCES
ENERGY COMPANY

BALCRON OIL DIVISION

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

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

September 2, 1993

RECEIVED

SEP 03 1993

**DIVISION OF
OIL, GAS & MINING**

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

Gentlemen:

Enclosed are archeology reports which are to be added as part of our Applications for Permit to Drill the wells on the attached list.

Sincerely,

Bobbie Schuman

Bobbie Schuman
Coordinator of Operations,
Environmental and Regulatory Affairs

/rs

Enclosures

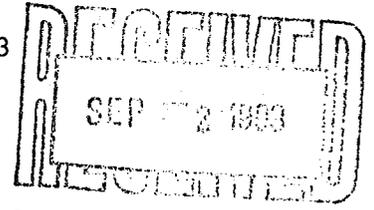
cc: Utah Division of Oil, Gas and Mining



ARCHEOLOGICAL - ENVIRONMENTAL RESEARCH CORPORATION

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

August 27, 1993



Subject: **CULTURAL RESOURCE EVALUATION OF SEVEN
PROPOSED WELL LOCATIONS IN THE MONUMENT
BUTTES LOCALITY OF DUCHESNE COUNTY, UTAH**

Project: Balcron Oil -- 1993 Development

Project No.: BLCR-93-4

Permit No.: Dept. of Interior -- UT-93-54937

State Project No: UT-93-AF-446b

SEP 03 1993

DIVISION OF
OIL, GAS & MINING

To: Ms. Bobbi Schuman, Balcron Oil Division, P.O. Box 21017, Billings, Montana
59104

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

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

**CULTURAL RESOURCE EVALUATION
OF SEVEN PROPOSED WELL LOCATIONS
IN THE MONUMENT BUTTES
LOCALITY OF DUCHESNE COUNTY, UTAH**

Report Prepared for Balcron Oil Company

Dept. of Interior Permit No.: UT-93-54937
AERC Project 1395 (BLCR-93-4)

Utah State Project No.: UT-93-AF-446b

Principal Investigator
F. Richard Hauck, Ph.D.

Author of the Report
Glade V Hadden



**ARCHEOLOGICAL-ENVIRONMENTAL RESEARCH
CORPORATION (AERC)**

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

August 27, 1993

ABSTRACT

An intensive cultural resource evaluation has been conducted for Balcron Oil Company of seven proposed well locations situated on BLM administered lands located in the Monument Buttes locality of Duchesne County, Utah. This evaluation involved a total of 79.86 acres, of which 9.86 acres (.8 miles) include five separate access roads associated with units MF 42-1, MF 21-12, 14-12J, 24-12J and 24-4Y. The remaining 70 acres involve 10 acre parcels at all seven of the proposed well locations. These evaluations were conducted by Glade Hadden of AERC on August 25 and 26, 1993.

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

No newly identified cultural resource activity loci were discovered during the examinations.

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

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GENERAL INFORMATION

On August 25 and 26, 1993, AERC archaeologist Glade Hadden conducted an intensive cultural resource evaluation for Balcron Oil Company of Billings, Montana. This examination involved seven proposed well locations and associated access routes located in the Monument Buttes area south of Myton, Utah. Some .8 miles of access routes (9.86 acres) and seven - 10 acre well pads were examined. This project is situated in the Monument Buttes locality of Duchesne County, Utah. The entire project area is situated on federal lands administered by the Bureau of Land Management, Vernal District Office, Diamond Mountain Resource Area.

The purpose of the field study and this report is to identify and document cultural site presence and assess National Register potential significance relative to established criteria (cf., Title 36 CFR 60.6). The proposed developments on these well locations require archaeological evaluations in compliance with U.C.A. 9-8-404, the Federal Antiquities Act of 1906, the Reservoir Salvage Act of 1960-as amended by P.L. 93-291, Section 106 of the National Historic Preservation Act of 1966-as amended, the National Environmental Policy Act of 1969, the Federal Land Policy and Management Act of 1979, the Archaeological Resources Protection Act of 1979, the Native American Religious Freedom Act of 1978, the Historic Preservation Act of 1980, and Executive Order 11593.

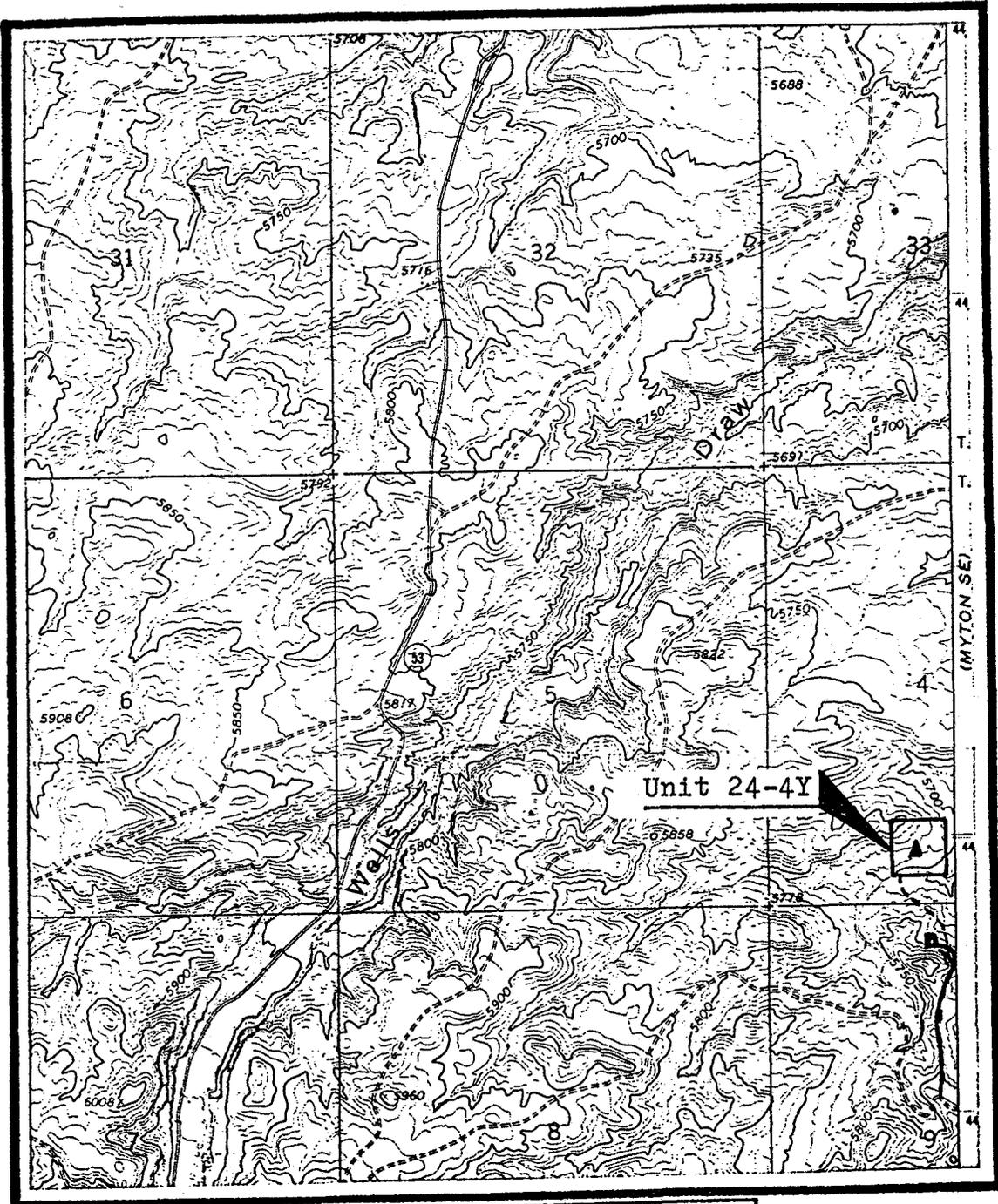
In addition to documenting cultural identity and significance, mitigation recommendations relative to the preservation of cultural data and materials can be directed to the Bureau of Land Management Vernal District Office, and to the Utah State Antiquities Section. This work was done under U.S. Department of Interior Permit for Utah UT-93-54937 which expires on January 31, 1994.

Project Location

The project location is in the Monument Buttes locality of Duchesne County, Utah. It is situated on the Myton SE and Myton SW 7.5 minute topographic quads.

Unit 24-4Y is situated in the SE - SW quarter of Section 4, Township 9 South, Range 16 East. Its access route extends ca. .25 mi. north from an existing well location (Balcron Unit 21-9Y) (See Map 1).

Unit 12-12J is in the SW - NW quarter of Section 12, Township 9 South, Range 16 East. This unit is accessible via an existing road which extends westerly from the main Monument Buttes road (See Map 2). The well location is directly adjacent this road, so no separate access route is necessary.



T. 9 South
 R. 16 East
 Meridian: SL
 Quad: Myton SW
 Utah

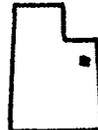
MAP 1
 Cultural Resource Inventory
 of Proposed Well Unit
 24-4Y in the Monument
 Buttes Locality, Duchesne C.

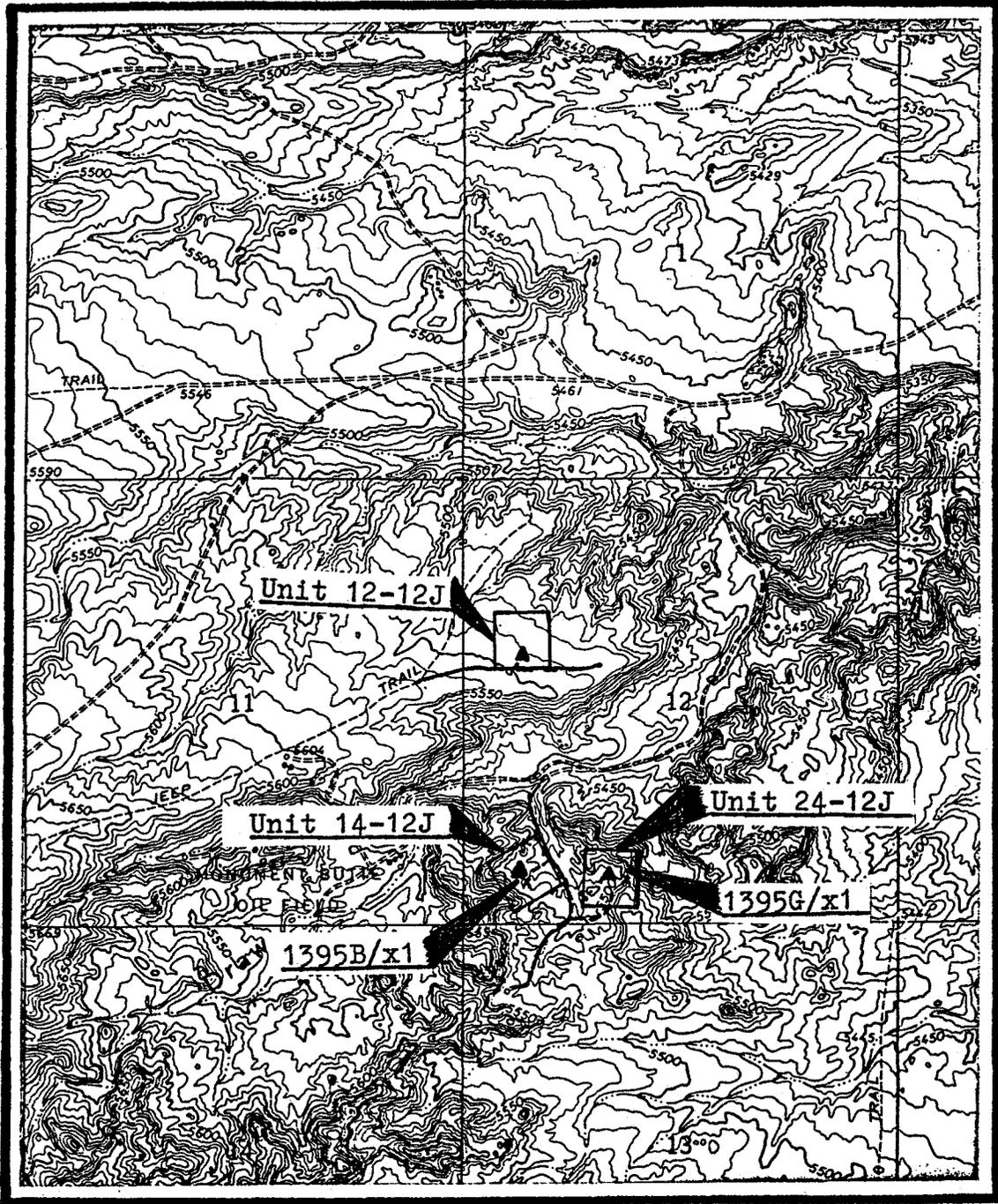
Legend:
 Well Center Stake 
 10 Acre Well Pad 
 Access Route 
 Existing Road 



Project: BLCR-93-4
 Series: Uinta Basin
 Date: 8/30/93

Scale: 1:24,000





T. 9 South
 R. 16 East
 Meridian: SL
 Quad: Myton SE
 Utah

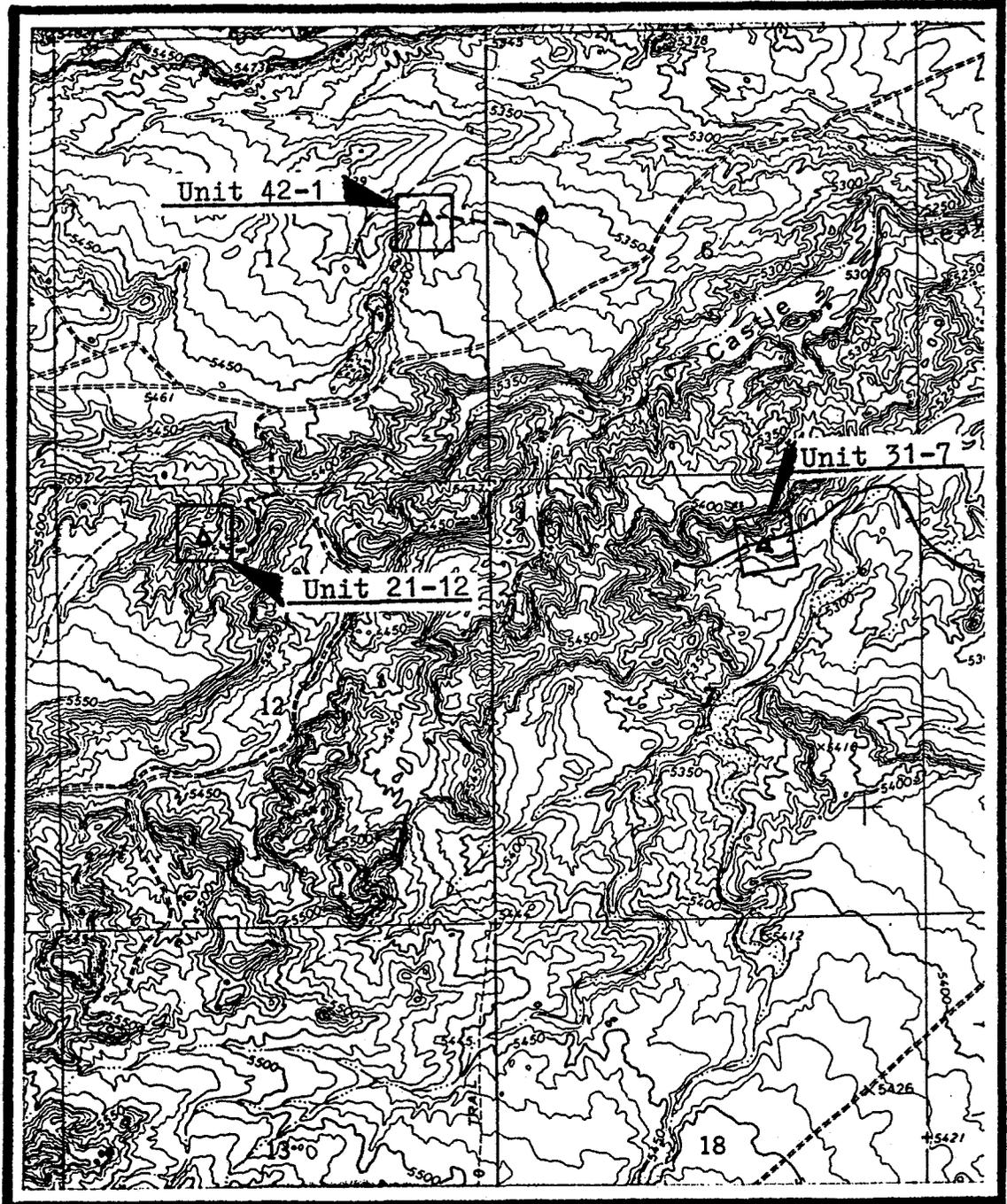
MAP 2
 Cultural Resource Inventory
 of Proposed Well Units
 12-12J, 14-12J and 24-12J
 Monument Buttes Locality

Legend:
 Well Center Stake ▲
 10 Acre Well Pad □
 Access Route - - -
 Existing Road)
 Isolated Artifact X



Project: BLCR-93-4 **Scale:** 1:24,000
Series: Uinta Basin
Date: 8/30/93





T. 9 South
 R. 16 / 17 East
 Meridian: SL
 Quad: Myton SE
 Utah

MAP 3
 Cultural Resource Inventory
 of Proposed Well Units
 42-1, 31-7 and 21-12 in the
 Monument Buttes Locality

Legend:
 Well Center Stake 
 10 Acre Well Pad 
 Access Route 
 Existing Road 



Project: BICR-93-4
Series: Uinta Basin
Date: 8/30/93
Scale: 1:24,000



Unit 14-12J is located in the SW - SW of the previous section (Section 12). This unit is reached via an existing road which runs south from the Castle Peak Draw / Monument Buttes Oil Field access road (See Map 2). A ca. 200 foot-long access route leads west from the spur road to the well location.

Unit 24-12J is situated in the SE - SW of the previous section (Sec. 12) along the same spur road which serves the previous unit (See Map. 2). A ca. 400 foot access route leads northeasterly into this location.

Unit 42-1 is in the SE - NE quarter of Section 1 in the same township and range. This unit may be reached from a spur road leading north past the Balcron Plant in section one, just off the main Monument Buttes access road. From an existing well, the access route for this unit extends ca. .2 mi. to the west (See Map 3).

Unit 31-7 is located in the NW - NE quarter of Section 7, Township 9 South, Range 17 East. This unit lies directly adjacent to an existing road which runs northwesterly from the main Pariette Bench road located in Section 8 (See Map 3).

Unit 21-12 is situated in the NE - NW quarter of Section 12, Township 9 South, Range 16 East. From the Castle Peak Draw / Monument Buttes Oil Field road, a ca. .25 mi. access route runs west to connect with the well location (See Map 3).

Environmental Description:

The project area is within the 5400 to 5600 foot elevation zone above sea level. Open rangeland terrain and eroded Eocene lakebed surfaces are associated with the project area.

The vegetation in the project area includes *Chrysothamnus spp.*, *Artemisia spp.*, *Eriogonum spp.*, *Sarcobatus vermiculatus*, *Ephedra viridis*, *Atriplex canescens*, and a variety of grasses.

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

PREVIOUS RESEARCH IN THE LOCALITY

File Search

A records search of the site files and maps at the Antiquities Section of the State Historic Preservation Office in Salt Lake City was conducted on August 23, 1993. A similar search was conducted in the Vernal District Office of the BLM on August 25, 1993. The National Register of Historic Places has been consulted and no registered historic or prehistoric properties will be affected by the proposed developments.

A variety of known cultural sites are situated in the Monument Buttes / Castle Peak Draw locality. Many of these prehistoric resources were identified and recorded by AERC during the Mapco River Bend survey (Norman and Hauck 1980). Other sites have been located and recorded by AERC and other archaeological consultants during oil and gas exploration inventories.

Prehistory and History of the Cultural Region

Currently available information indicates that the Northern Colorado Plateau Cultural Region has been occupied by a variety of cultures beginning perhaps as early as 10,000 B.C. These cultures, as identified by their material remains, demonstrate a cultural developmental process that begins with the earliest identified Paleoindian peoples (10,000 -- 7,000 B.C.) and extends through the Archaic (ca. 7,000 B.C. -- A.D. 300), and Formative (ca. A.D. 400 -- 1100) Stages, and the Late Prehistoric-Protohistoric periods (ca. A.D. 1200 -- 1850) to conclude in the Historic-Modern period which was initiated with the incursion of the Euro-American trappers, explorers, and settlers. Basically, each cultural stage -- with the exception of the Late Prehistoric hunting and gathering Shoshonean bands -- features a more complex life-way and social order than occurred during the earlier stage of development (Hauck 1991:53). For a more comprehensive treatment of the prehistory and history of this region see Archaeological Evaluations in the Northern Colorado Plateau Cultural Area (Hauck 1991).

Site Potential in the Project Development Zone

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

Site density in certain portions of the region appears to range from one to four sites per section. These densities increase in the canyon bottoms due to Ute rock art loci. Recent evaluations indicate that the site densities may reach 8 to 12 sites per section in certain localities on the upper benches which were apparently favored for hunting, lithic resource procurement, and camping. Prehistoric sites on the rangeland benches appear to be associated with water courses and aeolian deposits.

FIELD EVALUATIONS

Methodology

Intensive evaluations consisted of the archaeologist walking a series of 10 to 15 meter wide transects over a ten acre pad around each well location center stake. In addition, each access route was inventoried by the archaeologist walking a pair of 10 - 15 meter transects on each side of the flagged access route. Thus, a 35 meter-wide or 100 foot-wide corridor (ca. 9.86 acres) was examined for the total ca. .8 mile length of proposed access routes.

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

Site Significance Criteria

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

The quality of significance in American ... archaeology ... and culture is present in ... sites ... that possess integrity of location, design, setting, materials, workmanship, feeling, and association and:

- a. That are associated with events that have made a significant contribution to the broad patterns of our history; or
- b. that are associated with the lives of persons significant in our past; or
- c. that embody the distinctive characteristics of a type, period, or method of construction ... ; or
- d. that have yielded, or may be likely to yield, information important in prehistory or history.

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

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

Results of the Inventory:

No prehistoric cultural resource activity loci were observed or recorded during the archaeological evaluations. No diagnostic tools or buried deposits were found within this site.

No previously recorded sites are located within the proposed development zones.

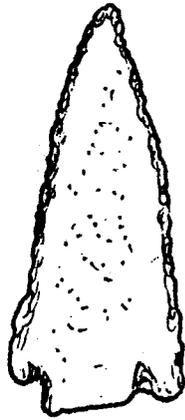
No significant or National Register sites were noted or recorded during the survey.

A number of isolated artifacts were observed or collected during the survey. A single corner notched projectile point (1395B/x1) was recovered by BLM archaeologist Blaine Phillips from near the well center stake of unit 14-12J during the initial reconnaissance of the well location. No other artifacts were noted at this location. At well unit 24-12J, an isolated exhausted core (1395G/x1) was observed on the ridge overlooking the well location. No other artifacts were noted in the vicinity. Two additional isolated artifacts were noted in the access road to unit 42-1. These finds consisted of two pieces of lithic debitage from a similar material source. Since both flakes were found in the bottom of an ephemeral drainage channel, and since no other artifacts could be located nearby, it is probably that these flakes are in a disturbed secondary context, having been transported to their present position by water action.

No paleontological loci were observed or recorded during the evaluations.

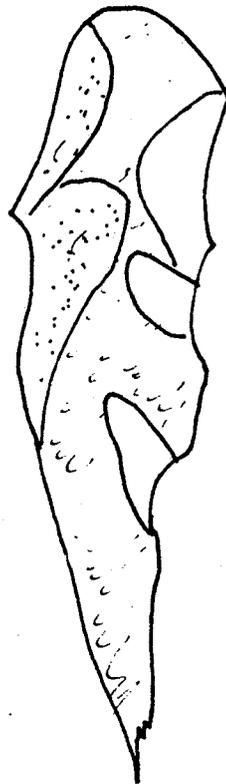
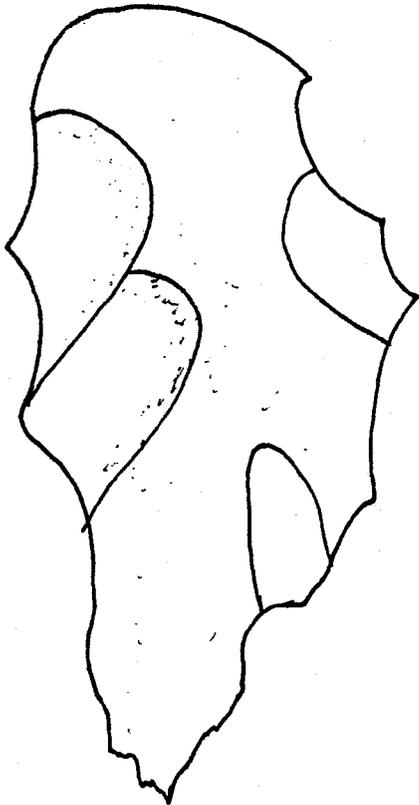
Isolated Artifact

1395B/x1



Isolated Artifact

1395G/x1

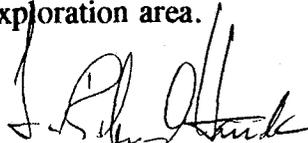


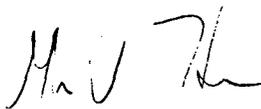
CONCLUSION AND RECOMMENDATIONS

No known significant cultural or paleontological resources will be adversely impacted during the development and operation of the Balcron Oil Company well locations evaluated during this project.

AERC recommends that a cultural resource clearance be granted to Balcron Oil Company relative to the developments proposed on these well locations based upon adherence to the following stipulations:

1. All vehicular traffic, personnel movement, construction and restoration operations should be confined to the flagged areas and corridors examined as referenced in this report, and to the existing roadways and/or evaluated access routes.
2. All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area.
3. The authorized official should be consulted should cultural remains from subsurface deposits be exposed during construction work or if the need arises to relocate or otherwise alter the location of the exploration area.


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


Glade V Hadden
Field Supervisor

REFERENCES

Hauck, F. Richard

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

Norman, V. Garth and F.R. Hauck

1980 Final Report on the Mapco River Bend Cultural Mitigation Study. AERC Paper No. 18, of the Archeological-Environmental Research Corporation, Bountiful.



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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

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)

September 7, 1993

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

Re: Balcron Monument Federal #24-12J Well, 539' FSL, 1777' FWL, SE SW, Sec. 12, T. 9 S., R. 16 E., Duchesne County, Utah

Gentlemen:

Pursuant to Utah Code Ann. § 40-6-18, (1953, as amended), Utah Admin. R. 649-2-3, Application of Rules to Unit Agreements and R. 649-3-4, Permitting of Wells to be Drilled, Deepened or Plugged-Back, approval to drill the referenced well is hereby granted.

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

1. Compliance with the requirements of Utah Admin. R. 649-1 et seq., Oil and Gas Conservation General Rules.
2. Notification within 24 hours after commencing drilling operations.
3. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.
4. Submittal of the Report of Water Encountered During Drilling, Form 7.
5. Prompt notification prior to commencing operations, if necessary, to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or R.J. Firth, Associate Director, (Home) (801)571-6068.

Page 2

Equitable Resources Energy Company
Balcron Monument Federal #24-12J Well
September 7, 1993

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

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

This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-013-31409.

Sincerely,



R. J. Firth
Associate Director, Oil and Gas

ldc

Enclosures

cc: Duchesne County Assessor
Bureau of Land Management, Vernal
Jim Thompson, Field Inspection Supervisor

WO11

Report Acceptable Yes No

Mitigation Acceptable Yes No

Summary Report of
 Inspection for Cultural Resources

Comments: _____

SEVEN WELL LOCATIONS IN THE
 MONUMENT BUTTES LOCALITY

1. Report Title

Balcron Oil Company (BLCR-93-4)

2. Development Company _____

3. Report Date 08 27 1993 4. Antiquities Permit No. UT-92-54937

5. Responsible Institution AERC BLCR 93-4 Diverse County _____

6. Fieldwork 9 S 1 7 E 0 7
 Location: TWN RNG Section. . . | . . . | . . . | . . . |
 7. Resource 9 S 1 6 E 0 1 0 4 1 2
 Area TWN RNG Section. . . | . . . | . . . | . . . |
 . S M.

8. Description of Examination Procedures: The archeologist, Glade V Hadden intensively examined the proposed well locations by walking a series of 10 to 20 meter-wide transects across the ten acre study areas associated with each well pad and by walking paired 10 to 20 meter transects in a 100 foot-wide corridor centered on the flagged center-line stakes for each access route.

9. Linear Miles Surveyed 10. Inventory Type . . .
 and/or I
 Definable Acres Surveyed R = Reconnaissance
 and/or I = Intensive
 Legally Undefinable 7 9 . 8 6 S = Statistical Sample
 Acres Surveyed

11. Description of Findings: No significant or non-significant archaeological sites were identified or recorded during this survey. Three sets of isolated artifacts were observed, of which one was collected.
 12. Number Sites Found .0. (No sites = 0)
 13. Collection: .Y. Y = Yes, N = No

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

15. Literature Search, Location/ Date: Utah SHPO 8-23-93 Vernal BLM 8-25-93

16. Conclusion/ Recommendations: AERC recommends that a cultural resource clearance be granted to Balcron Oil Company for this proposed development based on the following stipulations:
 (see reverse)

1. All vehicular traffic, personnel movement, construction and restoration operations should be confined to the existing roadways and/or evaluated access routes.

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

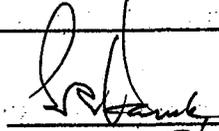
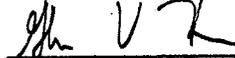
3. The authorized official should be consulted should cultural remains from subsurface deposits be exposed during construction work or if the need arises to relocate or otherwise alter the location of the exploration area.

17. Signature of Administrator
& Field Supervisor

UT 8100-3 (2/85)

Administrator

Field
Supervisor



EQUITABLE RESOURCES
ENERGY COMPANY

BALCRON OIL DIVISION

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

RECEIVED

SEP 29 1993

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

September 27, 1993

DIVISION OF
OIL, GAS & MINING

-- VIA FEDERAL EXPRESS --

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

CONFIDENTIAL

Gentlemen:

RE: Paleontology Reports

Enclosed are Paleontology Reports for the following wellsites and access roads:

Balcron Monument Federal #12-12J	43-013-31410	Sec 12 T95 R16E
Balcron Monument Federal #14-12J	43-013-31411	Sec 12 T95 R16E
Balcron Monument Federal #14-15	43-013-31381	Sec 15 T95 R16E
Balcron Monument Federal #21-12J	43-013-31406	Sec 12 T95 R16E
Balcron Monument Federal #24-12J	43-013-31409	Sec 12 T95 R16E
Balcron Monument Federal #31-7J	43-013-31405	Sec 7 T95 R17E
Balcron Monument Federal #42-1J	43-013-31404	Sec 1 T95 R16E
Balcron Federal #24-4Y	43-013-31412	Sec 4 T95 R16E

Also enclosed are the Monitoring Reports submitted by the paleontologist for the following wellsites:

Balcron Federal #21-9Y	43-013-31396	Sec 9 T95 R16E
Balcron Monument Federal #13-5	43-047-32261	Sec 5 T85 R25E

Sincerely,

Bobbie Schuman

Bobbie Schuman
Coordinator of Operations,
Environmental and Regulatory Affairs

/rs

Enclosures

cc: Utah Division of Oil, Gas and Mining

BALCRON OIL

Balcron Monument Butte Federal #24-12J

SE SW Section 12, T9S, R16E, SLB&M

Duchesne County, Utah

PALEONTOLOGY REPORT

WELLPAD LOCATION AND ACCESS ROAD

BY

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

SEPTEMBER 14, 1993

RESULTS OF PALEONTOLOGY SURVEY AT BALCRON MONUMENT BUTTE FEDERAL #24-12J

Description of Geology and Topography-

This location is about 11 miles south and 1 mile west of Myton, Utah. It sits about 1/4 mile south of Castle Peak Draw, on the east side of a small flat bottom draw. A ridge raps around the location from the northwest, to the northern and eastern sides. They rise 40 to 50 feet above the wellpad. Drainage is to the west and then north. Rocks in the immediate area of the proposed access road and wellpad are composed of interbedded mudstone, and sandstone.

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

Paleontological material found -

There are turtle shell fragments weathering out of a brown layer on the hillside at the north end of the wellpad. This layer extends from the northeast corner of the location west past the northwest corner of the location. The material appears to have been broken and scattered during original deposition with further breaking and scattering as the material weathers out of the hill.

Recommendations-

Wellpad construction may get into the fossiliferous layer at the north end of the wellpad, but the turtle shell fragments found are in poor condition and marginal significance. This is important as an indicator of the presence of fossil material and may provide environment of deposition information. I am not recommending that the material be collected or that the site be monitored. There is some possibility that other fossil material may be encountered during construction. If significant looking fossil bone material is discovered during construction, it should be evaluated by a paleontologist. It is also recommended that the excavated material be looked at sometime after construction to see if any fossil material was present and what condition it is in.

Allen A. Hamblin
Paleontologist

Date September 14, 1993

PALEONTOLOGY LOCALITY

Data Sheet

Page 1 of 1 plus map

State Local. No. 42 DC 135V

Agency No.

Temp. No BALCRON MONUMENT BUTTE
FEDERAL #24-12J

1. Type of locality													Other _____
Invertebrate		Plant		Vertebrate	X	Trace							

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

3. Description of Geology and Topography: This location is about 11 miles south and 1 mile west of Myton, Utah. It sits about 1/4 mile south of Castle Peak Draw, on the east side of a small flat bottom draw. A ridge raps around the location from the northwest, to the northern and eastern sides. They rise 40 to 50 feet above the wellpad. Drainage is to the west and then north. Rocks in the immediate area of the proposed access road and wellpad are composed of interbedded mudstone, and sandstone.

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

4. Location of Outcrop: 11 miles south and 1 mile west of Myton, Utah.

5. Map Ref.	USGS Quad	Myton SE, Utah	Scale	7.5	Min	Edition	1964
NW1/4	of	SE1/4	of	SW1/4	of	Sectn	12 T 9 S R 16E Meridn SLB

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

7. Specimens Collected and Field Accession No. NONE

8. Repository:

9. Specimens Observed and Disposition: There are turtle shell fragments weathering out of a brown layer on the hillside at the north end of the wellpad. This layer extends from the northeast corner of the location west past the northwest corner of the location. The material appears to have been broken and scattered during original deposition with further breaking and scattering as the material weathers out of the hill.

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

11. Recommendations for Further Work or Mitigation: Wellpad construction may get into the fossiliferous layer at the north end of the wellpad, but the turtle shell fragments found are in poor condition and marginal significance. This is important as an indicator of the presence of fossil material and may provide environment of deposition information. I am not recommending that the material be collected or that the site be monitored. There is some possibility that other fossil material may be encountered during construction. If significant looking fossil bone material is discovered during construction, it should be evaluated by a paleontologist. It is also recommended that the excavated material be looked at sometime after construction to see if any fossil material was present and what condition it is in.

12. Type of Map Made by Recorder:

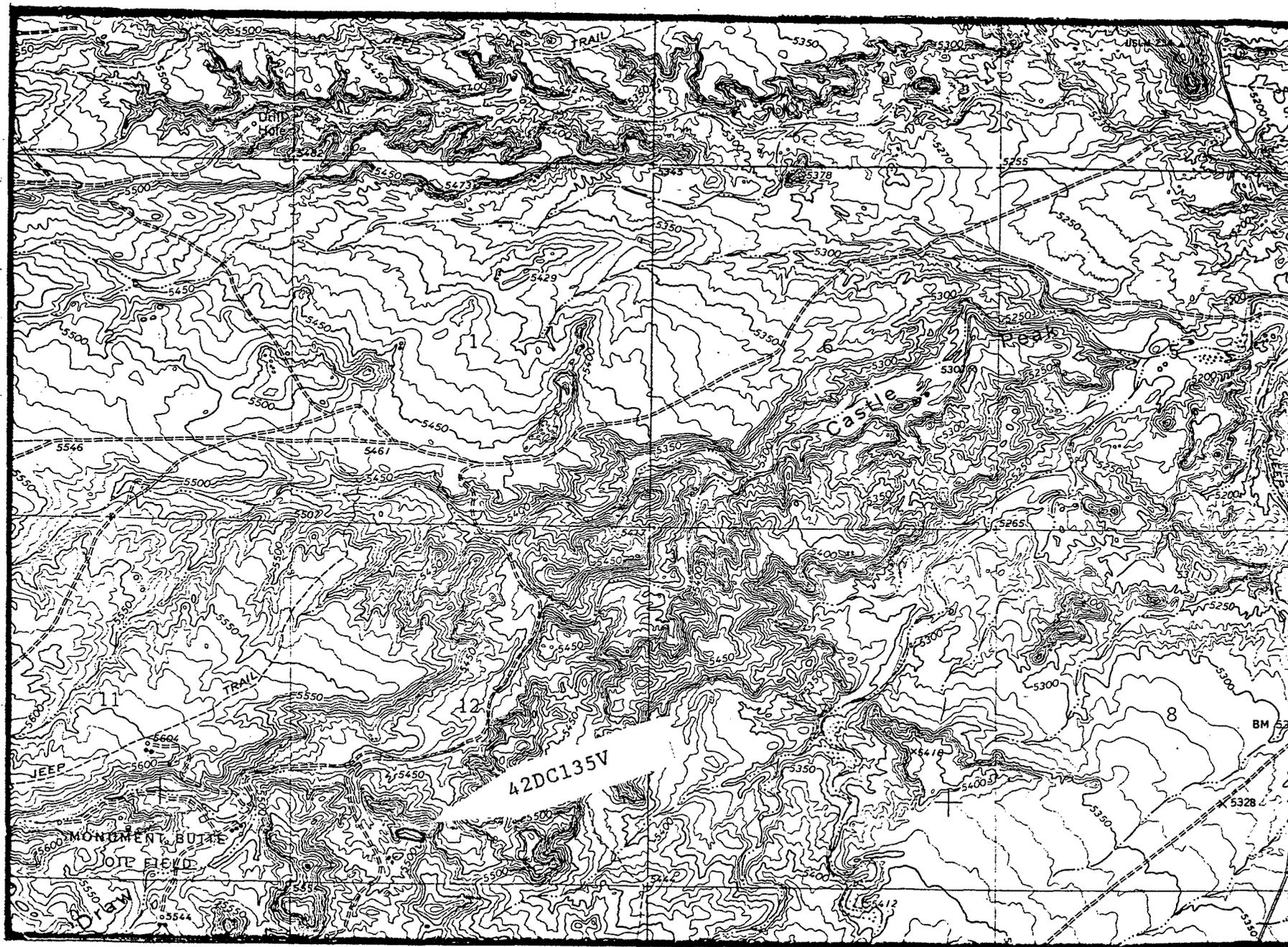
13. Disposition of Photo Negatives:

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

15. Remarks:

16. Sensitivity:	Critical		Significant		Important	X	Insignificant
------------------	----------	--	-------------	--	-----------	---	---------------

17. Recorded by: Alden Hamblin, Paleontologist Date: August 25, 1993



42DC135V

BALCRON MONUMENT BUTTE FEDERAL #24-12J
SE SW SEC. 12, T9S, R16E, SLB&M MYTON SE, UTAH QUAD

MONUMENT BUTTE DRILLING PROGRAM

SIXTH BATCH

Balcron Federal #24-4Y
SE SW Section 4, T9S, R16E
Duchesne County, Utah
710' FSL, 2031' FWL
FLS #U-64379
PTD: 6,175'
GL 5,714.3'

Balcron Monument Federal #12-12J
SW NW Section 12, T9S, R16E
Duchesne County, Utah
1980' FNL, 660' FWL
FLS #U-096550
PTD: 5,800'
GL 5,542.8'

43-013-31410

Balcron Monument Federal #14-12J
SW SW Section 12, T9S, R16E
Duchesne County, Utah
660' FSL, 660' FWL
FLS #U-035521-A
PTD: 5,750'
GL 5,487.5'

43-013-31411

Balcron Monument Federal #24-12J
SE SW Section 12, T9S, R16E
Duchesne County, Utah
539' FSL, 1777' FWL
FLS #U-035521-A
PTD: 5,700'
GL 5,495.5'

43-013-31409

CONFIDENTIAL

Balcron Monument Federal #42-1J
SE NE Section 1, T9S, R16E
Duchesne County, Utah
2087.2' FNL, 692.4' FEL
FLS #U-40652
PTD: 5,850'
GL 5,380.3'

43-013-31404

Balcron Monument Federal #21-12J
NE NW Section 12, T9S, R16E
Duchesne County, Utah
661.4' FNL, 1779.8' FWL
FLS #U-096550
PTD: 5,800'
GL 5,448.9'

43-013-31406

Balcron Monument Federal #31-7J
NW NE Section 7, T9S, R17E
Duchesne County, Utah
831.18' FNL, 1782.38' FEL
FLS #U-44426
PTD: 5,700'
GL 5,298.5'

43-013-31405



EQUITABLE RESOURCES ENERGY COMPANY

BALCRON OIL DIVISION

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

RECEIVED

SEP 29 1993

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

September 27, 1993

DIVISION OF OIL, GAS & MINING

-- VIA FEDERAL EXPRESS --

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

CONFIDENTIAL

Gentlemen:

RE: Paleontology Reports

Enclosed are Paleontology Reports for the following wellsites and access roads:

Balcron Monument Federal #12-12J 43-013-31410 Sec 12 T95 R16E
Balcron Monument Federal #14-12J 43-013-31411 Sec 12 T95 R16E
Balcron Monument Federal #14-15 43-013-31384 Sec 15 T95 R16E
Balcron Monument Federal #21-12J 43-013-31406 Sec 12 T95 R16E
Balcron Monument Federal #24-12J 43-013-31409 Sec 12 T95 R16E
Balcron Monument Federal #31-7J 43-013-31405 Sec 7 T95 R17E
Balcron Monument Federal #42-1J 43-013-31404 Sec 1 T95 R16E
Balcron Federal #24-4Y 43-013-31412 Sec 4 T95 R16E

Also enclosed are the Monitoring Reports submitted by the paleontologist for the following wellsites:

Balcron Federal #21-9Y 43-013-31396 Sec 9 T95 R16E
Balcron Monument Federal #13-5 43-047-32261 Sec 5 T85 R25E

Sincerely,

Bobbie Schuman

Bobbie Schuman
Coordinator of Operations,
Environmental and Regulatory Affairs

/rs

Enclosures

cc: Utah Division of Oil, Gas and Mining

BALCRON OIL

Balcron Monument Federal #24-4Y

SE SW Section 4, T9S, R16E, SLB&M

Duchesne County, Utah

PALEONTOLOGY REPORT

WELLPAD LOCATION AND ACCESS ROAD

BY

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

SEPTEMBER 13, 1993

RESULTS OF PALEONTOLOGY SURVEY AT BALCRON MONUMENT BUTTE FEDERAL #24-4Y

Description of Geology and Topography-

This well location is 10 miles south and 3 miles west of Myton, Utah. The proposed access road runs about 1/4 mile from just east of well location 21-9Y northwest around 21-9Y over a low knoll, down through a round bottomed valley or drainage and northeast to the wellpad. Part of the area is covered with sandy alluvium and part is interbedded red and blue-green sandy mudstone. The wellpad sits on a gentle southeast facing slope with interbedded sandstone and the same red and blue-green mudstone layers.

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

Paleontological material found -

No fossil vertebrate material was found on the wellpad location or access road.

Recommendations-

No other recommendations are made for this location.

Allen H. Hamblin

Date September 13, 1993



EQUITABLE RESOURCES
ENERGY COMPANY

BALCRON OIL DIVISION

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

RECEIVED

SEP 29 1993

Office: (406) 259-7860
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September 27, 1993

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OIL, GAS & MINING

-- VIA FEDERAL EXPRESS --

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

CONFIDENTIAL

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Balcron Monument Federal #14-12J	43-013-31411	Sec 12 T95 R16E
Balcron Monument Federal #14-15	43-013-31384	Sec 15 T95 R16E
Balcron Monument Federal #21-12J	43-013-31406	Sec 12 T95 R16E
Balcron Monument Federal #24-12J	43-013-31409	Sec 12 T95 R16E
Balcron Monument Federal #31-7J	43-013-31405	Sec 7 T95 R17E
Balcron Monument Federal #42-1J	43-013-31404	Sec 1 T95 R16E
Balcron Federal #24-4Y	43-013-31412	Sec 4 T95 R16E

Also enclosed are the Monitoring Reports submitted by the paleontologist for the following wellsites:

Balcron Federal #21-9Y	43-013-31396	Sec 9 T95 R16E
Balcron Monument Federal #13-5	43-047-32261	Sec 5 T85 R25E

Sincerely,

Bobbie Schuman

Bobbie Schuman
Coordinator of Operations,
Environmental and Regulatory Affairs

/rs

Enclosures

cc: Utah Division of Oil, Gas and Mining

BALCRON OIL

Balcron Monument Butte Federal #14-12J

SW SW Section 12, T9S, R16E, SLB&M

Duchesne County, Utah

PALEONTOLOGY REPORT

WELLPAD LOCATION AND ACCESS ROAD

BY

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

SEPTEMBER 14, 1993

RESULTS OF PALEONTOLOGY SURVEY AT BALCRON MONUMENT BUTTE FEDERAL #14-12J

Description of Geology and Topography-

This location is about 11 miles south and 1 mile west of Myton, Utah. It sits about 1/4 mile south of Castle Peak Draw, on the west side of a small flat bottom draw. A ridge to the west rises 80 to 100 feet above the wellpad. Drainage is to the east and then north. Rocks in the immediate area of the proposed access road and wellpad are composed of interbedded mudstone, and sandstone.

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

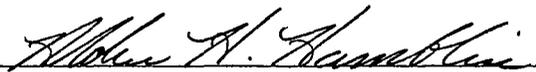
Paleontological material found -

Fossil locality 42DC116V, identified in the Paleontology report for Well #21-13Y, is a few yards northeast of the wellpad location, but will not be effected. The same layer in which 42DC116V is found outcrops in the hillside south of the proposed access road. There are a few turtle shell fragments weathering out in this area, but the road will pass to the north of them.

The wellpad has an occasional weathered turtle shell fragment, which appears to have washed off the ridge to the west.

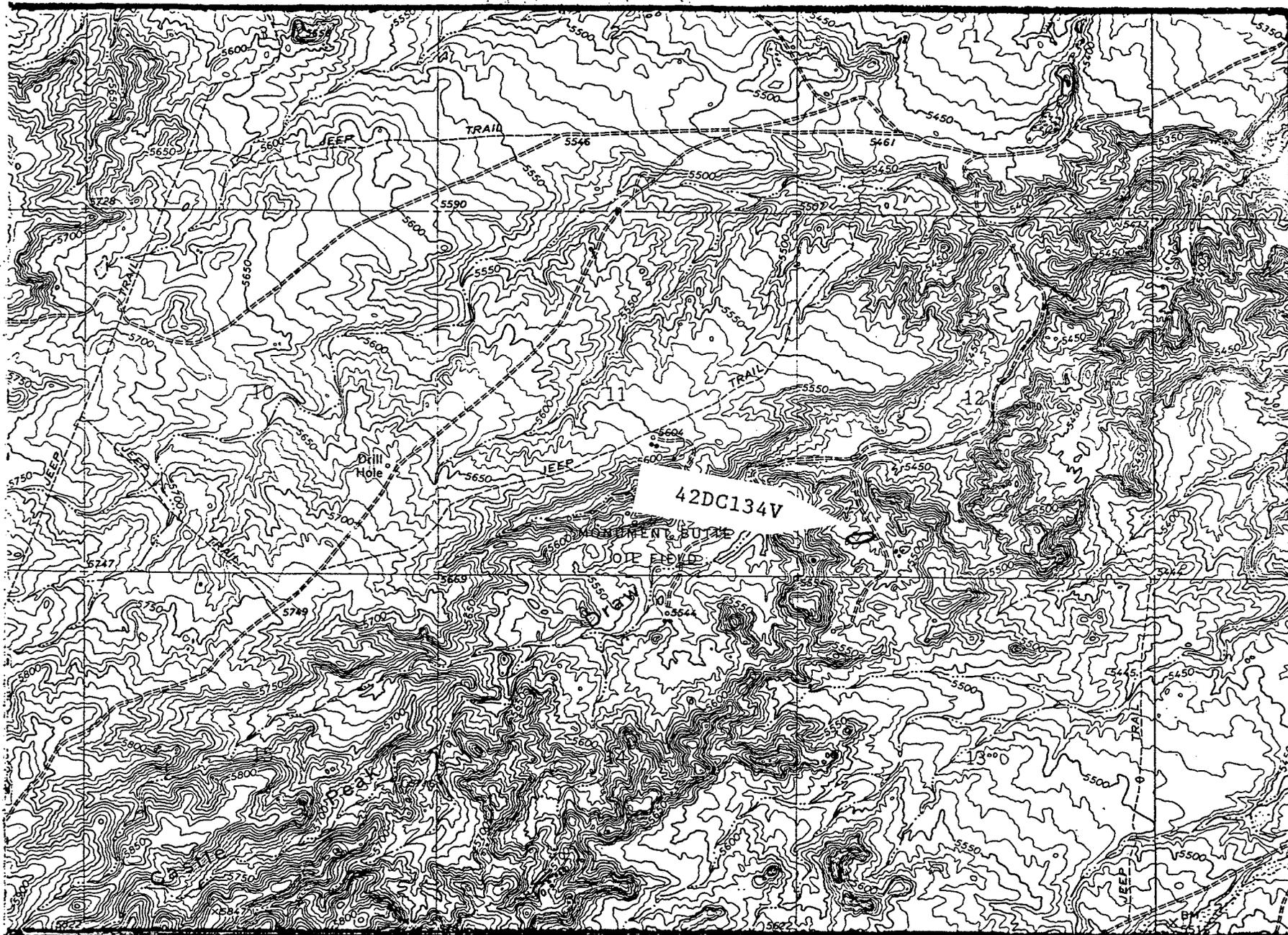
Recommendations-

Most of the turtle shell fragments found are in poor condition and, while important as an indicator of the presence of fossil material, are probably not a collectable specimens. I am not recommending that the material be collected or that the site be monitored. There is some possibility that other fossil material may be encountered during construction. If significant looking fossil bone material is discovered during construction, it should be evaluated by a paleontologist.


Paleontologist

Date September 14, 1993

PALEONTOLOGY LOCALITY Data Sheet						Page 1 of 1 plus map																			
						State Local. No. 42 DC 134V																			
						Agency No.																			
						Temp. No BALCRON MONUMENT BUTTE FEDERAL #14-12J																			
1. Type of locality		Plant		Vertebrate		X		Trace		Other _____															
2. Formation: UINTA				Horizon: "B"				Geologic Age: Late Eocene																	
3. Description of Geology and Topography: The well location sits about 1/4 mile south of Castle Peak Draw, on the west side of a small flat bottom draw. A ridge to the west rises 80 to 100 feet above the wellpad. Drainage is to the east and then north. Rocks in the immediate area of the proposed access road and wellpad are composed of interbedded mudstone, and sandstone. All rock outcrops in the area are of the Upper Eocene Uinta Formation, known for its fossil vertebrate fauna of mammals, turtles, crocodilians, and occasional fish remains.																									
4. Location of Outcrop: 11 miles south and 1 mile west of Myton, Utah.																									
5. Map Ref.		USGS Quad		Myton SE, Utah				Scale		7.5 Min		Edition		1964											
Center		of		SW1/4		of		SW1/4		of Sectn		12		T		9 S		R		16E		Meridn		SLB	
6. State: UTAH				County: DUCHESNE COUNTY				BLM/FS District: VERNAL- DIAMOND MT.																	
7. Specimens Collected and Field Accession No. NONE																									
8. Repository:																									
9. Specimens Observed and Disposition: Fossil locality 42DC116V, identified in the Paleontology report for Well #21-13Y, is a few yards northeast of the wellpad location, but will not be effected. The same layer in which 42DC116V is found outcrops in the hillside south of the proposed access road. There are a few turtle shell fragments weathering out in this area, but the road will pass to the north of them. The wellpad has an occasional weathered turtle shell fragment, which appears to have washed off the ridge to the west.																									
10. Owner:		Private		State		BLM		X		US		FS		NPS		IND		MIL		OTHR					
11. Recommendations for Further Work or Mitigation: Most of the turtle shell fragments found are in poor condition and, while important as an indicator of the presence of fossil material, are probably not a collectable specimens. I am not recommending that the material be collected or that the site be monitored. There is some possibility that other fossil material may be encountered during construction. If significant looking fossil bone material is discovered during construction, it should be evaluated by a paleontologist.																									
12. Type of Map Made by Recorder:																									
13. Disposition of Photo Negatives:																									
14. Published References: Hamblin, A. H., 1992, Paleontology Report on the Monument Butte EA Study Area, for Mariah Associates, Laramie, Wyoming.																									
15. Remarks:																									
16. Sensitivity:		Critical		Significant		Important		X		Insignificant															
17. Recorded by: Alden Hamblin, Paleontologist						Date: August 25, 1993																			



42DC134V

BALCRON MONUMENT BUTTE FEDERAL #14-12J
SW SW SEC. 12, T9S, R16E, SLB&M MYTON SE, UTAH QUAD

DOGMA

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
OIL WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
EQUITABLE RESOURCES ENERGY COMPANY, Balcron Oil

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
SE SW Section 12, T9S, R16E 539' FSL, 1777' FWL
At proposed prod. zone 43-013-31409

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

10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5,495.5' GL

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
See drilling	program/casing	design		

EXHIBITS ATTACHED

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

5. LEASE DESIGNATION AND SERIAL NO.
U-035521-A

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

7. UNIT AGREEMENT NAME
Jonah Unit

8. FARM OR LEASE NAME
Balcron Monument Federal

9. WELL NO.
#24-12J

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

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 12, T9S, R16E

12. COUNTY OR PARISH
Duchesne

13. STATE
UTAH

22. APPROX. DATE WORK WILL START*
Upon APD Approval

CONFIDENTIAL

RECEIVED
AUG 31 1993
OCT 8 1993
DIV. OF OIL, GAS & MINES

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

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

24. SIGNED Bobbie Schuman TITLE Coordinator of Environmental and Regulatory Affairs DATE August 30, 1993
(This space for Federal or State office use)

PERMIT NO. 43-013-31409 APPROVAL DATE

APPROVED BY Amy Kough TITLE Assistant District Manager Minerals DATE OCT 6 1993
CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

*See Instructions On Reverse Side

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

UT080-3M-087

CONDITIONS OF APPROVAL
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Equitable Resources Energy Company

Well Name & Number: Balcron Monument Federal 24-12J

API Number: 43-013-31409

Lease Number: U-035521-A

Location: SESW Sec. 12 T. 9S R. 16E

Surface Ownership: Federal Lands administered by BLM

Date APD Received: August 31, 1993

NOTIFICATION REQUIREMENTS

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

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

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

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

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

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

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.

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 $\pm 1,300$ 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 $\pm 1,100$ ft. and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

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

6. Notifications of Operations

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

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

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

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

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

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

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

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

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

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

7. Other Information

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

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

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

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

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

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

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

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

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

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

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

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

Ed Forsman (801) 789-7077
Petroleum Engineer

BLM FAX Machine (801) 781-4410

EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

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

Unused fracturing fluids or acids

Gas plant cooling tower cleaning wastes

Painting wastes

Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spent 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 reserve pit liner will have sufficient bedding (either straw or dirt) to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc., that could puncture the liner will be disposed of in the pit.

Other Additional Information

a. The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and contact the authorized officer (AO). Within five working days the AO will inform the operator as to:

-whether the materials appear eligible for the National Register of Historic Places;

-the mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and

-a time frame for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will then be allowed to resume construction.

b. The operator will control noxious weeds along rights-of-way for roads, pipelines, well sites, or other applicable facilities. A list of noxious weeds may be obtained from the BLM, or the appropriate County Extension Office. On BLM administered land it is required that a Pesticide Use Proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or possible hazardous chemicals.

c. Drilling rigs and/or equipment used during drilling operations on this wellsite will not be stacked or stored on Federal Lands after the conclusion of drilling operations or at any other time without BLM authorization. However, if BLM authorization is obtained, it is only a temporary measure.

Additional Surface Conditions of Approval

A silt catchment dam and basin will be constructed according to BLM specifications approximately 200 feet northwest of the #8 corner location, where flagged.

Prior to reclaiming of any disturbed areas, the operator will contact the Authorized Officer of the BLM to determine the most desirable site specific seed mixture for reclamation. Seeding will be done in the fall, from September 15 until the ground freezes, unless otherwise approved by the AO.

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 twenty-four to forty-eight (24-48) hours prior to construction activities.

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

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

1. If emergency use occurs, the emergency pit shall be emptied and the liquids disposed of in accordance with applicable State and/or Federal regulations within 48 hours following its use, unless such time is extended by the authorized officer.
2. As much as practicable, the emergency pit shall be located on level ground, and away from drainage patterns and unstable ground.
3. The emergency pit shall be fenced and the fence maintained for safety, and to prevent livestock and wildlife entry. The pit shall be fenced according to the same minimum standards listed for drilling the reserve pit under Point 9E of the Multi-point Surface Use and Operation Plan. The fence shall be maintained in a taut condition. Fences shall not be built on berms.
4. Produced water drain lines shall not go to the emergency pit.
5. The pit shall be bermed or otherwise constructed and maintained to prevent entrance of surface water.
6. Turn downs shall be put on the ends of pipes to direct fluids downward instead of against the wall of the pit.
7. The pit shall be kept free of trash.

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

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



EQUITABLE RESOURCES
ENERGY COMPANY

BALCRON OIL DIVISION

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

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

October 25, 1993

RECEIVED

OCT 28 1993

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

DIVISION OF
OIL, GAS & MINING

Gentlemen:

RE: Balcron Monument Federal #42-1J
Balcron Monument Federal #24-12J
Balcron Monument Federal #14-12J
Balcron Monument Federal #21-12J

Enclosed is our sundries report our water source for the above referenced wells.

Please feel free to contact me if you need any additional information.

Sincerely,

Molly Conrad

Molly M. Conrad
Operations Secretary

/mc

Enclosures

cc: State of Utah, Division of Oil, Gas, & Mining



EQUITABLE RESOURCES
ENERGY COMPANY

BALCRON OIL DIVISION

1601 Lewis Avenue
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Please feel free to contact me if you need any additional information.

Sincerely,

Molly Conrad

Molly M. Conrad
Operations Secretary

/mc

Enclosures

cc: State of Utah, Division of Oil, Gas, & Mining

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

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. U-035521-A
2. Name of Operator Equitable Resources Energy Company, Balcron Oil Division	6. If Indian, Allottee or Tribe Name n/a
3. Address and Telephone No. P.O. Box 21017, Billings, MT 59104 (406) 259-7860	7. If Unit or CA, Agreement Designation Jonah Unit
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) SE SW Section 12, T9S, R16E 539' FSL, 1777' FWL	8. Well Name and No. Balcron Monument Federal #24-12J
	9. API Well No. 43-013-31409
	10. Field and Pool, or Exploratory Area Monument Butte / 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	
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other <u>Water Source</u>	<input type="checkbox"/> Dispose Water

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

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

Operator's water source will be from an approved source in Section 15, T4S, R2W from a well permitted by Joe Shields under permit #57708. A copy of that permit is attached to this sundry. The water will be trucked by Jim Nebeker Trucking out of Roosevelt, Utah.

CONFIDENTIAL

RECEIVED

OCT 28 1993

DIVISION OF
OIL, GAS & MINING

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

Signed Bobbie Schuman Title Coordinator of Environmental and Regulatory Affairs Date October 21, 1993

(This space for Federal or State office use)

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

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

APPLICATION TO APPROPRIATE WATER
STATE OF UTAH

47-1674

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

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

- 1. Irrigation Domestic Stockwatering Municipal Power Mining Other Uses
- 2. The name of the applicant is Joe Shields
- 3. The Post Office address of the applicant is Myton, Utah 84052
- 4. The quantity of water to be appropriated .015 second-feet and/or _____ acre-feet
- 5. The water is to be used for Stockwatering & Other from _____ to _____
 (Major Purpose) (Month) (Day) (Month) (Day)
 other use period Irrigation from Apr. 1 to Oct. 31
 (Minor Purpose) (Month) (Day) (Month) (Day)
 and stored each year (if stored) from _____ to _____
 (Month) (Day) (Month) (Day)
- 6. The drainage area to which the direct source of supply belongs is _____
(Leave Blank)
- 7. The direct source of supply is* Drain
(Name of stream or other source)

which is tributary to _____, tributary to _____

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

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

Myton, Utah

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

- 9. The diverting and carrying works will consist of a collection ditch to place of use
- 10. If water is to be stored, give capacity of reservoir in acre-feet _____ height of dam _____
 area inundated in acres _____ legal subdivision of area inundated _____
- 11. If application is for irrigation purposes, the legal subdivisions of the area irrigated are as follows:
NE¼SE¼ Sec. 15, T4S, R2W, USB&M
- _____ Total .25 Acres
- 12. Is the land owned by the applicant? Yes X No _____ If "No," explain on page 2.
- 13. Is this water to be used supplementally with other water rights? Yes _____ No X
 If "yes," identify other water rights on page 2.
- 14. If application is for power purposes, describe type of plant, size and rated capacity. _____
- 15. If application is for mining, the water will be used in _____ Mining District at
 the _____ mine, where the following ores are mined _____
- 16. If application is for stockwatering purposes, number and kind of stock watered 320 Cattle
 in NE¼SE¼ Sec. 15, T4S, R2W, USB&M
- 17. If application is for domestic purposes, number of persons _____ or families _____
- 18. If application is for municipal purposes, name of municipality _____
- 19. If application is for other uses, include general description of proposed uses Oil Field use
- 20. Give place of use by legal subdivision of the United States Land Survey for all uses described in paragraphs 14 to 19, incl. Myton Oil Field in Pleasant Valley
- 21. The use of water as set forth in this application will consume .015 second-feet and/or acre-
 feet of water and None second feet and/ or acre feet will be returned to the natural
 stream or source at a point described as follows: _____

EXPLANATORY

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

Lined area for providing additional facts.

(Use page 4 if additional explanatory is needed.)

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

Signature of Applicant*

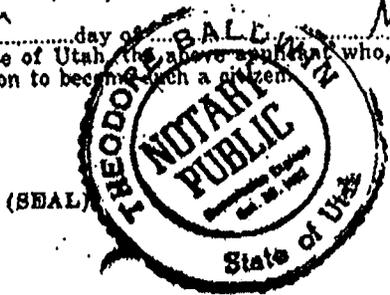
*If applicant is a corporation or other organization, signature must be the name of such corporation or organization by its proper officer, or in the name of the partnership by one of the partners, and the names of the other partners shall be listed. If a corporation or partnership, the affidavit below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

DECLARATION OF CITIZENSHIP

STATE OF UTAH, Uintah }
County of.....

On the 10th day of May 1922, personally appeared before me, a notary public for the State of Utah, Theodore Baldwin, who, on oath, declared that he is a citizen of the United States, or has declared his intention to become such a citizen.

My commission expires:



Theodore Baldwin
Notary Public

CONFIDENTIAL

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: EQUITABLE RESOURCES

WELL NAME: MONUMENT FEDERAL 24-12J

API NO. 43-013-31409

Section 12 Township 9S Range 16E County DUCHESNE

Drilling Contractor _____

Rig # _____

SPUDDED: Date 11/7/93

Time 11:00 AM

How DRY HOLE

Drilling will commence _____

Reported by AL PLUNKETT

Telephone # 1-823-6759

Date 11/9/93 SIGNED JLT

Page 1 of 1

Balcron Oil
DAILY OPERATING REPORT

DATE: 11/9/93

****JONAH UNIT PARTNERS' DAILY REPORT****

BALCRON MONUMENT FEDERAL #42-1J Operator: EREC/Balcron
 BOD WI: 79.78%
 Location: SE NE Section 1, T9S, 16E
 Duchesne County, Utah
 Prospect: Jonah Unit / Monument Butte
 PTD: 5,850' Green River Oil - Dev.

---TIGHT HOLE---

11-9-93 TD: 3,061' (1,014') Day 3
 Formation: Green River
 MW 8.3 VIS 26
 Present Operation: Run magnet.
 Drill, survey, blow hole out, bit locking up. TIH w/magnet for
 bearings & part of 1 cone.
 DC: \$14,016 CC: \$67,625

BALCRON MONUMENT FEDERAL #23-15 Operator: Balcron/EREC
 BOD WI: 79.78%
 Location: NE SW Section 15, T9S, R16E
 Duchesne County, Utah
 Prospect: Monument Butte

---TIGHT HOLE---

11-8-93 Completion
 CP - 0, TP - 5 psi. Made 20 swab runs, recovered 120 BF, 115 wtr,
 5 oil. Last 3 runs, 3% oil, fluid level stable @ 3300'. Release
 packer, tag sand @ 5430', circ down to 5625' (PSTD). TOOH w/tbg,
 SN, & packer. SWIFN.
 DC: \$1,393

BALCRON MONUMENT FEDERAL #24-12J Operator: EREC/Balcron
 BOD WI: 79.78%
 Location: SE SW Section 12, T9S, R16E
 Duchesne County, Utah
 Prospect: Jonah Unit / Monument Butte
 PTD: 5,700' Green River Oil - Dev.

---TIGHT HOLE---

11-8-93 Well spud @ 11 a.m. on 11-8-93 by Leon Ross Air Drilling.



**EQUITABLE RESOURCES
ENERGY COMPANY**

BALCRON OIL DIVISION

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

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

November 9, 1993

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

Gentlemen:

RE: Balcron Monument Federal #24-12J
SE SW Section 12, T9S, R16E
Duchesne County, Utah

Enclosed is our sundry reporting spud on the subject well.

Please feel free to contact me if you need any additional information.

Sincerely,

Molly Conrad

Molly M. Conrad
Operations Secretary

/mc

cc: State of Utah, Division of Oil, Gas, & Mining -
also enclosed is our Entity Actio Form
Dawn Schindler
Mary Lou Dixon, Uintah Basin Health Dept. - VIA FAX

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NOV 12 1993

DIVISION OF
OIL, GAS & MINING

CONFIDENTIAL

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

5. Lease Designation and Serial No.

U-035521-A

6. If Indian, Allottee or Tribe Name

n/a

7. If Unit or CA, Agreement Designation

Jonah Unit

8. Well Name and No.

Balcon Monument Federal #24-12J

9. API Well No.

43-013-31409

10. Field and Pool, or Exploratory Area

Monument Butte / Green River

11. County or Parish, State

Duchesne County, Utah

SUBMIT IN TRIPLICATE

1. Type of Well

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)

SE SW Section 12, T9S, R16E

539' FSL, 1777' FWL

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

TYPE OF SUBMISSION

- Notice of Intent
- Subsequent Report
- Final Abandonment Notice

TYPE OF ACTION

- Abandonment
- Recompletion
- Plugging Back
- Casing Repair
- Altering Casing
- Other Report of Spud.
- Change of Plans
- New Construction
- Non-Routine Fracturing
- Water Shut-Off
- Conversion to 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.)*

This well spud at 11:00 a.m. on 11-8-93 (Leon Ross Air Drilling).

RECEIVED

NOV 12 1993

DIVISION OF
OIL, GAS & MINING

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

Signed

Bobbie Schuman

Title

Coordinator of Environmental and
Regulatory Affairs

Date 11-8-93

(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

Page 1 of 3

Balcron Oil
DAILY OPERATING REPORT

DATE: 11/17/93

****JONAH UNIT PARTNERS' DAILY REPORT******BALCRON MONUMENT FEDERAL #21-12J**

Operator: EREC/Balcron

BOD WI: 79.78%

Location: NE NW Section 12, T9S, R16E
Duchesne County, Utah

Prospect: Jonah Unit / Monument Butte

PTD: 5800' Green River Oil - Dev.

---TIGHT HOLE---

11-17-93 TD: 2,550' (1,549') Day 2
Formation: Green River
MW 8.3 VIS 26
Present Operation: Drilling
Drill, survey, & repair flow line.
DC: \$20,126

CC: \$62,482

BALCRON MONUMENT FEDERAL #12-12J

Operator: EREC/Balcron

BOD WI: 79.78%

Location: SW NW Section 12, T9S, R16E
Duchesne County, Utah

Prospect: Jonah Unit / Monument Butte

---TIGHT HOLE---

11-16-93 Completion
CP - 0, TP - 0. TOOH w/tbg, packer & retrieving tool. RU Cutters
to perf 5029'-33' (2 SPF). RD Cutters. TIH w/retrieving tool, HD
packer, SN & 161 jts 2-7/8" tbg. Set packer @ 4984' KB, EOT @
5003'. RU Western to do HCL break down on perfs 4029-33'. Spot
500 gals 15% HCL @ EOT, set packer refer to treatment report.
Pressure test surface equipment to 5000 psi - OK. Could not pump
into perfs at 4000 psi, lower EOT to reset BP @ 5260' & set packer
@ 5189' & EOT @ 5220'. Start break down - no break. Release
packer set end of tbg @ 5241'. SWIFN.
DC: \$8,919

RECEIVED

NOV 17 1993

DIVISION OF
OIL, GAS & MINING



**EQUITABLE RESOURCES
ENERGY COMPANY**
BALCRON OIL DIVISION
1601 Lewis Avenue
P.O. Box 21017
Birmingham, AL 35201-0117

TREATMENT REPORT

Date of Treatment: 11-16-93
Well Name: Monument Fed, 12-12J SEC. 12 TWN. 9S RNG. 16E
Field: Monument Barbour County DeKalb State GA
Formation/Perforations: Green River / 5225-29, 5237-44

Treatment type: KOL BREAK DOWN Total Number of Holes: 11

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

TOTAL FLUID PUMPED: _____ gal. _____ % _____ gal. Acid fluid

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

Finished well with _____ gal. of _____ ball sealers were pumped. Was ball action seen? _____
Barrels of Load to Recover _____ BLR.

Avg. Treating Pressure = _____ psi, max = 4150 psi, min = _____ psi.
Avg. Treating Rate = _____ bpm, max = _____ bpm, min = _____ bpm.
ISIP = _____ psi, 5 min. = _____ psi, 10 min. = _____ psi, 15 min. = _____ psi.
Well will be shut in for _____ hrs. before bringing back fluid.

REMARKS: INITIAL BREAK AT _____ PSI AT _____ BPM, BACK TO _____ PSI AT _____ BPM.
NO BREAK



EQUITABLE RESOURCES ENERGY COMPANY
BALACRON OIL DIVISION
1001 Lewis Avenue
P.O. Box 1017
Bilings, MT 59104-1017

TREATMENT REPORT

Well Name Monument rd, 12-12 J Date of Treatment: 11-16-93
Field Monument Butte County Dakota State Mont
SEC. 12 TWN. 9 S RNG. 16 E

Formation/Perforations: 5029-33 Green River

Treatment type: ACID BREAK DOWN Total Number of Holes: 3

Volume	Fluid	Conc.	Sand Characteristics	
			Size	Volume
Gal.				
Gal.				
Gal.				
Gal.			1	#
Gal.			1	#
Gal.			1	#
Gal.			1	#
Gal.			1	#
Gal.			1	#
Gal.			1	#
Gal.			1	#

TOTAL FLUID PUMPED: 500 gal. 15% HCL Acid fluid

TOTAL SAND VOL. : lbs. 1 sand
lbs. 1 sand
lbs. 1 sand
lbs. 1 bauxite

Flushed well with _____ gal. of _____
16 ball sealers were pumped. Was ball action seen? 11 Yes

Barrels of Lead to Recover 103 BLR.

Avg. Treating Pressure = 1900 psi, max = 2060 psi, min = 186 psi.

Avg. Treating Rate = 3.5 bpm, max = 4.0 bpm, min = 2.6 bpm.

ISIP = 1300 psi, 5 min. = _____ psi, 10 min. = _____ psi, 15 min. = _____ psi.

Well will be shut in for 0 hrs. before bringing back fluid.

REMARKS: INITIAL BREAK AT 1200 PSI AT 3 BPM, BACK TO 1600 PSI AT 3.9 BPM
PUMP 2 BALLS OFF, SERGE BALLS OFF.
PUMP FOR RATE 6.5 BPM AT 2500 PSI

OPERATOR Equitable Resources Energy Company
Balcron Oil Division

ADDRESS P.O. Box 21017
Billings, MT 59104

(406) 259-7860

OPERATOR ACCT. NO. 10890

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	11492	11492	43-013-31409	Balcron Monument Federal #24-12J	SE SW	12	9S	16E	Duchesne	11-8-93	11-8-93
WELL 1 COMMENTS: Please add to Jonah Unit. <i>Entity added 11-18-93. Lc</i>											
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.

Bobbie Schuman
 Signatur Bobbie Schuman
 Coordinator of Environmental and
 Regulatory Affairs
 Title _____ Date 11-8-93

Phone No. (406) 259-7860

Balcron Oil
DAILY OPERATING REPORT

DATE: 12/3/93

****JONAH UNIT PARTNERS' DAILY REPORT****

BALCRON MONUMENT FEDERAL #42-1J

Operator: EREC/Balcron
BOD WI: 79.78%
Location: SE NE Section 1, T9S, 16E
Duchesne County, Utah
Prospect: Jonah Unit / Monument Butte

---TIGHT HOLE---

12-2-93 Completion
CP - 0. TIH w/production string as follows:

	<u>Length</u>	<u>Depth KB</u>
1 jt 2-7/8" tbg, EUE J-55, 8RD, 6.5#	31.65'	5367.60'
1 Perf sub 2-7/8" x 3'	3.20'	5335.95'
1 seating nipple	1.10'	5332.75'
171 jts 2-7/8" EUE, J-55, 8RD, 6.5#	5321.65'	5331.65'
Union Drilling KB	10.00	
ND BOP, NU wellhead. TIH w/BHP 2-1/2" x 1-1/2" RWAC w/PA plunger;		
212 3/4" x 25' plain rods D-61; one 3/4" x 8' pony; one 1-1/4" x		
22' polish rod SM. Clamp rod off. RDMO.		
DC: \$9,053'		

BALCRON MONUMENT FEDERAL #24-12J

Operator: EREC/Balcron
BOD WI: 79.78%
Location: SE SW Section 12, T9S, R16E
Duchesne County, Utah
Prospect: Jonah Unit / Monument Butte
PTD: 5,700' Green River Oil - Dev.

---TIGHT HOLE---

10-25/31-92 Work on and finish location.

11-8-93 MIRU Leon Ross Drilling & start, break down.

11-9-93 Drill 12-1/4" hole to 275'.

11-10-93 Run 6 jts 8-5/8" csg & cmt as follows:
Guide Shoe .60'
1 jt 8-5/8" 24# shoe jt 45.11'
Insert -----
5 jts 8-5/8" 225.57'
271.28'
Csg set @ 269' GL
Union Drilling KB (10') 279' KB
Cmt by Dowell w/150 sxs "G" + 2% CCL & 1/4#/sx Celoflakes. Good
returns, approximately 8 bbls to pit. Plug down @ 11 a.m. 11-10-
93.
DC: \$4,210 CC: \$26,878

12-3-93 Couldn't get trucks, work on rig, replace brake pads on hoisting
drum. Moving now.
DC: \$400 CC: \$27,278

DAILY OPERATING REPORTBALCRON MONUMENT FEDERAL #24-12J

Location: SE SW Section 12, T9S, R16E

Duchesne County, Utah

539' FSL 1777' FWL

- 12-4-93 TD: 658' (379') Day 1
Formation: Uintah
MW 8.4 VIS 26
Present Operation: Drilling
MIRU, NU BOP. Test BOP & manifold to 2000# - OK. Test
cst to 1500# - OK. PU drill collars & drill cmt, survey
& drill. Work on booster.
DC: \$6,012 CC: \$33,290
- 12-5-93 TD: 2,338' (1,680') Day 2
Formation: Green River
MW 8.4 VIS 26
Present Operation: Run survey.
Drill, survey, & clean on rig.
DC: \$21,608 CC: \$54,898
- 12-6-93 TD: 3,582' (1,244') Day 3
Formation: Green River
MW 8.3 VIS 26
Present Operation: Drilling
Drill, survey, clean on rig. Good clean sand
2,700'-2,800' with gas in it.
DC: \$16,392 CC: \$71,290

DAILY OPERATING REPORTBALCRON MONUMENT FEDERAL #24-12J

Location: SE SW Section 12, T9S, R16E
 Duchesne County, Utah
 539' FSL 1777' FWL

- 12-4-93 TD: 658' (379') Day 1
 Formation: Uintah
 MW 8.4 VIS 26
 Present Operation: Drilling
 MIRU, NU BOP. Test BOP & manifold to 2000# - OK. Test
 cst to 1500# - OK. PU drill collars & drill cmt, survey
 & drill. Work on booster.
 DC: \$6,012 CC: \$33,290
- 12-5-93 TD: 2,338' (1,680') Day 2
 Formation: Green River
 MW 8.4 VIS 26
 Present Operation: Run survey.
 Drill, survey, & clean on rig.
 DC: \$21,608 CC: \$54,898
- 12-6-93 TD: 3,582' (1,244') Day 3
 Formation: Green River
 MW 8.3 VIS 26
 Present Operation: Drilling
 Drill, survey, clean on rig. Good clean sand
 2,700'-2,800' with gas in it.
 DC: \$16,392 CC: \$71,290
- 12-7-93 TD: 4,706' (1,124') Day 4
 Formation: Red Zone
 MW 8.3 VIS 26
 Present Operation: Drilling
 Drill, survey, & clean on rig.
 DC: \$15,955 CC: \$87,245

DAILY OPERATING REPORT~~BALCRON MONUMENT FEDERAL #24-12J~~

Location: SE SW Section 12, T9S, R16E
 Duchesne County, Utah
 539' FSL 1777' FWL

- 12-4-93 TD: 658' (379') Day 1
 Formation: Uintah
 MW 8.4 VIS 26
 Present Operation: Drilling
 MIRU, NU BOP. Test BOP & manifold to 2000# - OK. Test
 cst to 1500# - OK. PU drill collars & drill cmt, survey
 & drill. Work on booster.
 DC: \$6,012 CC: \$33,290
- 12-5-93 TD: 2,338' (1,680') Day 2
 Formation: Green River
 MW 8.4 VIS 26
 Present Operation: Run survey.
 Drill, survey, & clean on rig.
 DC: \$21,608 CC: \$54,898
- 12-6-93 TD: 3,582' (1,244') Day 3
 Formation: Green River
 MW 8.3 VIS 26
 Present Operation: Drilling
 Drill, survey, clean on rig. Good clean sand
2,700'-2,800' with gas in it.
 DC: \$16,392 CC: \$71,290
- 12-7-93 TD: 4,706' (1,124') Day 4
 Formation: Red Zone
 MW 8.3 VIS 26
 Present Operation: Drilling
 Drill, survey, & clean on rig.
 DC: \$15,955 CC: \$87,245
- 12-8-93 TD: 5,636' (930') Day 5
 Formation: Green River
 MW 8.3 VIS 26
 Present Operation: Drilling
 Drill, survey, trip 4 stds to get broken survey line,
 drill & survey.
 DC: \$13,771 CC: \$101,016

Balcron Oil
DAILY OPERATING REPORT

DATE: 12/9/93

****JONAH UNIT PARTNERS' DAILY REPORT******BALCRON MONUMENT FEDERAL #24-12J**

Operator: EREC/Balcron

BOD WI: 79.78%

Location: SE SW Section 12, T9S, R16E
Duchesne County, Utah

Prospect: Jonah Unit / Monument Butte

---TIGHT HOLE---

12-9-93 TD: 5,700' (64') Day 6

Formation: Green River

MW 8.4 VIS 26

Present Operation: WO float collar.

Drill, load hole w/fluid & circ, trip out for logs. Log well, TIH,
LD drill pipe & collars. Test pipe rams to 2000# - OK. Run 5-1/2"
csg, cross thread jt in float collar. WO float collar.

DC: \$19,342

CC: \$120,358

BALCRON MONUMENT FEDERAL #14-12J

Operator: EREC/Balcron

BOD WI: 79.78%

Location: SW SW Section 12, T9S, R16E
Duchesne County, Utah

Prospect: Jonah Unit/Monument Butte

---TIGHT HOLE---

12-8-93 Completion

CP - 0. Pull up to 4373' KB, set BP. TOOH w/tbg & tools. RU
Schlumberger to perf 4097'-4104' (5 holes) & 4299'-4308' (6 holes).
TIH w/retrieving tool, 1 jts 2-7/8" tbg, 5-1/2" HD packer, SN & 136
jts 2-7/8" tbg. Set packer @ 4244' KB EOT 4279' KB. RU
Halliburton to do KCL break down on 4299'-4308' refer to treatment
report. Reset BP @ 4161' KB, set packer @ 4032' KB, EOT 4067' KB.
Do KCL break down on 4097'-4104' refer to treatment report. RD
Halliburton. Release BP, reset BP @ 4373' KB. TOOH w/tbg &
packer. SWIFN.

DC: \$2,442

BALCRON MONUMENT FEDERAL #31-7J

Operator: EREC/Balcron

BOD WI: 79.78%

Location: NW NE Section 7, T9S, R17E
Duchesne County, Utah

Prospect: Jonah Unit/Monument Butte Field

---TIGHT HOLE---

12-8-93 Completion

RU Schlumberger to run CBL & perforate 5050'-55', 5062'-64', 5080'-
86', & 5100'-06' (2 SPF). Cmt top 1830' KB. RD Schlumberger. TIH
5-1/2" RBP, retrieving head, HD packer, SN & 163 jts 2-7/8" tbg,
set BP 5072' KB, packer @ 5021' KB, EOT 5026' KB. RU Western to
break down 5050'-55' & 5062'-64' refer to treatment report. Reset
BP @ 5140' KB, set packer @ 5072' KB EOT @ 5077' KB. Break down
5080'-86' & 5100'-06' refer to treatment report. TOOH w/tbg &
packer. SWIFN.

DC: \$7,817

BALCRON MONUMENT FEDERAL #24-12J Operator: EREC/Balcron
BOD WI: 79.78%
Location: SE SW Section 12, T9S, R16E
Duchesne County, Utah
---TIGHT HOLE---
Prospect: Jonah Unit / Monument Butte

No report at report time.

BALCRON MONUMENT FEDERAL #14-12J Operator: EREC/Balcron
BOD WI: 79.78%
Location: SW SW Section 12, T9S, R16E
Duchesne County, Utah
---TIGHT HOLE---
Prospect: Jonah Unit/Monument Butte

No report at report time.

BALCRON MONUMENT FEDERAL #31-7J Operator: EREC/Balcron
BOD WI: 79.78%
Location: NW NE Section 7, T9S, R17E
Duchesne County, Utah
---TIGHT HOLE---
Prospect: Jonah Unit/Monument Butte Field

No report at report time.

Page 1 of 4

Balcron Oil
DAILY OPERATING REPORT

DATE: 12/10/93

****JONAH UNIT PARTNERS' DAILY REPORT******BALCRON MONUMENT FEDERAL #12-12J**

Operator: EREC/Balcron

BOD WI: 79.78%

Location: SW NW Section 12, T9S, R16E
Duchesne County, Utah

Prospect: Jonah Unit / Monument Butte

---TIGHT HOLE---

12-9-93 Completion

Start unit pumping, 5 SPM, 86" stroke length. Beam pump, Bethlehem C-320-212-86 unit, S/N 30617E-31 3665. Engine - Ajax model E-42 S/N 68203.

DC: \$33,790

BALCRON MONUMENT FEDERAL #24-12J

Operator: EREC/Balcron

BOD WI: 79.78%

Location: SE SW Section 12, T9S, R16E
Duchesne County, Utah

Prospect: Jonah Unit / Monument Butte

---TIGHT HOLE---

12-10-93 TD: 5,700' (0') Day 7

Formation: Green River

Present Operation: RDMO

WO float collar, run 5-1/2" csg, cmt by Western as follows:

Guide shoe .60'

1 jt 5-1/2" 15.5# shoe jt 44.18'

float collar 2.10'

128 jts 5-1/2" 15.5# K-55 csg 5629.34'5676.22'

Landing jt 9.00'

Csg set @ 5685.22'

PSTD 5636.34' 20 centralizers

Cmt by Western with 204 sxs Thrifty lite & tail w/215 sxs 50-50

POZ. Plug down @ 1:30 p.m. 12-9-93. Release rig @ 5:30 p.m. 12-9-

93. Set slips, ND BOP, & clean mud tank.

DC: \$48,035

CC: \$168,393

BALCRON MONUMENT FEDERAL #14-12J

Operator: EREC/Balcron

BOD WI: 79.78%

Location: SW SW Section 12, T9S, R16E
Duchesne County, Utah

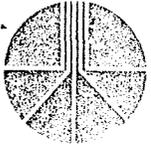
Prospect: Jonah Unit/Monument Butte

---TIGHT HOLE---

12-9-93 Completion

CP - 10 psi. RU Halliburton to frac 4299'-4308' & 4097'-4104' w/sand & tracer refer to treatment report. Shut down on pad, high pressure, call for 500 gallons HCL. Start acid followed by pad refer to treatment report. SWIFN. RD Halliburton.

DC: \$6,037



EQUITABLE RESOURCES
ENERGY COMPANY

BALCRON OIL DIVISION

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



DEC 13 1993

DEPARTMENT OF
ENERGY, OIL & MINING

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

December 10, 1993

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

Gentlemen:

RE: Balcron Monument Federal #24-12J
SE SW Section 12, T9S, R16E
Duchesne County, Utah

Enclosed is our sundry reporting a change in rig for the subject well.

Please feel free to contact me if you need any additional information.

Sincerely,

Molly M. Conrad
Operations Secretary

/mc

Enclosures

cc: State of Utah, Division of Oil, Gas, & Mining

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

1. Type of Well

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)

SE SW Section 12, T9S, R16E
539' ESL, 1777' FWL

5. Lease Designation and Serial No.

U-035521-A

6. If Indian, Allottee or Tribe Name

n/a

7. If Unit or CA, Agreement Designation

Jonah Unit

8. Well Name and No.

Balcron Monument Federal #24-12J

9. API Well No.

43-013-31409

10. Field and Pool, or Exploratory Area

Monument Butte / 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	
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other <u>Change in rig</u>	<input type="checkbox"/> Dispose Water

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

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

Operator will be using a completion rig to complete this well.

RECEIVED

DEC 13 1993

DIVISION OF
OIL, GAS & MINING

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

Signed Bobbie Schuman
Bobbie Schuman

Coordinator of Environmental
and Regulatory Affairs

Date 12-10-93

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

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

KTECH

**WELL SITE GEOLOGY
WELL LOGGING
CONSULTING**

CONFIDENTIAL
Final Report

BALCRON OIL *43-013-31409*
BALCRON MONUMENT FEDERAL #24-12-J
(SE/SW) SECTION 12, T9S, R16E
DUCHESNE COUNTY, UTAH

MICROFICHE

KTECH

GEOLOGY, MUD LOGGING
CONSULTING

RECEIVED

DEC 13 1993

DIVISION OF
OIL, GAS & MINING

December 8, 1993

Steve VanDelinder
Balcron Oil
P.O. Box 21017
Billings, MT 59104

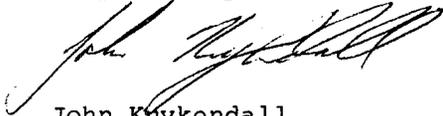
Mr. VanDelinder:

Enclosed is the final log for your BALCRON MONUMENT FEDERAL #24-12-J well, located in Section 12, T19S, R16E of Duchesne Co., Utah.

I appreciated the opportunity to serve you. If I can be of any further assistance in the final evaluation of the Green River sands encountered, please feel free to call me.

It would be a pleasure to work with you in the future.

Respectfully



John Kuykendall



KTECH

WELL SITE GEOLOGY - MUD LOGGING

2913 HERMOSA CT., GRAND JUNCTION, COLORADO 81504

MAILING ADDRESS: P.O. BOX 590, CLIFTON, COLORADO 81520 • (303) 241-9351

COMPANY BALCRON OIL

WELL NO. BALCRON MONUMENT FEDERAL #24-12-J

LOCATION 539' FSL, 1777' FWL, (SE/SW), SECTION 12, T9S, R16E, DUCHESNE Co., UTAH.

ZONE OF INTEREST 1 FORMATION GREEN RIVER

INTERVAL: FROM 2647' TO 2657'

DRILL RATE: ABV 1.2 MIN/FT THRU 1.3 MIN/FT BELOW 1.1 MIN/FT

MUD GAS-CHROMATOGRAPH

	TOTAL	C1	C2	C3	C4	C5	OTHER
BEFORE	30	70	9	2	tr		
DURING	600	1600	170	25	6		
AFTER	510	1100	110	22	5		

TYPE GAS INCREASE: GRADUAL SHARP HOLE CONDITIONS: WASHED FAIR IN GUAGE

GAS VARIATION WITHIN ZONE: STEADY ERRATIC INCREASING DECREASING

FLUO: MINERAL NONE POOR FAIR GOOD EVEN SPOTTY

FLUO COLOR: _____ % IN SHOW LITHOLOGY _____

CUT: NONE CRUSH POOR FAIR GOOD STREAMING: SLOW MOD FAST

CUT COLOR: _____

STAIN: NONE POOR FAIR LIVE DEAD RESIDUE EVEN SPOTTY LT DK

POROSITY: POOR FAIR GOOD KIND INTERGRANULAR, FAIR IP

LITHOLOGY SS lt-mgy, tr s&p, glsy, fgr, mgr ip, ang-rnd, calc, fri-frn, tt

SAMPLE QUALITY FAIR

REMARKS NSOFC. RELATED GAS INCREASE FROM 2675' TO 2705', 1.3 MIN/FT, .6 MIN/FT - 1.0 MIN/FT, 510u-690u-630u

SS vf-fgr, occ mgr, uncon. SL YEL FLUOR GOOD STRMG CUT. HOLE MAKING A LITTLE OIL.

NOTIFIED DENNIS REHRIG @ 12:30 HRS. DATE 12/5/93

ZONE DESCRIBED BY JOHN KUYKENDALL



KTECH

WELL SITE GEOLOGY - MUD LOGGING

2913 HERMOSA CT., GRAND JUNCTION, COLORADO 81504

MAILING ADDRESS: P.O. BOX 590, CLIFTON, COLORADO 81520 • (303) 241-9351

COMPANY BALCRON OIL

WELL NO. BALCRON MONUMENT FEDERAL #24-12-J

LOCATION 539' FSL, 1777' FWL, (SE/SW), SECTION 12, T9S, R16E, DUCHESNE Co., UTAH.

ZONE OF INTEREST 2 FORMATION GREEN RIVER

INTERVAL: FROM 3530' TO 3540'

DRILL RATE: ABV .8 MIN/FT THRU .4 MIN/FT BELOW .7 MIN/FT

MUD GAS-CHROMATOGRAPH

	TOTAL	C1	C2	C3	C4	C5	OTHER
BEFORE	710	1470	90	22	5		
DURING	930	1860	100	27	6		
AFTER	640	1380	90	22	5		

TYPE GAS INCREASE: GRADUAL SHARP HOLE CONDITIONS: WASHED FAIR IN GUAGE

GAS VARIATION WITHIN ZONE: STEADY ERRATIC INCREASING DECREASING

FLUO: MINERAL NONE POOR FAIR GOOD EVEN SPOTTY

FLUO COLOR: VDULL YEL % IN SHOW LITHOLOGY TR

CUT: NONE CRUSH POOR FAIR GOOD STREAMING: SLOW MOD FAST

CUT COLOR: YEL

STAIN: NONE POOR FAIR LIVE DEAD RESIDUE EVEN SPOTTY LT DK

POROSITY: POOR FAIR GOOD KIND INTERGRANULAR, FAIR - GOOD

LITHOLOGY SS clr,ltgy,vf-mgr,sbang-rnd,calc,fri-frm & uncon

SAMPLE QUALITY GOOD

REMARKS TR MBRN SPOTTY STN, TR VDULL YEL FLUOR, FAIR FAST STRM CUT IP, FAST STRM CUT DRY.

NOTIFIED DENNIS REHRIG @ 06:30 HRS. DATE 12/6/93

ZONE DESCRIBED BY JOHN KUYKENDALL



KTECH

WELL SITE GEOLOGY - MUD LOGGING

2913 HERMOSA CT., GRAND JUNCTION, COLORADO 81504

MAILING ADDRESS: P.O. BOX 590, CLIFTON, COLORADO 81520 • (303) 241-9351

COMPANY BALCRON OIL

WELL NO. BALCRON MONUMENT FEDERAL #24-12-J

LOCATION 539' FSL, 1777' FWL, (SE/SW), SECTION 12, T9S, R16E, DUCHESNE Co., UTAH.

ZONE OF INTEREST 3 FORMATION GREEN RIVER Y-3

INTERVAL: FROM 4106' TO 4120'

DRILL RATE: ABV 1 MIN/FT THRU .5 MIN/FT BELOW 1 MIN/FT

MUD GAS-CHROMATOGRAPH

	TOTAL	C1	C2	C3	C4	C5	OTHER
BEFORE	380	600	60	15	5		
DURING	380	600	60	15	5		
AFTER	380	600	60	15	5		

TYPE GAS INCREASE: GRADUAL SHARP HOLE CONDITIONS: WASHED FAIR IN GUAGE

GAS VARIATION WITHIN ZONE: STEADY ERRATIC INCREASING DECREASING

FLUO: MINERAL NONE POOR FAIR GOOD EVEN SPOTTY

FLUO COLOR: DULL YEL % IN SHOW LITHOLOGY 50%

CUT: NONE CRUSH POOR FAIR GOOD STREAMING: SLOW MOD FAST

CUT COLOR: YEL

STAIN: NONE POOR FAIR LIVE DEAD RESIDUE EVEN SPOTTY LT DK

POROSITY: POOR FAIR GOOD KIND INTERGRANULAR

LITHOLOGY SS qtz, ltbrn-brn, clr, trns, g stn, sbang-sbrnd, calc

SAMPLE QUALITY GOOD

REMARKS 50% DULL YEL FLUOR, LTBRN-BRN STN, GOOD FAST STRM CUT, GAS INCREASE PROBABLY MASKED BY

GAS SAND FROM ABOVE.

NOTIFIED DENNIS REHRIG @ 16:00 HRS. DATE 12/6/93

ZONE DESCRIBED BY JOHN KUYKENDALL



KTECH

WELL SITE GEOLOGY - MUD LOGGING

2913 HERMOSA CT., GRAND JUNCTION, COLORADO 81504

MAILING ADDRESS: P.O. BOX 590, CLIFTON, COLORADO 81520 • (303) 241-9351

COMPANY BALCRON OIL

WELL NO. BALCRON MONUMENT FEDERAL #24-12-J

LOCATION 539' FSL, 1777' FWL, (SE/SW), SECTION 12, T9S, R16E, DUCHESNE Co., UTAH.

ZONE OF INTEREST 5 FORMATION GREEN RIVER R-5

INTERVAL: FROM 4724' TO 4736'

DRILL RATE: ABV 1.6 MIN/FT THRU .6 MIN/FT BELOW 1.1 MIN/FT

MUD GAS-CHROMATOGRAPH

	TOTAL	C1	C2	C3	C4	C5	OTHER
BEFORE	360	530	45	10	2		
DURING	410	660	50	12	4		
AFTER	360	530	45	10	2		

TYPE GAS INCREASE: GRADUAL SHARP HOLE CONDITIONS: WASHED FAIR IN GUAGE

GAS VARIATION WITHIN ZONE: STEADY ERRATIC INCREASING DECREASING

FLUO: MINERAL NONE POOR FAIR GOOD EVEN SPOTTY

FLUO COLOR: VDULL YEL % IN SHOW LITHOLOGY 100%

CUT: NONE CRUSH POOR FAIR GOOD STREAMING: SLOW MOD FAST

CUT COLOR: YEL

STAIN: NONE POOR FAIR LIVE DEAD RESIDUE EVEN SPOTTY LT DK

POROSITY: POOR FAIR GOOD KIND INTERGRANULAR, FAIR - GOOD

LITHOLOGY SS lt-dkbrn stn,vfgr,slty ip,calc,fri

SAMPLE QUALITY GOOD

REMARKS LT-DKBRN STN,VDULL YEL FLUOR, GOOD FAST STRM CUT, ASSOC OIL SHOW FROM 4761' TO 4772':

LT-DKBRN OIL STN,VDULL YEL FLUOR, FAIR FAST STRM CUT.

NOTIFIED DENNIS REHRIG @ 07:00 HRS. DATE 12/7/93

ZONE DESCRIBED BY JOHN KUYKENDALL



KTECH

WELL SITE GEOLOGY - MUD LOGGING

2913 HERMOSA CT., GRAND JUNCTION, COLORADO 81504

MAILING ADDRESS: P.O. BOX 590, CLIFTON, COLORADO 81520 • (303) 241-9351

COMPANY BALCRON OIL

WELL NO. BALCRON MONUMENT FEDERAL #24-12-J

LOCATION 539' FSL, 1777' FWL, (SE/SW), SECTION 12, T9S, R16E, DUCHESNE Co., UTAH.

ZONE OF INTEREST 6 FORMATION GREEN RIVER B-1

INTERVAL: FROM 5462' TO 5483'

DRILL RATE: ABV 1.0 MIN/FT THRU .7 MIN/FT BELOW .8 MIN/FT

MUD GAS-CHROMATOGRAPH

	TOTAL	C1	C2	C3	C4	C5	OTHER
BEFORE	200	600	25	9	2		
DURING	160	260	22	6	1		
AFTER	180	510	25	9	2		

TYPE GAS INCREASE: GRADUAL SHARP HOLE CONDITIONS: WASHED FAIR IN GUAGE

GAS VARIATION WITHIN ZONE: STEADY ERRATIC INCREASING DECREASING

FLUO: MINERAL NONE POOR FAIR GOOD EVEN SPOTTY

FLUO COLOR: DULL YEL % IN SHOW LITHOLOGY 100%

CUT: NONE CRUSH POOR FAIR GOOD STREAMING: SLOW MOD FAST

CUT COLOR: YEL

STAIN: NONE POOR FAIR LIVE DEAD RESIDUE EVEN SPOTTY LT DK

POROSITY: POOR FAIR GOOD KIND INTERGRANULAR

LITHOLOGY SS clr,ltgy,vf-fgr,sbang-rnd,uncon & calc,fri

SAMPLE QUALITY GOOD

REMARKS DKBRN SPOTTY STN, 100% DULL YEL FLUOR, GOOD FAST STRM CUT. GAS ERRATIC DUE TO HOLE LOADING

DECREASE DUE TO THIS.

NOTIFIED DENNIS REHRIG @ 07:00 HRS. DATE 12/8/93

ZONE DESCRIBED BY JOHN KUYKENDALL

KTECH

WELL SITE GEOLOGY - MUD LOGGING
2913 HERMOSA CT., GRAND JUNCTION, CO 81504 • (303) 241-9351

COMPANY BALCRON OIL <i>Cond</i>	LOCATION 539' FSL, 1777' FWL, (SE/SW) SECTION 12, T9S, R16E	DEPTH LOGGED	FROM	TO
WELL <i>43-013-31409 drl</i> BALCRON MONUMENT FEDERAL #24-12-J	COUNTY DUCHESNE	DATE LOGGED	1400'	5700'
FIELD JONAH UNIT	STATE UTAH		12/4/93	12/8/93
ELEVATION 5495' GL (ung) - 5505' KB DRILLING FLUID AIR MIST, SURFACE -		ENGINEERS JOHN KUYKENDALL GEORGE NICHOLS		

	SHALE		DOLOMITE		COAL		
	SANDSTONE		CHERT		ANHY-GYP		
	LIMESTONE		SALT		SILTSTONE		

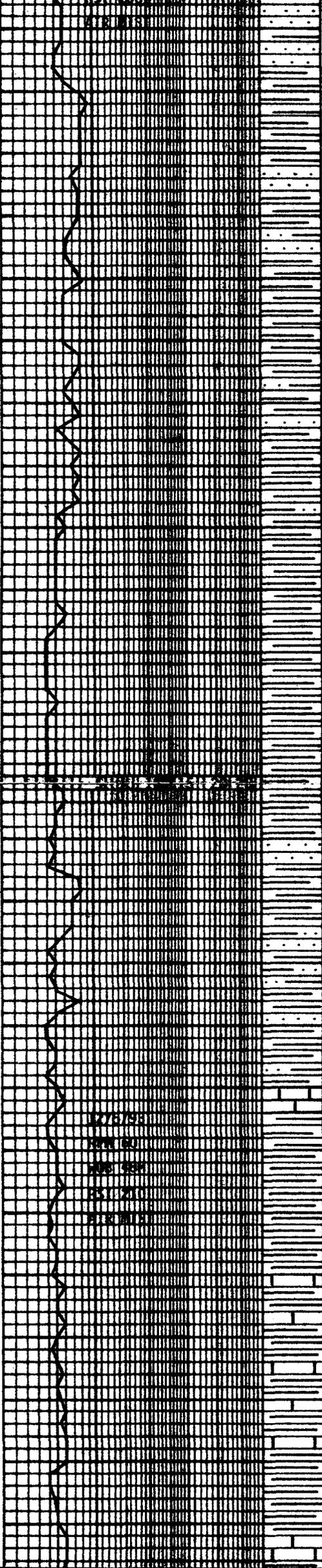
OIL SHOW
 POOR
 FAIR
 GOOD

CORE NO.
 CORE NO.
 DST NO.

O - DEVIATION
S - SHOW REPORT

NB - NEW BIT
RR - RERUN BIT
NR - NO RETURNS
CO - CIRCULATE OUT
NS - NO SAMPLE
TG - TRIP GAS
CG - CONNECTION GAS
DTG - DOWN TIME GAS
LAT - LAGGED AFTER TRIP

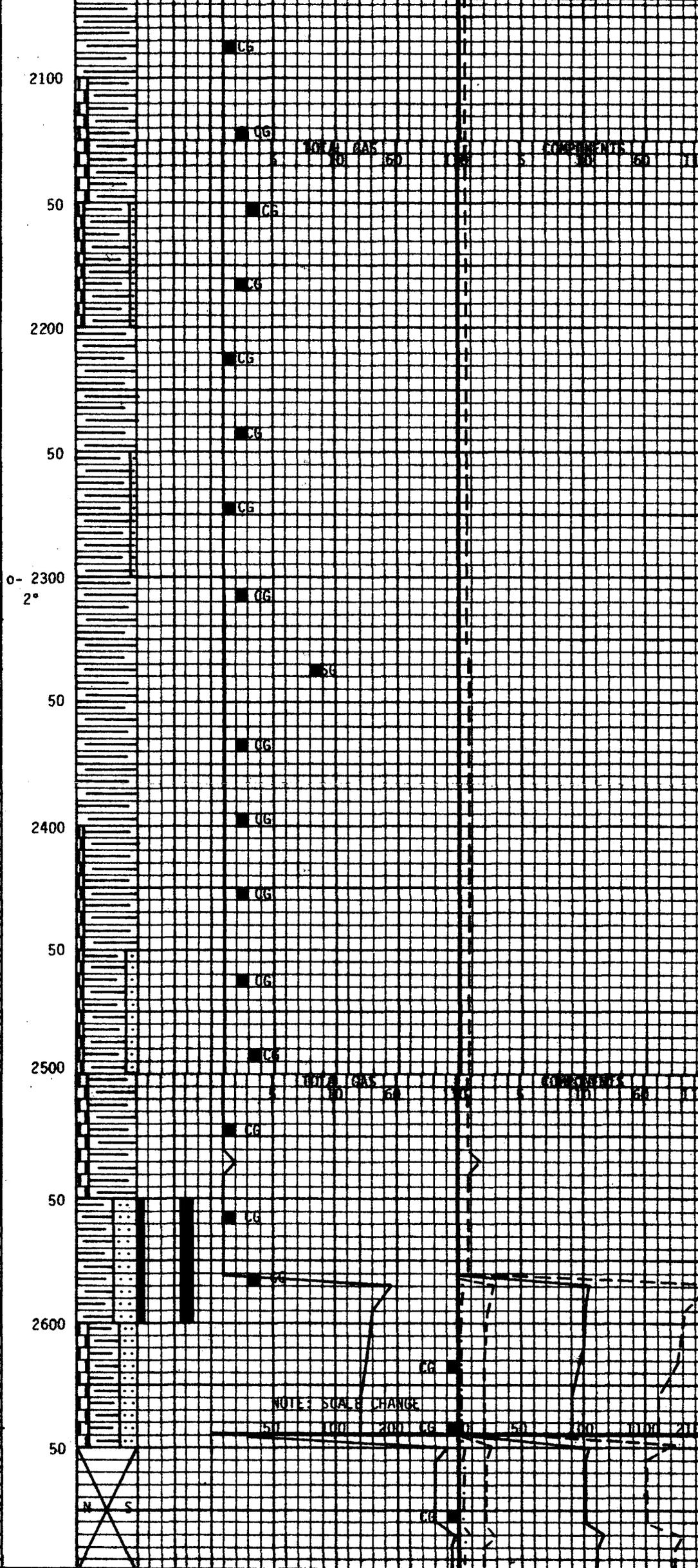
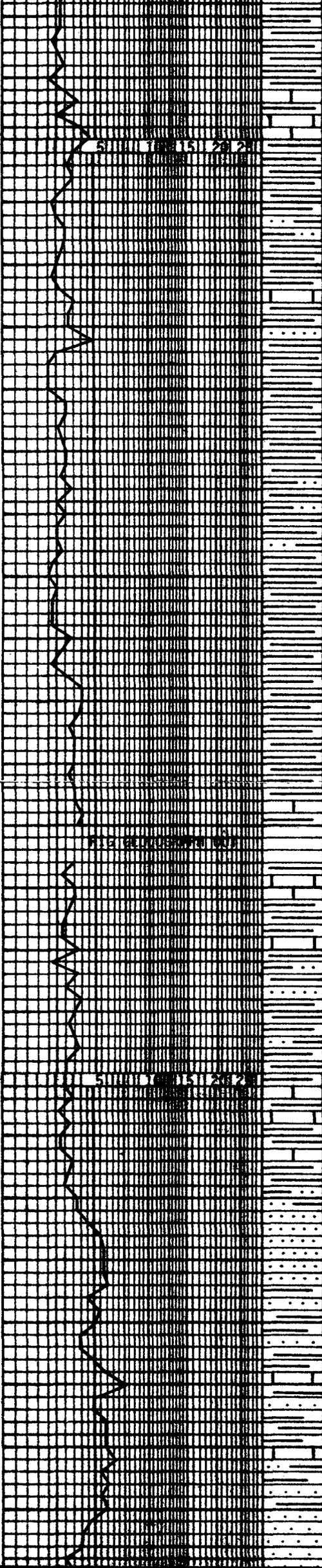
DRILLING RATE IN			INTER- PRETIVE	DEPTH	LITHOLOGY	OIL SHOW				TOTAL GAS & CHROMATOGRAPH HYDROCARBONS IN UNITS					LITHOLOGY DESCRIPTION AND REMARKS		
MIN/FT □	MIN/2 FT □	MIN/5 FT □				SHOW	PORO	TOTAL GAS	METHANE	ETHANE	BUTANE	PROPANE	PENTANE	WT		VIS	WL
5	10	15		1400													LOGGING UNIT #1 ON LOCATION, RIGGED UP & LOGGING 12/4/93
																	SS qtz, ltgy-gy, wh, vf-mgr, wsrtd, m-wcmt, vcalc, sbang-sbrnd, hd, occ grdg to vlmv sltst



50
1500
50
1600
50
1700
50
1800
3/4
50
1900
50
2000
50



LS brn-rdbrn,crs,micxn,hd
SH ltgy-gybrn,lmy,mhd-hd,calc
SS qtz,ltgy-gy,wh,vf-mg,wsrtd,
m-wcmt,vcalc,spang-sbrnd,hd,occ
grdg to vlmv sst
SH ltbrn-brn,mrly,grdg to mrst
lmy ip,calc,mhd-hd,DUL YEL FLUOR
NO CUT
SH ltbrn-brn,mrly,grdg to mrst,
lmy ip,calc,mhd-hd,incr lmy,DUL
YEL FLUOR,NO CUT
SH ltbrn-brn,gydg to mrst,mhd,
vcalc,tr vfg ss,DUL YEL FLOUR,
NO CUT
SH ltbrn-brn,gybrn-gy,sbplty-
pty,brit-mhd,grdg to mrst,calc
DUL YEL FLOUR, NO CUT
SH ltbrn-brn,gybrn-gy,sbplty-
pty,mhd-hd,grdg to mrst,calc
tr pyr,DUL YEL FLOUR, NO CUT
SH ltbrn-brn,spinty-pty,occ
sb blk,grdg to mrst,calc
tr SS vfg,lmy
SH ltbrn-brn,spinty-pty,occ sb
blk,grdg to marly ls,
SS qtz,gybrn,wh,vf-fgr,wsrtd,
mhd,sbang-sbrnd,calc
SH ltbrn-brn,spinty-pty,grdg
to marly ls
LS crm,ltbrn,mic-cryptxn,slty
ip,DULL YELL FLUOR, NO CUT
SH brn,ltbrn,gybrn,grdg to lmy
mrst,pty-sbblk,m hd,vcalc,
DULL YEL FLUOR, NO CUT
tr LS, SS
SH lt-mbrn,mrdbrn,glcy,crypt-
micxn,lmy,blk,frm-hd,grdg to
mrst,DULL YEL FLUOR, NO CUT
LS mrdbrn,glcy,grg,crypt-micxn
blk,frm-hd
SH lt-mbrn,glcy ip,micxn,tr
pyr spcs,calc,blk,frm-hd,grdg
to mrst



SH lt-mrdbrn, lt-mbrn, glsy, crypt-
xln, lmy, blk, frm-hd

LS mrdbrn, glsy, cryptxln, blk,
frm-hd

SS ltgy, clr, tr s&p, glsy, vfgr,
sbang-rnd, calc, frm, tt

SH mbrn, lt-mrdbrn, glsy, crypt-
micxln ip, tr pyr spcs, calc-lmy
blk-pty, frm-hd

SS lt-mgy, vglgy, vfgr, sbrnd-rnd,
calc, frm-hd, tt

SH m-dkrdbn, lt-mbrn, mgy ip,
glgy ip, sl bent ip, tr pyr spcs,
calc-lmy, pty-blky, frm-hd

SH lt-mrdbrn, gybrn ip, glgy,
crypt-micxln, calc-lmy, blk, frm-
hd, grdg to mlst

SH m-dkrdbn, glgy, crypt-micxln
tr pyr spcs, calc, lmy ip, blk,
frm-hd, grdg to mlst
LS m-dkrdbn, cryptxln, glgy, dns,
blk, frm-hd

SS ltgy, offwh, vglgy, vfgr-sltgy,
calc, frm-hd, tt, grdg to slst
SH m-dkrdbn, mbrn, glgy, crypt-
micxln, pty-blky, frm-hd, grdg to
mlst, VDULL YEL FLUOR, FAST STRM
CUT IP

LS lt-mbrn, glgy, gran, mic-vfxln
blk, hd

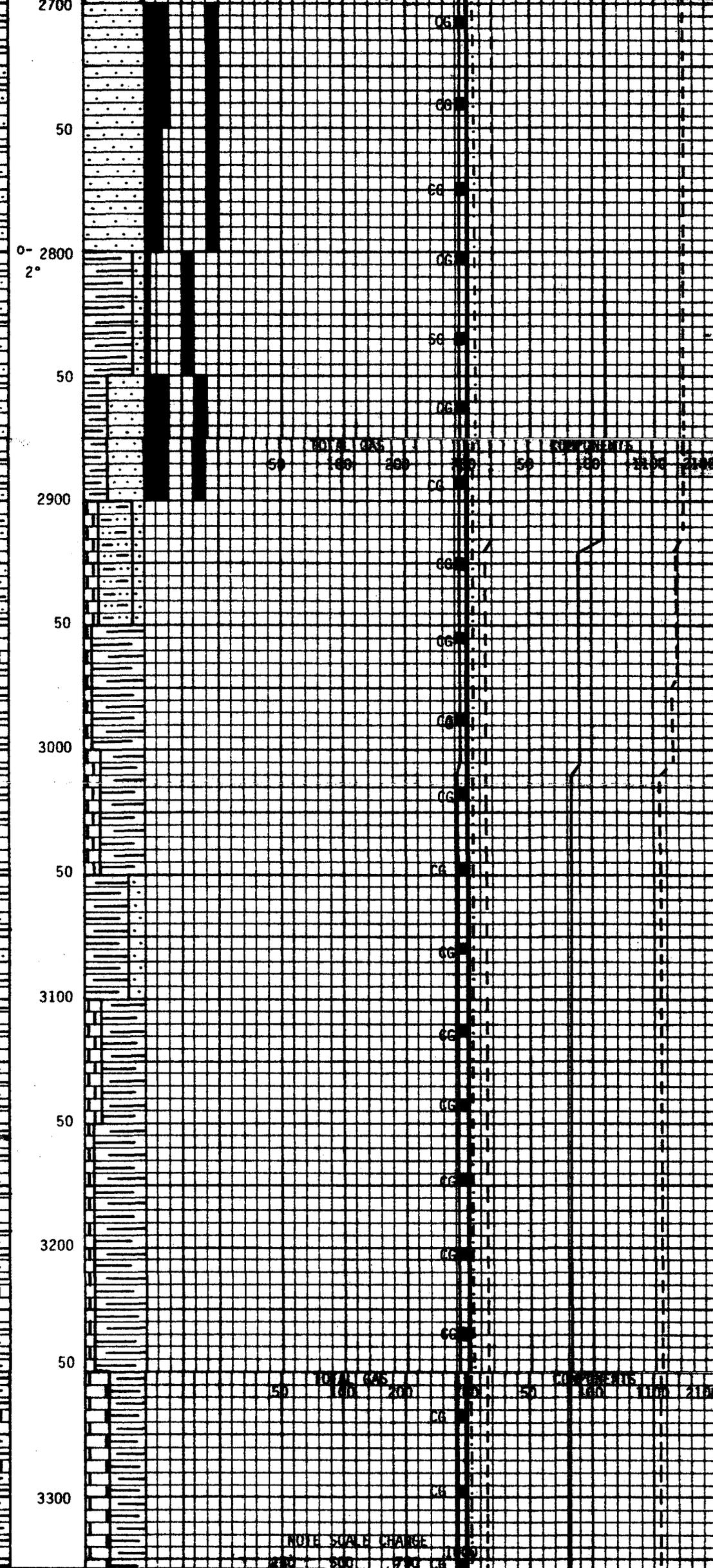
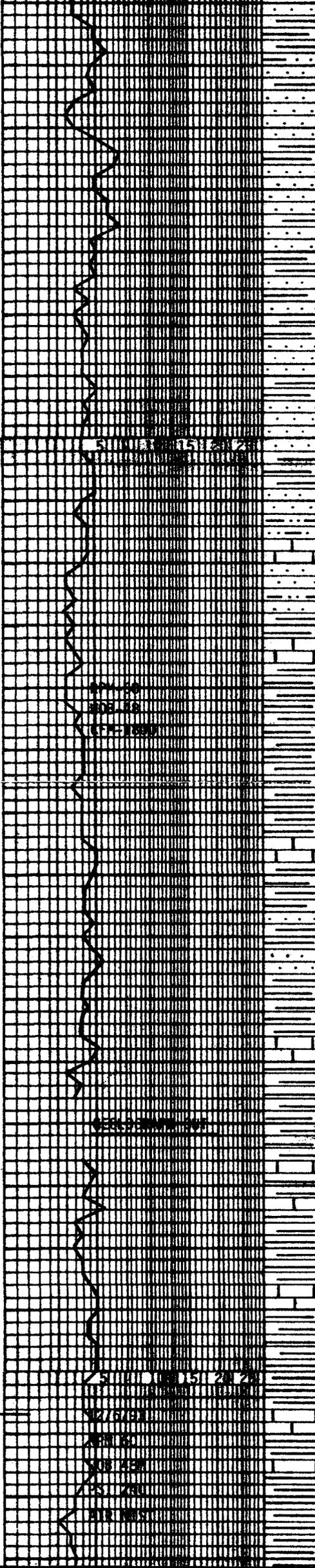
SS ltgy, clr, tr s&p, glgy ip, vf-
fg, sbang-rnd, calc, frm, tt ip, DUL
YEL FLOUR, POOR FAST STRM CUT IP

SS lt-mgy, tr s&p, glgy fg-mg ip
ang-rnd, calc, frm, tt, NSOFC

NOTE: SCALE CHANGE



NO SAMPLE



SS qtz,clr,wh,vf,fg,occ mg,
uncons,ls,shang-sbrnd,pcmnt,sl
calc,sl stn,SL YEL FLOUR,GOOD
STRMG CUT
HOLE MAKING A LITTLE OIL

SS aa,occ chlor,tr ltbrn-brn mrlly
sh w/DUL YEL FLOUR,FAIR STRMG
CUT

SH brn-dkbrn,sbplty-sbblky,mhd
-brit,calc,DULL YEL FLOUR,POOR
FAST STRMG CUT

SS clr,wh,trns,occ vltbrn stn,
vf-fg,wsrtd,pcmnt,calc,SL YEL
FLOUR,GOOD BRI YEL FLASH CUT
SH gygrn,gy-dk,ssbblky,blky,
sity,mhd,calc

SLTST gybrn,gy,sbblky,sndy ip,
occ grdg to vfg ss,calc

LS ltbrn,crm,ltgy,micxln,sity
ip,vcalc,DULL YEL FLOUR,NO CUT

SH dkbrn-brn,occ ltbrn,plty-
sbblky,sity ip,grdg to mrlst,ca
DUL YEL FLOUR,SL CUT

LS ltbrn-erm,micxln-occ crypxln
v calc,hd,tr vfgss,YEL FLOUR,SL
STRMG CUT

SH ltgy-gy,sbblky,sity ip,sft-
mhd,calc,occ grdg to sltst

SS qtz,wh,clr,vfg,wsrtd,p-mcmt
sbang-sbrnd,calc

SH ltbrn,brn,occ dkbrn,com grdg
to mrlst,com oil stn,calc,lm
occ grdg to LS,YELL FLOUR,FAIR
STRMG CUT

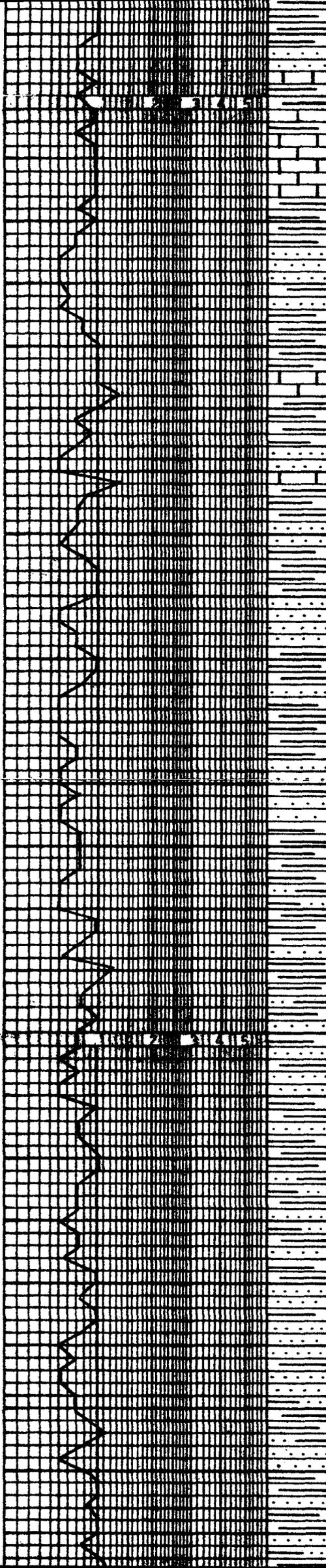
LS wh,crm,micxln,occ crypxln,mhd
occ sft,DULL YEL FLOUR,FAIR
STRMG CUT

SH ltbrn-brn,ltgy-gy,crm,plty,
-sbblky,calc,com oil stn,sity,
mhd-brit,grdg to mrlst,YEL FLOUR
FAIR STRMG CUT

LS crm,wh,micxln,occ cryptxln,
m hd,calc,DULL YEL FLUOR, POOR
FAST STRMG CUT

SH mbrn,mg,sl bent,sl gisy,tr
pyr spcs,calc,blky-plty,frm-hd

NOTE SCALE CHANGE



3900
20
40
60
80
4000
20
40
80
4100
20
40

TOTAL GAS 250 500 750 1000 50 COMPONENTS 100 1000 2100

SH gybrn,ltgy-gy,blgrn,grn,sb
blky,slty ip,m hd,calc
SS qtz,clr,wh,vf-fgr,m-pcmt,ang-
sbrnd,calc,SL LTBRN STN,DULL YEL
FLUOR, FAST STRM CUT

LS crm,ltbrn,micxn,m hd,DULL
YEL FLUOR, MOD STRM CUT

SH ltgy-gy,sb plty- sb blky,slty,
grdg ta sltst ip,calc

SS qtz,clr,wh,vfgr,ang-sbrnd,
m-pcmt,calc,OCG LTBRN STN,SL
FLUOR,SL CUT

SH ltgy-gy,brn,occ dkbrn,gybrn,
sb blky-sb plty,m hd,calc

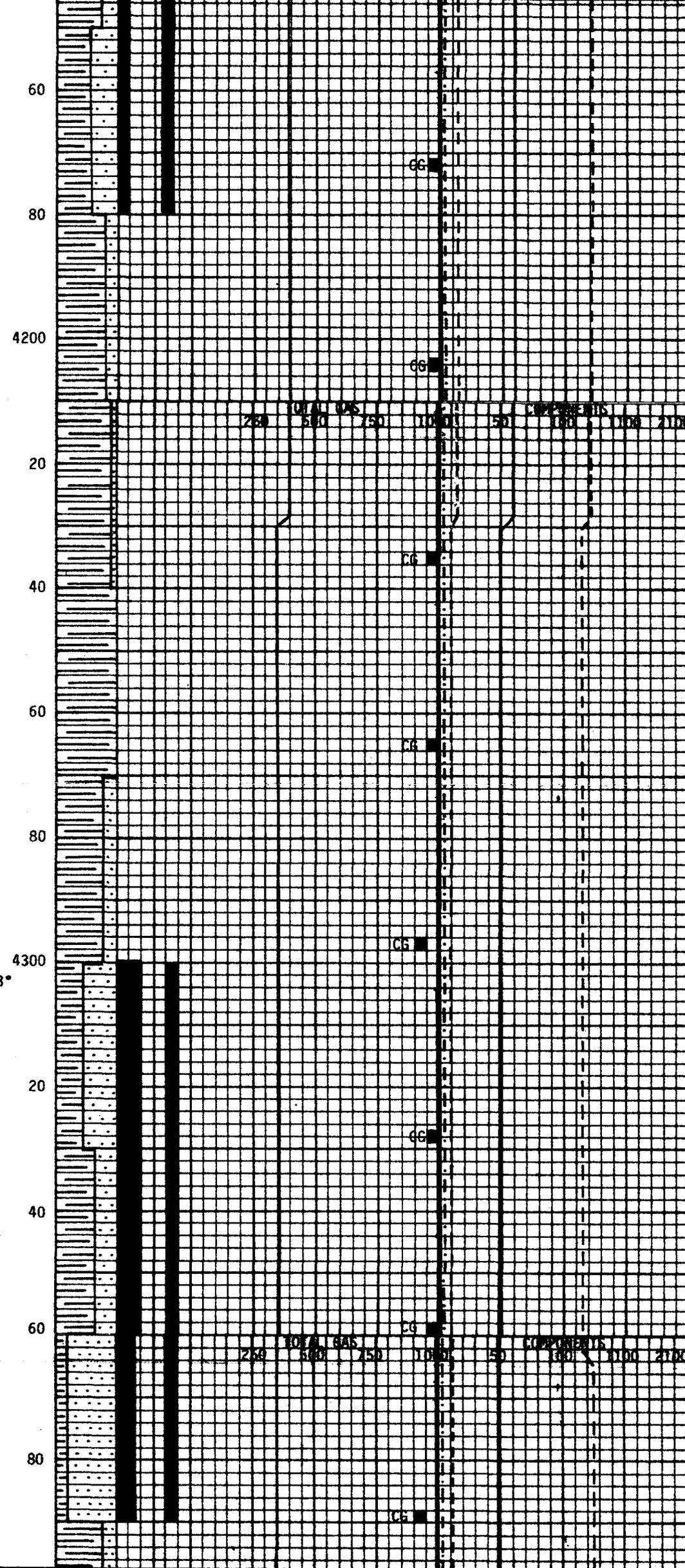
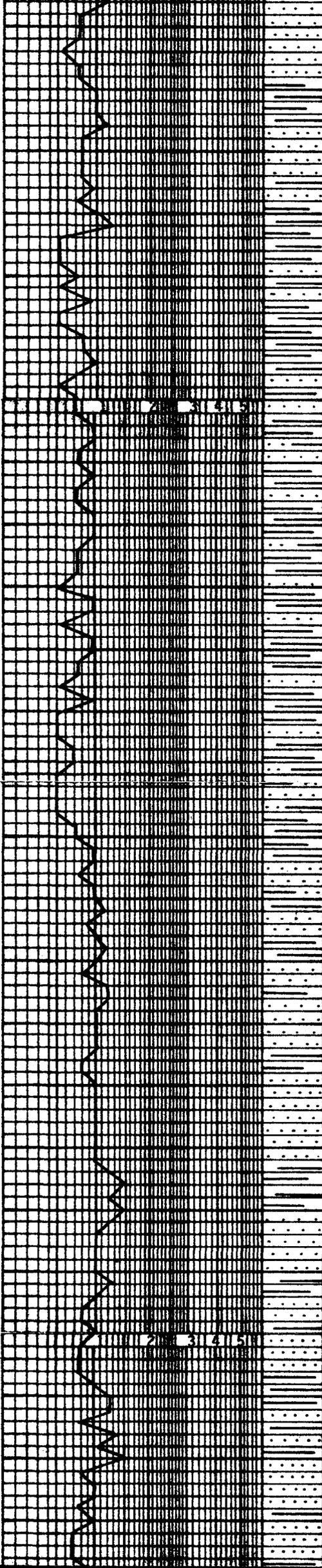
SH ltgy-gy,gygrn,sb blky,slty,
glsy ip,m hd,calc

SS qtz,wh,clr,rr ltbrn stn,vf-
fgr,m-wsrted,p-mcmt,sbang-sbrnd,
calc,SL YEL FLUOR,SL CUT

SS qtz,ltbrn-brn,clr,transl,sbang-
sbrnd,calc,GOOD STN, SL YEL
FLUOR, VGOOD STRM CUT

SH ltgy-gy,sb blky,slty,sndy
ip,calc,grdg ta sltst

CG
CG
CG
CG
CG
CG
CG
CG



SS qtz, wh, ltgy, vfgr, occ grd to
sltst, L TBRN-BRN STN IP, SL YEL
FLUOR, FAST STRM CUT

SH ltgy-gy, brn-dkbrn, sb plty-
sb blk, slty, occ mry, lmy ip,
calc

SH ltgy-gy, gybrn, slty, grd to
sltst, sb blk, calc,
tr LS

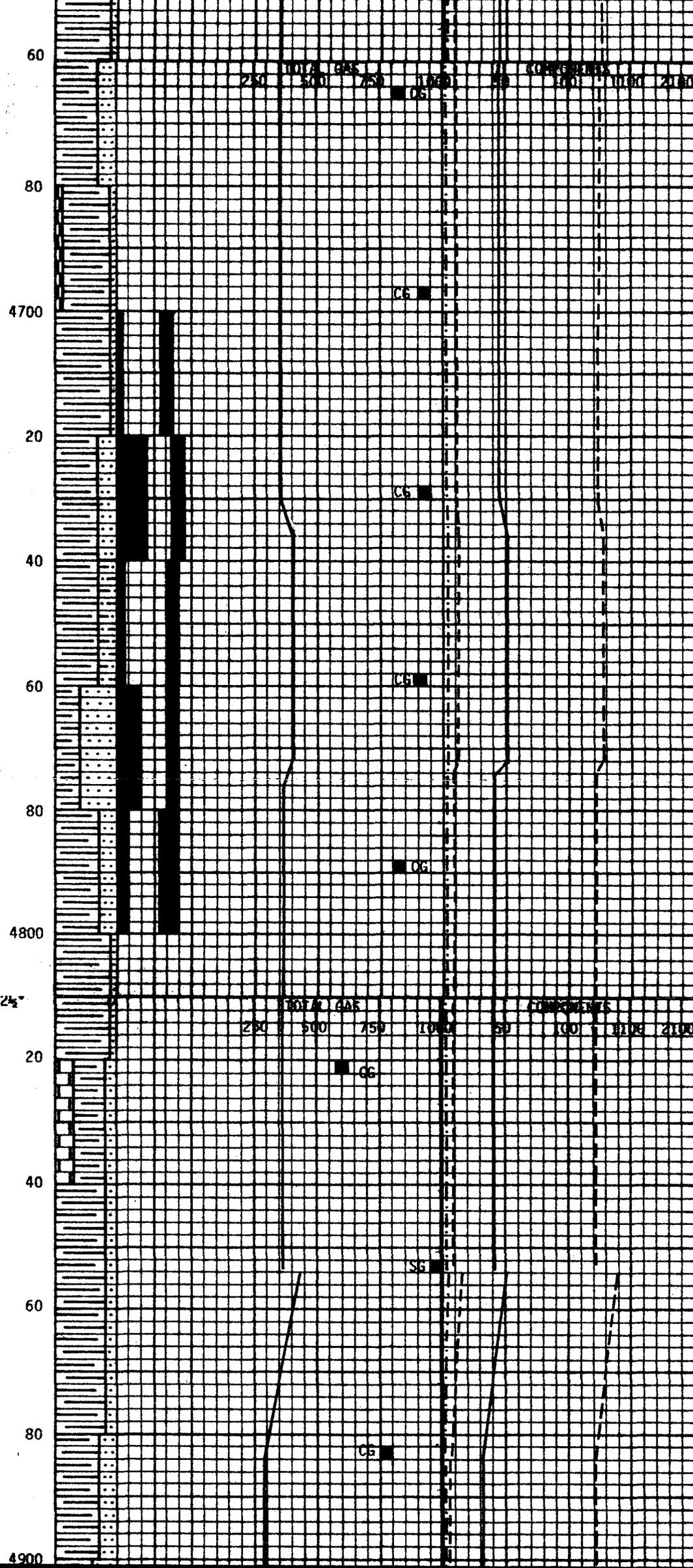
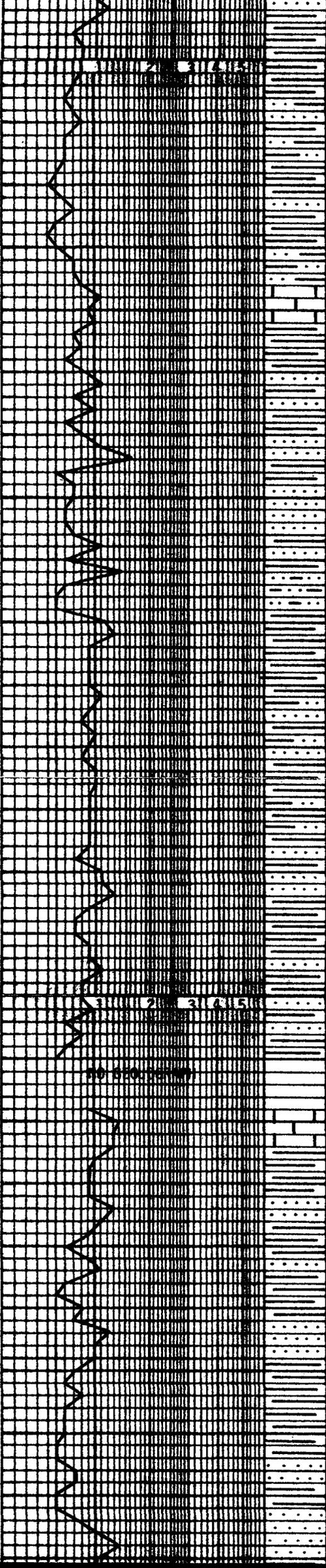
SH ltgy-gy, gybrn, slty, occ grd
to sltst, sb blk, calc
tr SS vfgr
tr LS occ keregen stn

SS qtz, wh, ltgy, vfgr, wsrted, m-pcm
calc, OCC L TBRN STN, VDULL YEL
FLUOR, SL CUT

SS qtz, clr, wh, vf-fgr, wsrted, m-
pcmt, fri, sbrnd, sbang, SL L TBRN
STN IP, DULL YEL FLUOR, FAST
STRM CUT

SH dkbrn, ltbrn, tr sb plty-sb
blk, lmy ip, calc, m hd

SS qtz, clr, wh, ltgy, vf-fgr, m-
wsrted, m-p cmt, sbang-sbrnd, calc,
fri, DULL YEL FLUOR, FAST STRM
CUT



SS lt-mgy, glsy, vfgr, slty, calc, fri-frm, tt, grdg to sltst

SH lt-mgrngy, mgy, tr pyr spcs, sl bent, calc, plty-blky, frm

SS ltgy, clr, glsy, vfgr, sbrnd-rnd calc, fri-frm, tt

SH mgy, mgrngy, mbrn, tr pyr spcs sl bent ip, calc, plty-blky, frm

LS lterm, mbrn, clas, cryptxln, blky, frm

SH lt-mgrngy, lt-mgy, sl bent, calc, plty-blky, frm

SS ltgy, clr, sl, glsy, vfgr, sbang-rnd, calc, fri-frm, BRN STN IP, VDULL YEL FLUOR, POOR FAST STRM CUT IP

SS ltgy, clr, vfgr, slty ip, calc, fri, grdg to sltst, ABNT BRN STN, VDULL YEL FLUOR, GOOD FAST STRM CUT

SLTST ltgy, clr, vfgr ip, calc, fri-frm, BRN STN IP, VDULL YEL FLUOR GOOD FAST STRM CUT

SH lt-mgy, sl bent, tr pyr spcs, calc, plty-blky, frm

SS clr, vfgr, sbrnd-rnd, uncon, ABNT BRN STN, VDULL YEL FLUOR, FAIR FAST STRM CUT

SH lt-mgy, mbrn ip, mgrngy ip, sl bent, calc, plty-blky, frm-hd

SS ltgy, clr, glsy, vfgr-slty, sbrnd-rnd, calc, fri-frm, tt, DKBRN STN IP, VDULL YEL FLUOR, FAIR FAST STRM CUT IP

SH mbrn, lt-mgy, buf, tr pyr, spcs calc, plty-blky, frm

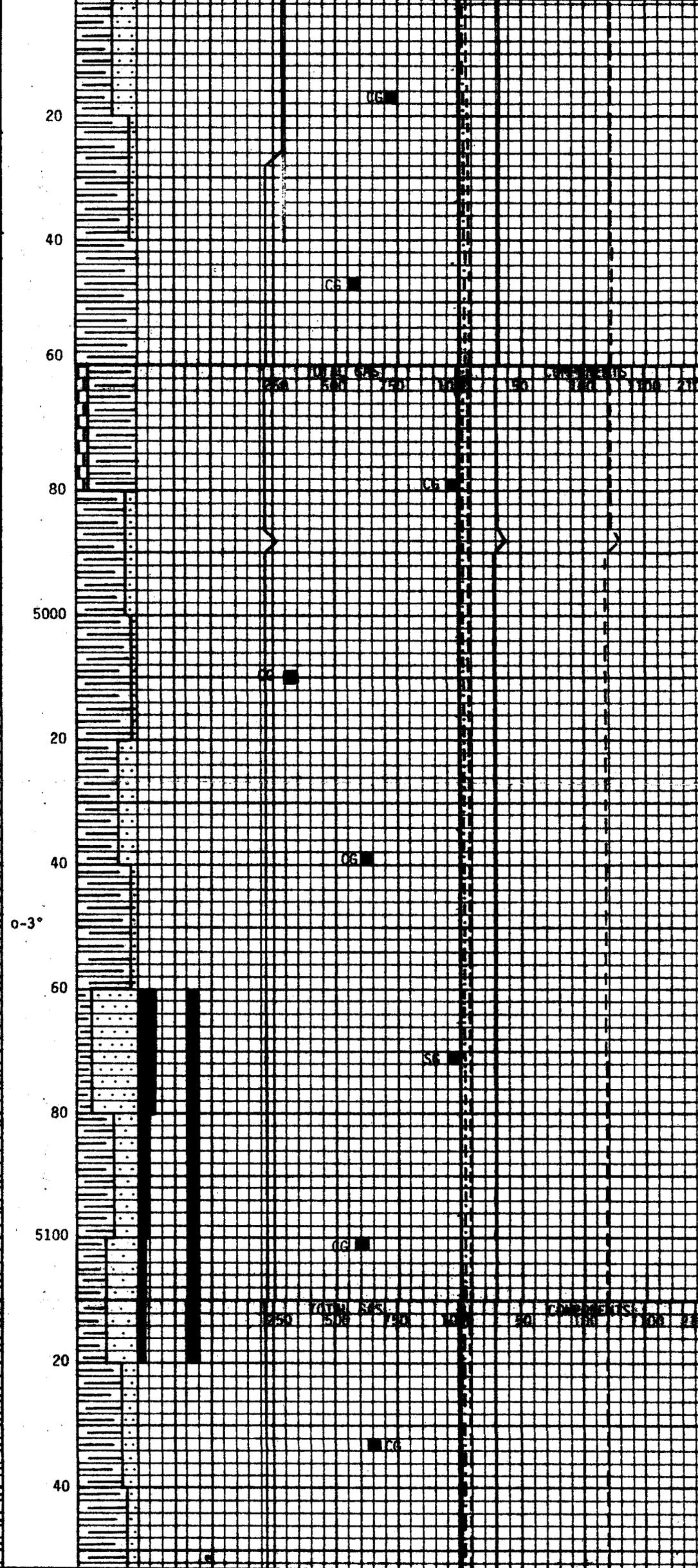
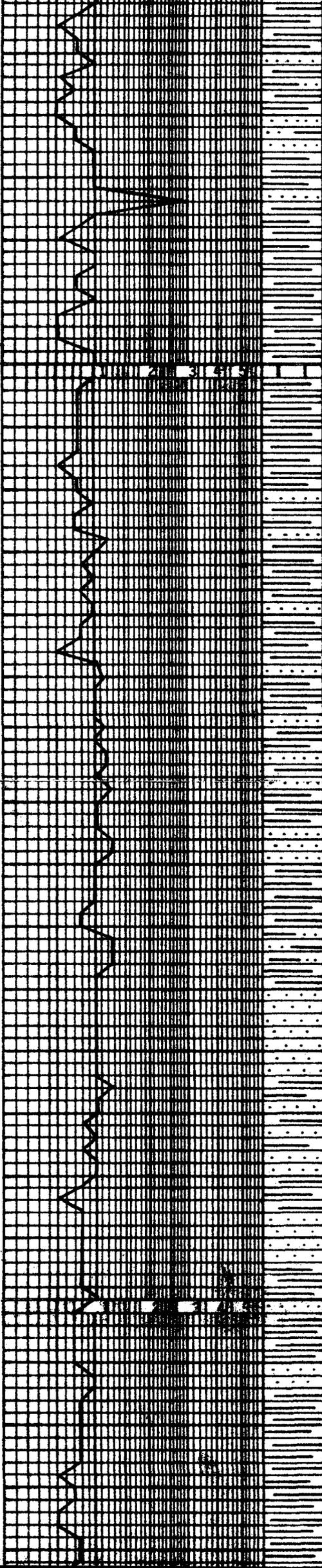
LS lt-mbrn, crypxln-mixxln, plty, blky, frm

SS ltgy, clr, glsy, vfg, slty, sbang-sbrnd, calc, fri-frm, tt, DULL YEL FLUOR, VSL CUT

SH lt-mgy, mbrn, sl bent, tr pyr spcs calc, plty-blky, frm

SS ltgy, clr, glsy, tr s&p, vfg, slty calc, fri-frm tt ip, grdg to sltst

SH lt-mgy, mbrn, plty-blky, calc frm-hd



SS Qtz, wh, clr, vfg, wsrtd, m-pcmt
 rr ltbrn stn, RR DULL YEL FLUOR
 VSL FAST STRMNG CUT

SH ltgy-gy, brn-gybrn, occ dkbrn
 sblky-occ sbply, slty, calc, sl
 carb ip

LS ltbrn, crm, crypxln-micxln, mhd

SH dkbrn-brn, ltgy-gy, gybrn,
 sbply-pty, carb, slty, calc

SS Qtz, wh, ltgy-gy, clr, vfg, wsrtd
 tt, calc

SH brn, ltgy-gy, sbply-sbply,
 slty, grdg to sltst ip, calc, frm

SS Qtz, wh, ltgy, clr, vfg, tt, wsrtd
 m-wcmt, calc, ang-sbrnd, grdg to
 sltst

SH ltgy-gy, sbply, slty, grdg to
 sltst, calc, sndy ip, mhd-frm

SS Qtz, clr, wh, glsy, vf-rr fg,
 wsrtd, p-mcmt, calc, ltbrn stn ip
 VSL DUL YEL FLUOR, FAIR STRMNG
 CUT

SH ltgy-gy, sbply-sbply, slty,
 grdg to slts, calc

SS Qtz, clr, wh, occ ltbrn stn,
 msrtd, mcmt, vfg, grdg to sltst,
 VSL DUL YEL FLUOR, SL STRMNG CUT

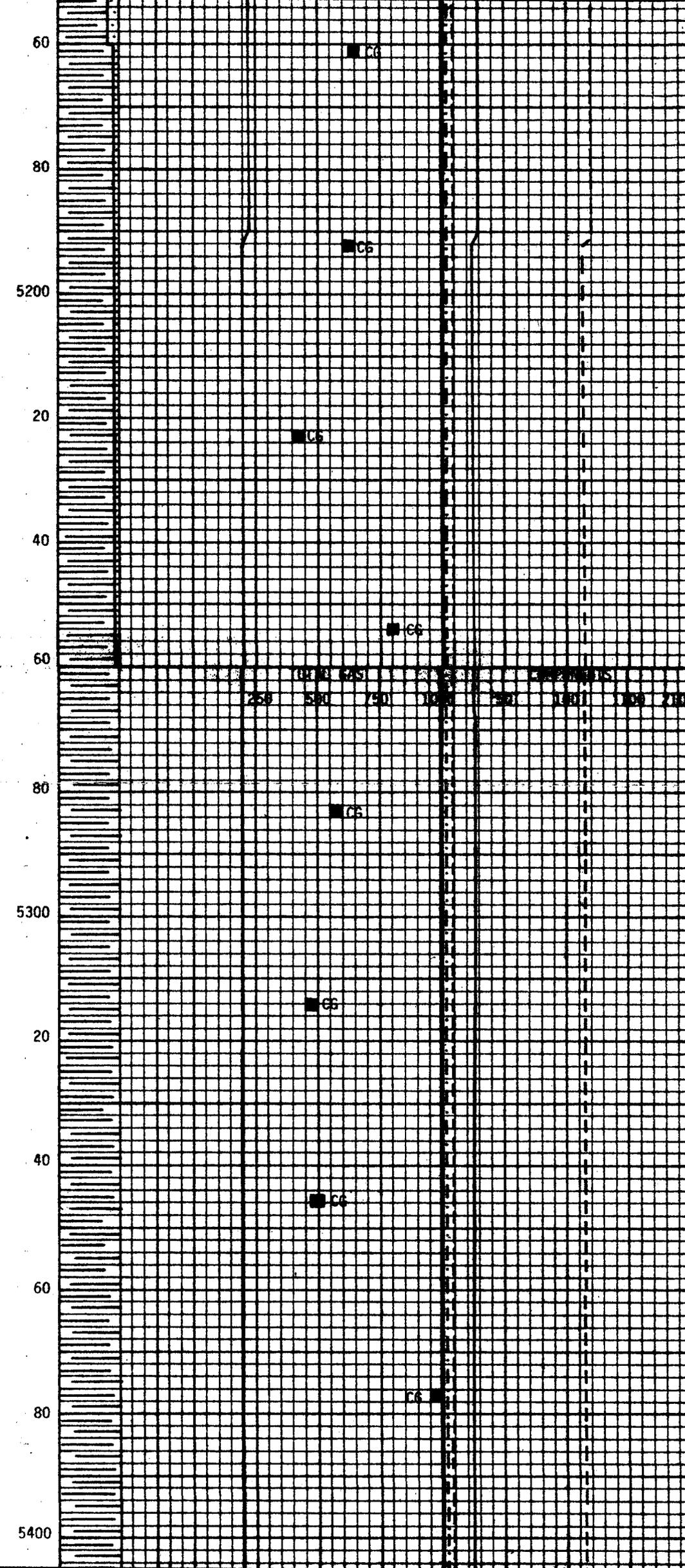
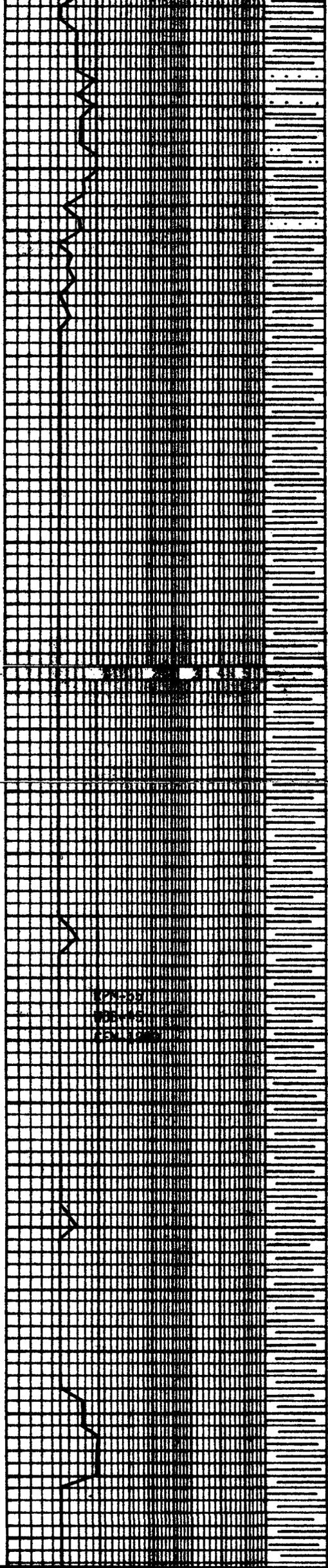
SH ltgy-gy, crm, ltbrn, sbply-
 sbply, lmy ip, grdg to ls, frm-mhd
 vcaci

0-3°

20
40
60
80
5000
20
40
60
80
5100
20
40

TOTAL GAS COMMENTS

TOTAL GAS COMMENTS



SH ltgy-gy,sbbly,slty,grdg to sltst,mhd,calc

SH dkbrn-brnblk,ltgy-gy,carb ip slty,sbbly,calc

SH dkbrn-blkbrn,ltgy-gy,carb ip slty,sbbly,calc

VERY POOR SAMPLES
HOLE UNLOADING CAVINGS

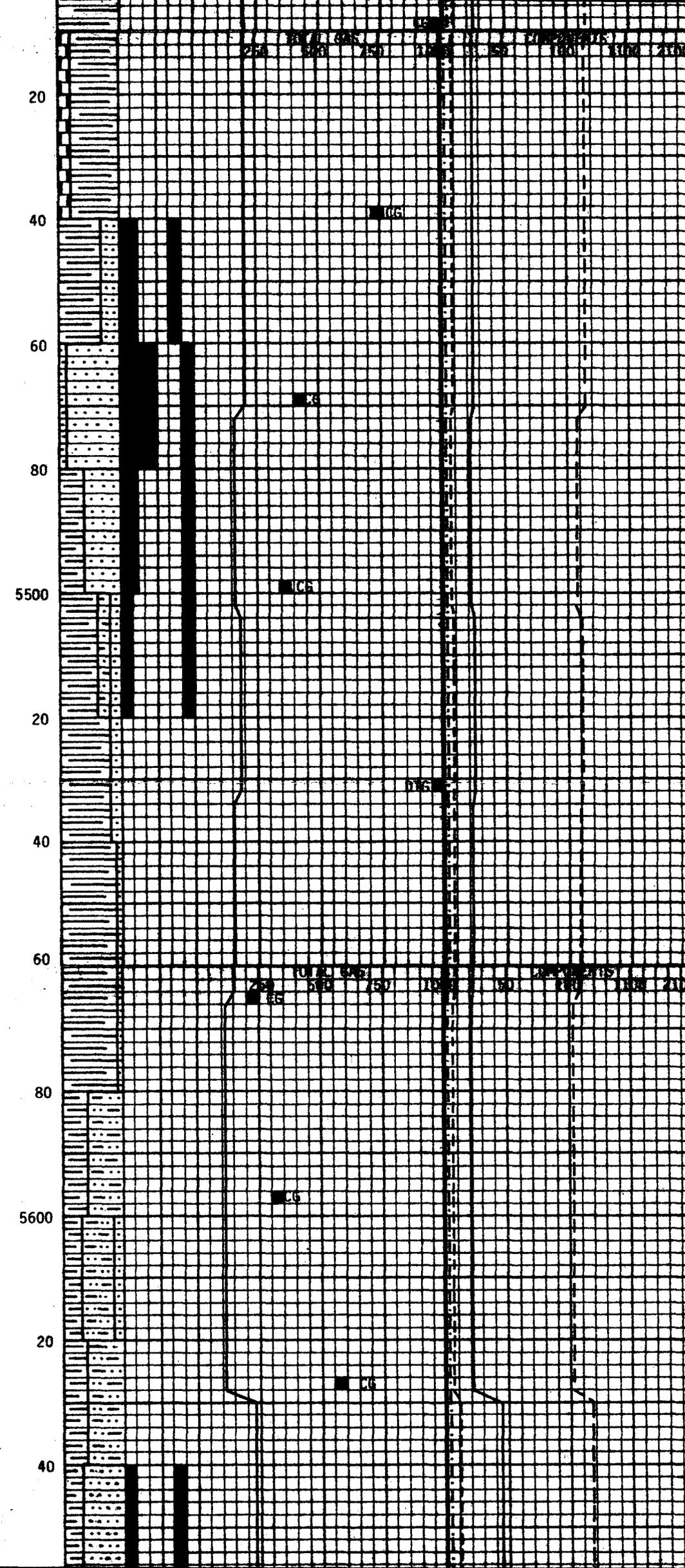
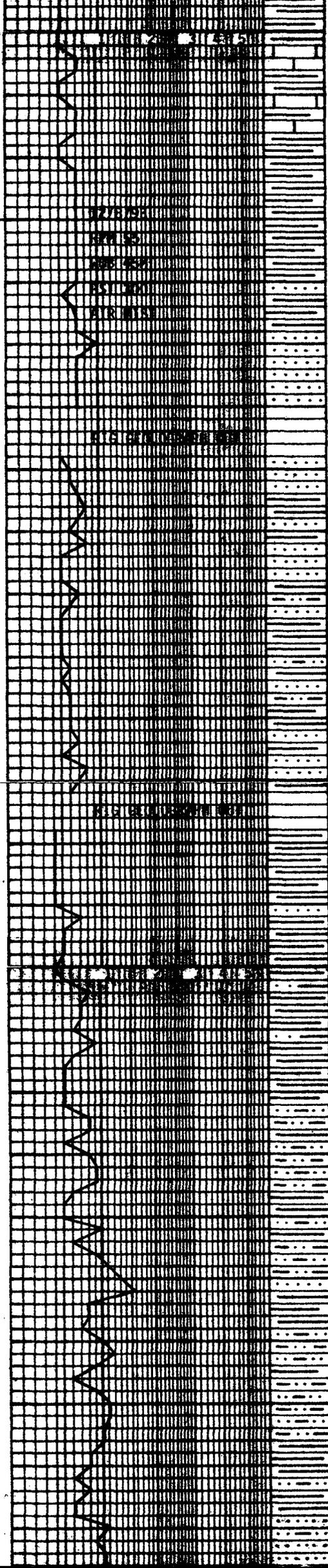
SH dkbrn-gybrn,v pet,com oily, sft-frm,slty,calc

SH dkbrn-brn,ltgy-gy,sbply-sbbly,carb ip,slty,frm-mhd,calc

SH dkbrn,brn,gybrn,sbbly,blk slty,carb,tr pyr,calc

SH dkbrn,brn,gybrn,sbbly,blk slty,carb,tr pyr,calc
HOLE NOT UNLOADING

SH brn-dkbrn,gybrn,gy-ltgy,slty sbbly,sft-frm,occ mhd,carb ip calc,sndy ip



LS crm, cryptxln, plty, m hd

SH brn-dkbrn, plty-sb blk, slty, sndy ip, calc, com oilstn, calc, carb ip, tr pyr

SS qtz, clr, wh, ltgy, vf-fgr, occ mgr, msrtd, p-mcat, sbang-sbrnd, COM BRN OIL STN, DULL YEL FLUOR, FAST STRM CUT

SS clr, ltgy, vf-fgr, sbang-rnd, uncon & calc, fri, DKBRN OIL STN, DULL YEL FLUOR, GOOD FAST STRM CUT

SS clr, f-cgr, ang-sbrnd, uncon, DKBRN SPOTTY OIL STN, DULL YEL FLUOR, FAIR FAST STRM CUT

SH lt-mgy, mbrn, mgrngy, bent, tr pyr spcs, calc, plty-blky, frm SLTST lt-mgy, vfgr, calc, frm, tt, grd to vfgr ss ip

SH mgy, slty ip, calc, blk, frm-hd

SS lt-mgy, ltbrn ip, vgl sy, vfgr, sbrnd-rnd, calc, frm-hd, tt

SH lt-mgy, dkbrn, bent, carb, calc ip, blk, frm, hd ip

SH lt-mgy, dkbrn, sl bent, slty ip tr carb, tr pyr spcs, calc, blk-plty, frm

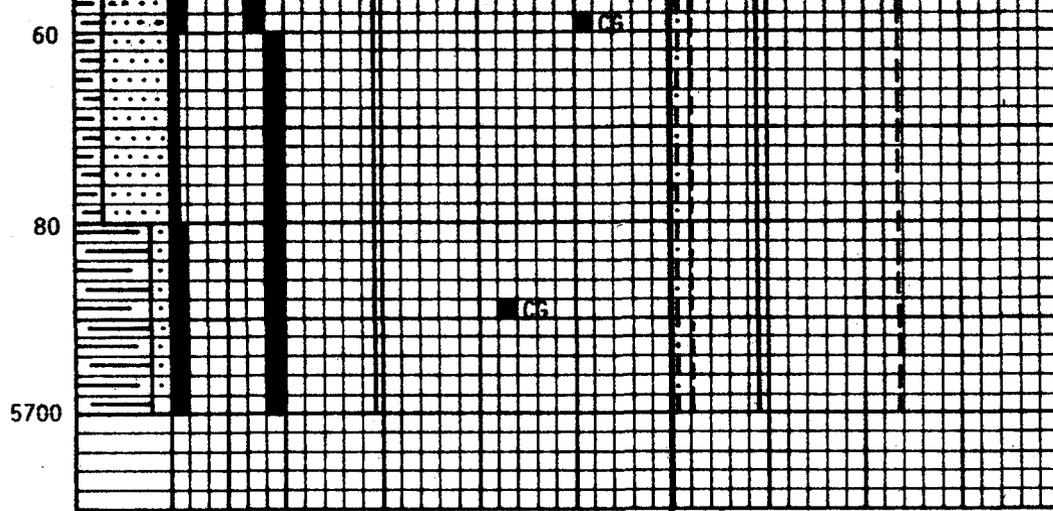
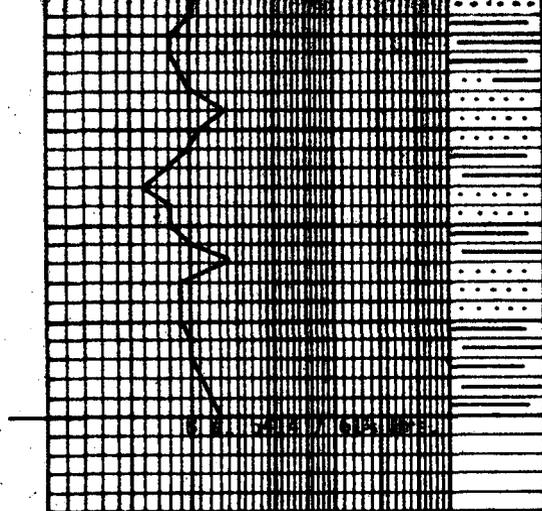
SLTST lt-mgy, glsy, vfgr ip, sbang-rnd, calc, fri-frm, tt, grd to vfgr ss ip

SS clr, f-mgr, sbang-sbrnd, uncon

SH lt-mgy, mbrn ip, sl bent, tr pyr spcs, calc, plty-blky, sft-frm

SLTST ltgy, clr, vfgr ip, sbang-rnd, calc, fri-frm, tt, grd to vfgr ss

SS lt-mgy, clr, tr arg mtx, glsy, f-mgr, sbang-rnd, calc, fri & uncon, 20% YEL FLUOR, SLOW STRM



UNCON, 20% YEL FLUOR, SLW STR
 CUT

SS clr, f-mgr, sbang-rnd, uncon,
 80% YEL FLUOR, SL CUT

SS clr, f-mgr, sbang-rnd, uncon,
 80% YEL FLUOR, FAST CRUSH CUT
 IP

DRILLERS TD 5700'
 LOGGING UNIT #1 RELEASED 12/8/93

RECEIVED
 DEC 13 1993
 DIVISION OF
 OIL, GAS & MINING

KTECH

**WELL SITE GEOLOGY
WELL LOGGING
CONSULTING**

DUPLICATE

CONFIDENTIAL

Final Report

BALCRON OIL
BALCRON MONUMENT FEDERAL #24-12-J
(SE/SW) SECTION 12, T9S, R16E
DUCHESNE COUNTY, UTAH

KTECH

GEOLOGY, MUD LOGGING
CONSULTING

December 8, 1993

Steve VanDelinder
Balcron Oil
P.O. Box 21017
Billings, MT 59104

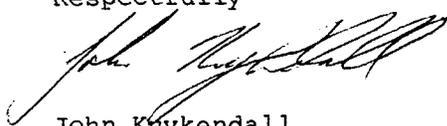
Mr. VanDelinder:

Enclosed is the final log for your BALCRON MONUMENT FEDERAL #24-12-J well, located in Section 12, T19S, R16E of Duchesne Co., Utah.

I appreciated the opportunity to serve you. If I can be of any further assistance in the final evaluation of the Green River sands encountered, please feel free to call me.

It would be a pleasure to work with you in the future.

Respectfully



John Kuykendall

RECEIVED

DEC 13 1993

DIVISION OF
OIL, GAS & MINING



KTECH

WELL SITE GEOLOGY - MUD LOGGING

2913 HERMOSA CT., GRAND JUNCTION, COLORADO 81504

MAILING ADDRESS: P.O. BOX 590, CLIFTON, COLORADO 81520 • (303) 241-9351

COMPANY BALCRON OIL

WELL NO. BALCRON MONUMENT FEDERAL #24-12-J

LOCATION 539' FSL, 1777' FWL, (SE/SW), SECTION 12, T9S, R16E, DUCHESNE Co., UTAH.

ZONE OF INTEREST 1 FORMATION GREEN RIVER

INTERVAL: FROM 2647' TO 2657'

DRILL RATE: ABV 1.2 MIN/FT THRU 1.3 MIN/FT BELOW 1.1 MIN/FT

MUD GAS-CHROMATOGRAPH

	TOTAL	C1	C2	C3	C4	C5	OTHER
BEFORE	30	70	9	2	tr		
DURING	600	1600	170	25	6		
AFTER	510	1100	110	22	5		

TYPE GAS INCREASE: GRADUAL SHARP HOLE CONDITIONS: WASHED FAIR IN GUAGE

GAS VARIATION WITHIN ZONE: STEADY ERRATIC INCREASING DECREASING

FLUO: MINERAL NONE POOR FAIR GOOD EVEN SPOTTY

FLUO COLOR: _____ % IN SHOW LITHOLOGY _____

CUT: NONE CRUSH POOR FAIR GOOD STREAMING: SLOW MOD FAST

CUT COLOR: _____

STAIN: NONE POOR FAIR LIVE DEAD RESIDUE EVEN SPOTTY LT DK

POROSITY: POOR FAIR GOOD KIND INTERGRANULAR, FAIR IP

LITHOLOGY SS lt-mgy, tr s&p, glsy, fgr, mgr ip, ang-rnd, calc, fri-frm, tt

SAMPLE QUALITY FAIR

REMARKS NSOFC. RELATED GAS INCREASE FROM 2675' TO 2705', 1.3 MIN/FT, .6 MIN/FT - 1.0 MIN/FT, 510u-690u-630u

SS vf-fgr, occ mgr, uncon. SL YEL FLUOR GOOD STRMG CUT. HOLE MAKING A LITTLE OIL.

NOTIFIED DENNIS REHRIG @ 12:30 HRS. DATE 12/5/93

ZONE DESCRIBED BY JOHN KUYKENDALL



KTECH

WELL SITE GEOLOGY - MUD LOGGING

2913 HERMOSA CT., GRAND JUNCTION, COLORADO 81504

MAILING ADDRESS: P.O. BOX 590, CLIFTON, COLORADO 81520 • (303) 241-9351

COMPANY BALCRON OIL

WELL NO. BALCRON MONUMENT FEDERAL #24-12-J

LOCATION 539' FSL, 1777' FWL, (SE/SW), SECTION 12, T9S, R16E, DUCHESNE Co., UTAH.

ZONE OF INTEREST 2 FORMATION GREEN RIVER

INTERVAL: FROM 3530' TO 3540'

DRILL RATE: ABV .8 MIN/FT THRU .4 MIN/FT BELOW .7 MIN/FT

MUD GAS-CHROMATOGRAPH

	TOTAL	C1	C2	C3	C4	C5	OTHER
BEFORE	710	1470	90	22	5		
DURING	930	1860	100	27	6		
AFTER	640	1380	90	22	5		

TYPE GAS INCREASE: GRADUAL SHARP HOLE CONDITIONS: WASHED FAIR IN GUAGE

GAS VARIATION WITHIN ZONE: STEADY ERRATIC INCREASING DECREASING

FLUO: MINERAL NONE POOR FAIR GOOD EVEN SPOTTY

FLUO COLOR: VDULL YEL % IN SHOW LITHOLOGY TR

CUT: NONE CRUSH POOR FAIR GOOD STREAMING: SLOW MOD FAST

CUT COLOR: YEL

STAIN: NONE POOR FAIR LIVE DEAD RESIDUE EVEN SPOTTY LT DK

POROSITY: POOR FAIR GOOD KIND INTERGRANULAR, FAIR - GOOD

LITHOLOGY SS clr,ltgy,vf-mgr,sbang-rnd,calc,fri-frm & uncon

SAMPLE QUALITY GOOD

REMARKS TR MBRN SPOTTY STN, TR VDULL YEL FLUOR, FAIR FAST STRM CUT IP, FAST STRM CUT DRY.

NOTIFIED DENNIS REHRIG @ 06:30 HRS. DATE 12/6/93

ZONE DESCRIBED BY JOHN KUYKENDALL



KTECH

WELL SITE GEOLOGY - MUD LOGGING
2913 HERMOSA CT., GRAND JUNCTION, COLORADO 81504
MAILING ADDRESS: P.O. BOX 590, CLIFTON, COLORADO 81520 • (303) 241-9351

COMPANY BALCRON OIL

WELL NO. BALCRON MONUMENT FEDERAL #24-12-J

LOCATION 539' FSL., 1777' FWL, (SE/SW), SECTION 12, T9S, R16E, DUCHESNE Co., UTAH.

ZONE OF INTEREST 3 FORMATION GREEN RIVER Y-3

INTERVAL: FROM 4106' TO 4120'

DRILL RATE: ABV 1 MIN/FT THRU .5 MIN/FT BELOW 1 MIN/FT

MUD GAS-CHROMATOGRAPH

	TOTAL	C1	C2	C3	C4	C5	OTHER
BEFORE	380	600	60	15	5		
DURING	380	600	60	15	5		
AFTER	380	600	60	15	5		

TYPE GAS INCREASE: GRADUAL SHARP HOLE CONDITIONS: WASHED FAIR IN GUAGE

GAS VARIATION WITHIN ZONE: STEADY ERRATIC INCREASING DECREASING

FLUO: MINERAL NONE POOR FAIR GOOD EVEN SPOTTY

FLUO COLOR: DULL YEL % IN SHOW LITHOLOGY 50%

CUT: NONE CRUSH POOR FAIR GOOD STREAMING: SLOW MOD FAST

CUT COLOR: YEL

STAIN: NONE POOR FAIR LIVE DEAD RESIDUE EVEN SPOTTY LT DK

POROSITY: POOR FAIR GOOD KIND INTERGRANULAR

LITHOLOGY SS qtz, ltbrn-brn, clr, trns, g stn, sbang-sbrnd, calc

SAMPLE QUALITY GOOD

REMARKS 50% DULL YEL FLUOR, LTBRN-BRN STN, GOOD FAST STRM CUT, GAS INCREASE PROBABLY MASKED BY

GAS SAND FROM ABOVE.

NOTIFIED DENNIS REHRIG @ 16:00 HRS. DATE 12/6/93

ZONE DESCRIBED BY JOHN KUYKENDALL



KTECH

WELL SITE GEOLOGY - MUD LOGGING
2913 HERMOSA CT., GRAND JUNCTION, COLORADO 81504
MAILING ADDRESS: P.O. BOX 590, CLIFTON, COLORADO 81520 • (303) 241-9351

COMPANY BALCRON OIL

WELL NO. BALCRON MONUMENT FEDERAL #24-12-J

LOCATION 539' FSL, 1777' FWL, (SE/SW), SECTION 12, T9S, R16E, DUCHESNE Co., UTAH.

ZONE OF INTEREST 4 FORMATION GREEN RIVER Y-5

INTERVAL: FROM 4306' TO 4332'

DRILL RATE: ABV 1.3 MIN/FT THRU .7 MIN/FT BELOW 1.5 MIN/FT

MUD GAS-CHROMATOGRAPH

	TOTAL	C1	C2	C3	C4	C5	OTHER
BEFORE	350	400	50	10	3		
DURING	350	400	50	10	3		
AFTER	350	400	50	10	3		

TYPE GAS INCREASE: GRADUAL SHARP HOLE CONDITIONS: WASHED FAIR IN GUAGE

GAS VARIATION WITHIN ZONE: STEADY ERRATIC INCREASING DECREASING

FLUO: MINERAL NONE POOR FAIR GOOD EVEN SPOTTY

FLUO COLOR: DULL YEL % IN SHOW LITHOLOGY 20%

CUT: NONE CRUSH POOR FAIR GOOD STREAMING: SLOW MOD FAST

CUT COLOR: BRI YEL

STAIN: NONE POOR FAIR LIVE DEAD RESIDUE EVEN SPOTTY LT DK

POROSITY: POOR FAIR GOOD KIND INTERGRANULAR

LITHOLOGY SS qtz,clr,wh,vf-far,wsrtd,m-pcmt,fri,sbrnd-sbang,sl ltbrn stn ip

SAMPLE QUALITY GOOD

REMARKS 20% DULL YEL FLUOR, GOOD FAST STRM CUT, LTBRN STN IP. GAS INCREASE MAY HAVE BEEN MASKED

BY GAS SAND ABOVE.

NOTIFIED DENNIS REHRIG @ 20:00 HRS. DATE 12/6/93

ZONE DESCRIBED BY GEORGE NICHOLS



KTECH

WELL SITE GEOLOGY - MUD LOGGING

2913 HERMOSA CT., GRAND JUNCTION, COLORADO 81504

MAILING ADDRESS: P.O. BOX 590, CLIFTON, COLORADO 81520 • (303) 241-9351

COMPANY BALCRON OIL

WELL NO. BALCRON MONUMENT FEDERAL #24-12-J

LOCATION 539' FSL, 1777' FWL, (SE/SW), SECTION 12, T9S, R16E, DUCHESNE Co., UTAH.

ZONE OF INTEREST 5 FORMATION GREEN RIVER R-5

INTERVAL: FROM 4724' TO 4736'

DRILL RATE: ABV 1.6 MIN/FT THRU .6 MIN/FT BELOW 1.1 MIN/FT

MUD GAS-CHROMATOGRAPH

	TOTAL	C1	C2	C3	C4	C5	OTHER
BEFORE	360	530	45	10	2		
DURING	410	660	50	12	4		
AFTER	360	530	45	10	2		

TYPE GAS INCREASE: GRADUAL SHARP HOLE CONDITIONS: WASHED FAIR IN GUAGE

GAS VARIATION WITHIN ZONE: STEADY ERRATIC INCREASING DECREASING

FLUO: MINERAL NONE POOR FAIR GOOD EVEN SPOTTY

FLUO COLOR: VDULL YEL % IN SHOW LITHOLOGY 100%

CUT: NONE CRUSH POOR FAIR GOOD STREAMING: SLOW MOD FAST

CUT COLOR: YEL

STAIN: NONE POOR FAIR LIVE DEAD RESIDUE EVEN SPOTTY LT DK

POROSITY: POOR FAIR GOOD KIND INTERGRANULAR, FAIR - GOOD

LITHOLOGY SS lt-dkbrn stn,vfgr,silty ip,calc,fri

SAMPLE QUALITY GOOD

REMARKS LT-DKBRN STN,VDULL YEL FLUOR, GOOD FAST STRM CUT. ASSOC OIL SHOW FROM 4761' TO 4772':

LT-DKBRN OIL STN,VDULL YEL FLUOR, FAIR FAST STRM CUT.

NOTIFIED DENNIS REHRIG @ 07:00 HRS. DATE 12/7/93

ZONE DESCRIBED BY JOHN KUYKENDALL



**EQUITABLE RESOURCES
 ENERGY COMPANY**
 BALCRON OIL DIVISION
 1001 Lewis Avenue
 P.O. Box 21017
 Billings, MT 59104-1017

TREATMENT REPORT

Well Name Monument Red. 24-12 J Date of Treatment: 12-13-93
 Field Monument Butte County Duchesne State Utah
 Formation/Perforations: Green River 15476-85

Treatment type: HCL BREAK DOWN Total Number of Holes: 18
 Treatment Company: DOWELL

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

TOTAL FLUID PUMPED: 1000 gal. 15% HCL Acid fluid
 _____ gal.

TOTAL SAND VOL. : _____ lbs. 1 sand
 _____ lbs. 1 sand
 _____ lbs. 1 sand
 _____ lbs. 1 bauxite

Flushed well with _____ gal. of 2% KCL WATER
36 ball sealers were pumped. Was ball action seen? HHH HHH HHH yes
 Barrels of Load to Recover 66 BLR.
 Avg. Treating Pressure = 2300 psl, max = 3980 psl, min = 1320 psl.
 Avg. Treating Rate = 4.0 bpm, max = 4.0 bpm, min = 4.0 bpm.
 ISIP = 1150 psl, 5 min. = _____ psl, 10 min. = _____ psl, 15 min = _____ psl.
 Well will be shut in for 30 hrs. before bringing back fluid.

REMARKS: INITIAL BREAK AT 3980 PSI AT 3.6 BPM, BACK TO 1440 PSI AT 4.2 BPM
GORGE BALL OFF, PUMP FOR RATE, 7.5 BPM AT 2500 PSI

Well site Supervisor: Dale Griffin



**EQUITABLE RESOURCES
ENERGY COMPANY**
BALCRON OIL DIVISION
1001 Lewis Avenue
P.O. Box 21017
Birmingham, AL 35201-0117

TREATMENT REPORT

Date of Treatment : 12-14-93

Well Name Monument Fed. 24-125 SEC. 12 TWN. 9S RNG. 16E
Field Monument Butte County Duchene State Utah

Formation/Perforations: Green River / 5476-85

Treatment type: SAND FRAC. Total Number of Holes: 18
Treatment Company: DOWELL

Sand Characteristics

Volume	Fluid	Conc.	Size		Volume
Gal.			PSI	BPM	
500 Gal.	15% HCL		265	3.4	
9000 Gal.	2% KCL WATER	0	2130	20.1	
500 Gal.	"	1#	2040	20.1	16130 #
500 Gal.	"	2#	2020	20.1	16130 #
500 Gal.	"	3#	2020	20.1	16130 #
500 Gal.	"	4#	1936	20.1	16130 #
1000 Gal.	"	5#	1960	20.1	16130 #
1500 Gal.	"	6#	1580	20.1	16130 #
1000 Gal.	"	7#	1515	20.1	16130 #
1347 Gal.	"	0	1760	20.1	1 #

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

TOTAL SAND VOL. : 23350 lbs. 16130 sand
lbs. 1 sand
lbs. 1 sand
lbs. 1 bauxite

Flushed well with 1347 gal. of 2% KCL WATER
ball sealers were pumped. Was ball action seen?

Barrels of Load to Recover 410 BTR.

Avg. Treating Pressure = ~~2000~~ 1950 psl, max = 3315 psl, min = 1515 psl
 Avg. Treating Rate = 20.0 bpm, max = 20.2 bpm, min = 18.6 bpm
 ISIP = psl, 5 min. = 1419 psl, 10 min. = 1369 psl, 15 min. = 1341 psl.

Well will be shut in for 19 hrs. before bringing back fluid.

REMARKS: NO SPEAR HEAD FRAC W/500 GAL, 15% HCL.
5.3 # ON PERFS, AT SCREEN OUT.

Page 1 of 4

Balcron Oil
DAILY OPERATING REPORT

DATE: 12/14/93

****JONAH UNIT PARTNERS' DAILY REPORT******BALCRON MONUMENT FEDERAL #42-1J**

Operator: EREC/Balcron

BOD WI: 79.78%

Location: SE NE Section 1, T9S, 16E
Duchesne County, Utah

Prospect: Jonah Unit / Monument Butte

---TIGHT HOLE---

12-11-93 Completion
Start well pumping, 5 SPM, 82" stroke length. American D-228, S/N
D228-G-3837 (KARST), Engine Ajax E-42, S/N 69880 (KARST).
DC: \$16,223

BALCRON MONUMENT FEDERAL #24-12J

Operator: EREC/Balcron

BOD WI: 79.78%

Location: SE SW Section 12, T9S, R16E
Duchesne County, Utah

Prospect: Jonah Unit / Monument Butte

---TIGHT HOLE---

12-11-93 Completion
MIRU Cannon Well Service Rig #1. NU wellhead, NU BOP. SDFD.
DC: \$1,273

12-13-93 Completion
TIH w/4-3/4" bit, 5-1/2" scraper & 181 jts 2-7/8" tbg, tag PSTD @
5634' KB, circ hole clean w/125 bbls 2% KCL wtr. Pressure test csg
& BOP to 1000 psi - OK. TOOH w/tbg & tools. RU Cutter to perf
5476'-85' KB (2 SPF). RD Cutter. TIH w/RBP, retrieving head, 1 jt
2-7/8" tbg, 5-1/2" packer, SN & 176 jts 2-7/8" tbg. Set BP @
5526' KB, set packer @ 5425' KB, EOT @ 5460' KB. RU Dowell to do
HCL break down refer to treatment report. TOOH w/tbg 64 jts.
SWIFN.
DC: \$6,541

BALCRON MONUMENT FEDERAL #41-14J

Operator: EREC/Balcron

BOD WI: 79.78%

Location: NE NE Section 14, T9S, R16E
Duchesne County, UtahProspect: Jonah Unit / Monument Butte
PTD: 5,700' Green River Oil - Dev.

12-14-93 TD: 3,624' (849') Day 4
Formation: Green River
MW 8.4 VIS 26
Present Operation: Drilling
TIH, blow hole to btm, get back to drilling, survey & drill ahead.
DC: \$13,030 CC: \$79,853

Balcron Oil
DAILY OPERATING REPORT

DATE: 12/15/93

****JONAH UNIT PARTNERS' DAILY REPORT****

BALCRON MONUMENT FEDERAL #24-12J

Operator: EREC/Balcron

BOD WI: 79.78%

Location: SE SW Section 12, T9S, R16E
Duchesne County, Utah

---TIGHT HOLE---

Prospect: Jonah Unit / Monument Butte

12-14-93 Completion

RU Dowell to frac 5476'-85' refer to treatment report. Pressure test surface equipment to 4000 psi - OK. Screen out. RD Dowell. SWIFD.

DC: \$20,220

BALCRON MONUMENT FEDERAL #31-7J

Operator: EREC/Balcron

BOD WI: 79.78%

Location: NW NE Section 7, T9S, R17E
Duchesne County, Utah

---TIGHT HOLE---

Prospect: Jonah Unit/Monument Butte Field

12-14-93 Completion

RU Western to frac 4903'-10', 4914'-17'. Pressure test surface equipment to 4000 psi - OK refer to treatment report. Screen out. RD Western. SWIFD.

DC: \$19,296

BALCRON MONUMENT FEDERAL #41-14J

Operator: EREC/Balcron

BOD WI: 79.78%

Location: NE NE Section 14, T9S, R16E
Duchesne County, Utah

---TIGHT HOLE---

Prospect: Jonah Unit / Monument Butte

12-15-93 TD: 4,602' (978') Day 5

Formation: Yellow Zone

MW 8.4 VIS 26

Present Operation: Drilling

Drill, survey, & clean on rig.

DC: \$13,955

CC: \$93,808

Balcron Oil
DAILY OPERATING REPORT

DATE: 12/16/93

****JONAH UNIT PARTNERS' DAILY REPORT******BALCRON MONUMENT FEDERAL #24-12J**

Operator: EREC/Balcron

BOD WI: 79.78%

Location: SE SW Section 12, T9S, R16E
Duchesne County, Utah

Prospect: Jonah Unit / Monument Butte

---TIGHT HOLE---

12-15-93 Completion

CP - 920 psi. TIH w/retrieving head, 1 jt 2-7/8" tbg, 5-1/2" HD packer, SN, & 109 jts 2-7/8" tbg. Tag sand @ 3394' KB, circ down to 5526' KB. Pull up & set apcker @ 5425' KB. Made 8 swab runs. Recovered 46 BW, heavy sand. SWIFN.

DC: \$4,446

BALCRON MONUMENT FEDERAL #31-7J

Operator: EREC/Balcron

BOD WI: 79.78%

Location: NW NE Section 7, T9S, R17E
Duchesne County, Utah

Prospect: Jonah Unit/Monument Butte Field

---TIGHT HOLE---

12-15-93 Completion

TIH w/retrieving tool, 1 jt 2-7/8" tbg, 5-1/2" HD packer, seat nipple, & 145 jts 2-7/8" tbg. Tag sand @ 4488' KB, circ down to 4970' KB. Pull up & set packer @ 4867' KB. Made 17 swab runs, recovered 70 BF, 13 BO, 57 BW. Last 2 runs, no sand. Release packer. SWIFN.

DC: \$1,903

BALCRON MONUMENT FEDERAL #41-14J

Operator: EREC/Baclron

BOD WI: 79.78%

Location: NE NE Section 14, T9S, R16E
Duchesne County, Utah

Prospect: Jonah Unit / Monument Butte

---TIGHT HOLE---

12-16-93 TD: 5,098' (418') Day 6

Formation: Green Zone

MW 8.4 VIS 26

Present Operation: Drilling

Drill, trip for bit, had to ream 3050'-3090'. Going back in hole, ream 100' to btm. 1" of snow.

DC: \$7,004

CC: \$100,812

Balcron Oil
DAILY OPERATING REPORT

DATE: 12/17/93

****JONAH UNIT PARTNERS' DAILY REPORT******BALCRON MONUMENT FEDERAL #24-12J** Operator: EREC/Balcron

BOD WI: 79.78%

Location: SE SW Section 12, T9S, R16E
Duchesne County, Utah

Prospect: Jonah Unit / Monument Butte

---TIGHT HOLE---

12-16-93 Completion
CP - 25 psi. Flow back 10 BW, 2 BO. Made 24 swab runs, recovered 144 bbls fluid, trace oil, 144 BW. Last 3 runs, fluid stable @ 2700', no sand. Release packer, tag sand @ 5516' KB, circ down to 5526' KB. Release BP, reset BP @ 4810' KB, pressure test BP - OK. TOOH w/tbg, SN, packer & retrieving head. RU Cutter to perf 4746'-50' (2 SPF). RD Cutter. TIH w/retrieving head, 1 jt tbg, 5-1/2" HD packer, SN & 150 jts 2-7/8" tbg. SWIFN.
DC: \$2,888

BALCRON MONUMENT FEDERAL #31-7J Operator: EREC/Balcron

BOD WI: 79.78%

Location: NW NE Section 7, T9S, R17E
Duchesne County, Utah

Prospect: Jonah Unit/Monument Butte Field

---TIGHT HOLE---

12-16-93 Completion
CP - 150 psi, bleed well off. TIH & tag sand @ 4920', circ down to 4980'. Release BP, TOOH w/tbg, BP & packer. TIH w/production string as follows:

	<u>Length</u>	<u>Depth KB</u>
1 jt 2-7/8" tbg EUE J-55 SRD 6.5#	31.29'	5192.00'
1 perf sub 2-7/8" x 4'	4.00'	5160.71'
1 seat nipple	1.15'	5156.71'
166 jts tbg 2-7/8" EUE J-55 SRD 6.5#	5142.56'	5155.56'
KB	13.00'	

ND BOP, NU wellhead. TIH w/BHP 2-1/2" x 1-1/2" x 16' FWAC w/PA plunger, pump #1025 (TRICO), 128 3/4" x 25' plain rods D-61 (TRICO). SWIFN.

DC: \$15,505

BALCRON MONUMENT FEDERAL #41-14J

Operator: EREC/Balcron

BOD WI: 79.78%

Location: NE NE Section 14, T9S, R16E
Duchesne County, Utah

Prospect: Jonah Unit / Monument Butte

12-17-93 TD: 5,698' (600') Day 7

Formation: Green River

MW 8.4 VIS 26

Present Operation: Logging

Drill, survey, blow hole, load hole & circ for logs. TOH for logs, logging. Schlumberger couldn't make it, had to call Halliburton.

DC: \$11,295

CC: \$112,107

Balcron Oil
DAILY OPERATING REPORT

DATE: 12/20/93

****JONAH UNIT PARTNERS' DAILY REPORT******BALCRON MONUMENT FEDERAL #24-12J** Operator: EREC/Balcron

BOD WI: 79.78%

Location: SE SW Section 12, T9S, R16E
Duchesne County, Utah

Prospect: Jonah Unit / Monument Butte

---TIGHT HOLE---

12-17-93 Completion

RU Dowell to do HCL break down on 4746'-50'. Pressure test surface equipment to 6000 psi - OK. Spot acid at perfs, set packer @ 2682' KB, EOT 4717' KB, BP - 4810' KB. Start break down refer to treatment report. TOOH w/tbg, SN & packer. RU Dowell to do sand frac, pressure test surface equipment to 4000 psi - OK refer to treatment report. RD Dowell. SWIFN.

DC: \$19,809

12-18-93 Completion

CP - 650 psi, flow back 40 BW. TIH w/retrieving head, 1 jt 2-7/8" tbg, 5-1/2" HD packer, SN & 109 jts 2-7/8" tbg. Tag sand @ 3425' KB, circ down to 4810' KB, pull up & set packer @ 4682' KB, EOT @ 4717' KB. Made 14 swab runs, recovered 84 BW, trace oil & gas. Last 3 runs, fluid level stable @ 275', no sand. Release packer, RIH & tag sand @ 4800' KB, circ down to 4810' KB (BP), release BP, reset BP @ 4155' KB. Test BP to 1000 psi - OK. TOOH w/9 jts tbg. SWIFN.

DC: \$4,818

BALCRON MONUMENT FEDERAL #41-14J

Operator: EREC/Balcron

BOD WI: 79.78%

Location: NE NE Section 14, T9S, R16E
Duchesne County, Utah

Prospect: Jonah Unit / Monument Butte

---TIGHT HOLE---

12-17-93 5-1/2" csg & cmt as follows:

Guide Shoe	.60
1 jt 5-1/2" 15.5# shoe jt	45.20'
Float collar	1.00'
130 jts 5-1/2" 15.5# K-55	5591.01'
	5637.81'
Landing jt	9.00'
Csg set @	5646.81'
PBTD:	5600.01' 20 centralizers.

Cmt by Dowell w/225 sxs Hilift cmt & tail w/261 sxs Class "G". Float did not hold. Plug down @ 11:45 p.m. 12-17-93, release rig @ 3:45 a.m. 12-18-93.

12-18-93 TD: 5,698' (0') Day 8

Formation: Green River

Present Operation: RDMO.

Logging, trip in hole w/collars & drill pipe. LD drill pipe & collars. Change pipe rams in BOP & test 5-1/2" rams to 2000# - OK. Run 5-1/2" csg, circ, had 20' of sticky fill on btm. Did not circ down, cmt by Dowell. Set slips, ND & clean mud tank.

DC: \$61,609

CC: \$173,716

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
WORKOVER AND COMPLETION FORM

COMPANY: EQUITABLE RESOURCES CO COMPANY REP: DALE GRIFFIN

WELL NAME: BALCRON MON FED #24-12J API NO: 43-013-31409

SECTION: SE/SW SEC 12 TWP: 09S RANGE: 16E

CONTRACTOR: CANNON WELL SERVICE RIG NUMBER: ?

INSPECTOR: DENNIS INGRAM TIME: 11:47 AM AM/PM DATE: 12/21/93

OPERATIONS AT THE TIME OF INSPECTION: UNKNOWN -- NO PERSONNEL ON

LOCATION.

=====

WELL SIGN: Y TYPE OF WELL: OIL STATUS PRIOR TO WORKOVER: DRLG

H2S: N/A ENVIRONMENTAL: OK PIT: Y BOPE: Y

DISPOSITION OF FLUIDS USED: RESERVE PIT, FRAC MASTER, AND TRUCK

DOES THIS WORKOVER QUALIFY FOR STATE TAX CREDITS: (Y/N) _____

PERFORATED: YES STIMULATED: _____ SAND CONTROL: _____

WATER SHUT OFF: _____ WELLBORE CLEANOUT: _____ WELL DEEPENED: _____

CASING OR LINER REPAIR: _____ ENHANCED RECOVERY: _____ THIEF ZONE: _____

CHANGE OF LIFT SYSTEM: _____ TUBING CHANGE: _____ OTHER CEMENT SQUEEZE: _____

SURFACE EQUIPMENT CHANGES OR ASSOCIATED COSTS DO NOT QUALIFY FOR CREDITS.

=====

REMARKS:

ORIGINAL COMPLETION. TUBING & PACKER ON BANK.

EQUITABLE RESOURCES Co

43-013-31409

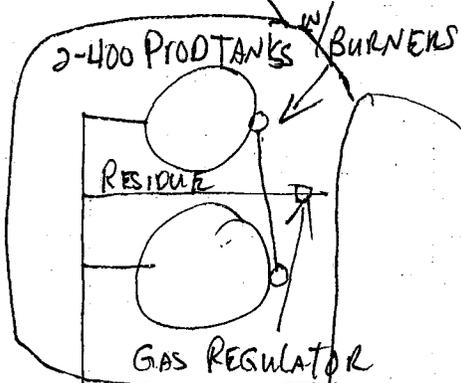
MONUMENT FED #24-12J
SE/SW SEC 12 T9S R16E

1/20/94
Dyl

↑
NORTH

1-130 OPEN TOP
PIT TANK (WILL
INSTALL WHEN RESERVE
PIT IS CLOSED).

BERMED AREA!

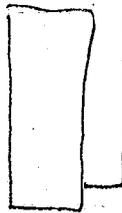


FENCED,
OPEN
RESERVE
PIT

FLOWLINE

WELL HEAD → ○

LUFKIN ROD
PUMPING
UNIT



PROpane
TANK

ENTRANCE
↑

SURFACE SOIL



Page 1 of 1

Balcron Oil
DAILY OPERATING REPORT

DATE: 12/22/93

****JONAH UNIT PARTNERS' DAILY REPORT****BALCRON MONUMENT FEDERAL #24-12J

Operator: EREC/Balcron

BOD WI: 79.78%

Location: SE SW Section 12, T9S, R16E
Duchesne County, Utah

Prospect: Jonah Unit / Monument Butte

---TIGHT HOLE---

12-20-93 Completion
 TOH w/tbg & tools. SWI.
 DC: \$575

BALCRON MONUMENT FEDERAL #41-14J

Operator: EREC/Balcron

BOD WI: 79.78%

Location: NE NE Section 14, T9S, R16E
Duchesne County, Utah

Prospect: Jonah Unit / Monument Butte

---TIGHT HOLE---

12-21-93 Completion
 MIRU Basin Well Service Rig #2. Install well head, NU BOP. TH
 w/4-3/4" bit, 5-1/2" scraper & 179 jts 2-7/8" tbg. Tag PBTB, circ
 well clean w/130 bbls of 2% KCL wtr. TOOH w/tbg, scraper, & bit.
 SWIFN.
 DC: \$20,804



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

TREATMENT REPORT

Date of Treatment: 12-22-93
 Well Name Monument Fed. 24-12J SEC. 14 TWN. 9S RNG. 16E
 Field Monument Butte County Duckwater State Utah
 Formation/Perforations: Green River / 4080-86, 4118-23 25PF

Treatment type: HCL BREAK DOWN Total Number of Holes: 22
BOWELL

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 fluid
2184 gal. 2% KCL WATER fluid

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

Flushed well with _____ gal. of 2% KCL WATER
44 ball sealers were pumped. Was ball action seen? YES
 Barrels of Load to Recover 64 BLTR.

Avg. Treating Pressure = 1500 psi, max = 3200 psi, min = 1415 psi
 Avg. Treating Rate = 4.0 bpm, max = 4.0 bpm, min = 4.0 bpm
 ISIP = 1375 psi, 5 min. = --- psi, 10 min. = --- psi, 15 min. = _____ psi
 Well will be shut in for _____ hrs. before bringing back fluid.

REMARKS: INITIAL BREAK AT 3200 PSI AT 2.0 BPM
BACK TO 2150 PSI AT 4.0 BPM
SURGE BALLS OFF. PUMP FOR RATE. 8.5 BPM AT 2500 PSI

P. P. Hill

Balcron Oil
DAILY OPERATING REPORT

DATE: 12/23/93

****JONAH UNIT PARTNERS' DAILY REPORT****

BALCRON MONUMENT FEDERAL #24-12J

Operator: EREC/Balcron

BOD WI: 79.78%

Location: SE SW Section 12, T9S, R16E
Duchesne County, Utah

Prospect: Jonah Unit / Monument Butte

---TIGHT HOLE---

12-22-93 Completion
RU Cutter to perf 4080'-86', 4118'-23'. RD Cutter. TIH w/HD packer, SN, & 129 jts 2-7/8" tbg, set packer @ 4000' KB, EOT @ 4036' KB. RU Dowell to do HCL break down, 4080'-86', 4118'-23'. Spot acid 500' above perms, set packer. Refer to treatment report. TOOH w/tbg & tools. RU Dowell to sand frac 4080'-86, 4118'-23' refer to treatment report. SWIFN.
DC: \$24,476

12-23-93 Completion
CP - 735 psi, bleed well down. TIH w/retrieving tool, 1 jt 2-7/8" tbg, packer, SN & 124 jts 2-7/8" tbg. Tag sand @ 3890' KB, circ down to 4155' KB (BP), set packer @ 4000' KB, EOT @ 4035' KB. Made 12 swab runs, recovered 72 BW, trace of oil. Last 2 runs, no sand. Release packer, tag sand @ 4130' KB, circ down to 4155' KB, release BP, TOOH w/tbg & tools. TIH w/production string as follows:

	<u>LENGTH</u>	<u>DEPTH KB</u>
1 jt 2-7/8" tbg EUE, J-55 8RD 6.5#	31.42	5550.71'
1 perf sub 2-7/8" x 3'	3.20	5519.29'
1 seat nipple	1.10	5516.09'
177 jts 2-7/8" tbg, EUE, J-55 8RD 6.5# KB (10')	5504.99	5514.09'

SWIFN.
DC: \$1,647

12-24-93 Completion
ND BOP, NU well head. TIH w/following:
1 BHP 2-1/2" x 1-1/2" x 16' RWAC w/PA plunger (trico)
119 3/4" x 25' plain rods D-61 (Trico)
two 3/4" x 6' ponys
one 1-1/4" x 22' polish rod SM (Trico)
Clamp rods, pressure test pump & tbg to 1000 psi - OK. BHP - #1027
(Trico).
DC: \$5,429

Page 1 of 1

Balcron Oil
DAILY OPERATING REPORT

DATE: 1/3/94

****JONAH UNIT PARTNERS' DAILY REPORT****BALCRON MONUMENT FEDERAL #41-14J

Operator: EREC/Balcron

BOD WI: 79.78%

Location: NE NE Section 14, T9S, R16E
Duchesne County, Utah

Prospect: Jonah Unit / Monument Butte

---TIGHT HOLE---

12-30-93 Completion

ND BOP, NU wellhead. TIH w/production string as follows:

1 BHP 2-1/2" x 1-1/2" x 16' RWAC w/PA plunger, pump #1028 (Trico).

202 3/4" x 25' plain rods, D-61 (Trico)

one 3/4" x 8' pony

one 3/4" x 4' pony

one 1-1/4" x 22' polish rod (Trico)

Clamp rods off. Test tbg & pump 1000 psi - OK. RDMO

DC: \$7,355

BALCRON MONUMENT FEDERAL #24-12J

Operator: EREC/Balcron

BOD WI: 79.78%

Location: SE SW Section 12, T9S, R16E
Duchesne County, Utah

Prospect: Jonah Unit / Monument Butte

---TIGHT HOLE---

12-30-93 Completion

Start unit pumping 4-1/4" stroke, 86" stroke.

DC: \$30,330

WELL REPORT

MONUMENT BUTTE FIELD
Balcron Oil Co. 24-12J Monument Butte-Federal
539' FSL, 1777' FWL, Sec. 12, T9S-R16E
Duchesne County, Utah

CONFIDENTIAL

DUPLICATE

By

DENNIS REHRIG & ASSOCIATES, INC.

Oil & Gas Consulting

4924 Rimrock Road
Billings, Montana 59106

(406) 656-4785

WELLSITE GEOLOGIST'S REPORT

**MONUMENT BUTTE FIELD
Balcron Oil Co. 24-12J Monument Butte-Federal
539' FSL, 1777' FWL, Sec. 12, T9S-R16E
Duchesne County, Utah**

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DENNIS C. REHRIG & ASSOCIATES, INC.

Oil & Gas Exploration

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

MONUMENT BUTTE FIELD

**Balcron Oil Co. 24-12J Monument Butte-Federal
539' FSL, 1777' FWL, Sec. 12, T9S-R16E
Duchesne County, Utah**

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11	Reference Well Formation Tops
12	Significant Gas and Sample Shows
13	Sample Descriptions
Insert	Geologic Well Log

By:

DENNIS C. REHRIG

Consulting Geologist

For:

DENNIS C. REHRIG & ASSOCIATES, INC.

**Balcron Oil Co. 24-12J Monument Butte-Federal
539' FSL, 1777' FWL, Sec. 12, T9S-R16E
Duchesne County, Utah**

GENERAL REVIEW

The Balcron Oil Co. 24-12J Monument Butte-Federal (SE $\frac{1}{4}$ SW $\frac{1}{4}$ S-12, T9S-R16E, Duchesne County, Utah) was drilled as an infill development well in the Monument Butte Field.

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

The surface hole was air drilled and surface casing was set prior to moving Union Drilling Co. Rig No. 17 on location and spudding on December 3, 1993. A two-man mud logging unit and wellsite geologist were on site from 1400' to total depth. The Green River and Douglas Creek formations were penetrated at 1466' and 4568' making them respectively 42' high and 51' high structurally to the offset G. S. Campbell 4 Government-C&O (NE $\frac{1}{4}$ SW $\frac{1}{4}$ S-12, T9S-R16E) control well.

Numerous sandstone zones starting at 2682' appear prospective based on mud-log, sample shows, and/or E-logs. All sandstones which had significant gas and/or visual shows are noted elsewhere in this report.

This well was drilled to 5700' (Driller) and 5704' (Logger).

Subsequent to log review the operator elected to run 5 $\frac{1}{2}$ " production casing to total depth.

The rotary was released 12/9/93.

Respectfully submitted,



DENNIS C. REHRIG

**Balcron Oil Co. 24-12J Monument Butte-Federal
539' FSL, 1777' FWL, Sec. 12, T9S-R16E
Duchesne County, Utah**

WELL DATA

OPERATOR: Balcron Oil Company

LEASE & WELL NO.: Monument Butte-Federal 24-12J

LOCATION: 539' FSL, 1777' FWL, Sec. 12, T9S-R16E

PROSPECT/FIELD: Monument Butte Field

COUNTY: Duchesne

STATE: Utah

BASIN: Uintah

WELL TYPE: Development

BASIS FOR PROSPECT: Subsurface well control

ELEVATIONS: G.L. 5495', K.B. 5505'

SPUD DATE: 7:30 PM (MST) 12/3/93 (Rotary)

**OUT FROM UNDER
SURFACE CASING:** 7:30 PM (MST) 12/3/93 (Surface casing previously set)

DRILLING COMPLETED: 8:15 AM (MST) 12/8/93

LOGGING COMPLETED: 7:45 PM (MST) 12/8/93

RIG RELEASE: 5:00 PM (MST) 12/9/93

**TOTAL DAYS SPUD
THROUGH LOGGING:** 6 days

TOTAL DEPTH: 5,700' (Driller) 5,704' (Logger)

TOTAL DRILLING DAYS: 6 days (Surface casing previously set)

<u>HOLE SIZE & CASING:</u>	<u>Hole Size</u> 12¼" Surface to 286' 7⅞" 286' to T.D.	<u>Casing Size</u> 8⅝" surface to 286' K.B. 5½" Production Casing to 5,685' K.B.
<u>WELL STATUS:</u>	Cased for completion attempt in Douglas Creek.	
<u>PENETRATION:</u>	284' below Carbonate Marker.	
<u>COMPANY DRILLING CONSULTANT:</u>	Al Plunkett	
<u>DRILLING CONTRACTOR:</u>	Union Drilling Co.	
<u>RIG NO.:</u>	17	
<u>TOOLPUSHER:</u>	Dave Gray	
<u>RIG SPECIFICATIONS:</u>	Draw Works – Cabot–Franks, powered by one D–343 Diesel Cat Derrick – Cabot–Franks, 97' mast.	
<u>BLOW OUT PREVENTER:</u>	Make: Cameron. Type 10" x 5000 lbs. Drill Pipe: Size: 4½" OD, 2¼" ID, Thread: XO. BHA: Length 557', 18 jts–6" DC. Tool joints: 6¼" OD, Type – XO.	
<u>MUD PUMP:</u>	No. 1 – Gardner–Denver–FXN, 14" Stroke, 5½" liner.	
<u>MUD COMPANY:</u>	Unibar Drilling Fluids, Inc. Operator bought products and drilling contractor mixed as needed.	
<u>MUD PROGRAM:</u>	Air/Foam 286' – Total Depth. Loaded hole with KCl/water for E–logs.	
<u>ELECTRIC OPEN–HOLE LOGGING PROGRAM:</u>	Halliburton Logging Services, Inc. Engineer: Kirk Evatt Witnessed by: Dennis Rehrig and Al Plunkett – Dual Laterolog Micro–Guard, w/Gamma Ray, Caliper and Tension Curves (278'–5702') – Spectral Density/Dual Spaced Neutron (2500'–5659')	
<u>LOST CIRCULATION ZONE OR DRILLING PROBLEMS:</u>	Had some gas flow starting @ 2650' which probably masked mud–log readings for remainder of hole, but presented no drilling problems.	
<u>WELLSITE GEOLOGIST:</u>	Dennis C. Rehrig	

SAMPLING PROGRAM:

50' Samples from 1,400'-3,850'.
20-30' Samples from 3,850'-Total Depth,
Caught 20' samples except when penetration
was extremely fast, then caught 30' samples.

SAMPLE QUALITY:

Generally fair but fluid intermittently loading hole the
bottom 1700' caused sample quality problems at times.

SAMPLE DISPOSITION:

Utah Geological Survey - Salt Lake City, Utah

MUD LOGGING EQUIPMENT:

K-Tech - two man unit operated by
John Kuykendall and George Nichols.

CORE PROGRAM:

None.

DRILL STEM TEST:

None.

SURFACE CASING:

8 $\frac{3}{4}$ " Surface - 256' K.B.
Surface hole drilled and casing set by small air-impact
rig, details of casing and cement not available for
this report.

PRODUCTION CASING:

Ran 128 jts 5 $\frac{1}{2}$ " casing to 5685' K.B. Cemented
w/200 sxs lead Ultra-lite and 240 sxs 50-50 Poz.
Plug down @ 1:00 PM 12/9/93.

**Balcron Oil Co. 24-12J Monument Butte-Federal
539' FSL, 1777' FWL, Sec. 12, T9S-R16E
Duchesne 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 (MST) day of prior day of report and ends at 6:00 AM (MST) day of report.

Days Since Spud	1993 Date	Depth	Ftg in Last 24 Hrs	Activity (hrs)			Bit No.	W O B (M)	RPM	PP	Activity
				Drig	Maint. and Repairs	Other					
1	12/4	658'	372'	8.00	3.25	12.75	1	45	55	110/200	Move and rig up, pressure test, PU DC's, work on booster, drilling cement, drilling 7 7/8" hole with air and foam, service rig and pumps, work on booster, drilling, change air head rubber, drilling.
2	12/5	2338'	1680'	21.75	0.50	1.75	1	45	50	210	Drilling, survey, service rig and operate pipe rams, drilling, survey, drilling, survey, service rig, drilling, survey.
3	12/6	3582'	1244'	22.25	0.50	1.25	1	45	50	230/260	Survey, check pipe rams, drilling, service rig and pumps, survey, drilling, service rig, survey, drilling.
4	12/7	4698'	1116'	21.25	1.00	1.75	1	45	50	270	Drilling, survey, service rig, close and open pipe rams, drilling, service rig and pump, drilling, clean hole for survey, survey, service rig, drilling.

Days Since Spud	1993 Date	Depth	Ftg in Last 24 Hrs	Activity (hrs)			Bit No.	W O B (M)	RPM	PP	Activity
				Drlg	Maint. and Repairs	Other					
5	12/8	5627'	929'	19.75	0.25	4.00	1	45	50	310	Drilling, run survey, trip 4 stds out to unload hole, service rig, open and close rams, TIH - blow water to bottom, drilling, clean and circ hole w/air and foam, survey, clean and circ hole, drilling, service rig, drilling.
6	12/9	5700'	73'	2.25	0	21.75	1	45	30	310	Drilling, circ hole on air, put mud pump on hole, condition and circ hole for E-logs, TOH, RU loggers and log well, TIH w/DC's and 41 stds DP, RU laydown line and tubs, LD DP, TIH, LD DP and DC's, clean floor off, change casing heads, wait on tester, RU to test casing, test stack, RU to run casing and run 5½" production casing.
7	12/10	5700'	0'	-	-	11.00	-	-	-	-	Run 5½" casing, cement, WOC, release rig @ 5:00 PM 12/9/93.

6

Balcron Oil Co. 24-12J Monument Butte-Federal
539' FSL, 1777' FWL, Sec. 12, T9S-R16E
Duchesne County, Utah

SURVEYS VERTICAL HOLE

<u>Drilling Depth</u>	<u>Degrees</u>
380'	1°
800'	1°
1300'	¾°
1800'	¾°
2300'	2°
2800'	2°
3300'	1¾°
3800'	2°
4300'	3°
4800'	2½°
5050'	3°

**Balcron Oil Co. 24-12J Monument Butte-Federal
539' FSL, 1777' FWL, Sec. 12, T9S-R16E
Duchesne County, Utah**

BIT RECORD

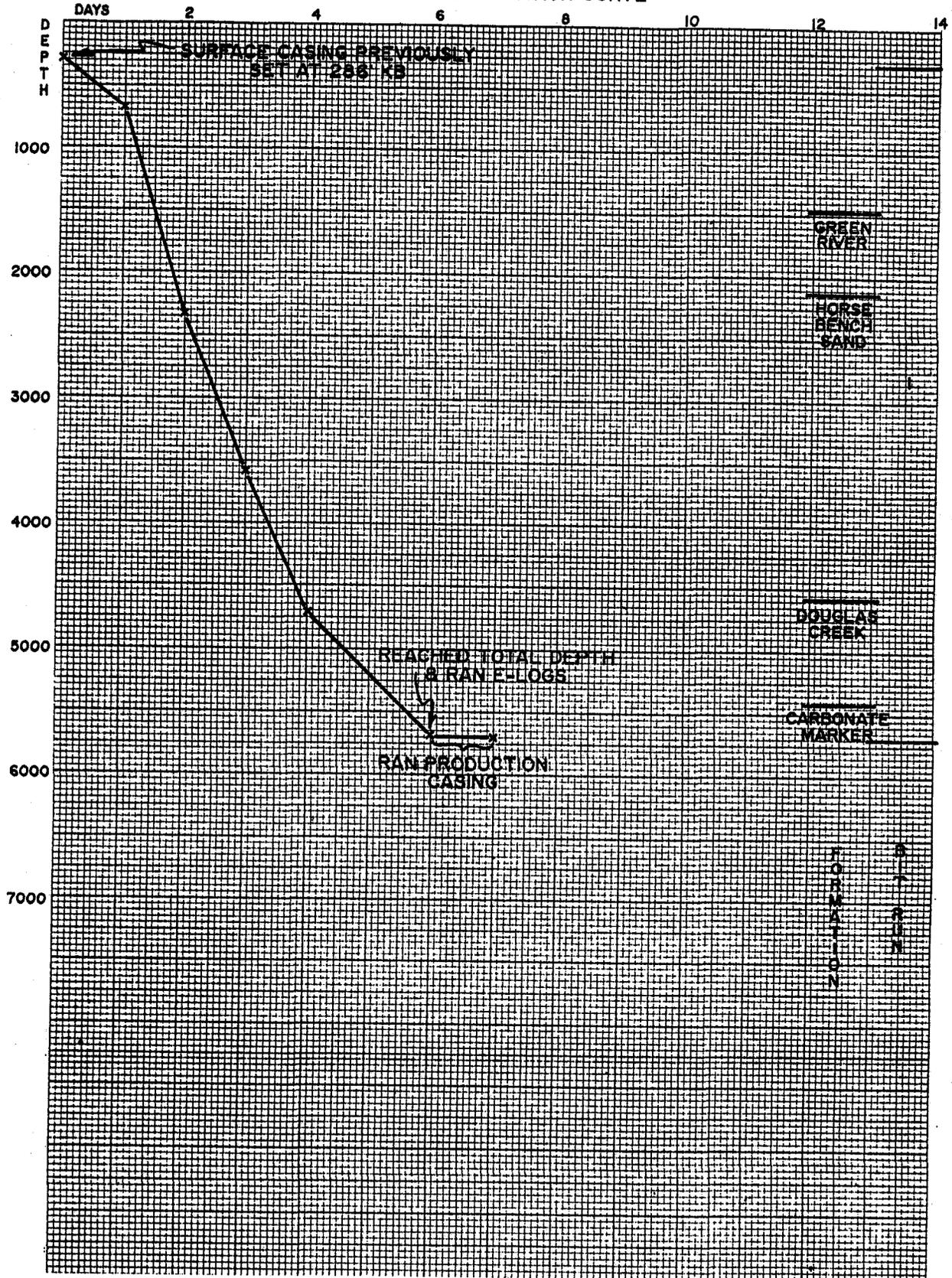
Contractor: Union Drilling Co. Operator: Balcron Oil Co. Lease: Federal State: Utah County: Duchesne Sec/T-ship/Range: SESW Sec. 12, T9S-R16E	Rig No. 17 Field: Monument Butte Well No. 24-12J	Rig Make: Cabot-Franks Derrick: Cabot-Franks 97' mast <hr/> Pump #1: Gardner- Denver-FXN Liner 5½" x 14"	Collars: ODxDxLength BHA 6" x 2¼" x 557' Drill Pipe-Size Wt 4½" 16.6 E Tool Joint: 6¼"	SPUD (for 7¼" hole) 12/3/93 Under Surface (rotary) 12/3/93 Total Depth 12/8/93 Total Days Drilling 6	Toolpusher/Drillers Dave Gray Scott Cawdinski Bill Satterfield Jeff White Chris Chapman Operators Representative Al Plunkett Mud Type: Air/Foam
--	--	---	---	--	--

Bit No	Bit Size	Bit Mfr	Bit Type	Jet Size 32nds	Ser. No.	Depth Out	Feet	Hrs	Ft/ Hr	Cum Hrs	Wt 1000#	Rotary RPM	Vert Dev	Pump Press	PUMPS			MUD		DULL COND			Remarks Date, Formation, etc.			
															No	Liner ID	SPM	Wt	Vis	T	B	G				
1	7¼	STC	F45A	Open	KW9965	5700'	5414	61	88.8	61	45	45/55	3°	Drilled with air & foam												

DENNIS C. REHRIG & ASSOCIATES, INC.

BALCRON OIL 24-12J MONUMENT BUTTE-FEDERAL
539' FSL 1777' FWL, SECTION 12, T 9 S-R 16 E
DUCESNE COUNTY, UTAH

TIME / DEPTH PENETRATION CURVE



**Balcron Oil Co. 24-12J Monument Butte-Federal
539' FSL, 1777' FWL, Sec. 12, T9S-R16E
Duchesne County, Utah**

FORMATION TOPS

ELEVATIONS: G.L. 5495', K.B. 5505'

	<u>E-Log Top</u>	<u>Subsea Datum</u>	<u>Structural Relationship To Reference Wells *</u>
Green River	1466'	(+4039')	42' Hi
Horsebench Sand	2122'	(+3383')	59' Hi
2nd Garden Gulch	3773'	(+1732')	58' Hi
Yellow Marker	4403'	(+1102')	58' Hi
Douglas Creek	4568'	(+ 937')	51' Hi
2nd Douglas Creek Mkr	4802'	(+ 703')	59' Hi
Green Marker	4944'	(+ 561')	66' Hi
Carbonate Marker	5420'	(+ 85')	NDE

TOTAL DEPTH: 5704' Logger

* Reference Well:

G. S. Campbell 4 Government C&O
NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 12, T9S-R16E
Duchesne County, Utah

NOTE: Correlations and nomenclature that used by operator.

Balcron Oil Co. 24-12J Monument Butte-Federal
539' FSL, 1777' FWL, Sec. 12, T9S-R16E
Duchesne County, Utah

REFERENCE WELL E-LOG FORMATION BOREHOLE AND SUBSEA DATUMS

G. S. Campbell
4 Government - C&O
NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 12, T9S-R16E
Duchesne County, Utah

K.B. 5462'

Formation

Green River	1465'	(+3997')
Horsebench Sand	2138'	(+3324')
2nd Garden Gulch	3788'	(+1674')
Yellow Marker	4418'	(+1044')
Douglas Creek	4576'	(+ 886')
2nd Douglas Creek Mkr	4818'	(+ 644')
Green Marker	4967'	(+ 495')
Carbonate Marker	NDE	

TOTAL DEPTH 5348' (Logger)

NOTE: Correlations and nomenclature that used by operator.

**Balcron Oil Co. 24-12J Monument Butte-Federal
539' FSL, 1777' FWL, Sec. 12, T9S-R16E
Duchesne County, Utah**

SIGNIFICANT GAS KICKS AND/OR SHOWS

As reported by Mudlogger

<u>Formation</u>	<u>Sample Depth</u>	<u>Time</u>		<u>Total Gas (Before-During-After)</u>	
		<u>(Before-During-After)</u>	<u>Min/Ft</u>		
Horsebench Sand	2647'-2657'	1.2 - 1.3 - 1.1		30-600-510	
Horsebench Sand	3530'-3540'	.8 - .4 - .7		710-930-640	
2nd Garden Gulch	4106'-4120'	1.0 - .5 - 1.0		380-380-380	Gas probably masked by gas from above.
2nd Garden Gulch	4306'-4332'	1.3 - .7 - 1.5		350-350-350	Gas probably masked by gas from above.
Douglas Creek	4724'-4736'	1.6 - .6 - 1.1		360-410-360	
Carbonate Marker	5462'-5483'	1.0-.7-.8		200-160-180	Gas erratic due to hole loading w/fluid.

NOTE: After gas flow at approximately 2650' gas reading appeared to be masked for rest of hole. Had much intermittent fluid loading hole in bottom approximate 700' of hole which caused sample quality and gas reading problems at times.

POTENTIAL SANDSTONE ZONES

Provided by Wellsite Geologist

E-Log Depth (Spectral Density/Dual Spaced Neutron Log)

2682'-2710'	
3541'-3545'	
3848'-3882'	Gross interval.
4080'-4086'	
4118'-4125'	
4311'-4322'	
4718'-4729'	
5020'-5026'	
5045'-5050'	
5187'-5196'	
5466'-5486'	

NOTE: Sandstone not always seen in samples due to sample quality or thinness of sandstone in some cases, also in lower portion of hole particularly. Sandstone with oil shows is present in samples but not confirmed by E-logs. Frequently, E-logs do not confirm samples. Hole loading with cuttings and fluid during connections are the primary causes of poor samples at times. Also once well penetrated some oil zones, most samples were partially-moderately contaminated with oil or an oily film.

**Balcron Oil Co. 24-12J Monument Butte-Federal
539' FSL, 1777' FWL, Sec. 12, T9S-R16E
Duchesne County, Utah**

SAMPLE DESCRIPTIONS

By: Dennis C. Rehrig

Samples caught and lagged from trap of blue line by Mud Loggers. Samples were examined wet, under reflected light and 3x magnification from 1400' to total depth, for porosity identification samples were dried. Sample descriptions only tie moderately well or not at all to drill time log. This was due to air/foam drilling and rapid penetration rates. Sample quality was generally fair-good, except intermittent fluid loading the hole the bottom approximately 700' did present sample quality problems at times. All sample descriptions are interpretive and not tied to E-logs.

- 1400-50 Siltstone frequently grading to very fine grained Sandstone - clear-milky, occasionally cream, moderately calcareous, some specks of carbonaceous material, generally well consolidated, moderately hard-firm, no apparent porosity, NSFOC, frequently pyritic, some lithic particles.
- Shale - light-medium gray, frequently brownish gray, moderately firm-moderately soft, moderately calcareous, sub-blocky in part, frequently silty, moderately speckled with dark brown carbonaceous material.
- 1450-1500 Dolomite-Limy Dolomite - medium-dark brown, frequently orangish tan-olive tan, cryptocrystalline, firm, brittle in part, slightly argillaceous in part, moderately carbonaceous, frequently microcrystalline disseminated Pyrite, dull gold mineral fluorescence, no cut.
- 1500-50 Shale - medium-dark gray, occasionally dark brownish gray, slightly calcareous, firm-moderately firm, sub-blocky in part, moderately carbonaceous, frequently pyritic.
- Dolomite-Limy Dolomite - as above.
- 1550-1700 Dolomite-Limy Dolomite - as above.
- 1700-50 Dolomite-Limy Dolomite - abundant drab olive tan color, more argillaceous, abundant Pyrite.

- 1750-1800 Dolomite-Limy Dolomite - slightly orangish brown-medium brown, occasionally drab olive tan, cryptocrystalline, firm-moderately firm, slightly argillaceous in part, dense, frequently pyritic, moderately-highly carbonaceous, dull gold mineral fluorescence, no cut.
- 1800-50 Limy Dolomite-Dolomite - generally medium brown, frequently tan to light grayish tan, cryptocrystalline, firm-moderately soft, slightly argillaceous in part, slightly-moderately carbonaceous, frequently pyritic, dull gold mineral fluorescence in part, no cut.
- 1850-1900 Dolomite-Limy Dolomite - drab olive tan-medium to dark brown as 1750-1800' above.
- 1900-2000 Dolomite-Limy Dolomite - commonly medium brown, slightly orange in part to frequently brownish gray-drab olive tan as 1750-1800' above.
- 2000-50 Limy Dolomite-Dolomite - grayish tan-slightly drab olive tan, frequently medium brown, moderately firm, slightly argillaceous in part, occasionally pyritic, dense, cryptocrystalline, dull gold mineral fluorescence in part, no cut.
- 2050-2100 Dolomite-Limy Dolomite - drab olive tan-medium to dark brown-frequently orangish brown, slightly petroliferous in part, dull gold mineral fluorescence in part, very weak dull yellow milky cut, in part.
- 2100-50 Dolomite-Limy Dolomite - slightly orangish brown, medium brown-tan, cryptocrystalline, moderately firm occasionally moderately soft, slightly argillaceous in part, dense, occasional Pyrite, slightly-moderately carbonaceous.
- 2150-2200 Limy Dolomite-Dolomite - drab olive brown-medium to dark brown, cryptocrystalline occasionally microcrystalline, firm-moderately firm, slightly-moderately carbonaceous, dense.
- Some Siltstone - clear-milky-slightly cream, slightly-moderately calcareous, siliceous in part, well consolidated, generally moderately hard-firm, dense, slightly argillaceous in part.
- Some Shale - light-medium gray, slightly-moderately calcareous, moderately firm-moderately soft, sub-blocky in part.

2200-2350 Dolomite-Limy Dolomite - orangish, moderately-dark brown - medium-dark drab olive tan, moderately-highly carbonaceous, trace petroliferous material, cryptocrystalline, firm-moderately firm, trace Pyrite, slightly argillaceous in part.

2350-2400 Limy Dolomite - generally drab dark olive tan, occasionally dark brown and petroliferous in part, firm, moderately-highly carbonaceous, trace of algal laminae, dense, no fluorescence, very weak bluish milky cut in part, slightly argillaceous in part.

2400-2500 Limy Dolomite-Dolomite - generally as above, some orangish tan-brown, highly carbonaceous in part, some algal laminae.

2500-50 Limy Dolomite-Dolomite - as above.

Limestone - buff-light tan-occasionally cream, microcrystalline to occasionally cryptocrystalline, firm-moderately hard, dense, some Pyrite.

2550-2600 Limy Dolomite - dark brown-frequently orangish tan-medium to dark brown, moderately firm-moderately soft, some algal laminae, moderately-highly carbonaceous, petroliferous in part, dense, siliceous material, generally no fluorescence very weak slow bluish yellow streaming-milky cut in part.

Some Sandstone very fine grained ranging to Siltstone - generally clear-milky, frequently lithic material-carbonaceous fragments, well consolidated-moderately consolidated, slightly friable in part, slightly calcareous, slightly argillaceous in part, frequently pyritic, generally looks tight, trace pinpoint medium-dark brown oil stain, very weak dull gold fluorescence, fair-good dull yellow streaming cut.

2600-50 Limy Dolomite - as above.

Some Siltstone ranging to very fine grained Sandstone as above, tight with trace of show as above.

Some Limestone-Argillaceous Limestone - buff-light tan, cryptocrystalline, moderately soft, dense, slightly carbonaceous.

2650-60 Limy Dolomite as 2550-2600 as above.

Frequently Siltstone and very fine grained Sandstone, generally clear-milky, occasionally cream, slightly calcareous in part, slightly argillaceous in part, some lithic-carbonaceous fragments, frequently pyritic, generally well-moderately consolidated, occasionally friable, moderately well sorted, sub-angular to sub-round, generally tight, probably some fair intergranular porosity, trace pinpoint medium brown oil stain, some dull yellow fluorescence, weak streaming-milky bluish yellow cut.

Some Shale - light-medium gray, frequently silty, slightly-moderately calcareous, moderately firm, sub-blocky in part, frequently speckled with carbonaceous material, pyritic in part.

2660-2700 No sample available. Hole blowing gas.

2700-50 Sandstone - milky-clear, generally fine grained ranges to very fine grained, highly unconsolidated, highly friable, generally clean, generally well-moderately well sorted, sub-round to sub-angular, very faint tan oil stain in part, very faint dull yellow fluorescence, good bright yellow flash cut. Good intergranular porosity.

2750-2800 Sandstone - clear-milky, generally very fine grained, ranges up to fine grained, highly unconsolidated, friable, clean, well sorted, sub-round to sub-angular, good intergranular porosity. Generally no observable stain or fluorescence, trace very faint tan oil stain, no observable fluorescence, weak immediate bluish yellow milky-flash cut.

Some Dolomite-Argillaceous Dolomite - tan - medium-dark brown, frequently drab olive tan, cryptocrystalline, moderately firm, slightly moderately carbonaceous, dense.

2800-50 Dolomite-Argillaceous Dolomite - generally as above, some medium-dark gray highly carbonaceous-slightly petroliferous particles, dull yellow fluorescence, weak bluish yellow streaming cut.

2850-2900 Dolomite-Argillaceous Dolomite - as above.

Shale - light-medium gray, frequently dark gray, slightly-moderately calcareous, moderately firm-moderately soft, sub-blocky in part.

Sandstone - very fine grained commonly ranging to silt - clear - milky - light tan oil stain in part, weak dull faint yellow fluorescence, fair

bluish yellow streaming-milky cut. Entire sample appears to have oily film on cutting surfaces, may be mostly contaminated. Generally unconsolidated-moderately consolidated, friable in part, slightly calcareous in part, some fair intergranular porosity.

2900-50

Limestone-Argillaceous Limestone - buff-tan, cryptocrystalline, dense.

Shale - grayish tan, frequently dark brown specks carbonaceous material, moderately carbonaceous, slightly-moderately calcareous, frequently silty.

Some loose sand grains probably cavings from above. Show from entire sample. Appears to be patchy oily film on cuttings which is visible as sample dries, assume this is contamination.

2950-3000

Dolomite-Limy Dolomite - tan-medium to dark brown, occasionally black and petroliferous, cryptocrystalline, moderately firm-moderately soft, frequently argillaceous, moderately-highly carbonaceous, trace Pyrite, dull gold-yellow fluorescence, entire sample appears to be coated with oily film.

Note: Due to pervasive oily contamination, all fluorescence and cuts are suspect unless some oil stain is observed. Therefore no reference to fluorescence or cut will be made again in this report unless it is considered pertinent to a likely reservoir quality rock.

3000-50

Limestone-Dolomitic Limestone - grayish tan-buff-tan, cryptocrystalline, moderately firm occasionally moderately soft, dense, slightly argillaceous in part, slightly carbonaceous in part, frequently pyritic.

3050-3100

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

Siltstone ranging to very fine grained Sandstone - clear-milky frequently slightly cream, argillaceous in part, slightly calcareous, moderately well consolidated, some slightly friable Sandstone, moderately well sorted, sub-angular, NSFOC.

3100-50

Dolomite-Limy Dolomite - as above.

- Some Limestone–Dolomitic Limestone – cream–buff, as above.
- 3150–3200 Dolomite–Limy Dolomite – as above.
- Limestone–Dolomitic Limestone – as above.
- Sample highly contaminated by oil.
- 3200–50 Shale – medium–dark gray, slightly–moderately calcareous, moderately firm, sub–blocky, moderately carbonaceous, much dark tan–grayish tan Shale, moderately–highly calcareous, moderately firm, sub–blocky, highly pyritic, moderately carbonaceous.
- Limestone–Dolomitic Limestone – cream, buff–light tan, as above.
- 3250–3300 Shale – as above.
- Limestone – cream–buff, cryptocrystalline–frequently microcrystalline, moderately firm, slightly argillaceous in part, dense.
- 3300–50 Limestone – light tan–occasionally buff, mottled in part, moderately firm–moderately soft, dense, cryptocrystalline–microcrystalline, some unidentifiable particles possibly pellets, slightly argillaceous in part.
- Shale – medium–dark gray and grayish tan, as above.
- 3350–3400 Limestone – as above, trace Pyrite.
- Some Shale – as above.
- 3400–50 Shale – commonly medium gray, frequently light gray, moderately–firm, slightly carbonaceous, frequently pyritic, slightly calcareous, some silt.
- Some Siltstone – occasionally ranging to very fine Sandstone, clear–milky, generally well consolidated, slightly calcareous, siliceous in part, generally tightly cement, moderately sorted, sub–angular, NSFOC.
- 3450–3500 Shale – mostly as above, some slightly emerald green, slightly calcareous, moderately firm.
- Limestone – as above.

Some Siltstone - as above.

Trace Sandstone very fine grained, clear-milky, some spotty dark brown oil stain, very weak dull yellow fluorescence and weak dull yellow streaming cut. Moderately well consolidated, moderately well sorted, slightly calcareous, sub-angular, some fair-good intergranular porosity.

3500-50

Sandstone very fine grained, occasionally fine grained, clear-milky, slightly calcareous in part, moderately unconsolidated, moderately well sorted, sub-angular to sub-round, fair-good intergranular porosity, some pinpoint dark brown oil stain, very faint dull yellow fluorescence and weak-fair dull yellow milky-slow streaming cut.

Some Shale - light-medium gray, moderately soft-moderately firm, slightly-moderately calcareous.

3550-3600

Dolomite-Limy Dolomite - medium tan to medium-dark brown, crypto-crystalline, dense, moderately firm.

Shale - light-medium gray, as above.

Limestone - light tan-buff, as above.

3600-50

Dolomite-Limy Dolomite - as above.

Some Shale - as above.

3650-3700

Shale - frequently slightly greenish tinge, light-medium gray, moderately firm, slightly calcareous, sub-blocky in part.

Limestone-Dolomitic Limestone - generally light tan-frequently moderately-dark brown, cryptocrystalline, moderately firm, dense.

Some Siltstone - clear-milky-slightly white in part, generally hard, frequently siliceous, well consolidated, slightly-moderately calcareous, some carbonaceous specks, NSFOC.

3700-50

Shale - as above.

Limestone-Dolomitic Limestone - generally as above, mostly cream-buff-light tan.

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

3750–3800 Limestone – buff–light tan, frequently cream, cryptocrystalline, moderately firm, dense, frequently ostracods, possibly some pellets.

Shale, Siltstone, and Sandstone – as above.

3800–50 Limestone – buff–tan–light brown as above, just trace of ostracods.

Siltstone occasionally grading to very fine Sandstone – clear–milky, occasionally slightly white, generally well consolidated, hard–firm, commonly siliceous, no apparent porosity, NSFOC.

3850–80 Sandstone extremely fine grained commonly grading to Siltstone, generally well consolidated, slightly–moderately calcareous, clear–milky–slightly white in part, moderately well sorted, sub–angular to sub–round, generally no apparent porosity, NSFOC.

3880–3900 Shale – light–medium gray, frequently grayish tan, slightly–moderately calcareous, moderately firm–moderately soft.

Sandstone – very fine grained, clear–milky, slightly calcareous in part, generally moderately consolidated, slightly friable in part, moderately well sorted, sub–angular to sub–round, trace pinpoint dark brown oil stain, some dull yellow fluorescence, weak bright yellow milky cut.

3900–20 Limestone – buff–slightly cream in part, cryptocrystalline, firm, dense, some pellets and unidentifiable particles.

3920–40 Limestone – as above.

Shale – light gray commonly light emerald, slightly calcareous, moderately firm.

Some Sandstone as above, but slightly more pinpoint dark brown oil stain, with show as above.

- 3940-60 Limestone - light tan-buff, cryptocrystalline-occasionally microcrystalline, firm, dense, frequently ostracods, possibly some pellets.
- Shale - light gray, occasionally slightly emerald, slightly calcareous, moderately firm, abundant Pyrite in part, silty in part.
- Some Siltstone - clear-milky-slightly white in part, hard-firm, siliceous in part, slightly-moderately calcareous, frequently pyritic.
- 3960-80 Shale - light-medium gray, moderately firm-moderately soft, slightly calcareous, slightly carbonaceous in part, commonly pyritic, slightly silty in part.
- Some Siltstone - as above.
- 3980-4000 Siltstone - occasionally grading to very fine Sandstone as above, NSFOC, trace Pyrite.
- Some Shale as above - trace Pyrite.
- 4000-20 Shale - light gray, moderately firm, slightly calcareous, sub-blocky, frequently pyritic.
- 4020-40 Shale - generally light gray as above, frequently tan-medium brown Shale, slightly calcareous, firm-moderately firm, sub-blocky in part.
- Dolomite-Limy Dolomite - tan-orangish tan, cryptocrystalline, moderately soft-moderately firm, slightly-moderately carbonaceous.
- 4040-60 Shale - light gray-slightly emerald-tannish gray, as above.
- Some Siltstone - as above.
- 4060-90 Shale - light gray-slightly emerald, as above.
- Siltstone - as above.
- 4090-4120 Sandstone - very fine grained commonly ranging to Siltstone, commonly light brown stain with oil globules coating grain cluster, very weak dull yellow fluorescence in part, fair-good bright yellow flash-streaming cut, generally moderately consolidated-unconsolidated, moderately well

sorted, sub-angular to sub-round, fair-good intergranular porosity, but extremely fine grained. Best show in well to this point.

Shale - light gray-cream-very slightly emerald, slightly calcareous, moderately soft, sub-blocky in part.

4120-50

Shale - as above, silty in part.

Siltstone - milky-light white in part, moderately firm-moderately hard in part, siliceous in part, slightly calcareous, frequently slightly argillaceous, well consolidated, NSFOC.

Some Sandstone as above, probably cavings.

4150-80

Shale - tan-light gray-slightly emerald, moderately firm-moderately soft, slightly-moderately calcareous, sub-blocky in part, occasionally pyritic.

Some Siltstone as above, frequently Siltstone ranging to very fine Sandstone with pinpoint dark brown oil stain, very weak faint dull yellow fluorescence, and very weak-weak slow bright yellow streaming cut, moderately consolidated to unconsolidated, frequently friable, moderately sorted, slightly calcareous in part, poor-fair intergranular porosity, extremely fine grained. May be cavings.

4180-4210

Shale - light-medium gray, very slightly emerald in part, as above.

Siltstone - as above, NSFOC.

Limestone - buff-light tan, cryptocrystalline, moderately firm, dense, frequently ostracods.

4210-4240

Shale - generally medium gray, occasionally dark gray, moderately soft-occasionally moderately firm, slightly-moderately calcareous, slightly carbonaceous, sub-blocky in part.

4240-70

Shale - generally medium gray-frequently brownish gray-medium brown, moderately firm-moderately soft, slightly-moderately calcareous, frequently pyritic, sub-blocky, slightly carbonaceous.

4270-4300

Shale - light-medium gray-slightly emerald as above, frequently dark brown-black petroliferous Shale - soft-moderately soft, moderately-slightly calcareous, highly carbonaceous.

Some Siltstone - clear-milky-slightly white in part, generally firm-moderately hard, slightly calcareous, siliceous in part, dense, NSFOC.

Some Limestone - light tan-buff, cryptocrystalline, moderately firm, dense, frequently ostracods, trace pellets.

4300-60

Siltstone - as above.

Shale - as above.

4360-90

Siltstone - occasionally ranging to very fine Sandstone - clear-milky-frequently white, generally well consolidated, firm-moderately hard, frequently siliceous, slightly-moderately calcareous, moderately sorted, generally no apparent porosity, trace pinpoint dark brown oil stain, no fluorescence, very weak milky dull yellow cut, argillaceous in part, occasional Pyrite.

Some Shale - cream-light gray, moderately soft, slightly-moderately calcareous, occasionally pyritic.

4390-4420

Shale - medium gray, moderately firm-moderately soft, slightly calcareous, sub-blocky.

Some Siltstone as above, NSFOC.

4420-50

Shale - as above, also frequently dark gray-black Shale, moderately firm-highly carbonaceous-petroliferous, slightly calcareous.

Limestone - light tan, cryptocrystalline, moderately firm, occasionally siliceous, dense, frequently ostracods, pellets, trace pisolites.

Some Siltstone - as above.

4450-80

Siltstone - clear-milky, firm-moderately hard, commonly siliceous, slightly-moderately calcareous, dense, well consolidated, NSFOC.

Limestone - as above.

- Shale - light-medium gray-slightly emerald, as above.
- 4480-4510 Sandstone very fine grained commonly ranging to Siltstone - generally milky-slightly white, moderately well consolidated, slightly calcareous, slightly argillaceous in part, moderately well sorted, sub-angular to sub-round, fair porosity, NSFOC.
- 4510-40 Sandstone very fine grained commonly ranging to Siltstone - generally as above, but poorer sorting, more argillaceous, frequently specks of carbonaceous material, some Pyrite, trace Glauconite, NSFOC.
- 4540-70 Shale - light-medium gray, frequently slightly emerald tinge, moderately firm-moderately soft, slightly calcareous.
- Siltstone - generally milky-slightly white, slightly-moderately calcareous, moderately firm-hard, siliceous in part, specks of carbonaceous material, some Pyrite.
- 4570-4600 Shale as above, frequently pyritic.
- Some Limestone-Dolomitic Limestone - medium brown, cryptocrystalline, moderately firm, dense.
- 4600-20 Shale - light-medium gray, occasionally light emerald tinge, slightly-moderately calcareous, moderately firm-moderately soft, frequently pyritic.
- Siltstone - as above.
- Some Limestone-Dolomitic Limestone - as above.
- 4620-40 Shale - as above.
- Siltstone - as above.
- 4640-60 Shale - tannish gray, light-medium gray, moderately firm-moderately soft, slightly-moderately calcareous, frequently pyritic.
- Some Limestone - light tan-buff, cryptocrystalline, moderately firm, dense, commonly ostracods.

- Some Siltstone - as above.
- 4660-80 Shale - light-medium gray-frequently slightly emerald, moderately firm-moderately soft, slightly-moderately calcareous.
- Siltstone - milky-slightly white, generally firm-frequently hard, frequently siliceous, slightly-moderately calcareous, slightly argillaceous in part, frequently pyritic.
- Some speck carbonaceous material, trace Glauconite, NSFOC.
- 4680-4700 Shale - light-medium gray frequently slightly emerald tinge, also commonly dark brown, slightly calcareous, highly carbonaceous, moderately firm.
- Some Limestone - buff-light tan, occasionally clear spar calcite, cryptocrystalline-microcrystalline, moderately firm-dense, commonly pelletoidal, frequently ostracods.
- 4700-20 Shale - light-medium gray, moderately firm to moderately soft, slightly-moderately calcareous, silty in part, frequently specks of carbonaceous material, some Pyrite.
- 4720-40 Shale - as above.
- Siltstone ranging to very fine grained Sandstone - frequently light brown oil stain, with specks of dark brown oil on some clusters, some black dead oil, very weak dull yellow fluorescence, fair bright yellow halo-slow streaming cut, generally well consolidated, firm-moderately firm, slightly calcareous, moderately well sorted, sub-angular to sub-round, very poor intergranular porosity - tight, very poor matrix porosity.
- Shale - as above.
- 4740-60 Shale - light-medium gray, moderately soft, slightly-moderately calcareous, slightly pyritic.
- Siltstone occasionally ranging to very fine Sandstone - clear-milky-slightly white, generally well consolidated, slightly calcareous, moderately well sorted sub-angular to sub-round, mostly no show, some show as above, probably cavings.

4760-80 Sandstone - very fine grained commonly grading to Siltstone, generally light tan even oil stain, some pinpoint medium brown oil stain, some dull yellow fluorescence, weak dull yellow milky cut. Generally moderately unconsolidated, friable in part, slightly calcareous, moderately well sorted, sub-angular to sub-round, fair-good intergranular porosity, extremely fine grained. E-Logs indicate this all cavings.

Shale - light-medium gray, as above.

4780-4800 Shale - light-medium gray, occasionally brownish gray, moderately firm-moderately soft, slightly-moderately calcareous, sub-blocky, in part.

Siltstone - milky-clear-silty white, generally firm-hard, frequently siliceous, slightly-moderately calcareous, well consolidated, NSFOC.

4800-20 Shale - light-medium gray, frequently dark tan, moderately firm-moderately soft, slightly-moderately calcareous, moderately-highly carbonaceous in part, commonly sub-blocky, trace petroliferous material.

4820-40 Limestone - buff-light tan, cryptocrystalline, moderately firm, dense, trace clear spar calcite, trace pellets.

Shale - mixture of light-medium gray, slightly emerald-dark brown and moderately-highly carbonaceous, as above.

4840-60 Shale - light-medium gray, moderately firm, occasionally moderately soft, slightly-moderately calcareous, frequently pyritic, commonly sub-blocky, silty in part.

Some Siltstone as 4780-4800'.

4860-80 Shale - as above.

Siltstone - as above, but decided increase in quantity.

4880-4900 Shale - light-medium gray, frequently slightly emerald, medium brown, moderately soft-slightly firm in part, slightly-moderately calcareous, slightly-moderately carbonaceous in part.

Siltstone - milky-slightly white in part, moderately calcareous, generally well consolidated, firm-moderately firm, siliceous in part, NSFOC.

- 4900-20 Shale - light-medium gray, slightly calcareous, moderately firm-moderately soft, sub-blocky in part, slightly carbonaceous, silty in part.
- Siltstone - milky-slightly white, occasionally clear, moderately calcareous, generally well consolidated, firm-hard, frequently siliceous, trace of carbonaceous specks, trace Pyrite, dense, NSFOC.
- 4920-40 Shale - as above, frequently medium-dark brown, slightly calcareous, moderately-highly carbonaceous, moderately firm, sub-blocky in part.
- Some Siltstone, as above.
- 4940-60 Shale - dark gray-dark brownish gray-frequently black, slightly-moderately calcareous, moderately-highly carbonaceous, petroliferous in part, moderately firm-moderately soft, sub-blocky in part.
- 4960-80 Shale - as above.
- Limestone - light tan-occasionally medium brown, cryptocrystalline, moderately firm-moderately soft, slightly argillaceous in part, dense.
- 4980-5000 Shale - generally light gray, frequently medium gray, moderately soft, slightly-moderately calcareous.
- Siltstone as 4900-4920' above.
- 5000-20 Shale - light-medium gray commonly with slightly emerald tinge, frequently medium brown-grayish brown, moderately soft-moderately firm, slightly calcareous, sub-blocky in part, silty in part.
- Some Siltstone - as above.
- 5020-60 Shale - cream-slightly gray, frequently very slightly emerald, slightly calcareous, moderately soft,-moderately firm, sub-blocky in part, frequently pyritic, silty in part.
- Some Siltstone - as above.
- 5060-80 Sandstone very fine grained ranging to Siltstone - frequently light tan oil stain, some oil globules on clusters, no fluorescence, very weak-weak dull yellow milky-slow streaming cut. Generally moderately

unconsolidated, friable in part, slightly calcareous, moderately well sorted, sub-round to sub-angular, some fair intergranular porosity but extremely fine grained.

Shale - as above.

5080-5100

Sandstone - as above.

Shale - as above.

Siltstone - as above, NSFOC.

5100-20

Shale - as above.

Siltstone - as above.

Some Sandstone - as above, probably cavings.

5120-40

Shale - cream-light gray-frequently medium gray, slightly-moderately calcareous, sub-blocky, moderately soft-moderately firm.

Limy Dolomite-Dolomite - orangish brown, medium brown, cryptocrystalline, moderately firm-moderately soft in part, slightly carbonaceous, probably cavings.

Poor Sample.

5140-80

Shale - light-medium gray, frequently very slight tinge of emerald, moderately soft, slightly calcareous, trace Pyrite, silty in part.

Some Siltstone - clear-milky, slightly-moderately calcareous, slightly argillaceous in part, generally well consolidated, occasionally speck of carbonaceous material, some Pyrite.

5180-5200

Shale - medium-dark gray, frequently black and highly carbonaceous to slightly petroliferous in part, moderately firm-moderately soft, slightly-moderately carbonaceous, sub-blocky in part, trace Pyrite.

5200-60

Shale - as above.

Sandstone very fine grained occasionally grading to Siltstone, generally light-medium brown stain, common dark brown oil globules on grains, no fluorescence, weak-fair slow streaming bright yellow cut, slightly calcareous, moderately well consolidated, moderately well sorted, sub-round to sub-angular, slightly friable in part, some fair intergranular porosity, trace Pyrite, possibly cavings.

5260-90 Shale - generally medium gray, frequently dark gray, moderately soft, occasionally moderately firm, slightly-moderately calcareous, slightly carbonaceous, frequently pyritic, frequently oil coated Shale fragments which is caused by contamination.

5290-5320 Shale - mostly light-medium gray, slightly calcareous, slightly-moderately carbonaceous, moderately soft, silty in part, frequently pyritic, commonly some black Shale - moderately soft, bronze tinge in part from much microcrystalline Pyrite, slightly calcareous, highly carbonaceous-petroliferous. Oil coating some of these fragments.

5320-50 Shale - black with bronze cast-dark brownish gray, moderately soft, moderately firm, highly carbonaceous-petroliferous, non-calcareous to slightly calcareous, abundant Pyrite, sub-blocky in part.

5350-80 Shale - generally as above, but mostly dark gray-dark brownish gray.

5380-5410 Shale - as 5320-50' above, silty in part.

Some Siltstone, light gray, frequently argillaceous, slightly-moderately calcareous, frequently streaks-specks of carbonaceous material, moderately firm-moderately soft, some Pyrite, NSFOC.

5410-40 Shale - as 5350-5380' above.

5440-60 Shale - cream-light gray, occasionally buff, moderately soft-moderately firm, slightly-moderately calcareous, frequently specks of carbonaceous material, silty in part.

Some Sandstone - fine-very fine grained, clear-milky, moderately unconsolidated, slightly friable in part, moderately well sorted, sub-angular to sub-round, slightly calcareous in part. Faint-weak light brown oil stain in part, frequently oil droplets and pinpoint speck on grains.

contains much dull gold fluorescence, good bright yellow flash-streaming cut. Some fair-good intergranular porosity.

5460-80

Sandstone - as above.

5480-5500

Shale - light gray, frequently slightly emerald tinge, commonly cream, moderately soft, slightly-moderately calcareous, slightly carbonaceous in part.

Sandstone - as above, probably cavings.

Some Siltstone - as above, NSFOC.

5500-20

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

Siltstone - white-slightly gray, slightly-moderately calcareous, well consolidated, frequently slightly argillaceous, commonly pyritic, some specks of carbonaceous material.

5520-40

Siltstone - cream-light gray, generally hard-firm, slightly calcareous, argillaceous in part, frequently specks of carbonaceous material, abundant Pyrite, NSFOC, trace Glauconite.

Shale - light-medium gray, brownish gray, slightly calcareous, moderately firm, frequently very small specks of carbonaceous material, commonly silty, sub-blocky.

5540-80

Shale - as above, some black Shale as above, probably cavings.

Siltstone - as above.

5580-5640

Siltstone - grading to very fine grained Sandstone - some fine grained Sandstone - clear-milky-slightly gray in part, moderately well-well consolidated, slightly calcareous, moderately firm, moderately-poorly sorted, slightly argillaceous in part, sub-angular to sub-round, no apparent porosity, NSFOC, some specks of carbonaceous material in part, some Pyrite, slight show in part, but considered contamination.

Shale - light gray-cream, frequently medium gray, moderately soft, slightly-moderately calcareous, frequently very small specks of carbonaceous material.

5640-60

Siltstone ranging to very fine-fine Sandstone - as above.

Shale - as above, also commonly dark gray-black Shale.

Sample highly mixed and probably much caving.

5660-80

Sandstone fine-very fine grained, clear-milky, unconsolidated-moderately unconsolidated, slightly calcareous in part, moderately well sorted, sub-angular to sub-round, some Pyrite, some specks of carbonaceous material, generally no apparent porosity, possibly some poor-fair intergranular porosity, no stain, dull yellow fluorescence, very weak bright yellow milky-slow streaming cut, some Pyrite.

Some Siltstone - as above.

Some Shale - light-medium gray, occasionally cream, moderately soft, silty in part, slightly calcareous, some Pyrite.

5680-5700

Shale - as above.

Siltstone - as above.

TOTAL DEPTH - 5700' (Driller).

WELL REPORT

MONUMENT BUTTE FIELD
Balcron Oil Co. 24-12J Monument Butte-Federal
539' FSL, 1777' FWL, Sec. 12, T9S-R16E
Duchesne County, Utah
43-013-31409

CONFIDENTIAL

By

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MICROFICHE

WELLSITE GEOLOGIST'S REPORT

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By:

DENNIS C. REHRIG

Consulting Geologist

For:

DENNIS C. REHRIG & ASSOCIATES, INC.

**Balcron Oil Co. 24-12J Monument Butte-Federal
539' FSL, 1777' FWL, Sec. 12, T9S-R16E
Duchesne County, Utah**

GENERAL REVIEW

The Balcron Oil Co. 24-12J Monument Butte-Federal (SE $\frac{1}{4}$ SW $\frac{1}{4}$ S-12, T9S-R16E, Duchesne County, Utah) was drilled as an infill development well in the Monument Butte Field.

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

The surface hole was air drilled and surface casing was set prior to moving Union Drilling Co. Rig No. 17 on location and spudding on December 3, 1993. A two-man mud logging unit and wellsite geologist were on site from 1400' to total depth. The Green River and Douglas Creek formations were penetrated at 1466' and 4568' making them respectively 42' high and 51' high structurally to the offset G. S. Campbell 4 Government-C&O (NE $\frac{1}{4}$ SW $\frac{1}{4}$ S-12, T9S-R16E) control well.

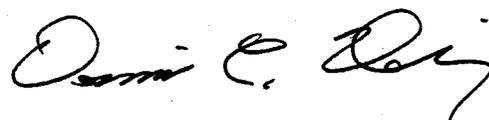
Numerous sandstone zones starting at 2682' appear prospective based on mud-log, sample shows, and/or E-logs. All sandstones which had significant gas and/or visual shows are noted elsewhere in this report.

This well was drilled to 5700' (Driller) and 5704' (Logger).

Subsequent to log review the operator elected to run 5 $\frac{1}{2}$ " production casing to total depth.

The rotary was released 12/9/93.

Respectfully submitted,



DENNIS C. REHRIG

**Balcron Oil Co. 24-12J Monument Butte-Federal
539' FSL, 1777' FWL, Sec. 12, T9S-R16E
Duchesne County, Utah**

WELL DATA

OPERATOR: Balcron Oil Company

LEASE & WELL NO.: Monument Butte-Federal 24-12J

LOCATION: 539' FSL, 1777' FWL, Sec. 12, T9S-R16E

PROSPECT/FIELD: Monument Butte Field

COUNTY: Duchesne

STATE: Utah

BASIN: Uintah

WELL TYPE: Development

BASIS FOR PROSPECT: Subsurface well control

ELEVATIONS: G.L. 5495', K.B. 5505'

SPUD DATE: 7:30 PM (MST) 12/3/93 (Rotary)

**OUT FROM UNDER
SURFACE CASING:** 7:30 PM (MST) 12/3/93 (Surface casing previously set)

DRILLING COMPLETED: 8:15 AM (MST) 12/8/93

LOGGING COMPLETED: 7:45 PM (MST) 12/8/93

RIG RELEASE: 5:00 PM (MST) 12/9/93

**TOTAL DAYS SPUD
THROUGH LOGGING:** 6 days

TOTAL DEPTH: 5,700' (Driller) 5,704' (Logger)

TOTAL DRILLING DAYS: 6 days (Surface casing previously set)

HOLE SIZE & CASING:

Hole Size

12¼" Surface to 286'
7⅞" 286' to T.D.

Casing Size

8⅝" surface to 286' K.B.
5½" Production Casing
to 5,685' K.B.

WELL STATUS:

Cased for completion attempt in Douglas Creek.

PENETRATION:

284' 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: XO.
BHA: Length 557', 18 jts-6" DC.
Tool joints: 6¼" OD, Type - XO.

MUD PUMP:

No. 1 - Gardner-Denver-FXN, 14" Stroke, 5½" liner.

MUD COMPANY:

Unibar Drilling Fluids, Inc.
Operator bought products and drilling contractor
mixed as needed.

MUD PROGRAM:

Air/Foam 286' - Total Depth. Loaded hole with
KCl/water for E-logs.

ELECTRIC OPEN-HOLE
LOGGING PROGRAM:

Halliburton Logging Services, Inc.
Engineer: Kirk Evatt
Witnessed by: Dennis Rehrig and Al Plunkett
- Dual Laterolog Micro-Guard, w/Gamma Ray,
Caliper and Tension Curves (278'-5702')
- Spectral Density/Dual Spaced Neutron (2500'-5659')

LOST CIRCULATION ZONE
OR DRILLING PROBLEMS:

Had some gas flow starting @ 2650' which probably
masked mud-log readings for remainder of hole, but
presented no drilling problems.

WELLSITE GEOLOGIST:

Dennis C. Rehrig

SAMPLING PROGRAM:

50' Samples from 1,400'-3,850'.
20-30' Samples from 3,850'-Total Depth,
Caught 20' samples except when penetration
was extremely fast, then caught 30' samples.

SAMPLE QUALITY:

Generally fair but fluid intermittently loading hole the
bottom 1700' caused sample quality problems at times.

SAMPLE DISPOSITION:

Utah Geological Survey - Salt Lake City, Utah

MUD LOGGING EQUIPMENT:

K-Tech - two man unit operated by
John Kuykendall and George Nichols.

CORE PROGRAM:

None.

DRILL STEM TEST:

None.

SURFACE CASING:

8 $\frac{3}{4}$ " Surface - 256' K.B.
Surface hole drilled and casing set by small air-impact
rig, details of casing and cement not available for
this report.

PRODUCTION CASING:

Ran 128 jts 5 $\frac{1}{2}$ " casing to 5685' K.B. Cemented
w/200 sxs lead Ultra-lite and 240 sxs 50-50 Poz.
Plug down @ 1:00 PM 12/9/93.

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DAILY DRILLING HISTORY

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

Days Since Spud	1993 Date	Depth	Ftg in Last 24 Hrs	Activity (hrs)			Bit No.	W O B (M)	RPM	PP	Activity
				Drlg	Maint. and Repairs	Other					
1	12/4	658'	372'	8.00	3.25	12.75	1	45	55	110/200	Move and rig up, pressure test, PU DC's, work on booster, drilling cement, drilling 7 7/8" hole with air and foam, service rig and pumps, work on booster, drilling, change air head rubber, drilling.
2	12/5	2338'	1680'	21.75	0.50	1.75	1	45	50	210	Drilling, survey, service rig and operate pipe rams, drilling, survey, drilling, survey, service rig, drilling, survey.
3	12/6	3582'	1244'	22.25	0.50	1.25	1	45	50	230/260	Survey, check pipe rams, drilling, service rig and pumps, survey, drilling, service rig, survey, drilling.
4	12/7	4698'	1116'	21.25	1.00	1.75	1	45	50	270	Drilling, survey, service rig, close and open pipe rams, drilling, service rig and pump, drilling, clean hole for survey, survey, service rig, drilling.

Days Since Spud	1993 Date	Depth	Ftg in Last 24 Hrs	Activity (hrs)			Bit No.	W O B (M)	RPM	PP	Activity
				Drlg	Maint. and Repairs	Other					
5	12/8	5627'	929'	19.75	0.25	4.00	1	45	50	310	Drilling, run survey, trip 4 stds out to unload hole, service rig, open and close rams, TIH - blow water to bottom, drilling, clean and circ hole w/air and foam, survey, clean and circ hole, drilling, service rig, drilling.
6	12/9	5700'	73'	2.25	0	21.75	1	45	30	310	Drilling, circ hole on air, put mud pump on hole, condition and circ hole for E-logs, TOH, RU loggers and log well, TIH w/DC's and 41 stds DP, RU laydown line and tubs, LD DP, TIH, LD DP and DC's, clean floor off, change casing heads, wait on tester, RU to test casing, test stack, RU to run casing and run 5½" production casing.
7	12/10	5700'	0'	-	-	11.00	-	-	-	-	Run 5½" casing, cement, WOC, release rig @ 5:00 PM 12/9/93.

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SURVEYS VERTICAL HOLE

<u>Drilling Depth</u>	<u>Degrees</u>
380'	1°
800'	1°
1300'	¾°
1800'	¾°
2300'	2°
2800'	2°
3300'	1¾°
3800'	2°
4300'	3°
4800'	2½°
5050'	3°

**Balcron Oil Co. 24-12J Monument Butte-Federal
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BIT RECORD

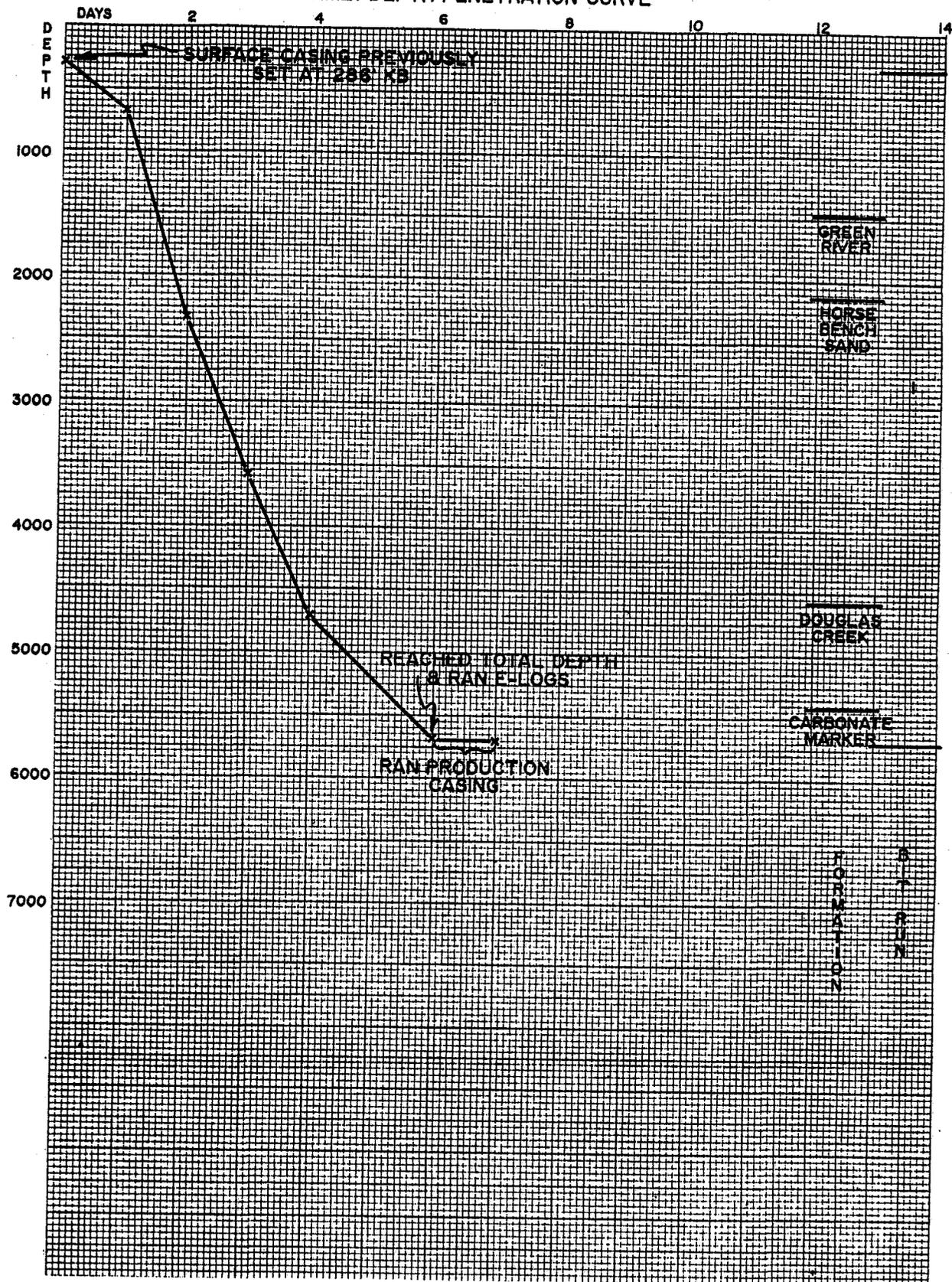
Contractor: Union Drilling Co.	Rig No. 17	Rig Make: Cabot-Franks	Collars: ODxDxLength BHA 6" x 2 1/4" x 557'	SPUD (for 7 1/4" hole) 12/3/93	Toolpusher/Drillers Dave Gray Scott Cawdinski Bill Satterfield Jeff White Chris Chapman
Operator: Balcron Oil Co.	Field: Monument Butte	Derrick: Cabot-Franks 97' mast	Drill Pipe-Size Wt 4 1/2" 16.6 E	Under Surface (rotary) 12/3/93	Operators Representative Al Plunkett
Lease: Federal	Well No. 24-12J	Pump #1: Gardner- Denver-FXN Liner 5 1/2" x 14"	Tool Joint: 6 1/4"	Total Depth 12/8/93	Mud Type: Air/Foam
State: Utah County: Duchesne Sec/T-ship/Range: SESW Sec. 12, T9S-R16E				Total Days Drilling 6	

Bit No	Bit Size	Bit Mfr	Bit Type	Jet Size 32nds	Ser. No.	Depth Out	Feet	Hrs	Ft/Hr	Cum Hrs	Wt 1000#	Rotary RPM	Vert Dev	Pump Press	PUMPS			MUD		DULL COND			Remarks Date, Formation, etc.			
															No	Liner ID	SPM	Wt	Vis	T	B	G				
1	7 1/4"	STC	F45A	Open	KW9965	5700'	5414	61	88.8	61	45	45/55	3°	Drilled with air & foam												

DENNIS C. REHRIG & ASSOCIATES, INC.

BALCRON OIL 24-12J MONUMENT BUTTE-FEDERAL
539' FSL 1777' FWL, SECTION 12, T 9 S-R 16 E
DUCHESE COUNTY, UTAH

TIME/DEPTH PENETRATION CURVE



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FORMATION TOPS

ELEVATIONS: G.L. 5495', K.B. 5505'

	<u>E-Log Top</u>	<u>Subsea Datum</u>	<u>Structural Relationship To Reference Wells *</u>
Green River	1466'	(+4039')	42' Hi
Horsebench Sand	2122'	(+3383')	59' Hi
2nd Garden Gulch	3773'	(+1732')	58' Hi
Yellow Marker	4403'	(+1102')	58' Hi
Douglas Creek	4568'	(+ 937')	51' Hi
2nd Douglas Creek Mkr	4802'	(+ 703')	59' Hi
Green Marker	4944'	(+ 561')	66' Hi
Carbonate Marker	5420'	(+ 85')	NDE

TOTAL DEPTH: 5704' Logger

* Reference Well:

G. S. Campbell 4 Government C&O
NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 12, T9S-R16E
Duchesne County, Utah

NOTE: Correlations and nomenclature that used by operator.

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REFERENCE WELL E-LOG FORMATION BOREHOLE AND SUBSEA DATUMS

G. S. Campbell
4 Government - C&O
NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 12, T9S-R16E
Duchesne County, Utah

K.B. 5462'

Formation

Green River	1465'	(+3997')
Horsebench Sand	2138'	(+3324')
2nd Garden Gulch	3788'	(+1674')
Yellow Marker	4418'	(+1044')
Douglas Creek	4576'	(+ 886')
2nd Douglas Creek Mkr	4818'	(+ 644')
Green Marker	4967'	(+ 495')
Carbonate Marker	NDE	

TOTAL DEPTH 5348' (Logger)

NOTE: Correlations and nomenclature that used by operator.

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SIGNIFICANT GAS KICKS AND/OR SHOWS

As reported by Mudlogger

<u>Formation</u>	<u>Sample Depth</u>	<u>Time</u>			<u>Total Gas</u> (Before-During-After)	
		<u>Min</u>	<u>During</u>	<u>After</u>		
Horsebench Sand	2647'-2657'	1.2	- 1.3	- 1.1	30-600-510	
Horsebench Sand	3530'-3540'	.8	- .4	- .7	710-930-640	
2nd Garden Gulch	4106'-4120'	1.0	- .5	- 1.0	380-380-380	Gas probably masked by gas from above.
2nd Garden Gulch	4306'-4332'	1.3	- .7	- 1.5	350-350-350	Gas probably masked by gas from above.
Douglas Creek	4724'-4736'	1.6	- .6	- 1.1	360-410-360	
Carbonate Marker	5462'-5483'	1.0	- .7	- .8	200-160-180	Gas erratic due to hole loading w/fluid.

NOTE: After gas flow at approximately 2650' gas reading appeared to be masked for rest of hole. Had much intermittent fluid loading hole in bottom approximate 700' of hole which caused sample quality and gas reading problems at times.

POTENTIAL SANDSTONE ZONES

Provided by Wellsite Geologist

E-Log Depth (Spectral Density/Dual Spaced Neutron Log)

2682'-2710'	
3541'-3545'	
3848'-3882'	Gross interval.
4080'-4086'	
4118'-4125'	
4311'-4322'	
4718'-4729'	
5020'-5026'	
5045'-5050'	
5187'-5196'	
5466'-5486'	

NOTE: Sandstone not always seen in samples due to sample quality or thinness of sandstone in some cases, also in lower portion of hole particularly, Sandstone with oil shows is present in samples but not confirmed by E-logs. Frequently, E-logs do not confirm samples. Hole loading with cuttings and fluid during connections are the primary causes of poor samples at times. Also once well penetrated some oil zones, most samples were partially-moderately contaminated with oil or an oily film.

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SAMPLE DESCRIPTIONS

By: Dennis C. Rehrig

Samples caught and lagged from trap of blue line by Mud Loggers. Samples were examined wet, under reflected light and 3x magnification from 1400' to total depth, for porosity identification samples were dried. Sample descriptions only tie moderately well or not at all to drill time log. This was due to air/foam drilling and rapid penetration rates. Sample quality was generally fair-good, except intermittent fluid loading the hole the bottom approximately 700' did present sample quality problems at times. All sample descriptions are interpretive and not tied to E-logs.

- | | |
|-----------|--|
| 1400-50 | Siltstone frequently grading to very fine grained Sandstone - clear-milky, occasionally cream, moderately calcareous, some specks of carbonaceous material, generally well consolidated, moderately hard-firm, no apparent porosity, NSFOC, frequently pyritic, some lithic particles. |
| | Shale - light-medium gray, frequently brownish gray, moderately firm-moderately soft, moderately calcareous, sub-blocky in part, frequently silty, moderately speckled with dark brown carbonaceous material. |
| 1450-1500 | Dolomite-Limy Dolomite - medium-dark brown, frequently orangish tan-olive tan, cryptocrystalline, firm, brittle in part, slightly argillaceous in part, moderately carbonaceous, frequently microcrystalline disseminated Pyrite, dull gold mineral fluorescence, no cut. |
| 1500-50 | Shale - medium-dark gray, occasionally dark brownish gray, slightly calcareous, firm-moderately firm, sub-blocky in part, moderately carbonaceous, frequently pyritic. |
| | Dolomite-Limy Dolomite - as above. |
| 1550-1700 | Dolomite-Limy Dolomite - as above. |
| 1700-50 | Dolomite-Limy Dolomite - abundant drab olive tan color, more argillaceous, abundant Pyrite. |

- 1750-1800 Dolomite-Limy Dolomite - slightly orangish brown-medium brown, occasionally drab olive tan, cryptocrystalline, firm-moderately firm, slightly argillaceous in part, dense, frequently pyritic, moderately-highly carbonaceous, dull gold mineral fluorescence, no cut.
- 1800-50 Limy Dolomite-Dolomite - generally medium brown, frequently tan to light grayish tan, cryptocrystalline, firm-moderately soft, slightly argillaceous in part, slightly-moderately carbonaceous, frequently pyritic, dull gold mineral fluorescence in part, no cut.
- 1850-1900 Dolomite-Limy Dolomite - drab olive tan-medium to dark brown as 1750-1800' above.
- 1900-2000 Dolomite-Limy Dolomite - commonly medium brown, slightly orange in part to frequently brownish gray-drab olive tan as 1750-1800' above.
- 2000-50 Limy Dolomite-Dolomite - grayish tan-slightly drab olive tan, frequently medium brown, moderately firm, slightly argillaceous in part, occasionally pyritic, dense, cryptocrystalline, dull gold mineral fluorescence in part, no cut.
- 2050-2100 Dolomite-Limy Dolomite - drab olive tan-medium to dark brown-frequently orangish brown, slightly petroliferous in part, dull gold mineral fluorescence in part, very weak dull yellow milky cut, in part.
- 2100-50 Dolomite-Limy Dolomite - slightly orangish brown, medium brown-tan, cryptocrystalline, moderately firm occasionally moderately soft, slightly argillaceous in part, dense, occasional Pyrite, slightly-moderately carbonaceous.
- 2150-2200 Limy Dolomite-Dolomite - drab olive brown-medium to dark brown, cryptocrystalline occasionally microcrystalline, firm-moderately firm, slightly-moderately carbonaceous, dense.
- Some Siltstone - clear-milky-slightly cream, slightly-moderately calcareous, siliceous in part, well consolidated, generally moderately hard-firm, dense, slightly argillaceous in part.
- Some Shale - light-medium gray, slightly-moderately calcareous, moderately firm-moderately soft, sub-blocky in part.

Frequently Siltstone and very fine grained Sandstone, generally clear-milky, occasionally cream, slightly calcareous in part, slightly argillaceous in part, some lithic-carbonaceous fragments, frequently pyritic, generally well-moderately consolidated, occasionally friable, moderately well sorted, sub-angular to sub-round, generally tight, probably some fair intergranular porosity, trace pinpoint medium brown oil stain, some dull yellow fluorescence, weak streaming-milky bluish yellow cut.

Some Shale - light-medium gray, frequently silty, slightly-moderately calcareous, moderately firm, sub-blocky in part, frequently speckled with carbonaceous material, pyritic in part.

2660-2700 No sample available. Hole blowing gas.

2700-50 Sandstone - milky-clear, generally fine grained ranges to very fine grained, highly unconsolidated, highly friable, generally clean, generally well-moderately well sorted, sub-round to sub-angular, very faint tan oil stain in part, very faint dull yellow fluorescence, good bright yellow flash cut. Good intergranular porosity.

2750-2800 Sandstone - clear-milky, generally very fine grained, ranges up to fine grained, highly unconsolidated, friable, clean, well sorted, sub-round to sub-angular, good intergranular porosity. Generally no observable stain or fluorescence, trace very faint tan oil stain, no observable fluorescence, weak immediate bluish yellow milky-flash cut.

Some Dolomite-Argillaceous Dolomite - tan - medium-dark brown, frequently drab olive tan, cryptocrystalline, moderately firm, slightly moderately carbonaceous, dense.

2800-50 Dolomite-Argillaceous Dolomite - generally as above, some medium-dark gray highly carbonaceous-slightly petroliferous particles, dull yellow fluorescence, weak bluish yellow streaming cut.

2850-2900 Dolomite-Argillaceous Dolomite - as above.

Shale - light-medium gray, frequently dark gray, slightly-moderately calcareous, moderately firm-moderately soft, sub-blocky in part.

Sandstone - very fine grained commonly ranging to silt - clear - milky - light tan oil stain in part, weak dull faint yellow fluorescence, fair

bluish yellow streaming-milky cut. Entire sample appears to have oily film on cutting surfaces, may be mostly contaminated. Generally unconsolidated-moderately consolidated, friable in part, slightly calcareous in part, some fair intergranular porosity.

2900-50

Limestone-Argillaceous Limestone - buff-tan, cryptocrystalline, dense.

Shale - grayish tan, frequently dark brown specks carbonaceous material, moderately carbonaceous, slightly-moderately calcareous, frequently silty.

Some loose sand grains probably cavings from above. Show from entire sample. Appears to be patchy oily film on cuttings which is visible as sample dries, assume this is contamination.

2950-3000

Dolomite-Limy Dolomite - tan-medium to dark brown, occasionally black and petroliferous, cryptocrystalline, moderately firm-moderately soft, frequently argillaceous, moderately-highly carbonaceous, trace Pyrite, dull gold-yellow fluorescence, entire sample appears to be coated with oily film.

Note: Due to pervasive oily contamination, all fluorescence and cuts are suspect unless some oil stain is observed. Therefore no reference to fluorescence or cut will be made again in this report unless it is considered pertinent to a likely reservoir quality rock.

3000-50

Limestone-Dolomitic Limestone - grayish tan-buff-tan, cryptocrystalline, moderately firm occasionally moderately soft, dense, slightly argillaceous in part, slightly carbonaceous in part, frequently pyritic.

3050-3100

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

Siltstone ranging to very fine grained Sandstone - clear-milky frequently slightly cream, argillaceous in part, slightly calcareous, moderately well consolidated, some slightly friable Sandstone, moderately well sorted, sub-angular, NSFOC.

3100-50

Dolomite-Limy Dolomite - as above.

- Some Limestone-Dolomitic Limestone - cream-buff, as above.
- 3150-3200 Dolomite-Limy Dolomite - as above.
- Limestone-Dolomitic Limestone - as above.
- Sample highly contaminated by oil.
- 3200-50 Shale - medium-dark gray, slightly-moderately calcareous, moderately firm, sub-blocky, moderately carbonaceous, much dark tan-grayish tan Shale, moderately-highly calcareous, moderately firm, sub-blocky, highly pyritic, moderately carbonaceous.
- Limestone-Dolomitic Limestone - cream, buff-light tan, as above.
- 3250-3300 Shale - as above.
- Limestone - cream-buff, cryptocrystalline-frequently microcrystalline, moderately firm, slightly argillaceous in part, dense.
- 3300-50 Limestone - light tan-occasionally buff, mottled in part, moderately firm-moderately soft, dense, cryptocrystalline-microcrystalline, some unidentifiable particles possibly pellets, slightly argillaceous in part.
- Shale - medium-dark gray and grayish tan, as above.
- 3350-3400 Limestone - as above, trace Pyrite.
- Some Shale - as above.
- 3400-50 Shale - commonly medium gray, frequently light gray, moderately-firm, slightly carbonaceous, frequently pyritic, slightly calcareous, some silt.
- Some Siltstone - occasionally ranging to very fine Sandstone, clear-milky, generally well consolidated, slightly calcareous, siliceous in part, generally tightly cement, moderately sorted, sub-angular, NSFOC.
- 3450-3500 Shale - mostly as above, some slightly emerald green, slightly calcareous, moderately firm.
- Limestone - as above.

Some Siltstone - as above.

Trace Sandstone very fine grained, clear-milky, some spotty dark brown oil stain, very weak dull yellow fluorescence and weak dull yellow streaming cut. Moderately well consolidated, moderately well sorted, slightly calcareous, sub-angular, some fair-good intergranular porosity.

3500-50

Sandstone very fine grained, occasionally fine grained, clear-milky, slightly calcareous in part, moderately unconsolidated, moderately well sorted, sub-angular to sub-round, fair-good intergranular porosity, some pinpoint dark brown oil stain, very faint dull yellow fluorescence and weak-fair dull yellow milky-slow streaming cut.

Some Shale - light-medium gray, moderately soft-moderately firm, slightly-moderately calcareous.

3550-3600

Dolomite-Limy Dolomite - medium tan to medium-dark brown, crypto-crystalline, dense, moderately firm.

Shale - light-medium gray, as above.

Limestone - light tan-buff, as above.

3600-50

Dolomite-Limy Dolomite - as above.

Some Shale - as above.

3650-3700

Shale - frequently slightly greenish tinge, light-medium gray, moderately firm, slightly calcareous, sub-blocky in part.

Limestone-Dolomitic Limestone - generally light tan-frequently moderately-dark brown, cryptocrystalline, moderately firm, dense.

Some Siltstone - clear-milky-slightly white in part, generally hard, frequently siliceous, well consolidated, slightly-moderately calcareous, some carbonaceous specks, NSFOC.

3700-50

Shale - as above.

Limestone-Dolomitic Limestone - generally as above, mostly cream-buff-light tan.

Sandstone very fine grained grading to Siltstone - generally clear-milky, slightly-moderately calcareous in part, generally well consolidated, moderately sorted, sub-angular, siliceous in part, no apparent porosity, NSFOC.

3750-3800

Limestone - buff-light tan, frequently cream, cryptocrystalline, moderately firm, dense, frequently ostracods, possibly some pellets.

Shale, Siltstone, and Sandstone - as above.

3800-50

Limestone - buff-tan-light brown as above, just trace of ostracods.

Siltstone occasionally grading to very fine Sandstone - clear-milky, occasionally slightly white, generally well consolidated, hard-firm, commonly siliceous, no apparent porosity, NSFOC.

3850-80

Sandstone extremely fine grained commonly grading to Siltstone, generally well consolidated, slightly-moderately calcareous, clear-milky-slightly white in part, moderately well sorted, sub-angular to sub-round, generally no apparent porosity, NSFOC.

3880-3900

Shale - light-medium gray, frequently grayish tan, slightly-moderately calcareous, moderately firm-moderately soft.

Sandstone - very fine grained, clear-milky, slightly calcareous in part, generally moderately consolidated, slightly friable in part, moderately well sorted, sub-angular to sub-round, trace pinpoint dark brown oil stain, some dull yellow fluorescence, weak bright yellow milky cut.

3900-20

Limestone - buff-slightly cream in part, cryptocrystalline, firm, dense, some pellets and unidentifiable particles.

3920-40

Limestone - as above.

Shale - light gray commonly light emerald, slightly calcareous, moderately firm.

Some Sandstone as above, but slightly more pinpoint dark brown oil stain, with show as above.

- 3940-60 Limestone - light tan-buff, cryptocrystalline-occasionally microcrystalline, firm, dense, frequently ostracods, possibly some pellets.
- Shale - light gray, occasionally slightly emerald, slightly calcareous, moderately firm, abundant Pyrite in part, silty in part.
- Some Siltstone - clear-milky-slightly white in part, hard-firm, siliceous in part, slightly-moderately calcareous, frequently pyritic.
- 3960-80 Shale - light-medium gray, moderately firm-moderately soft, slightly calcareous, slightly carbonaceous in part, commonly pyritic, slightly silty in part.
- Some Siltstone - as above.
- 3980-4000 Siltstone - occasionally grading to very fine Sandstone as above, NSFOC, trace Pyrite.
- Some Shale as above - trace Pyrite.
- 4000-20 Shale - light gray, moderately firm, slightly calcareous, sub-blocky, frequently pyritic.
- 4020-40 Shale - generally light gray as above, frequently tan-medium brown Shale, slightly calcareous, firm-moderately firm, sub-blocky in part.
- Dolomite-Limy Dolomite - tan-orangish tan, cryptocrystalline, moderately soft-moderately firm, slightly-moderately carbonaceous.
- 4040-60 Shale - light gray-slightly emerald-tannish gray, as above.
- Some Siltstone - as above.
- 4060-90 Shale - light gray-slightly emerald, as above.
- Siltstone - as above.
- 4090-4120 Sandstone - very fine grained commonly ranging to Siltstone, commonly light brown stain with oil globules coating grain cluster, very weak dull yellow fluorescence in part, fair-good bright yellow flash-streaming cut, generally moderately consolidated-unconsolidated, moderately well

sorted, sub-angular to sub-round, fair-good intergranular porosity, but extremely fine grained. Best show in well to this point.

Shale - light gray-cream-very slightly emerald, slightly calcareous, moderately soft, sub-blocky in part.

4120-50

Shale - as above, silty in part.

Siltstone - milky-light white in part, moderately firm-moderately hard in part, siliceous in part, slightly calcareous, frequently slightly argillaceous, well consolidated, NSFOC.

Some Sandstone as above, probably cavings.

4150-80

Shale - tan-light gray-slightly emerald, moderately firm-moderately soft, slightly-moderately calcareous, sub-blocky in part, occasionally pyritic.

Some Siltstone as above, frequently Siltstone ranging to very fine Sandstone with pinpoint dark brown oil stain, very weak faint dull yellow fluorescence, and very weak-weak slow bright yellow streaming cut, moderately consolidated to unconsolidated, frequently friable, moderately sorted, slightly calcareous in part, poor-fair intergranular porosity, extremely fine grained. May be cavings.

4180-4210

Shale - light-medium gray, very slightly emerald in part, as above.

Siltstone - as above, NSFOC.

Limestone - buff-light tan, cryptocrystalline, moderately firm, dense, frequently ostracods.

4210-4240

Shale - generally medium gray, occasionally dark gray, moderately soft-occasionally moderately firm, slightly-moderately calcareous, slightly carbonaceous, sub-blocky in part.

4240-70

Shale - generally medium gray-frequently brownish gray-medium brown, moderately firm-moderately soft, slightly-moderately calcareous, frequently pyritic, sub-blocky, slightly carbonaceous.

- 4270-4300 Shale - light-medium gray-slightly emerald as above, frequently dark brown-black petroliferous Shale - soft-moderately soft, moderately-slightly calcareous, highly carbonaceous.
- Some Siltstone - clear-milky-slightly white in part, generally firm-moderately hard, slightly calcareous, siliceous in part, dense, NSFOC.
- Some Limestone - light tan-buff, cryptocrystalline, moderately firm, dense, frequently ostracods, trace pellets.
- 4300-60 Siltstone - as above.
- Shale - as above.
- 4360-90 Siltstone - occasionally ranging to very fine Sandstone - clear-milky-frequently white, generally well consolidated, firm-moderately hard, frequently siliceous, slightly-moderately calcareous, moderately sorted, generally no apparent porosity, trace pinpoint dark brown oil stain, no fluorescence, very weak milky dull yellow cut, argillaceous in part, occasional Pyrite.
- Some Shale - cream-light gray, moderately soft, slightly-moderately calcareous, occasionally pyritic.
- 4390-4420 Shale - medium gray, moderately firm-moderately soft, slightly calcareous, sub-blocky.
- Some Siltstone as above, NSFOC.
- 4420-50 Shale - as above, also frequently dark gray-black Shale, moderately firm-highly carbonaceous-petroliferous, slightly calcareous.
- Limestone - light tan, cryptocrystalline, moderately firm, occasionally siliceous, dense, frequently ostracods, pellets, trace pisolites.
- Some Siltstone - as above.
- 4450-80 Siltstone - clear-milky, firm-moderately hard, commonly siliceous, slightly-moderately calcareous, dense, well consolidated, NSFOC.
- Limestone - as above.

- Shale - light-medium gray-slightly emerald, as above.
- 4480-4510 Sandstone very fine grained commonly ranging to Siltstone - generally milky-slightly white, moderately well consolidated, slightly calcareous, slightly argillaceous in part, moderately well sorted, sub-angular to sub-round, fair porosity, NSFOC.
- 4510-40 Sandstone very fine grained commonly ranging to Siltstone - generally as above, but poorer sorting, more argillaceous, frequently specks of carbonaceous material, some Pyrite, trace Glauconite, NSFOC.
- 4540-70 Shale - light-medium gray, frequently slightly emerald tinge, moderately firm-moderately soft, slightly calcareous.
- Siltstone - generally milky-slightly white, slightly-moderately calcareous, moderately firm-hard, siliceous in part, specks of carbonaceous material, some Pyrite.
- 4570-4600 Shale as above, frequently pyritic.
- Some Limestone-Dolomitic Limestone - medium brown, cryptocrystalline, moderately firm, dense.
- 4600-20 Shale - light-medium gray, occasionally light emerald tinge, slightly-moderately calcareous, moderately firm-moderately soft, frequently pyritic.
- Siltstone - as above.
- Some Limestone-Dolomitic Limestone - as above.
- 4620-40 Shale - as above.
- Siltstone - as above.
- 4640-60 Shale - tannish gray, light-medium gray, moderately firm-moderately soft, slightly-moderately calcareous, frequently pyritic.
- Some Limestone - light tan-buff, cryptocrystalline, moderately firm, dense, commonly ostracods.

Some Siltstone - as above.

4660-80

Shale - light-medium gray-frequently slightly emerald, moderately firm-moderately soft, slightly-moderately calcareous.

Siltstone - milky-slightly white, generally firm-frequently hard, frequently siliceous, slightly-moderately calcareous, slightly argillaceous in part, frequently pyritic.

Some speck carbonaceous material, trace Glauconite, NSFOC.

4680-4700

Shale - light-medium gray frequently slightly emerald tinge, also commonly dark brown, slightly calcareous, highly carbonaceous, moderately firm.

Some Limestone - buff-light tan, occasionally clear spar calcite, cryptocrystalline-microcrystalline, moderately firm-dense, commonly pelletoidal, frequently ostracods.

4700-20

Shale - light-medium gray, moderately firm to moderately soft, slightly-moderately calcareous, silty in part, frequently specks of carbonaceous material, some Pyrite.

4720-40

Shale - as above.

Siltstone ranging to very fine grained Sandstone - frequently light brown oil stain, with specks of dark brown oil on some clusters, some black dead oil, very weak dull yellow fluorescence, fair bright yellow halo-slow streaming cut, generally well consolidated, firm-moderately firm, slightly calcareous, moderately well sorted, sub-angular to sub-round, very poor intergranular porosity - tight, very poor matrix porosity.

Shale - as above.

4740-60

Shale - light-medium gray, moderately soft, slightly-moderately calcareous, slightly pyritic.

Siltstone occasionally ranging to very fine Sandstone - clear-milky-slightly white, generally well consolidated, slightly calcareous, moderately well sorted sub-angular to sub-round, mostly no show, some show as above, probably cavings.

- 4760-80 Sandstone - very fine grained commonly grading to Siltstone, generally light tan even oil stain, some pinpoint medium brown oil stain, some dull yellow fluorescence, weak dull yellow milky cut. Generally moderately unconsolidated, friable in part, slightly calcareous, moderately well sorted, sub-angular to sub-round, fair-good intergranular porosity, extremely fine grained. E-Logs indicate this all cavings.
- Shale - light-medium gray, as above.
- 4780-4800 Shale - light-medium gray, occasionally brownish gray, moderately firm-moderately soft, slightly-moderately calcareous, sub-blocky, in part.
- Siltstone - milky-clear-silty white, generally firm-hard, frequently siliceous, slightly-moderately calcareous, well consolidated, NSFOC.
- 4800-20 Shale - light-medium gray, frequently dark tan, moderately firm-moderately soft, slightly-moderately calcareous, moderately-highly carbonaceous in part, commonly sub-blocky, trace petroliferous material.
- 4820-40 Limestone - buff-light tan, cryptocrystalline, moderately firm, dense, trace clear spar calcite, trace pellets.
- Shale - mixture of light-medium gray, slightly emerald-dark brown and moderately-highly carbonaceous, as above.
- 4840-60 Shale - light-medium gray, moderately firm, occasionally moderately soft, slightly-moderately calcareous, frequently pyritic, commonly sub-blocky, silty in part.
- Some Siltstone as 4780-4800'.
- 4860-80 Shale - as above.
- Siltstone - as above, but decided increase in quantity.
- 4880-4900 Shale - light-medium gray, frequently slightly emerald, medium brown, moderately soft-slightly firm in part, slightly-moderately calcareous, slightly-moderately carbonaceous in part.
- Siltstone - milky-slightly white in part, moderately calcareous, generally well consolidated, firm-moderately firm, siliceous in part, NSFOC.

- 4900-20 Shale - light-medium gray, slightly calcareous, moderately firm-moderately soft, sub-blocky in part, slightly carbonaceous, silty in part.
- Siltstone - milky-slightly white, occasionally clear, moderately calcareous, generally well consolidated, firm-hard, frequently siliceous, trace of carbonaceous specks, trace Pyrite, dense, NSFOC.
- 4920-40 Shale - as above, frequently medium-dark brown, slightly calcareous, moderately-highly carbonaceous, moderately firm, sub-blocky in part.
- Some Siltstone, as above.
- 4940-60 Shale - dark gray-dark brownish gray-frequently black, slightly-moderately calcareous, moderately-highly carbonaceous, petroliferous in part, moderately firm-moderately soft, sub-blocky in part.
- 4960-80 Shale - as above.
- Limestone - light tan-occasionally medium brown, cryptocrystalline, moderately firm-moderately soft, slightly argillaceous in part, dense.
- 4980-5000 Shale - generally light gray, frequently medium gray, moderately soft, slightly-moderately calcareous.
- Siltstone as 4900-4920' above.
- 5000-20 Shale - light-medium gray commonly with slightly emerald tinge, frequently medium brown-grayish brown, moderately soft-moderately firm, slightly calcareous, sub-blocky in part, silty in part.
- Some Siltstone - as above.
- 5020-60 Shale - cream-slightly gray, frequently very slightly emerald, slightly calcareous, moderately soft-moderately firm, sub-blocky in part, frequently pyritic, silty in part.
- Some Siltstone - as above.
- 5060-80 Sandstone very fine grained ranging to Siltstone - frequently light tan oil stain, some oil globules on clusters, no fluorescence, very weak-weak dull yellow milky-slow streaming cut. Generally moderately

unconsolidated, friable in part, slightly calcareous, moderately well sorted, sub-round to sub-angular, some fair intergranular porosity but extremely fine grained.

Shale - as above.

5080-5100

Sandstone - as above.

Shale - as above.

Siltstone - as above, NSFOC.

5100-20

Shale - as above.

Siltstone - as above.

Some Sandstone - as above, probably cavings.

5120-40

Shale - cream-light gray-frequently medium gray, slightly-moderately calcareous, sub-blocky, moderately soft-moderately firm.

Limy Dolomite-Dolomite - orangish brown, medium brown, cryptocrystalline, moderately firm-moderately soft in part, slightly carbonaceous, probably cavings.

Poor Sample.

5140-80

Shale - light-medium gray, frequently very slight tinge of emerald, moderately soft, slightly calcareous, trace Pyrite, silty in part.

Some Siltstone - clear-milky, slightly-moderately calcareous, slightly argillaceous in part, generally well consolidated, occasionally speck of carbonaceous material, some Pyrite.

5180-5200

Shale - medium-dark gray, frequently black and highly carbonaceous to slightly petroliferous in part, moderately firm-moderately soft, slightly-moderately carbonaceous, sub-blocky in part, trace Pyrite.

5200-60

Shale - as above.

- Sandstone very fine grained occasionally grading to Siltstone, generally light-medium brown stain. common dark brown oil globules on grains. no fluorescence. weak-fair slow streaming bright yellow cut. slightly calcareous, moderately well consolidated, moderately well sorted, sub-round to sub-angular, slightly friable in part, some fair intergranular porosity, trace Pyrite, possibly cavings.
- 5260-90 Shale - generally medium gray, frequently dark gray, moderately soft, occasionally moderately firm, slightly-moderately calcareous, slightly carbonaceous, frequently pyritic, frequently oil coated Shale fragments which is caused by contamination.
- 5290-5320 Shale - mostly light-medium gray, slightly calcareous, slightly-moderately carbonaceous, moderately soft, silty in part, frequently pyritic, commonly some black Shale - moderately soft, bronze tinge in part from much microcrystalline Pyrite, slightly calcareous, highly carbonaceous-petroliferous. Oil coating some of these fragments.
- 5320-50 Shale - black with bronze cast-dark brownish gray, moderately soft, moderately firm, highly carbonaceous-petroliferous, non-calcareous to slightly calcareous, abundant Pyrite, sub-blocky in part.
- 5350-80 Shale - generally as above, but mostly dark gray-dark brownish gray.
- 5380-5410 Shale - as 5320-50' above, silty in part.
- Some Siltstone, light gray, frequently argillaceous, slightly-moderately calcareous, frequently streaks-specks of carbonaceous material, moderately firm-moderately soft, some Pyrite, NSFOC.
- 5410-40 Shale - as 5350-5380' above.
- 5440-60 Shale - cream-light gray, occasionally buff, moderately soft-moderately firm, slightly-moderately calcareous, frequently specks of carbonaceous material, silty in part.
- Some Sandstone - fine-very fine grained, clear-milky, moderately unconsolidated, slightly friable in part, moderately well sorted, sub-angular to sub-round, slightly calcareous in part. Faint-weak light brown oil stain in part. frequently oil droplets and pinpoint speck on grains.

contains much dull gold fluorescence, good bright yellow flash-streaming cut. Some fair-good intergranular porosity.

5460-80

Sandstone - as above.

5480-5500

Shale - light gray, frequently slightly emerald tinge, commonly cream, moderately soft, slightly-moderately calcareous, slightly carbonaceous in part.

Sandstone - as above, probably cavings.

Some Siltstone - as above, NSFOC.

5500-20

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

Siltstone - white-slightly gray, slightly-moderately calcareous, well consolidated, frequently slightly argillaceous, commonly pyritic, some specks of carbonaceous material.

5520-40

Siltstone - cream-light gray, generally hard-firm, slightly calcareous, argillaceous in part, frequently specks of carbonaceous material, abundant Pyrite, NSFOC, trace Glauconite.

Shale - light-medium gray, brownish gray, slightly calcareous, moderately firm, frequently very small specks of carbonaceous material, commonly silty, sub-blocky.

5540-80

Shale - as above, some black Shale as above, probably cavings.

Siltstone - as above.

5580-5640

Siltstone - grading to very fine grained Sandstone - some fine grained Sandstone - clear-milky-slightly gray in part, moderately well-well consolidated, slightly calcareous, moderately firm, moderately-poorly sorted, slightly argillaceous in part, sub-angular to sub-round, no apparent porosity, NSFOC, some specks of carbonaceous material in part, some Pyrite, slight show in part, but considered contamination.

Shale - light gray-cream, frequently medium gray, moderately soft, slightly-moderately calcareous, frequently very small specks of carbonaceous material.

5640-60

Siltstone ranging to very fine-fine Sandstone - as above.

Shale - as above, also commonly dark gray-black Shale.

Sample highly mixed and probably much caving.

5660-80

Sandstone fine-very fine grained, clear-milky, unconsolidated-moderately unconsolidated, slightly calcareous in part, moderately well sorted, sub-angular to sub-round, some Pyrite, some specks of carbonaceous material, generally no apparent porosity, possibly some poor-fair intergranular porosity, no stain, dull yellow fluorescence, very weak bright yellow milky-slow streaming cut, some Pyrite.

Some Siltstone - as above.

Some Shale - light-medium gray, occasionally cream, moderately soft, silty in part, slightly calcareous, some Pyrite.

5680-5700

Shale - as above.

Siltstone - as above.

TOTAL DEPTH - 5700' (Driller).

DENNIS REHRIG & ASSOCIATES, INC.

OIL & GAS CONSULTING

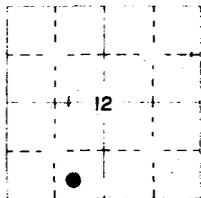
GEOLOGIC WELL LOG

RECEIVED

JAN 03 1994

DIVISION OF
OIL, GAS & MINING

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



BALCRON OIL 24-12J MONUMENT BUTTE-FEDERAL
539' FSL 1777' FWL, SECTION 12, T 9 S-R 16 E
DUCHESE COUNTY, UTAH

ELEVATIONS: 5495' GL 5505' KB

SPUD: 7:30 PM (MST) 12/3/93 (Rotary)

OUT FROM UNDER SURF. CSG.: 7:30 PM (MST) 12/3/93

(Surface casing previously set)

DATE DRLG. COMP.: 8:15 AM (MST) 12/8/93

DATE WELL COMPLETED: 5:00 PM (MST) 12/9/93

STATUS: CASED FOR OIL COMPLETION ATTEMPT

SURF. CSG.: 286' OF 8 5/8"

PRODUCTION CSG: 5 1/2" TO 5685'

CORES: NONE

DRILL STEM TESTS: NONE

CONTRACTOR: UNION DRILLING CO.

RIG: 17

DERRICK: CABOT-FRANKS, 97' MAST (DOUBLE)

DRAWWORKS: CABOT-FRANKS, POWERED BY 1
D-343 DIESEL CAT

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

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

COLLARS: BHA 557' - 18 JTS OF 6" DC's

MUD SYSTEM: AIR/FOAM 286' - TOTAL DEPTH
LOADED HOLE W/ KCL-WATER FOR E-LOGS

TOTAL BITS: 1 ROTARY AIR/FOAM DRILLED

TOTAL DAYS TO LOG POINT: 6 TO COMPL: 7

T.D. DRILLER 5700' LOGGER 5704'

PENETRATION: 284' BELOW CARBONATE MARKER

ROCK TYPE

(Consistent with American Stratigraphic Company)

	CONGLOMERATE		DOLOMITE
	SANDSTONE		ANHYDRITE
	SILTSTONE		SALT
	SHALE		COAL
	BENTONITE		IGNEOUS
	CHERT		VOLCANIC
	LIMESTONE		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		CEPHALOPOD
	CRINOID		GASTROPOD
	PELECYPOD		ECHINOID
	BIOLASTIC or FRAGMENTAL		FOSSILS UNIDENTIFIABLE
	CORAL		OOLITES
	STROMATOPOROID		PISOLITE 2mm or over
	BRYOZOA		PSEUDO OOLITES or PELLETS
	BRACHIOPOD		INTRACLASTS
	OSTRACOD		

FRAMEWORK ALGAE

	SKELETAL
	OOLITIC or ONCOLYTIC

NON-FRAMEWORK ALGAE

	NON-DESCRIPT
	LAMINATED

MISCELLANEOUS

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

POROSITY TYPES

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

OIL STAINS - stain present

●	EVEN STAINING, FLOURESCES IN SOLVENT
●	SPOTTED STAINING, FLOURESCES IN SOLVENT
D	DEAD, ASPHALTIC, BITUMEN, ETC.
○	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 (Ω)
Rmf	MUD FILTRATE RESISTIVITY (Ω)

ELECTRIC LOG GAMMA RAY / CALIPER

INTERPRETED LITHOLOGY AND DEPTH

DRILLING PENETRATION RATE (MIN / FT)

CASING & PERFORATIONS
CORE & DST
OIL SHOWS
POROSITY (%)

INTERPRETATIVE LITHOLOGIC & SAMPLE DESCRIPTIONS BASED ON SAMPLES CAUGHT BY MUD LOGGERS

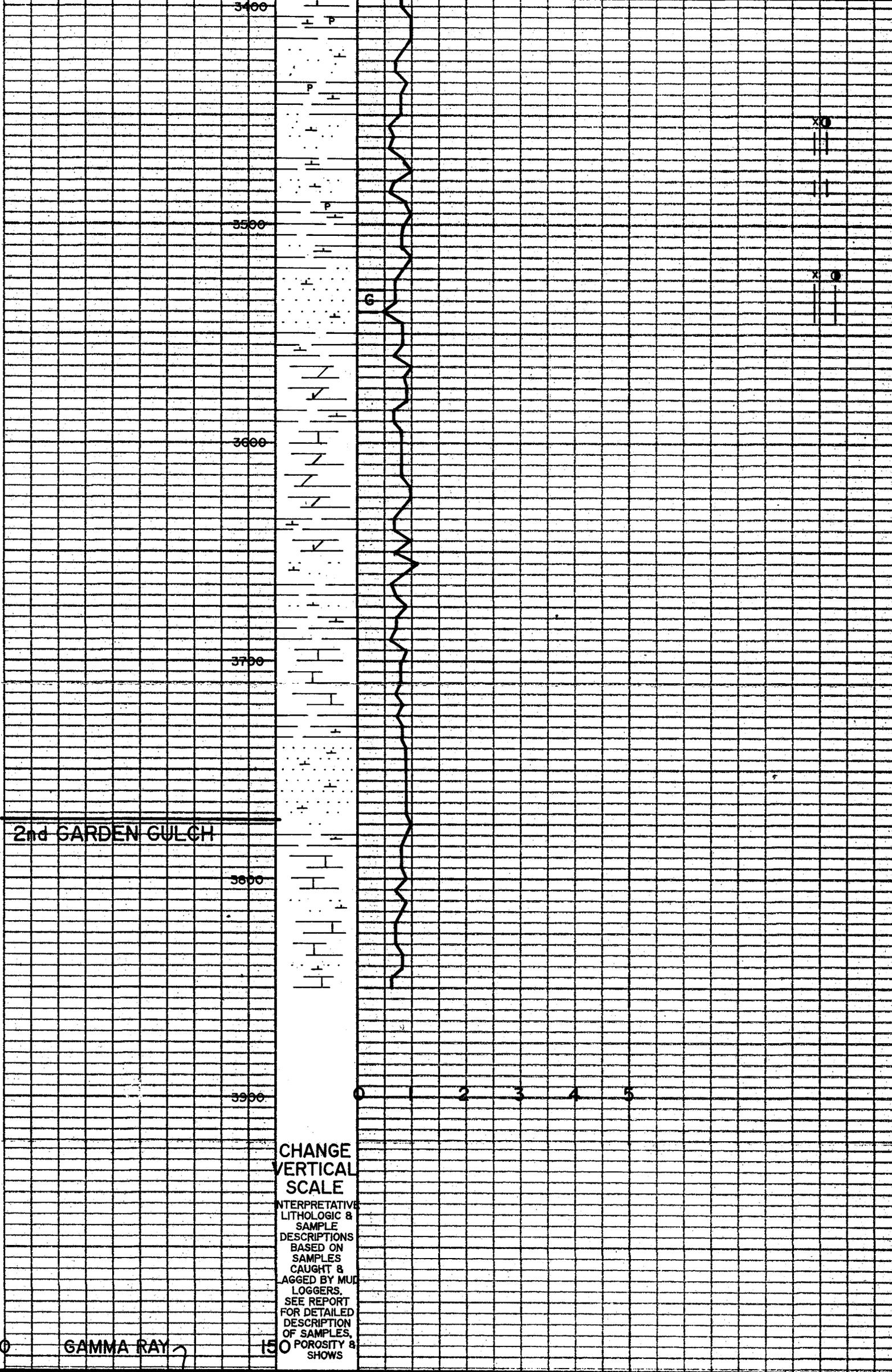
SEE REPORT FOR DETAILED DESCRIPTION OF SAMPLES, POROSITY & SHOWS.

E-LOG TOPS

GREEN RIVER

SAMPLES EXAMINED FROM 1400'-TOTAL DEPTH, SEE SAMPLE DESCRIPTIONS IN REPORT FOR DETAILS.





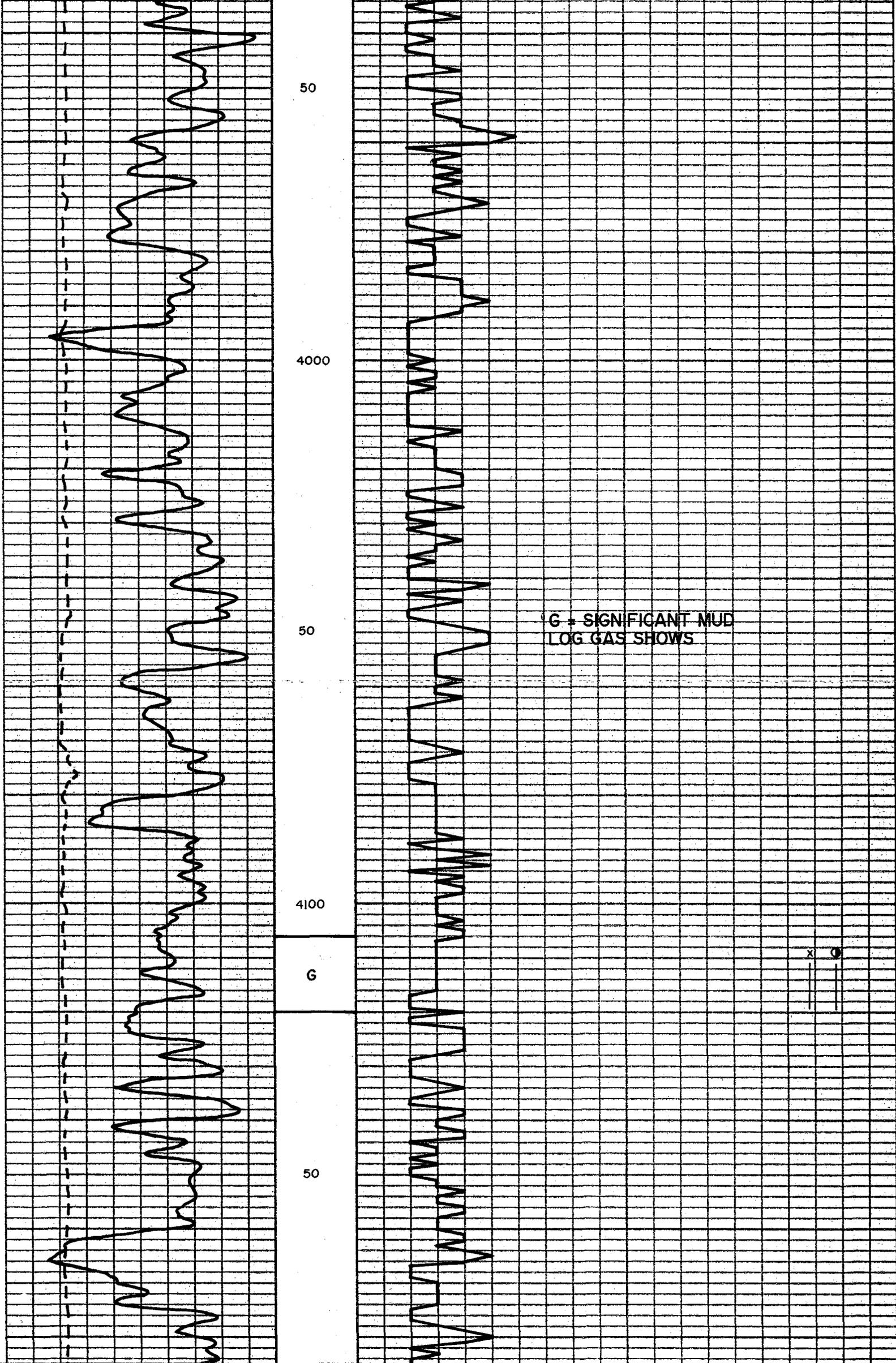
2nd GARDEN GULCH

**CHANGE
VERTICAL
SCALE**

INTERPRETATIVE
LITHOLOGIC &
SAMPLE
DESCRIPTIONS
BASED ON
SAMPLES
CAUGHT &
LOGGED BY MUD
LOGGERS.
SEE REPORT
FOR DETAILED
DESCRIPTION
OF SAMPLES.
150 POROSITY &
SHOWS

GAMMA RAY

150



50

4000

50

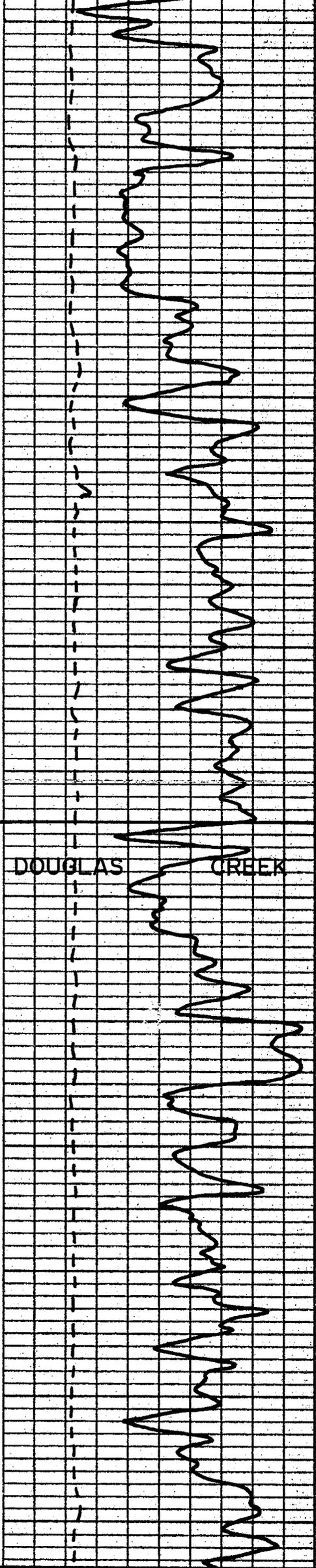
4100

G

50

G = SIGNIFICANT MUD LOG GAS SHOWS

X



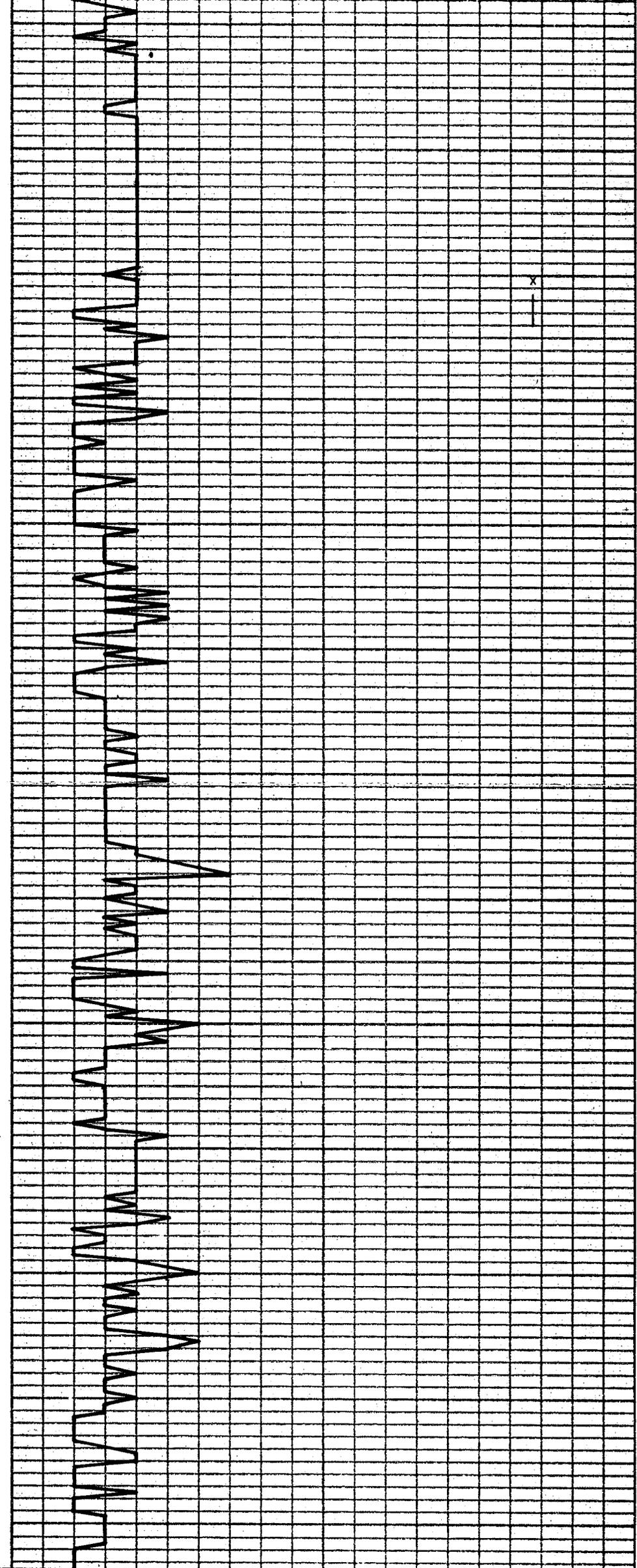
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4500

50

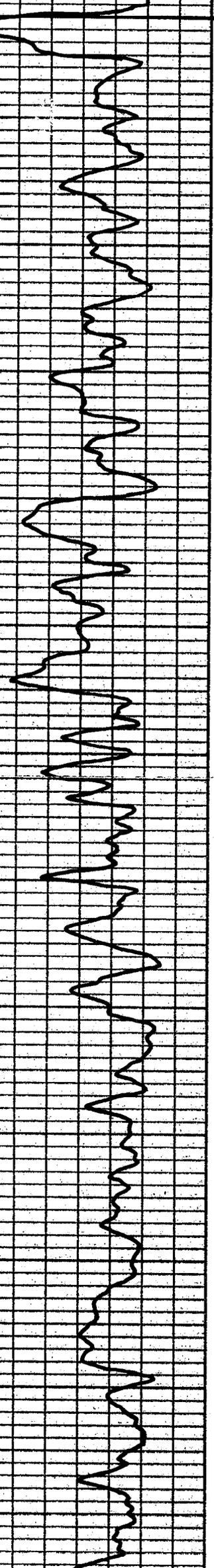
4600

50



x

GREEN MARKER



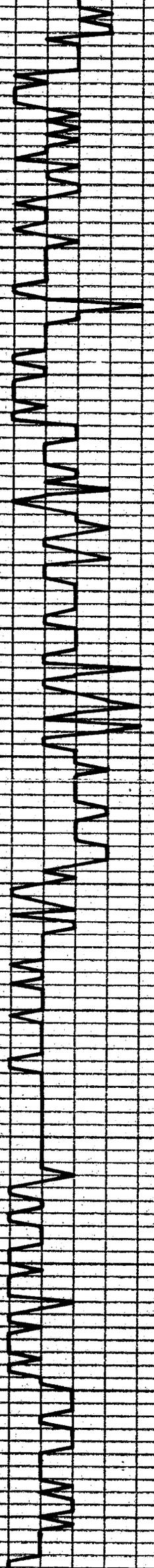
50

5000

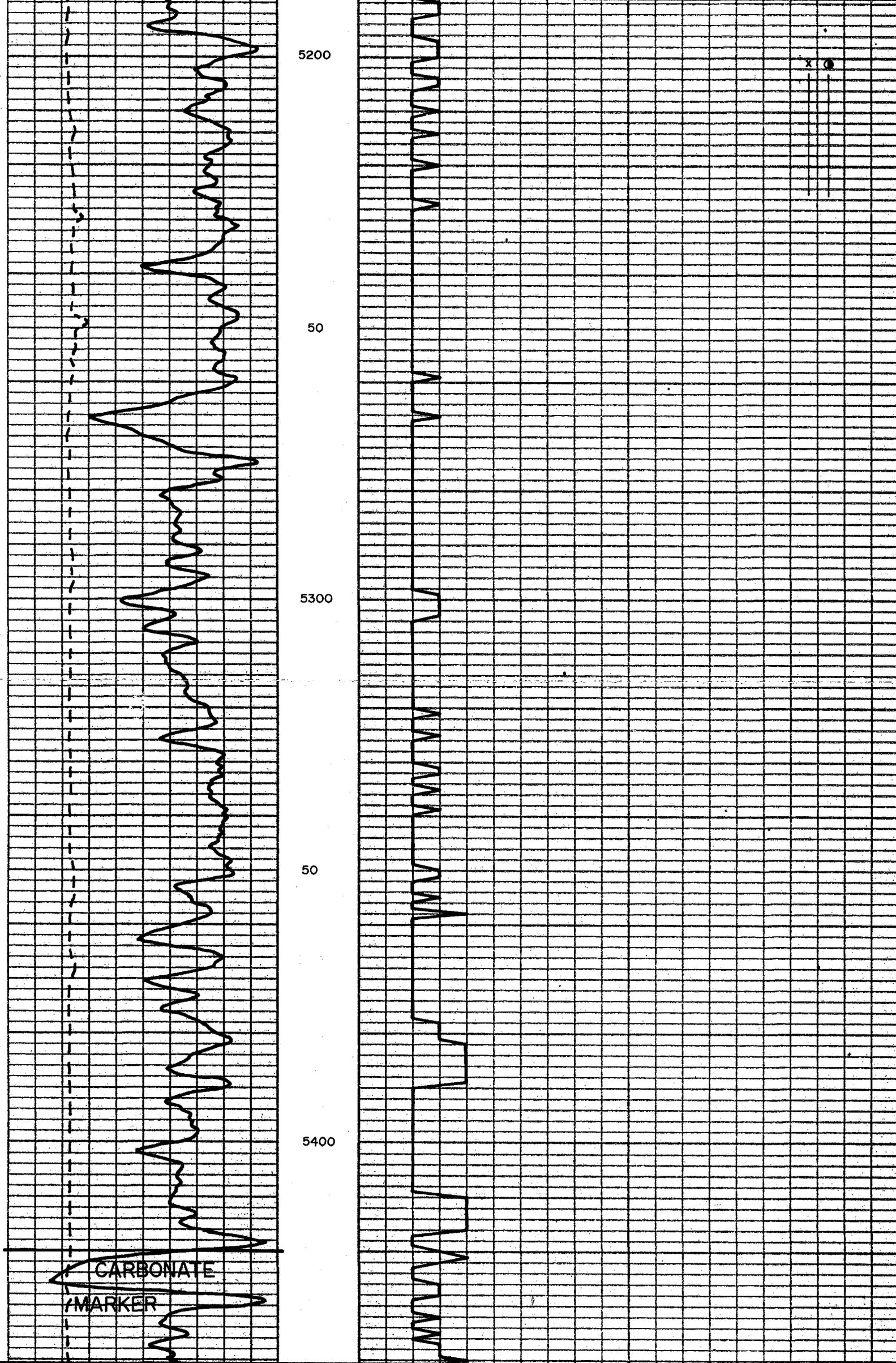
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5100

50



x 0



5200

50

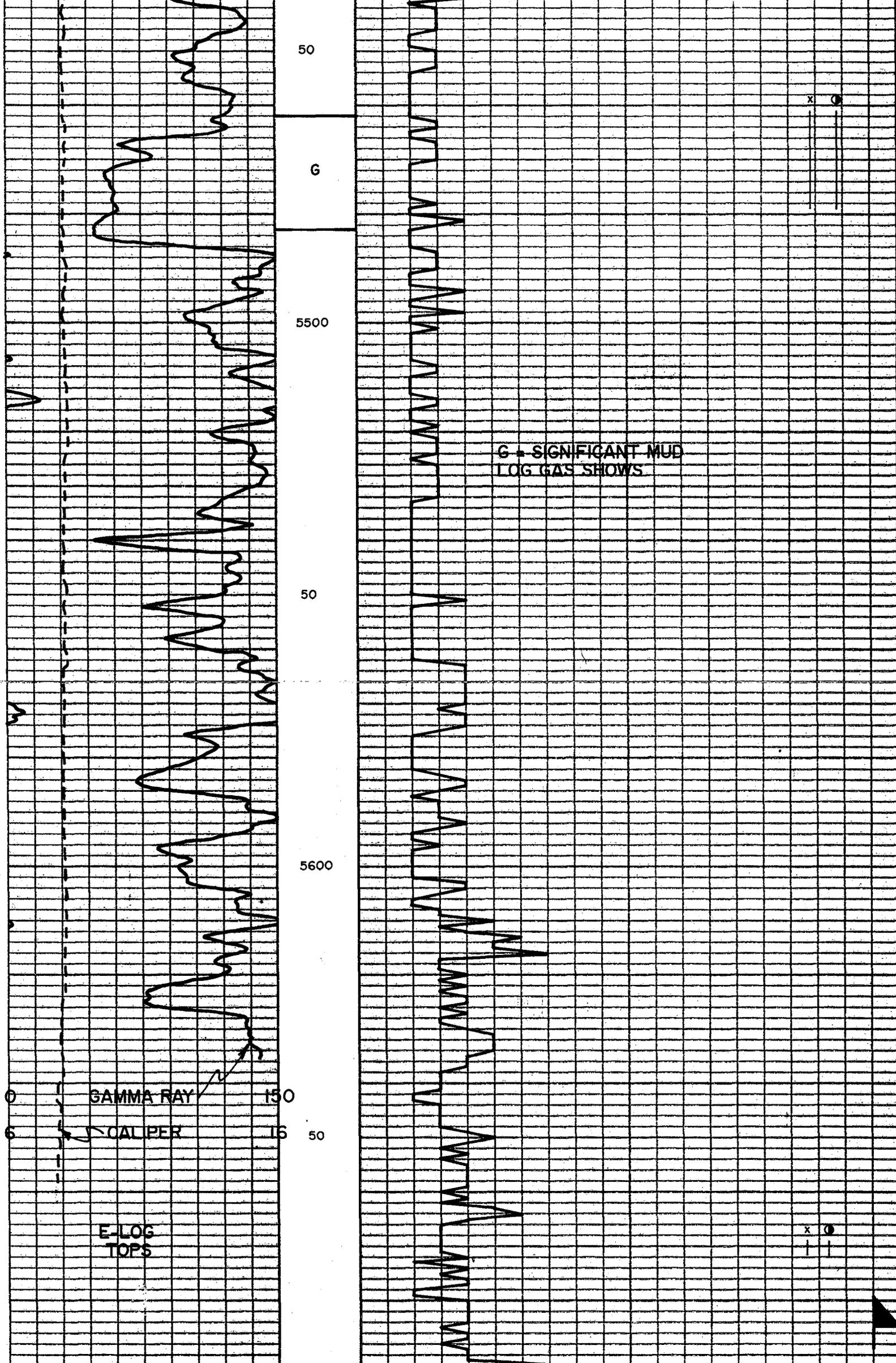
5300

50

5400

CARBONATE
MARKER

X O



5700

0 1 2 3 4

INTERPRETATIVE
LITHOLOGIC &
SAMPLE
DESCRIPTIONS
BASED ON
SAMPLES
CAUGHT &
LOGGED BY MUD
LOGGERS.
SEE REPORT
FOR DETAILED
DESCRIPTION
OF SAMPLES,
POROSITY &
SHOWS

TOTAL DEPTH DRILLER - 5700'
TOTAL DEPTH LOGGER - 5704'

GENERALLY DIFFICULT TO DETERMINE IF
DRILLTIME TIES TO E-LOGS. FREQUENTLY
SAMPLES DO NOT FIT E-LOGS.

CONFIDENTIAL

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

RECEIVED

5. Lease Designation and Serial No.
U-035521-A

If Indian, Allottee or Tribe Name
n/a

SUBMIT IN TRIPLICATE

IAN 0 5 1994

7. If Unit or CA, Agreement Designation
Jonah Unit

1. Type of Well

Oil Well Gas Well Other

DIVISION OF

2. Name of Operator

Equitable Resources Energy Company, Balcron Oil Division

OIL, GAS & MINING

8. Well Name and No.

Balcron Monument Federal #2A-12J

3. Address and Telephone No.

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

9. API Well No.

43-013-31409

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

SE SW Section 12, T9S, R16E

539' FSL, 1777' FWL

10. Field and Pool, or Exploratory Area

Monument Butte / 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

- Notice of Intent
- Subsequent Report
- Final Abandonment Notice

TYPE OF ACTION

- Abandonment
- Recompletion
- Plugging Back
- Casing Repair
- Altering Casing
- Other Report of First Production
- Change of Plans
- New Construction
- Non-Routine Fracturing
- Water Shut-Off
- Conversion to 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.)*

First production on this well was on 12-30-93 at 12:00 noon.

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

Signed

Bobbie Schuman

Title

Coordinator of Environmental and
Regulatory Affairs

Date

1-3-94

(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

UNITED STATES
DEPARTMENT OF THE INTERIOR
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FORM APPROVED
Budget Bureau No. 1004-0135
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5. Lease Designation and Serial No.

U-035521-A

6. If Indian, Allottee or Tribe Name

n/a

7. If Unit or CA, Agreement Designation

Jonah Unit

8. Well Name and No.

Balcron Monument Federal #24-12J

9. API Well No.

43-013-31409

10. Field and Pool, or Exploratory Area

Monument Butte/Green River

11. County or Parish, State

Duchesne County, Utah

SUBMIT IN TRIPLICATE

1. Type of Well

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 (259-7860)

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

SE SW Section 12, T9S, R16E 539' FSL, 1777' FWL

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Site Security Diagram</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

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

Attached is our Site Security Diagram for this well.

JAN 10 1994

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

Signed Dorrie Schuman

Coordinator of Environmental and
Regulatory Affairs

Date 1-18-94

(This space for Federal or State office use)

Approved by _____

Title _____

Date _____

Conditions of approval, if any:

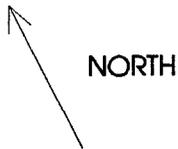
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See instruction on Reverse Side

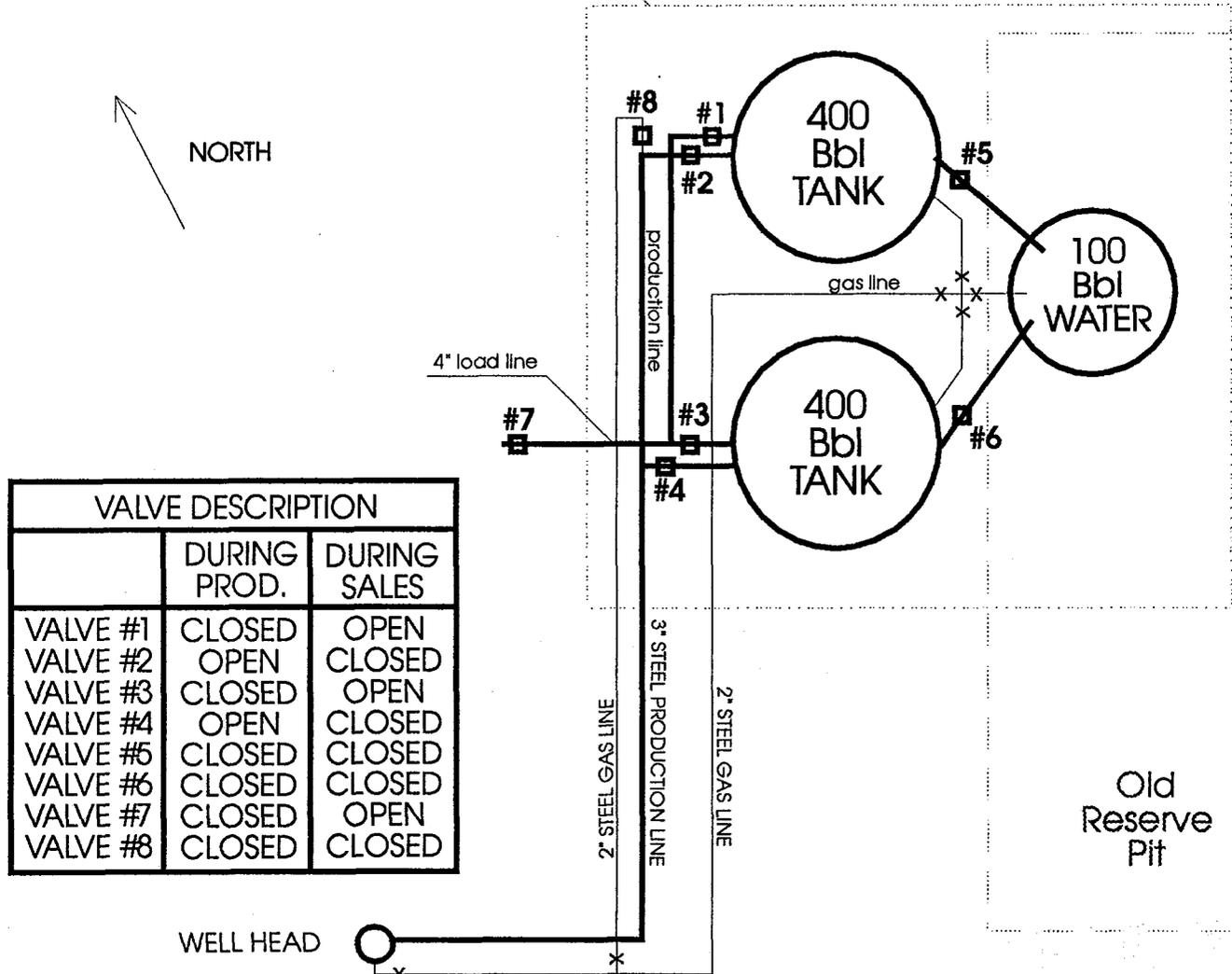
Equitable Resources Energy Company Balcron Monument Federal 24-12J Production Facility Diagram

Balcron Monument Federal 24-12J
SE SW Sec. 12, T9S, R16E
Duchesne County, Utah
Federal Lease #U-096550
539' FSL, 1777' FWL

DIAGRAM NOT TO SCALE



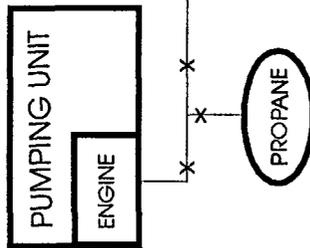
DIKE



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

Old Reserve Pit

WELL HEAD



JAN 10 1990



**EQUITABLE RESOURCES
ENERGY COMPANY**
BALCRON OIL DIVISION

1601 Lewis Avenue
P.O. Box 21017
Billings, MT 59104-1017
(406) 259-7860

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(Other In-
dications on
reverse side)

BUDGET BUREAU NO. 1004-013/
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

5. LEASE DESIGNATION AND SERIAL NO.

U-035521-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

n/a

7. UNIT AGREEMENT NAME

Jonah Unit

8. FARM OR LEASE NAME

Balcon Monument Federal

9. WELL NO.

#24-12J

10. FIELD AND POOL, OR WILDCAT

Monument Butte/Green River

11. SEC., T., R., N., OR BLOCK AND SURVEY OR AREA

SE SW Section 12, T9S, R16E

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. REVR. Other _____

CONFIDENTIAL

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 539' FSL, 1777' FWL
At top prod. interval reported below
At total depth

14. PERMIT NO. 43-013-31469
DATE ISSUED 9-7-93

12. COUNTY OR PARISH Duchesne
13. STATE Utah

15. DATE SPUDDED 11-8-93
16. DATE T.D. REACHED 12-10-93
17. DATE COMPL. (Ready to prod.) 12-30-93
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 4495.5' GL
19. ELEV. CASINGHEAD n/a

20. TOTAL DEPTH, MD & TVD 5700'
21. PLUG BACK T.D., MD & TVD 5636.34'
22. IF MULTIPLE COMPL., HOW MANY* No
23. INTERVALS DRILLED BY Rotary Tools Sfc - TD Cable Tools n/a

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 4080' - 5485' Green River
25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN DIL - MSEL - SDL - DSN - GR MUD 1-13-94
27. WAS WELL CORED No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	269' GL	12-1/4"	150 sxs Class "G" + additives	n/a
5-1/2"	15.5#	5685.22'	7-7/8"	204 sxs Thrifty Lite and 215 sxs 50-50 ROZ	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"	5550.71'	n/a

31. PERFORATION RECORD (Interval, size and number)

5476' - 85' (2 SPF)
4746' - 50' (2 SPF) 5476'-85': 23,350# 16/30 sand in 410 bbls 2% KCL water; acid w/1000 gallons 15% HCL.
4080' - 86' (2 SPF)
4118' - 23' (2 SPF)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4080'-86' 4118'-23'	33,085# 16/30 sand in 500 bbls 2% KCL and 500 gallons 15% HCL
4746'-50'	13,978# 16/30 sand in 262 bbls 2% KCL and 500 gallons 15% HCL.

33. PRODUCTION

DATE FIRST PRODUCTION 12-30-93
PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) 1-1/2" Insert Pump
WELL STATUS (Producing or shut-in) Producing

DATE OF TEST 1-5-94
HOURS TESTED 24
CHOKED SIZE n/a
PROD'N. FOR TEST PERIOD
OIL—BBL. 80
GAS—MCF. n/a
WATER—BBL. 10
GAS-OIL RATIO n/a

FLOW. TUBING PRESS. n/a
CASING PRESSURE n/a
CALCULATED 24-HOUR RATE
OIL—BBL. 80
GAS—MCF. n/a
WATER—BBL. 10
OIL GRAVITY-API (CORR.) 43

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

TEST WITNESSED BY

Dale Griffin

35. LIST OF ATTACHMENTS

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

SIGNED Sobbie Schuman

Coordinator of Environmental and

TITLE Regulatory Affairs

DATE 1-18-94

*(See Instructions and Spaces for Additional Data on Reverse Side)

JAN 10 1994

REPORT OF WATER ENCOUNTERED DURING DRILLING - FORM 7 (1/89)

DIVISION OF
 OIL, GAS & MINING

1. Well name and number: Balcron Monument Federal #24-12J
 API number: 43-013-31409
2. Well location: QQ SE SW section 12 township 9S range 16E county Duchesne
3. Well operator: Equitable Resources Energy Company, Balcron Oil Division
 Address: P.O. Box 21017 phone: (406) 259-7860
Billings, MT 59104
4. Drilling contractor: Union Drilling
 Address: Drawer 40 phone: (304) 472-4610
Buckhannon, WV 26201

5. Water encountered (continue on reverse side if necessary)

Depth		Volume (flow rate or head)	Quality (fresh or salty)
from	to		
		No measurable water encountered	
		during drilling operations.	

6. Formation tops: See Geologic Report submitted separately.

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

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

Name Bobbie Schuman Signature Bobbie Schuman
 Title Coordinator of Environmental and Date 1-18-94
Regulatory Affairs

Comments:

RECEIVED

JAN 27 1994

UTAH DIVISION OF OIL, GAS AND MINING
EQUIPMENT INVENTORY

DIVISION OF
OIL, GAS & MINING

Operator: EQUITABLE RESOURCES COMPANY Lease: State: _____ Federal: Y
Indian: _____ Fee: _____

Well Name: MONUMENT FEDERAL # 24-12J API Number: 43-013-31409
Section: 12 Township: 9S Range: 16E County: DUCHESNE Field:
MONUMENT BUTTES
Well Status: POW Well Type: Oil: Y Gas: _____

PRODUCTION LEASE EQUIPMENT: Y CENTRAL BATTERY: _____

Y Well head _____ Boiler(s) _____ Compressor _____ Separator(s)
_____ Dehydrator(s) _____ Shed(s) _____ Line Heater(s) _____ Heated
Separator
_____ VRU _____ Heater Treater(s)

PUMPS:
_____ Triplex _____ Chemical _____ (1) Centrifugal

LIFT METHOD:
Y Pumpjack _____ Hydraulic _____ Submersible _____ Flowing

GAS EQUIPMENT:
N Gas Meters N Purchase Meter N Sales Meter

TANKS:	NUMBER	SIZE
	<u>Y</u> Oil Storage Tank(s)	<u>2-400 BARREL OIL TANKS</u> BBLs
	<u>Y</u> Water Tank(s)	<u>1-130 BARREL PIT TANK</u> BBLs
	Power Water Tank	_____ BBLs
	Condensate Tank(s)	_____ BBLs
	<u>(1)</u> Propane Tank	_____ BBLs

REMARKS: RESERVE STILL OPEN. PIT TANK ON LOCATION BUT NOT YET INSTALLED.
EQUIPMENT FIRED ON CASING HEAD GAS WITH PROPANE BACKUP. CENTRIFUGAL PUMP IS
GLYCOL TRACE PUMP.

Location central battery: Qtr/Qtr: _____ Section: _____ Township: _____
Range: _____

Inspector: DENNIS INGRAM Date: 1/20/94

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			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
✓	MONUMENT FEDERAL 14-5							
4301331385	11492 09S 17E 5		GRRV					
✓	MONUMENT FEDERAL 24-12J							
4301331409	11492 09S 16E 12		GRRV					
✓	BALCRON MONUMENT FEDERAL 31-1J							
4301331413	11492 09S 16E 1		GRRV					
✓	MONUMENT FEDERAL 32-1J							
4301331414	11492 09S 16E 1		GRRV					
✓	BALCRON MONUMENT FEDERAL 33-11J							
4301331451	11492 09S 16E 11		GRRV					
✓	BALCRON MONUMENT FEDERAL 42-12J							
01331486	11492 09S 16E 12		GRRV					
✓	BALCRON MONUMENT FEDERAL 41-12J							
4301331487	11492 09S 16E 12		GRRV					
✓	BALCRON MONUMENT FEDERAL 12-7J							
4301331493	11492 09S 17E 7		GRRV					
✓	FEDERAL 24-3Y							
4301331397	11493 09S 17E 3		GRRV					
✓	FEDERAL 14-4							
4304715678	11500 08S 25E 4		GRRV					
✓	E. RED WASH 1-5							
4304720174	11500 08S 25E 5		GRRV					
✓	E. RED WASH FED 1-12							
4304720207	11500 08S 24E 12		GRRV					
✓	E. RED WASH FED 1-6							
4304720208	11500 08S 25E 6		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: _____



**EQUITABLE RESOURCES
ENERGY COMPANY**

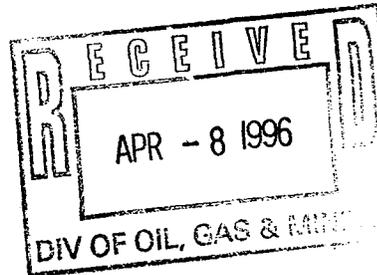
BALCRON OIL DIVISION

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

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

5. Lease Designation and Serial Number:

See attached listing

6. If Indian, Allottee or Tribe Name:

n/a

7. Unit Agreement Name:

See attached listing

8. Well Name and Number:

See attached listing

9. API Well Number:

See attached listing

10. Field and Pool, or Wildcat:

See attached listing

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

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

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

4. Location of Well
Footages: See attached listing

County: See attached list

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

State: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT
(Submit in Duplicate)

- Abandon
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Multiple Completion
- Other _____
- New Construction
- Pull or Alter Casing
- Recomplete
- Reperforate
- Vent or Flare
- Water Shut-Off

Approximate date work will start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

- Abandon *
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Other Operator name change
- New Construction
- Pull or Alter Casing
- Reperforate
- Vent or Flare
- Water Shut-Off

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.

APR - 8 1996

13. Name & Signature: Bobbie Schuman
Bobbie Schuman

Title: Regulatory and Environmental Specialist Date: March 27, 1996

(This space for State use only)

UTAH

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

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:

1	LEB 7-SJ	✓
2	DW 58-FILE	✓
3	VLD (GIL)	✓
4	RJE	✓
5	IEC	✓
6	FILM	✓

Attach all documentation received by the division regarding this change.
 Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (well sold) Designation of Agent
 Designation of Operator ~~Operator Name Change Only~~

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 4-1-96)

TO (new operator)	<u>EQUITABLE RESOURCES ENERGY COEROM</u> (former operator)	<u>EQUITABLE RESOURCES ENERGY CO</u>
(address)	<u>1601 LEWIS AVE</u>	<u>BALCRON OIL DIVISION</u>
	<u>BILLINGS MT 59102-4126</u>	<u>1601 LEWIS AVE</u>
	phone (406) <u>259-7860</u>	phone (406) <u>259-7860</u>
	account no. <u>N9890</u>	account no. <u>N9890</u>

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

Name: **SEE ATTACHED**	API: <u>013-31409</u>	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

- Y 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.
- Y 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) ~~for each well listed above.~~ *(4-10-96)*
- Y 6. Cardex file has been updated for each well listed above. *(4-11-96)*
- Y 7. Well file labels have been updated for each well listed above. *(4-11-96)*
- Y 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)*
- Y 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.

ENTITY REVIEW

- See 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) Selco Ins. Co. (Bond Rider In Progress)

- See 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

- VDK 1. All attachments to this form have been microfilmed. Date: May 20 1996.

FILING

- ____ 1. Copies of all attachments to this form have been filed in each well file.
- ____ 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

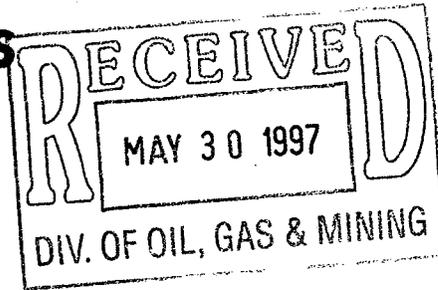
9/6/96 Blm/BIA "Formal approval not necessary"



EQUITABLE RESOURCES
ENERGY COMPANY

WESTERN REGION

1601 Lewis Avenue
Billings, MT 59102



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

May 27, 1997

Utah Board Of Oil, Gas, & Mining
1594 West North Temple
Suite-1220
Salt Lake City, Utah 84114

In accordance with your request please find enclosed the 1997 produced water analysis for the Uinta Basin waterflood and water disposal operations which are operated by Equitable Resources Energy Company. These water analysis are for wells that are re-injecting or disposing produced water back into the Green River Formation via the following facilities:

Jonah Secondary Recovery Unit
Beluga Secondary Recovery Unit
Coyote Basin Secondary Recovery Unit
Castle Draw (State Section-2) Pilot Waterflood
Pariette Bench Water Disposal Well #4

Equitable Resources Energy Company inadvertently failed to submit a copy of these water analysis when they were sent to the EPA and BLM. If there are any questions please contact me at our Billings, Montana office at 406-259-7860.

Respectfully,

John Zellitti
District Production Engineer



2060 SOUTH 1500 EAST
VERNAL, UTAH 84078

Telephone (801) 789-4327

Water Analysis Report

Sarah Unit

Customer : EREC - Western Oil Company

Field : Monument Butte Field

Address : 1601 Lewis Avenue

Lease : Monument Federal Lease

City : Billings

Location : Well No. 24-12

State : MT **Postal Code :** 59104-

Sample Point : wellhead

Attention : John Zellitti

Date Sampled : 23-Jan-97

cc1 : Dan Farnsworth

Date Received : 23-Jan-97

cc2 : Joe Ivey

Date Reported : 08-Feb-97

cc3 :

Salesman : Lee Gardiner

Analyst : Karen Hawkins Allen

CATIONS

Calcium : 160 mg/l
 Magnesium : 24 mg/l
 Barium : 0 mg/l
 Strontium : 0 mg/l
 Iron : 2.0 mg/l
 Sodium : 3333 mg/l

 pH (field) : 8.43
 Temperature : 85 degrees F
 Ionic Strength : 0.15

 Resistivity : ohm/meters
 Ammonia : ppm

ANIONS

Chloride: 5,000 mg/l
 Carbonate: 60 mg/l
 Bicarbonate: 610 mg/l
 Sulfate: 188 mg/l

 Specific Gravity : 1.005 grams/ml
 Total Dissolved Solids : 9,377 ppm
 CO2 in Water : 1 mg/l
 CO2 in Gas : 0.03 mole %
 H2S in Water : 0.0 mg/l
 O2 in Water : 0.000 ppm

Comments :

SI calculations based on Tomson-Oddo

Calcite (CaCO3) SI :	1.55	Calcite PTB :	129.9
Gypsum (CaSO4) SI :	-1.98	Gypsum PTB :	N/A
Barite (BaSO4) SI :	N/A	Barite PTB :	N/A
Celestite (SrSO4) SI :	N/A	Celestite PTB :	N/A

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): 9 / 97

AMENDED REPORT (Highlight Changes)

Well Name			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entry	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
✓	CASTLE PK FED 33-15							
4301330632	11492 09S 16E 15		GRRV			4017985	Jonah (62) Unit	
✓	CASTLE PK FED 42-15					"		
4301330633	11492 09S 16E 15		GRRV			"		
✓	CASTLE PK FED. 22-15					"		
4301330634	11492 09S 16E 15		GRRV			"		
✓	MONUMENT BUTTE 1-23					418399		
4301330646	11492 09S 16E 1		GRRV			"		
✓	MONUMENT BUTTE 1-14					"		
4301330703	11492 09S 16E 1		GRRV			"		
✓	MONUMENT BUTTE 1-43					452013		
4301330734	11492 09S 16E 1		GRRV			"		
✓	MONUMENT BUTTE 1-34					"		
4301330736	11492 09S 16E 1		GRRV			"		
✓	GETTY 12-14					44426		
4301330889	11492 09S 16E 12		GRRV			"		
✓	GETTY 7A					"		
4301330926	11492 09S 17E 7		GRRV			"		
✓	GETTY 7C					"		
4301330961	11492 09S 17E 7		GRRV			"		
✓	MONUMENT FEDERAL 23-5J					4020252		
4301331383	11492 09S 17E 5		GRRV			"		
✓	MONUMENT FEDERAL 14-5					"		
4301331385	11492 09S 17E 5		GRRV			"		
✓	MONUMENT FEDERAL 24-12J					4035521A	✓	
4301331409	11492 09S 16E 12		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: _____

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

5. Lease Designation and Serial Number:

See Attached

6. If Indian, Allottee or Tribe Name:

n/a

7. Unit Agreement Name:

See Attached

8. Well Name and Number:

See Attached

9. API Well Number:

See Attached

10. Field and Pool, or Wildcat:

See Attached

1. Type of Well: OIL GAS OTHER:

2. Name of Operator:

Inland Production Company

3. Address and Telephone Number:

475 - 17th Street, Suite 1500, Denver, CO 80202

4. Location of Well

Footages: See Attached Exhibit

OO, Sec., T., R., M.:

County:

State:

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT
(Submit in Duplicate)

- | | |
|---|---|
| <input type="checkbox"/> Abandon | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Repair Casing | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recomplete |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Reperforate |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Other <u>Change of Operator</u> | |

Approximate date work will start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

- | | |
|---|---|
| <input type="checkbox"/> Abandon | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Repair Casing | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Reperforate |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Other <u>Change of Operator</u> | |

Date of work completion 9-30-97

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Effective September 30, 1997, Inland Production Company will take over operations of the wells on the attached list. The previous operator was :

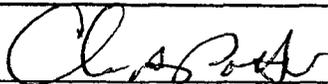
Equitable Resources Energy Company
1601 Lewis Avenue
Billings, MT 59102

Effective September 30, 1997, Inland Production Company is responsible under the terms and conditions of the leases for operations conducted on the leased lands or a portion thereof under State of Utah Statewide Bond No. 4471291.

OCT 10 1997

13.

Name & Signature:



CHRIS A. POTTER, ATTORNEY-IN-FACT

Date:

9/30/97

This space for State use only)

INLAND

Inland Resources Change of Operator							
WELL NAME	LOCATION	COUNTY	ST	FIELD NAME	API NUMBER	LEASE NO.	AGEEMENT
MONUMENT BUTTE #12-12	SWNW 129S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31410-00	UTU096550	UTU72086A
MONUMENT BUTTE #13-5	NWSW 5 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31370-00		UTU72086A
MONUMENT BUTTE #14-12	SWSW 129S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31411-00		UTU72086A
MONUMENT BUTTE #21-14	NENW 149S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31421-00		UTU72086A
MONUMENT BUTTE #22-5	SESW 5 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31384-00	UTU020252	UTU72086A
MONUMENT BUTTE #22-12J	SESW 129S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-15796-00	UTU096550	UTU72086A
MONUMENT BUTTE #23-11	NESW 119S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31369-00	UTU096550	UTU72086A
MONUMENT BUTTE #24-5	SESW 5 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31375-00	UTU020252	UTU72086A
MONUMENT BUTTE #31-7	NWNE 7 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31405-00	UTU72106	UTU72086A
MONUMENT BUTTE #32-11	SWNE 119S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31386-00		UTU72086A
MONUMENT BUTTE #32-12	SWNE 129S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31419-00		UTU72086A
MONUMENT BUTTE #41-14	NENE 149S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31408-00	UTU096550	UTU72086A
MONUMENT BUTTE #43-11	NESE 119S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31002-00	UTU096550	UTU72086A
MONUMENT BUTTE FED #13-11J	NWSW 119S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-15790-00	UTU096547	UTU72086A
MONUMENT BUTTE FED #31-1J	NW NE 129S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31413-00	UTU33992	UTU72086A
MONUMENT BUTTE FED #33-11J	NWSE 119S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31451-00	UTU096550	UTU72086A
MONUMENT BUTTE FED #41-12J	NE NE 129S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31487-00	UTU44426	UTU72086A
MONUMENT BUTTE FED #42-11J	SENE 119S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30066-00	UTU096550	UTU72086A
MONUMENT BUTTE FED #42-12J	SENE 129S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31486-00	UTU035521	UTU72086A
MONUMENT BUTTE FED. #1-13	NWSW 1 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30702-00	UTU18399	UTU72086A
MONUMENT BUTTE FED. #1-33	NWSE 1 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-30735-00	UTU52013	UTU72086A
MONUMENT BUTTE FED. #11-6	NWNW 6 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31362-00	UTU020252A	UTU72086A
MONUMENT BUTTE FED. #12-11	SWNW 119S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31417-00	UTU096550	UTU72086A
MONUMENT BUTTE FED. #14-5	SWSW 5 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31385-00	UTU020252	UTU72086A
MONUMENT BUTTE FED. #14-11	SWSW 119S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31374-00	UTU096547	UTU72086A
MONUMENT BUTTE FED. #23-5	NESW 5 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31383-00	UTU020252	UTU72086A
MONUMENT BUTTE FED. #23-15	NESW 159S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31373-00	UTU017985	UTU72086A
MONUMENT BUTTE FED. #24-6	SESW 6 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31363-00	UTU020252A	UTU72086A
MONUMENT BUTTE FED. #24-12J	SESW 129S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31409-00	UTU035521A	UTU72086A
MONUMENT BUTTE FED. #32-1J	SWNE 1 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31414-00	UTU33992	UTU72086A
MONUMENT BUTTE FED. #32-15	SWNE 159S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31368-00	UTU017985	UTU72086A
MONUMENT BUTTE FED. #33-6	NWSE 6 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31361-00	UTU020252A	UTU72086A
MONUMENT BUTTE FED. #34-10	SWSE 109S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31416-00	UTU017985	UTU72086A
MONUMENT BUTTE FED. #41-15	NENE 159S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31367-00	UTU017985	UTU72086A
MONUMENT BUTTE FED. #42-1	SENE 1 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31404-00	UTU40652	UTU72086A
MONUMENT BUTTE FED. #42-6	SENE 6 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31364-00	UTU020252A	UTU72086A
MONUMENT BUTTE FED. #44-1J	SESE 1 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31415-00	UTU44426	UTU72086A
MONUMENT FEDERAL #11-7J	NW NW 7 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31492-00	UTU44426	UTU72086A
MONUMENT FEDERAL #12-7J	SWNW 7 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31493-00	U-44426	UTU72086A



**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

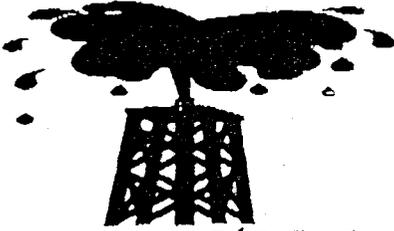
Effective September 30, 1997, Equitable Resources Energy Company sold all of its Utah properties to Inland Production Company.

Please feel free to contact me if you require additional information.

Sincerely,

Molly Conrad
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

RECEIVED
JAN 14 1998
FEDERAL SAC

IN REPLY REFER TO
UT-931

January 13, 1998

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

Re: Jonah (Green River) Unit
Duchesne County, Utah

Gentlemen:

On January 13, 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 Jonah (Green River) Unit, Duchesne 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 January 13, 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 Jonah (Green River) Unit Agreement.

Your statewide (Utah) oil and gas bond No. 0056 will be used to cover all operations within the Jonah (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 - Jonah (Green River) Unit (w/enclosure)
MMS - Data Management Division
Agr. Sec. Chron
Fluid Chron

U-931:TAThompson:tt:1/13/98

WELL STATUS REPORTS
UTAH STATE OFFICE

INSPECTION ITEM	API NO.	WELL NUMBER	QTQT	SEC	TWN	RNG	WELL STATUS	LEASE NAME	OPERATOR
** INSPECTION ITEM UTU72086A			JONAH (GR) SECONDARY RECOVERY UNIT						
UTU72086A	430131511100S1	1	NWSW	12	9S	16E	POW	UTU035521A	EQUITABLE RESOURCES ENERG
UTU72086A	430131578000S1	1	NWNW	5	9S	17E	POW	UTU020252	EQUITABLE RESOURCES ENERG
UTU72086A	430131577900S1	1	SESE	6	9S	17E	WIW	UTU020252A	EQUITABLE RESOURCES ENERG
UTU72086A	430131578900S1	1	SESW	11	9S	16E	POW	UTU096547	EQUITABLE RESOURCES ENERG
UTU72086A	430131579200S1	1	SESE	11	9S	16E	POW	UTU096550	EQUITABLE RESOURCES ENERG
UTU72086A	430133070200S1	1-13	NWSW	1	9S	16E	WIW	UTU18399	EQUITABLE RESOURCES ENERG
UTU72086A	430133070300S1	1-14	SWSW	1	9S	16E	POW	UTU18399	EQUITABLE RESOURCES ENERG
UTU72086A	430133064600S1	1-23	NESW	1	9S	16E	POW	UTU18399	EQUITABLE RESOURCES ENERG
UTU72086A	430133070100S1	1-24	SESW	1	9S	16E	WIW	UTU18399	EQUITABLE RESOURCES ENERG
UTU72086A	430133073500S1	1-33	NWSE	1	9S	16E	WIW	UTU52013	EQUITABLE RESOURCES ENERG
UTU72086A	430133073600S1	1-34	SWSE	1	9S	16E	POW	UTU52013	EQUITABLE RESOURCES ENERG
UTU72086A	430133073400S1	1-43	NESE	1	9S	16E	POW	UTU52013	EQUITABLE RESOURCES ENERG
UTU72086A	430133136200S1	11-6	L4	6	9S	17E	WIW	UTU020252A	EQUITABLE RESOURCES ENERG
UTU72086A	430133149200S1	11-7J	NWNW	7	9S	17E	WIW	UTU44426	EQUITABLE RESOURCES ENERG
UTU72086A	430133088900S1	12-1	NWNE	12	9S	16E	POW	UTU44426	EQUITABLE RESOURCES ENERG
UTU72086A	430133141700S1	12-11J	SWNW	11	9S	16E	WIW	UTU096550	EQUITABLE RESOURCES ENERG
UTU72086A	430133141000S1	12-12J	SWNW	12	9S	16E	WIW	UTU096550	EQUITABLE RESOURCES ENERG
UTU72086A	430133061100S1	12-5	SWNW	5	9S	17E	POW	UTU020252	EQUITABLE RESOURCES ENERG
UTU72086A	430133058200S1	12-6	SWNW	6	9S	17E	POW	UTU020252A	EQUITABLE RESOURCES ENERG
UTU72086A	430133149300S1	12-7J	SWNW	7	9S	17E	POW	UTU44426	EQUITABLE RESOURCES ENERG
UTU72086A	430131579000S1	13-11J	NWSW	11	9S	16E	POW	UTU096547	EQUITABLE RESOURCES ENERG
UTU72086A	430133137000S1	13-5	NWSW	5	9S	17E	WIW	UTU020252	EQUITABLE RESOURCES ENERG
UTU72086A	430133091800S1	13-6	NWSW	6	9S	17E	WIW	UTU020252A	EQUITABLE RESOURCES ENERG
UTU72086A	430133137400S1	14-11	SWSW	11	9S	16E	WIW	UTU096547	EQUITABLE RESOURCES ENERG
UTU72086A	430133141100S1	14-12J	SWSW	12	9S	16E	WIW	UTU035521A	EQUITABLE RESOURCES ENERG
UTU72086A	430133138500S1	14-5	SWSW	5	9S	17E	POW	UTU020252	EQUITABLE RESOURCES ENERG
UTU72086A	430131511200S1	2	NWSE	12	9S	16E	POW	UTU035521	EQUITABLE RESOURCES ENERG
UTU72086A	430131579300S1	2	NWNE	14	9S	16E	POW	UTU096550	EQUITABLE RESOURCES ENERG
UTU72086A	430133060300S1	2-1	L1	1	9S	16E	POW	UTU33992	EQUITABLE RESOURCES ENERG
UTU72086A	430133140600X1	21-12J	NENW	12	9S	16E	ABD	UTU096550	EQUITABLE RESOURCES ENERG
UTU72086A	430133142100S1	21-14J	NENW	14	9S	16E	WIW	UTU096547	EQUITABLE RESOURCES ENERG
UTU72086A	430133142200X1	21-15J	NENW	15	9S	16E	ABD	UTU017985	EQUITABLE RESOURCES ENERG
UTU72086A	430133061200S1	21-5	NENW	5	9S	17E	POW	UTU020252	EQUITABLE RESOURCES ENERG
UTU72086A	430133058400S1	21-6	L3	6	9S	17E	POW	UTU020252A	EQUITABLE RESOURCES ENERG
UTU72086A	430131579600S2	22-12J	SESW	12	9S	16E	POW	UTU096550	EQUITABLE RESOURCES ENERG
UTU72086A	430133063400S1	22-15	SESW	15	9S	16E	POW	UTU017985	EQUITABLE RESOURCES ENERG
UTU72086A	430133138400S1	22-5	SESW	5	9S	17E	WIW	UTU020252	EQUITABLE RESOURCES ENERG
UTU72086A	430133091900S1	22-6	SESW	6	9S	17E	WIW	UTU020252A	EQUITABLE RESOURCES ENERG
UTU72086A	430133136900S1	23-11	NESW	11	9S	16E	WIW	UTU096550	EQUITABLE RESOURCES ENERG
UTU72086A	430133137300S1	23-15	NESW	15	9S	16E	WIW	UTU017985	EQUITABLE RESOURCES ENERG
UTU72086A	430133138300S1	23-5	NESW	5	9S	17E	POW	UTU020252	EQUITABLE RESOURCES ENERG
UTU72086A	430133055800S1	23-6	NESW	6	9S	17E	POW	UTU020252A	EQUITABLE RESOURCES ENERG
UTU72086A	430133140900S1	24-12J	SESW	12	9S	16E	POW	UTU035521A	EQUITABLE RESOURCES ENERG
UTU72086A	430133063100S1	24-15	SESW	15	9S	16E	POW	UTU017985	EQUITABLE RESOURCES ENERG
UTU72086A	430133137500S1	24-5	SESW	5	9S	17E	WIW	UTU020252	EQUITABLE RESOURCES ENERG
UTU72086A	430133136300S1	24-6	SESW	6	9S	17E	WIW	UTU020252A	EQUITABLE RESOURCES ENERG
UTU72086A	430131579100S1	3	NWNW	14	9S	16E	POW	UTU096547	EQUITABLE RESOURCES ENERG
UTU72086A	430133061300S1	31-15	NWNE	15	9S	16E	POW	UTU017985	EQUITABLE RESOURCES ENERG

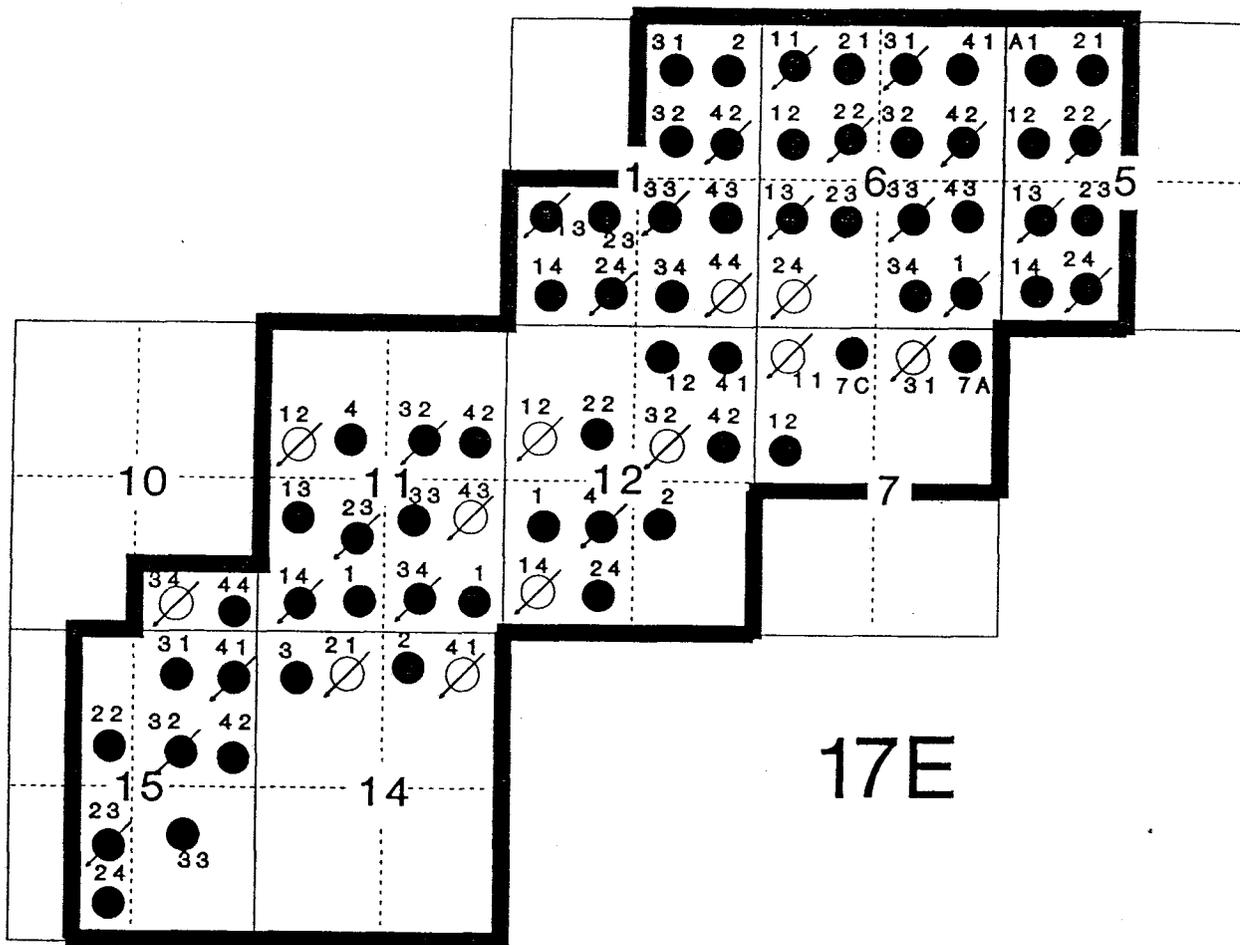
WELL STATUS REPORTS
UTAH STATE OFFICE

INSPECTION ITEM	API NO.	WELL NUMBER	QTQT	SEC	TWN	RNG	WELL STATUS	LEASE NAME	OPERATOR
UTU72086A	430133141300S1	31-1J	L2	1	9S	16E	POW	UTU33992	EQUITABLE RESOURCES ENER
UTU72086A	430133119500S1	31-6	L2	6	9S	17E	WIW	UTU020252A	EQUITABLE RESOURCES ENER
UTU72086A	430133140500S1	31-7J	NWNE	7	9S	17E	WIW	UTU44426	EQUITABLE RESOURCES ENER
UTU72086A	430133138600S1	32-11	SWNE	11	9S	16E	WIW	UTU096550	EQUITABLE RESOURCES ENER
UTU72086A	430133141900S1	32-12J	SWNE	12	9S	16E	WIW	UTU035521	EQUITABLE RESOURCES ENER
UTU72086A	430133136800S1	32-15	SWNE	15	9S	16E	WIW	UTU017985	EQUITABLE RESOURCES ENER
UTU72086A	430133141400S1	32-1J	SWNE	1	9S	16E	POW	UTU33992	EQUITABLE RESOURCES ENER
UTU72086A	430133055900S1	32-6	SWNE	6	9S	17E	POW	UTU020252A	EQUITABLE RESOURCES ENER
UTU72086A	430133145100S1	33-11J	NWSE	11	9S	16E	OSI	UTU096550	EQUITABLE RESOURCES ENER
UTU72086A	430133063200S1	33-15	NWSE	15	9S	16E	POW	UTU017985	EQUITABLE RESOURCES ENER
UTU72086A	430133136100S1	33-6	NWSE	6	9S	17E	WIW	UTU020252A	EQUITABLE RESOURCES ENER
UTU72086A	430133141600S1	34-10J	SWSE	10	9S	16E	WIW	UTU017985	EQUITABLE RESOURCES ENER
UTU72086A	430133100300S1	34-11	SWSE	11	9S	16E	WIW	UTU096550	EQUITABLE RESOURCES ENER
UTU72086A	430133058600S1	34-6	SWSE	6	9S	17E	POW	UTU020252A	EQUITABLE RESOURCES ENER
UTU72086A	430133074200S1	4	NESW	12	9S	16E	WIW	UTU035521A	EQUITABLE RESOURCES ENER
UTU72086A	430131579500S1	4	SENW	11	9S	16E	POW	UTU096550	EQUITABLE RESOURCES ENER
UTU72086A	430133148700S1	41-12J	NENE	12	9S	16E	POW	UTU44426	EQUITABLE RESOURCES ENER
UTU72086A	430133140800S1	41-14J	NENE	14	9S	16E	WIW	UTU096550	EQUITABLE RESOURCES ENER
UTU72086A	430133136700S1	41-15	NENE	15	9S	16E	WIW	UTU017985	EQUITABLE RESOURCES ENER
UTU72086A	430133058100S1	41-6	NENE	6	9S	17E	POW	UTU020252A	EQUITABLE RESOURCES ENER
UTU72086A	430133006600S1	42-11J	SENE	11	9S	16E	POW	UTU096550	EQUITABLE RESOURCES ENER
UTU72086A	430133148600S1	42-12J	SENE	12	9S	16E	POW	UTU035521	EQUITABLE RESOURCES ENER
UTU72086A	430133063300S1	42-15	SENE	15	9S	16E	POW	UTU017985	EQUITABLE RESOURCES ENER
UTU72086A	430133140400S1	42-1J	SENE	1	9S	16E	WIW	UTU40652	EQUITABLE RESOURCES ENER
UTU72086A	430133136400S1	42-6	SENE	6	9S	17E	WIW	UTU020252A	EQUITABLE RESOURCES ENER
UTU72086A	430133100200S1	43-11J	NESE	11	9S	16E	WIW	UTU096550	EQUITABLE RESOURCES ENER
UTU72086A	430133058300S1	43-6	NESE	6	9S	17E	POW	UTU020252A	EQUITABLE RESOURCES ENER
UTU72086A	430133063000S1	44-10	SESE	10	9S	16E	POW	UTU017985	EQUITABLE RESOURCES ENER
UTU72086A	430133141500S1	44-1J	SESE	1	9S	16E	WIW	UTU44426	EQUITABLE RESOURCES ENER
UTU72086A	430133092600S1	7-A	NENE	7	9S	17E	POW	UTU44426	EQUITABLE RESOURCES ENER
UTU72086A	430133096100S1	7-C	NENW	7	9S	17E	POW	UTU44426	EQUITABLE RESOURCES ENER

JONAH (GREEN RIVER) UNIT

DUCHESNE COUNTY, UTAH

EFFECTIVE: JULY 1, 1993



— UNIT OUTLINE (UTU72086A)

4,221.61 ACRES

SECONDARY
ALLOCATION
FEDERAL 100.00%

OPERATOR CHANGE WORKSHEET

Routing	
1-IEC <i>[initials]</i>	6-FILE <i>[initials]</i>
2-CEH <i>[initials]</i>	7-KAS <i>[initials]</i>
3-DTS <i>[initials]</i>	8-SI <i>[initials]</i>
4-VLD <i>[initials]</i>	9-FILE <i>[initials]</i>
5-IRB <i>[initials]</i>	

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (well sold) Designation of Agent
 Designation of Operator Operator Name Change Only

The operator of the well(s) listed below has changed, effective: 9-30-97

TO: (new operator)	<u>INLAND PRODUCTION COMPANY</u>	FROM: (old operator)	<u>EQUITABLE RESOURCES ENERGY</u>
(address)	<u>PO BOX 1446</u>	(address)	<u>PO BOX 577</u>
	<u>ROOSEVELT UT 84066</u>		<u>LAUREL MT 59044</u>
			<u>C/O CRAZY MTN O&G SVS</u>
	Phone: <u>(801)722-5103</u>		Phone: <u>(406)628-4164</u>
	Account no. <u>N5160</u>		Account no. <u>N9890</u>

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

Name: **SEE ATTACHED**	API: <u>43-013-31409</u>	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____

OPERATOR CHANGE DOCUMENTATION

- [initials]* 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)*
- [initials]* 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: _____
- [initials]* 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.
- [initials]* 5. Changes have been entered in the **Oil and Gas Information System** (3270) for each well listed above. *(1-14-98) * UIC/Qual Pro 1-14-98 & UIC/DBase 1-14-98.*
- [initials]* 6. **Cardex** file has been updated for each well listed above.
- [initials]* 7. Well **file labels** have been updated for each well listed above.
- [initials]* 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. *(1-14-98)*
- [initials]* 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.

ENTITY REVIEW

- yc 1. (r649-8-7) **Entity assignments have been reviewed** for all wells listed above. Were entity changes made? (yes/no) no If entity assignments were changed, attach copies of Form 6, Entity Action Form.
Entity 11492 "Jonah (OP) 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/yc 1. (r649-3-1) The **NEW** operator of any fee lease well listed above has furnished a proper bond.
2. A **copy of this form** has been placed in the new and former operator's bond files.
3. The **FORMER** operator has requested a release of liability from their bond (yes/no) , as of today's date . If yes, division response was made to this request by letter dated .

LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY

- N/A/yc 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.
- NA 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

- ys 1. All attachments to this form have been **microfilmed**. Today's date: 2.3.98.

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

980114 Btm / SL Aprv. eff. 1-13-98.

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

5. Lease Designation and Serial No.
U-035521-A

6. If Indian, Allottee or Tribe Name
NA

7. If Unit or CA, Agreement Designation
JONAH

8. Well Name and No.
MONUMENT FEDERAL 24-12J

9. API Well No.
43-013-31409

10. Field and Pool, or Exploratory Area
MONUMENT BUTTE

11. County or Parish, State
DUCHESNE COUNTY, UTAH

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
INLAND PRODUCTION COMPANY

3. Address and Telephone No.
475 17TH STREET, SUITE 1500, DENVER, COLORADO 80202 (303) 292-0900

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)
0539 FSL 1777 FWL SE/SW Section 12, T09S R16E

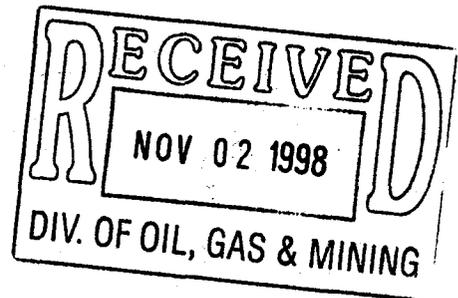
12. **CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent <input checked="" type="checkbox"/> Subsequent Report <input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input checked="" type="checkbox"/> Other <u>Site Security</u>
	<input type="checkbox"/> Change of Plans <input type="checkbox"/> New Construction <input type="checkbox"/> Non-Routine Fracturing <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Dispose Water

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

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

Attached please find the site security diagram for the above referenced well.



14. I hereby certify that the foregoing is true and correct
Signed Rebbie E. Knight Title Manager, Regulatory Compliance Date 10/28/98

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

CC: UTAH DOGM

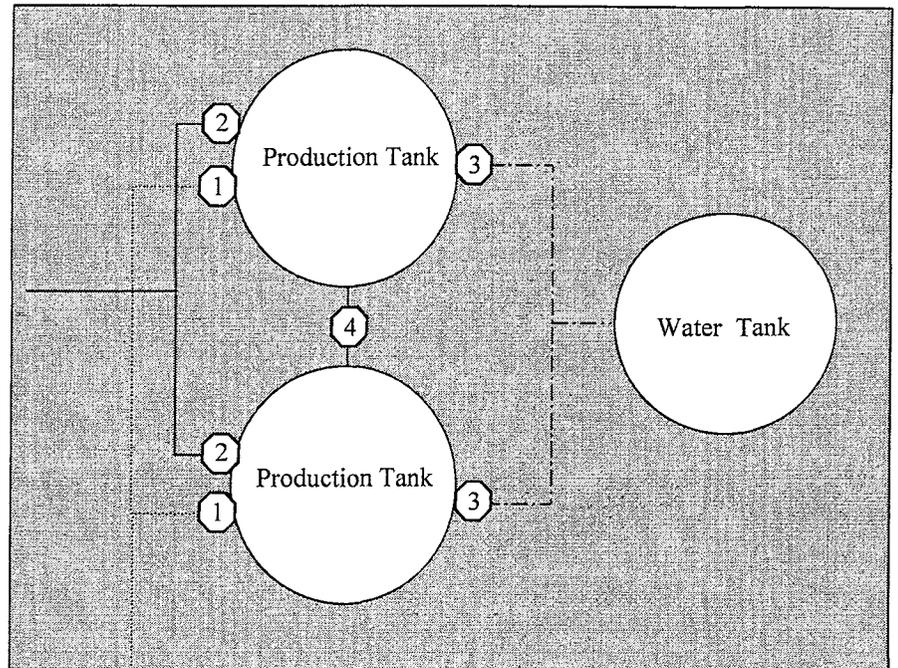
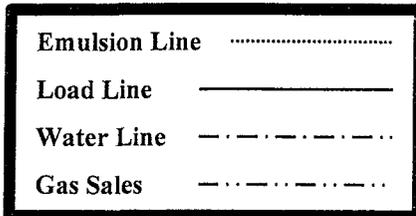
Inland Production Company Site Facility Diagram

Monument Federal 24-12J

SE/SW Sec. 12, T9S, 16E

Duchesne County

Sept. 17, 1998



Site Security Plan is held at the Roosevelt Office,
Roosevelt Utah

Diked Section

Production Phase:

- 1) Valves 1 and 3 sealed closed
- 2) Valves 2 and 4 sealed open

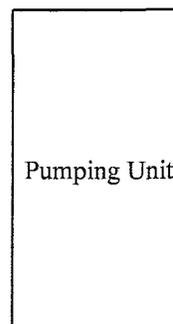
Sales Phase:

- 1) Valves 3 & 4 sealed closed
- 2) Valves 1 open

Draining Phase:

- 1) Valve 3 open

Well Head



Pumping Unit



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>



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 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



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.



A handwritten signature in black ink, appearing to read "G. Connor".

Secretary of State

ARTICLES OF AMENDMENT
TO THE
ARTICLES OF INCORPORATION
OF
INLAND PRODUCTION COMPANY

FILED
In the Office of the
Secretary of State of Texas
SEP 02 2004
Corporations Section

Pursuant to the provisions of Article 4.04 of the Texas Business Corporation Act (the "TBCA"), the undersigned corporation adopts the following articles of amendment to the articles of incorporation:

ARTICLE 1 – Name

The name of the corporation is Inland Production Company.

ARTICLE 2 – Amended Name

The following amendment to the Articles of Incorporation was approved by the Board of Directors and adopted by the shareholders of the corporation on August 27, 2004.

The amendment alters or changes Article One of the Articles of Incorporation to change the name of the corporation so that, as amended, Article One shall read in its entirety as follows:

“ARTICLE ONE – The name of the corporation is Newfield Production Company.”

ARTICLE 3 – Effective Date of Filing

This document will become effective upon filing.

The holder of all of the shares outstanding and entitled to vote on said amendment has signed a consent in writing pursuant to Article 9.10 of the TBCA, adopting said amendment, and any written notice required has been given.

IN WITNESS WHEREOF, the undersigned corporation has executed these Articles of Amendment as of the 1st day of September, 2004.

INLAND RESOURCES INC.

By: Susan G. Riggs
Susan G. Riggs, Treasurer

UTSL-	15855	61052	73088	76561	
071572A	16535	62848	73089	76787	
065914	16539	63073B	73520A	76808	
	16544	63073D	74108	76813	
	17036	63073E	74805	76954	63073X
	17424	63073O	74806	76956	63098A
	18048	64917	74807	77233	68528A
UTU-	18399	64379	74808	77234	72086A
	19267	64380	74389	77235	72613A
02458	26026A	64381	74390	77337	73520X
03563	30096	64805	74391	77338	74477X
03563A	30103	64806	74392	77339	75023X
04493	31260	64917	74393	77357	76189X
05843	33992	65207	74398	77359	76331X
07978	34173	65210	74399	77365	76788X
09803	34346	65635	74400	77369	77098X
017439B	36442	65967	74404	77370	77107X
017985	36846	65969	74405	77546	77236X
017991	38411	65970	74406	77553	77376X
017992	38428	66184	74411	77554	78560X
018073	38429	66185	74805	78022	79485X
019222	38431	66191	74806	79013	79641X
020252	39713	67168	74826	79014	80207X
020252A	39714	67170	74827	79015	81307X
020254	40026	67208	74835	79016	
020255	40652	67549	74868	79017	
020309D	40894	67586	74869	79831	
022684A	41377	67845	74870	79832	
027345	44210	68105	74872	79833	
034217A	44426	68548	74970	79831	
035521	44430	68618	75036	79834	
035521A	45431	69060	75037	80450	
038797	47171	69061	75038	80915	
058149	49092	69744	75039	81000	
063597A	49430	70821	75075		
075174	49950	72103	75078		
096547	50376	72104	75089		
096550	50385	72105	75090		
	50376	72106	75234		
	50750	72107	75238		
10760	51081	72108	76239		
11385	52013	73086	76240		
13905	52018	73087	76241		
15392	58546	73807	76560		

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): N5160-Inland Production Company Route 3 Box 3630 Myton, UT 84052 Phone: 1-(435) 646-3721	TO: (New Operator): N2695-Newfield Production Company Route 3 Box 3630 Myton, UT 84052 Phone: 1-(435) 646-3721
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CA No.

Unit:

JONAH (GREEN RIVER)

WELL(S)

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
MONUMENT FED 31-1J	01	090S	160E	4301331413	11492	Federal	OW	P
MONUMENT FED 32-1J	01	090S	160E	4301331414	11492	Federal	OW	P
MON FED 44-1J	01	090S	160E	4301331415	11492	Federal	WI	A
MON FED 34-10J	10	090S	160E	4301331416	11492	Federal	WI	A
MON FED 12-11J	11	090S	160E	4301331417	11492	Federal	WI	A
MONUMENT FED 33-11J	11	090S	160E	4301331451	11492	Federal	OW	P
MONUMENT FED 24-12J	12	090S	160E	4301331409	11492	Federal	OW	P
MON FED 12-12J	12	090S	160E	4301331410	11492	Federal	WI	A
MON FED 14-12J	12	090S	160E	4301331411	11492	Federal	WI	A
MON FED 32-12J	12	090S	160E	4301331419	11492	Federal	WI	A
MON FED 42-12J	12	090S	160E	4301331486	11492	Federal	WI	A
MONUMENT FED 41-12J	12	090S	160E	4301331487	11492	Federal	OW	P
MON FED 41-14J	14	090S	160E	4301331408	11492	Federal	WI	A
MON FED 21-14J	14	090S	160E	4301331421	11492	Federal	WI	A
MONUMENT FED 21-15J	15	090S	160E	4301331422	11492	Federal	NA	PA
MON FED 31-7J	07	090S	170E	4301331405	11492	Federal	WI	A
MON FED 11-7J	07	090S	170E	4301331492	11492	Federal	WI	A
MONUMENT FED 12-7J	07	090S	170E	4301331493	11492	Federal	OW	P
JONAH 6-7	07	090S	170E	4301331987	11492	Federal	WI	A
JONAH 7-7	07	090S	170E	4301331988	11492	Federal	OW	P

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 9/15/2004
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 9/15/2004
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 2/23/2005
- Is the new operator registered in the State of Utah: YES Business Number: 755627-0143
- If **NO**, the operator was contacted on:

6a. (R649-9-2)Waste Management Plan has been received on: IN PLACE
6b. Inspections of LA PA state/fee well sites complete on: waived

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM BIA

8. **Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: na/

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 2/23/2005

DATA ENTRY:

- 1. Changes entered in the **Oil and Gas Database** on: 2/28/2005
- 2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 2/28/2005
- 3. Bond information entered in RBDMS on: 2/28/2005
- 4. Fee/State wells attached to bond in RBDMS on: 2/28/2005
- 5. Injection Projects to new operator in RBDMS on: 2/28/2005
- 6. Receipt of Acceptance of Drilling Procedures for APD/New on: waived

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: UT 0056

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: 61BSBDH2912

FEE & STATE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 61BSBDH2919

2. The **FORMER** operator has requested a release of liability from their bond on: n/a*
The Division sent response by letter on: n/a

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

*Bond rider changed operator name from Inland Production Company to Newfield Production Company - received 2/23/05

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: U-035521-A
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		8. WELL NAME and NUMBER: MONUMENT FED 24-12J
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052		9. API NUMBER: 43013314090000
PHONE NUMBER: 435 646-4825 Ext		9. FIELD and POOL or WILDCAT: MONUMENT BUTTE
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0539 FSL 1777 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 12 Township: 09.0S Range: 16.0E Meridian: S		COUNTY: DUCHESNE
		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 9/9/2013	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input checked="" type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input checked="" type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="New Perforations"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The subject well has been converted from a producing oil well to an injection well on 09/05/2013. New intervals were perforated, A1 sands - 5022-5048' 3 JSPF & PB10 sands - 4320-4330' 3 JSPF . On 09/09/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 09/09/2013 the casing was pressured up to 1110 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was a State representative available to witness the test - Chris Jensen.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
September 16, 2013**

NAME (PLEASE PRINT) Lucy Chavez-Naupoto	PHONE NUMBER 435 646-4874	TITLE Water Services Technician
SIGNATURE N/A	DATE 9/13/2013	

Mechanical Integrity Test Casing or Annulus Pressure Test

Newfield Production Company
Rt. 3 Box 3630
Myton, UT 84052
435-646-3721

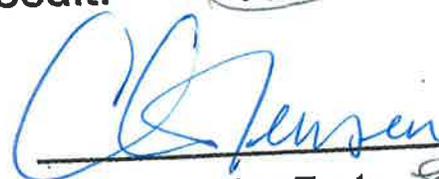
Witness:  Date 9/9/13 Time 9:00 am pm
Test Conducted by: EVERETT URBH
Others Present: _____

Well: BALCORN MON. FEDERAL 24-125-9-14 Field: MONUMENT BUTTE
Well Location: SESW Sec 12 T9S R16E API No: 43-013-31409
Duchesne County, UT

<u>Time</u>	<u>Casing Pressure</u>	
0 min	<u>1110</u>	psig
5	<u>1110</u>	psig
10	<u>1110</u>	psig
15	<u>1110</u>	psig
20	<u>1110</u>	psig
25	<u>1110</u>	psig
30 min	<u>1110</u>	psig
35	_____	psig
40	_____	psig
45	_____	psig
50	_____	psig
55	_____	psig
60 min	_____	psig

Tubing pressure: 0 psig

Result: Pass Fail

Signature of Witness: 
Signature of Person Conducting Test: Everett Urbh

Daily Activity Report

Format For Sundry
MON 24-12J-9-16
7/1/2013 To 11/30/2013

8/23/2013 Day: 1

Conversion

WC#2 on 8/23/2013 - MIRUSU. TOOH w/ tbg. Perferate new zones. - - Held safety meeting & dicussed location hazards & RU proceedures. MIRUSU. - PU 10 jts tbg to tag PBTB @ 5532'. TOOH w/ tbg. Found hole in tbg @ 170. LD 169-170-171. - RU Hot oiler. Open well w/ 0 psi on casing. Pump 30 bbls well started circulate. Pump 120 bbls down casing @ 225*. RU BOP's. Release TA. - Held safety meeting & dicussed location hazards & RU proceedures. MIRUSU. - - RU Perforators LLC WLT. PU gauge rig. RIH to 5532'. FI Lvl was 715'. RU 3-1/8" perf guns & perferate A1 sd @ 5046-48', 22-26', PB10 sds @4327-30', 20-22' w/ 3 spf for total of 11 shots total. RD WLT. SIFN. - PU 10 jts tbg to tag PBTB @ 5532'. TOOH w/ tbg. Found hole in tbg @ 170. LD 169-170-171. - RU Hot oiler. Open well w/ 0 psi on casing. Pump 30 bbls well started circulate. Pump 120 bbls down casing @ 225*. RU BOP's. Release TA. - Held safety meeting & dicussed location hazards & RU proceedures. MIRUSU. - - RU Perforators LLC WLT. PU gauge rig. RIH to 5532'. FI Lvl was 715'. RU 3-1/8" perf guns & perferate A1 sd @ 5046-48', 22-26', PB10 sds @4327-30', 20-22' w/ 3 spf for total of 11 shots total. RD WLT. SIFN. - PU 10 jts tbg to tag PBTB @ 5532'. TOOH w/ tbg. Found hole in tbg @ 170. LD 169-170-171. - RU Hot oiler. Open well w/ 0 psi on casing. Pump 30 bbls well started circulate. Pump 120 bbls down casing @ 225*. RU BOP's. Release TA. - RU Perforators LLC WLT. PU gauge rig. RIH to 5532'. FI Lvl was 715'. RU 3-1/8" perf guns & perferate A1 sd @ 5046-48', 22-26', PB10 sds @4327-30', 20-22' w/ 3 spf for total of 11 shots total. RD WLT. SIFN. **Finalized**

Daily Cost: \$0

Cumulative Cost: \$19,942

8/27/2013 Day: 3

Conversion

WC#2 on 8/27/2013 - Frac 1st stg & went to move tools & tbg was parted, Found 2 split collars, RIH w/ Graco overshot & fish PKR, LD 2 7/8" N-80 work string - CONTINUE PU TBG, SET RBP 10' OUT ON JT-139 @ 4388', TOOH 3 JTS TBG SET PKR 3'OUT ON JT-136 @ 4288', FILLED TBG W/ 7 BBLS PRESSURED UP TO 4500 PSI, COULD NOT GET PERFS TO BREAK, BLEED OF RATE OF 500 PSI PER 10 MIN, BLEED OF TO 1500 PSI SURGED IT TO 4500 PSI 4 TIMES, NO CHANGE - CONTINUE PU TBG, SET RBP 10' OUT ON JT-139 @ 4388', TOOH 3 JTS TBG SET PKR 3'OUT ON JT-136 @ 4288', FILLED TBG W/ 7 BBLS PRESSURED UP TO 4500 PSI, COULD NOT GET PERFS TO BREAK, BLEED OF RATE OF 500 PSI PER 10 MIN, BLEED OF TO 1500 PSI SURGED IT TO 4500 PSI 4 TIMES, NO CHANGE - BLEW DOWN WELL, PU & RIH W/ WEATHERFORD RBP, RETRIEVING HEAD, 1-2 3/8" PUP SUB, WEATHERFORD 5 1/2" HD PKR, TALLIED AND PU 129-JTS OF 2 7/8" N-80 TBG, SET PKR @ 4070' & PT CSG TO 2000 PSI, HELD FOR 15 MIN, GOOD TEST - BLEW DOWN WELL, PU & RIH W/ WEATHERFORD RBP, RETRIEVING HEAD, 1-2 3/8" PUP SUB, WEATHERFORD 5 1/2" HD PKR, TALLIED AND PU 129-JTS OF 2 7/8" N-80 TBG, SET PKR @ 4070' & PT CSG TO 2000 PSI, HELD FOR 15 MIN, GOOD TEST - JSA SAFETY MEETING - JSA SAFETY MEETING - CREW TRAVEL - CREW TRAVEL - Crew Travel - Crew Travel - TOOH Singling down 161-jts 2 7/8" N-80 tbg on trailer, LD PKR & BHA, SWI - TOOH Singling down 161-jts 2 7/8" N-80 tbg on trailer, LD PKR & BHA, SWI - Strap fishing tools, MU & RIH w/ 4 5/8" overshot dressed w/ 3 21/32" spiral grapple, 2' x 2 7/8" tbg sub, 155-jts 2 7/8" N-80 tbg, Latch on to fish & Release PKR - Strap fishing tools, MU & RIH w/ 4 5/8" overshot dressed w/ 3 21/32" spiral grapple, 2' x 2 7/8" tbg sub, 155-jts 2 7/8" N-80 tbg, Latch on to fish & Release PKR - Wait on Graco fishing tools. - Wait on Graco fishing tools. - TOOH w/ 2 7/8" N-tbg, Found split collar in string & come out of hole w/ 2 7/8" pin looking down, Most likley split collar in hole. - TOOH w/ 2 7/8" N-tbg, Found split collar in string & come out of hole w/ 2 7/8" pin looking down, Most likley split collar in hole. - RD HES

frac equip, Open well to rig tank on 20 choke, Flowback well till dead & recover 110 bbls, Release PKR & reverse tbg clean, Went to break out frac valve & found that tbg was parted, LD frac valve. - RD HES frac equip, Open well to rig tank on 20 choke, Flowback well till dead & recover 110 bbls, Release PKR & reverse tbg clean, Went to break out frac valve & found that tbg was parted, LD frac valve. - (Stg #1) (Delta 140)(Fresh Water) Open tbg w/ 0 psi, 0 bbls to fill tbg, Break down A-Sand @ 2269 psi w/ 2 bbls @ 4.6 bpm, Pump 6 bbls 15% HCL, Pump 97.3 bbls to get to rate & find x-link, Pumped 40.8 bbls 0-3# sand (Ramped), Pumped 77.7 bbls 3# sand (Hold), Pumped 24.4 bbls 4# sand (Hold), Pumped 30 bbls slick water flush, ISIP 1783 psi, F.G. .79, Max Press 4185 psi, Avg press 3400 psi, Max rate 15.1 bpm, Avg rate 14.5 bpm, Pumped ttl of 15,000# sand in formation, Pumped ttl of 276 bbls. - (Stg #1) (Delta 140)(Fresh Water) Open tbg w/ 0 psi, 0 bbls to fill tbg, Break down A-Sand @ 2269 psi w/ 2 bbls @ 4.6 bpm, Pump 6 bbls 15% HCL, Pump 97.3 bbls to get to rate & find x-link, Pumped 40.8 bbls 0-3# sand (Ramped), Pumped 77.7 bbls 3# sand (Hold), Pumped 24.4 bbls 4# sand (Hold), Pumped 30 bbls slick water flush, ISIP 1783 psi, F.G. .79, Max Press 4185 psi, Avg press 3400 psi, Max rate 15.1 bpm, Avg rate 14.5 bpm, Pumped ttl of 15,000# sand in formation, Pumped ttl of 276 bbls. - RU HES frac equip, Test line to 6,000 psi. - RU HES frac equip, Test line to 6,000 psi. - CREW TRAVEL - CREW TRAVEL - RELEASED PKR, TIH 3 -JTS TBG RETRIEVED RBP, TIH 22- JTS TBG, SET RBP 10' OUT ON JT -161 @ 5080', TOO H 4- JTS TBG, PU FRAC VAVLE W/ 6' PUP SUB ON BOTTOM, SIWFN - RELEASED PKR, TIH 3 -JTS TBG RETRIEVED RBP, TIH 22- JTS TBG, SET RBP 10' OUT ON JT -161 @ 5080', TOO H 4- JTS TBG, PU FRAC VAVLE W/ 6' PUP SUB ON BOTTOM, SIWFN - TOO H W/ 22- JTS TBG SET RBP 10' OUT ON JT 139 @ 4388', TOO H 2- JTS TBG, PUMP 175 GAL OF ACID DISPLACED W/ 20 BBLS OF FRESH WATER, TOO H 1- JT TBG SET PKR 3' OUT ON JT -136 @ 4288' , PRESSURED UP TO 2800 PSI & FORMATION BROKE, INJECTION RATE .25 BBLS/MIN @1400PSI - TOO H W/ 22- JTS TBG SET RBP 10' OUT ON JT 139 @ 4388', TOO H 2- JTS TBG, PUMP 175 GAL OF ACID DISPLACED W/ 20 BBLS OF FRESH WATER, TOO H 1- JT TBG SET PKR 3' OUT ON JT -136 @ 4288' , PRESSURED UP TO 2800 PSI & FORMATION BROKE, INJECTION RATE .25 BBLS/MIN @1400PSI - RELEASED PKR, TIH 1-JT, RU WESTERCEMICAL ACID PUPMER, PUMPED 125 GAL OF ACID DISPLACED W/ 25 BBLS OF FRESH WATER, TOO H 1-JT TBG SET PKR PRESSURED UP TO 3600 PSI & FORMATION BROKE, INJECTION RATE OF .25 BBLS @1200 PSI, TIH 4 -JTS TBG RETRIEVED RBP - RELEASED PKR, TIH 1-JT, RU WESTERCEMICAL ACID PUPMER, PUMPED 125 GAL OF ACID DISPLACED W/ 25 BBLS OF FRESH WATER, TOO H 1-JT TBG SET PKR PRESSURED UP TO 3600 PSI & FORMATION BROKE, INJECTION RATE OF .25 BBLS @1200 PSI, TIH 4 -JTS TBG RETRIEVED RBP - PRESSURED UP TO 4000 PSI, PERFS WOULD NOT BREAK, BLEED OFF RATE OF 200 PSI PER 10 MIN, BLEED OFF TO 1500 PSI SURGED TO 4000 PSI 4 TIMES, NO CHANGE - PRESSURED UP TO 4000 PSI, PERFS WOULD NOT BREAK, BLEED OFF RATE OF 200 PSI PER 10 MIN, BLEED OFF TO 1500 PSI SURGED TO 4000 PSI 4 TIMES, NO CHANGE - TIH W/ 3- JTS, RETRIEVED RBP, PU 23- JTS OF TBG SET PLUG 10' OUT ON JT-161 @ 5080', TOO H W/ 4- JTS TBG SET PKR 3' OUT ON JT-157 @ 4948 - TIH W/ 3- JTS, RETRIEVED RBP, PU 23- JTS OF TBG SET PLUG 10' OUT ON JT-161 @ 5080', TOO H W/ 4- JTS TBG SET PKR 3' OUT ON JT-157 @ 4948 - CONTINUE PU TBG, SET RBP 10' OUT ON JT-139 @ 4388', TOO H 3 JTS TBG SET PKR 3'OUT ON JT-136 @ 4288', FILLED TBG W/ 7 BBLS PRESSURED UP TO 4500 PSI, COULD NOT GET PERFS TO BREAK, BLEED OF RATE OF 500 PSI PER 10 MIN, BLEED OF TO 1500 PSI SURGED IT TO 4500 PSI 4 TIMES, NO CHANGE - CONTINUE PU TBG, SET RBP 10' OUT ON JT-139 @ 4388', TOO H 3 JTS TBG SET PKR 3'OUT ON JT-136 @ 4288', FILLED TBG W/ 7 BBLS PRESSURED UP TO 4500 PSI, COULD NOT GET PERFS TO BREAK, BLEED OF RATE OF 500 PSI PER 10 MIN, BLEED OF TO 1500 PSI SURGED IT TO 4500 PSI 4 TIMES, NO CHANGE - BLEW DOWN WELL, PU & RIH W/ WEATHERFORD RBP, RETRIEVING HEAD, 1-2 3/8" PUP SUB, WEATHERFORD 5 1/2" HD PKR, TALLIED AND PU 129-JTS OF 2 7/8" N-80 TBG, SET PKR @ 4070' & PT CSG TO 2000 PSI, HELD FOR 15 MIN, GOOD TEST - BLEW DOWN WELL, PU & RIH W/ WEATHERFORD RBP, RETRIEVING HEAD, 1-2 3/8" PUP SUB, WEATHERFORD 5 1/2" HD PKR, TALLIED AND PU 129-JTS OF 2 7/8" N-80 TBG, SET PKR @ 4070' & PT CSG TO 2000 PSI, HELD FOR 15 MIN, GOOD TEST - JSA SAFETY MEETING - JSA SAFETY MEETING - CREW TRAVEL - CREW TRAVEL - Crew Travel - Crew Travel - TOO H Singling down 161-jts 2 7/8" N-80 tbg on trailer, LD PKR & BHA, SWI - TOO H Singling down 161-jts 2 7/8" N-80 tbg on trailer, LD PKR & BHA, SWI - Strap fishing tools, MU

8/29/2013 Day: 4

Conversion

WC#2 on 8/29/2013 - Fish collar pieces for wellhead & csg, PU pkr & retrieving head, PU new L-80 work string. - CREW TRAVEL - RIH W/ RETRIEVING HEAD, 2 3/8" PUP SUB, 1-5 1/2" HD PKR, PU 149 JTS TBG SIWFN - RIH W/ GRACO MAGNET, PU 20- JTS OF 2 7/8" TBG & STACKED OUT ON COLLAR PIECES, POOH 20- JTS RETRIEVED & 3 PEICES OF THE COLLAR (APPROX 1/3 COLLAR LEFT IN HOLE), TIH 20- JTS & PU 10 MORE JTS OF TBG OFF TRAILER, TOOH 30-JTS TBG, RECOVERED REMAINING PIECES OF COLLAR. - ND BOPS & FOUND HALF OF A 2 7/8" TBG COLLAR IN WELL HEAD, CHECK BOP CAVITY FOR REMAINING COLLAR PIECES, NONE TO BE FOUND - PU RETRIEVING HEAD, 2 3/8" PUP SUB, WEATHERFORD 5 1/2" HD PKR, 1- JT 2 7/8" N-80 TBG, WENT TO START IN HOLE W/ TOOLS & COULD NOT GET THRU WELLHEAD - JSA SAFTEY MEETING - CREW TRAVEL - CREW TRAVEL - RIH W/ RETRIEVING HEAD, 2 3/8" PUP SUB, 1-5 1/2" HD PKR, PU 149 JTS TBG SIWFN - RIH W/ GRACO MAGNET, PU 20- JTS OF 2 7/8" TBG & STACKED OUT ON COLLAR PIECES, POOH 20- JTS RETRIEVED & 3 PEICES OF THE COLLAR(APPROX 1/3 COLLAR LEFT IN HOLE), TIH 20- JTS & PU 10 MORE JTS OF TBG OFF TRAILER, TOOH 30-JTS TBG, RECOVERED REMAINING PIECES OF COLLAR. - ND BOPS & FOUND HALF OF A 2 7/8" TBG COLLAR IN WELL HEAD, CHECK BOP CAVITY FOR REMAINING COLLAR PIECES, NONE TO BE FOUND - PU RETRIEVING HEAD, 2 3/8" PUP SUB, WEATHERFORD 5 1/2" HD PKR, 1- JT 2 7/8" N-80 TBG, WENT TO START IN HOLE W/ TOOLS & COULD NOT GET THRU WELLHEAD - JSA SAFTEY MEETING - CREW TRAVEL - CREW TRAVEL - RIH W/ RETRIEVING HEAD, 2 3/8" PUP SUB, 1-5 1/2" HD PKR, PU 149 JTS TBG SIWFN - RIH W/ GRACO MAGNET, PU 20- JTS OF 2 7/8" TBG & STACKED OUT ON COLLAR PIECES, POOH 20- JTS RETRIEVED & 3 PEICES OF THE COLLAR (APPROX 1/3 COLLAR LEFT IN HOLE), TIH 20- JTS & PU 10 MORE JTS OF TBG OFF TRAILER, TOOH 30-JTS TBG, RECOVERED REMAINING PIECES OF COLLAR. - ND BOPS & FOUND HALF OF A 2 7/8" TBG COLLAR IN WELL HEAD, CHECK BOP CAVITY FOR REMAINING COLLAR PIECES, NONE TO BE FOUND - PU RETRIEVING HEAD, 2 3/8" PUP SUB, WEATHERFORD 5 1/2" HD PKR, 1- JT 2 7/8" N-80 TBG, WENT TO START IN HOLE W/ TOOLS & COULD NOT GET THRU WELLHEAD - JSA SAFTEY MEETING - CREW TRAVEL **Finalized**

Daily Cost: \$0

Cumulative Cost: \$47,982

8/30/2013 Day: 5

Conversion

WC#2 on 8/30/2013 - Continue PU L-80 tbg, Circulate sand off RBP, Release plug & move tools to 2nd stg, Test tools, Set tools for stg #2 - JSA SAFTEY MEETING - CREW TRAVEL - CREW TRAVEL - TOOH 4 JTS, PU FRAC STRING VALVE, SIWFN, CLEAN UP LOCATION - TOOH W/ TOOLS TO 2ND STAGE OF FRAC, SET PKR BELOW PERFS & PULLED 1- JT, SET PKR & PRESS TEST TO 2K PSI GOOD TEST - PU 10 JTS TBG, MU WASH STAND & CIRCULATE ONTO PLUG (30'), CIRCULATED 45 MIN @ 3 BBLs MIN & RELEASED PLUG - JSA SAFTEY MEETING - CREW TRAVEL - CREW TRAVEL - TOOH 4 JTS, PU FRAC STRING VALVE, SIWFN, CLEAN UP LOCATION - TOOH W/ TOOLS TO 2ND STAGE OF FRAC, SET PKR BELOW PERFS & PULLED 1- JT, SET PKR & PRESS TEST TO 2K PSI GOOD TEST - PU 10 JTS TBG, MU WASH STAND & CIRCULATE ONTO PLUG (30'), CIRCULATED 45 MIN @ 3 BBLs MIN & RELEASED PLUG - JSA SAFTEY MEETING - CREW TRAVEL - CREW TRAVEL - TOOH 4 JTS, PU FRAC STRING VALVE, SIWFN, CLEAN UP LOCATION - TOOH W/ TOOLS TO 2ND STAGE OF FRAC, SET PKR BELOW PERFS & PULLED 1- JT, SET PKR & PRESS TEST TO 2K PSI GOOD TEST - PU 10 JTS TBG, MU WASH STAND & CIRCULATE ONTO PLUG (30'), CIRCULATED 45 MIN @ 3 BBLs MIN & RELEASED PLUG

Daily Cost: \$0

Cumulative Cost: \$60,515

(Ramped), Pumped 71 bbls 3# sand (Hold), Pumped 24 bbls slick water flush, ISIP 1987 psi, F.G. .89, Max Press 4137 psi, Avg press 3143 psi, Max rate 15 bpm, Avg rate 14.2 bpm, Pumped ttl of 11,194# sand in formation, Pumped ttl of 203 bbls. (Ran short on sand before 4# sand stg) - RU HES frac equipment, Test lines to 6,000 psi. - RU HES frac equipment, Test lines to 6,000 psi. - CREW TRAVEL - CREW TRAVEL - WAIT ON HALLIBURTON FRAC CREW (FRAC CREW HAD ISSUES ON DIFFERENT WELL) - WAIT ON HALLIBURTON FRAC CREW (FRAC CREW HAD ISSUES ON DIFFERENT WELL) - SAFETY MEETING & JSA - SAFETY MEETING & JSA - CREW TRAVEL - Crew Travel **Finalized**

Daily Cost: \$0

Cumulative Cost: \$71,530

9/4/2013 Day: 8

Conversion

WC#2 on 9/4/2013 - LD 2 7/8" work String, TIH w/ production tbg, TOO H w/ tbg breaking & doping - CREW TRAVEL - CREW TRAVEL - CREW TRAVEL - FLUSHED TBG W/ 40 BBLS @ 250 DEG, DROPPED STANDING VALVE CHASED W/ 35 BBLS NO PRESSURE, CHASED TO BOTTOM W/ SANDLINE, POOH W/ SANDLINE, PUMPED 1 BBL PT TO 3K PSI GOOD TEST - TIH W/ 171-JTS 2 7/8" J-55 PRODUCTION STRING - TIH 16-JTS OUT OF DERRICK, LD 137-JTS WORK STRING ON FLOAT - JSA SAFETY MEETING - TOO H W/ 18-JTS TBG, CHANGED 2 COLLARS & BREAKING AND DOPING ALL CONNECTIONS, SWFN - FLUSHED TBG W/ 40 BBLS @ 250 DEG, DROPPED STANDING VALVE CHASED W/ 35 BBLS NO PRESSURE, CHASED TO BOTTOM W/ SANDLINE, POOH W/ SANDLINE, PUMPED 1 BBL PT TO 3K PSI GOOD TEST - TIH W/ 171-JTS 2 7/8" J-55 PRODUCTION STRING - TIH 16-JTS OUT OF DERRICK, LD 137-JTS WORK STRING ON FLOAT - JSA SAFETY MEETING - CREW TRAVEL - CREW TRAVEL - TOO H W/ 18-JTS TBG, CHANGED 2 COLLARS & BREAKING AND DOPING ALL CONNECTIONS, SWFN - FLUSHED TBG W/ 40 BBLS @ 250 DEG, DROPPED STANDING VALVE CHASED W/ 35 BBLS NO PRESSURE, CHASED TO BOTTOM W/ SANDLINE, POOH W/ SANDLINE, PUMPED 1 BBL PT TO 3K PSI GOOD TEST - TIH W/ 171-JTS 2 7/8" J-55 PRODUCTION STRING - TIH 16-JTS OUT OF DERRICK, LD 137-JTS WORK STRING ON FLOAT - JSA SAFETY MEETING - CREW TRAVEL - TOO H W/ 18-JTS TBG, CHANGED 2 COLLARS & BREAKING AND DOPING ALL CONNECTIONS, SWFN

Daily Cost: \$0

Cumulative Cost: \$155,324

9/5/2013 Day: 9

Conversion

WC#2 on 9/5/2013 - Continue TOO H breaking & doping tbg (Change out 9 collars), LD Extra tbg, TIH w/ injection PKR & tbg, Drop standing valve, Test tbg over night. - CREW TRAVEL - JSA SAFETY MEETING - LD EXTRA 43-JTS TBG ON TBG FLOAT - MU & TIH W/ INJECTION STRING AS FOLLOWS: 2 3/8" RE-ENTRY GUIDE, 2 3/8 1.87 " XN" NIPPLE, 2' X 2 3/8" SUB, X-OVER 2 3/8" TO 2 7/8" SWEDGE, 5 1/2" X 2 7/8" WEATHERFORD AS1X PACKER, 2 7/8" T-2 ON/OFF TOOL, 2 7/8" SEAT NIPPLE, 130-JTS OF 2 7/8" J-55 TBG - PUMPED 10 BBLS & DROPPED STANDING VALVE, CHASED W/ 35 BBLS NO PRESSURE, CHASED TO BOTTOM W/ SANDLINE TAGGED STANDING VALVE IN SN, POOH W/ SANDLINE, RU ISOLATION T & PRESS TEST TBG TO 3K PSI, SIWFN - CREW TRAVEL - CREW TRAVEL - JSA SAFETY MEETING - TOO H 112-JTS TBG BREAKING & DOPING, CHANGE OUT 9 TBG COLLARS - LD EXTRA 43-JTS TBG ON TBG FLOAT - MU & TIH W/ INJECTION STRING AS FOLLOWS: 2 3/8" RE-ENTRY GUIDE, 2 3/8 1.87 " XN" NIPPLE, 2' X 2 3/8" SUB, X-OVER 2 3/8" TO 2 7/8" SWEDGE, 5 1/2" X 2 7/8" WEATHERFORD AS1X PACKER, 2 7/8" T-2 ON/OFF TOOL, 2 7/8" SEAT NIPPLE, 130-JTS OF 2 7/8" J-55 TBG - PUMPED 10 BBLS & DROPPED STANDING VALVE, CHASED W/ 35 BBLS NO PRESSURE, CHASED TO BOTTOM W/ SANDLINE TAGGED STANDING VALVE IN SN, POOH W/ SANDLINE, RU ISOLATION T & PRESS TEST TBG TO 3K PSI, SIWFN - CREW TRAVEL - TOO H 112-JTS TBG BREAKING & DOPING, CHANGE OUT 9 TBG COLLARS - CREW TRAVEL - JSA SAFETY MEETING - TOO H 112-JTS TBG BREAKING & DOPING, CHANGE OUT 9 TBG COLLARS - LD EXTRA 43-JTS TBG ON TBG FLOAT - MU & TIH W/ INJECTION STRING AS FOLLOWS: 2

3/8" RE-ENTRY GUIDE, 2 3/8 1.87 " XN" NIPPLE, 2' X 2 3/8" SUB, X-OVER 2 3/8" TO 2 7/8" SWEDGE, 5 1/2" X 2 7/8" WEATHERFORD AS1X PACKER, 2 7/8" T-2 ON/OFF TOOL, 2 7/8" SEAT NIPPLE, 130-JTS OF 2 7/8" J-55 TBG - PUMPED 10 BBLS & DROPPED STANDING VALVE, CHASED W/ 35 BBLS NO PRESSURE, CHASED TO BOTTOM W/ SANDLINE TAGGED STANDING VALVE IN SN, POOH W/ SANDLINE, RU ISOLATION T & PRESS TEST TBG TO 3K PSI, SIWFN - CREW TRAVEL **Finalized**

Daily Cost: \$0

Cumulative Cost: \$164,310

9/6/2013 Day: 10

Conversion

WC#2 on 9/6/2013 - Retrieve standing valve, ND BOPs, Set PKR & J-off, Pump PKR fluid, Land tbg on B-1 flange w/ 15K tension - RD RIG PRE-INSPECT TO MOVE TO NEXT LOCATION - CIRCULATED 50 BBLS OF PKR FLUID, SET PKR W/ 15K# TENSION LANDED W/ CE@ 4003.67, EOT@4013.67, PT CSG TO 1400 PSI, HELD 100% FOR 30 MIN, GOOD TEST - CREW TRAVEL - JSA SAFETY MEETING - RU RIG FLOOR, ND BOPS - RIH W/ SANDLINE & RETRIEVE STANDING VALVE - JSA SAFETY MEETING - CREW TRAVEL - CREW TRAVEL - JSA SAFETY MEETING - RIH W/ SANDLINE & RETRIEVE STANDING VALVE - RU RIG FLOOR, ND BOPS - CIRCULATED 50 BBLS OF PKR FLUID, SET PKR W/ 15K# TENSION LANDED W/ CE@ 4003.67, EOT@4013.67, PT CSG TO 1400 PSI, HELD 100% FOR 30 MIN, GOOD TEST - RD RIG PRE-INSPECT TO MOVE TO NEXT LOCATION - RD RIG PRE-INSPECT TO MOVE TO NEXT LOCATION - CIRCULATED 50 BBLS OF PKR FLUID, SET PKR W/ 15K# TENSION LANDED W/ CE@ 4003.67, EOT@4013.67, PT CSG TO 1400 PSI, HELD 100% FOR 30 MIN, GOOD TEST - RU RIG FLOOR, ND BOPS - RIH W/ SANDLINE & RETRIEVE STANDING VALVE

Daily Cost: \$0

Cumulative Cost: \$168,955

9/11/2013 Day: 11

Conversion

Rigless on 9/11/2013 - Conduct initial MIT - On 09/09/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 09/09/2013 the casing was pressured up to 1110 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was a State representative available to witness the test - Chris Jensen. - On 09/09/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 09/09/2013 the casing was pressured up to 1110 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was a State representative available to witness the test - Chris Jensen. - On 09/09/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 09/09/2013 the casing was pressured up to 1110 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was a State representative available to witness the test - Chris Jensen. **Finalized**

Daily Cost: \$0

Cumulative Cost: \$194,667

Pertinent Files: [Go to File List](#)

Balcron Monument Federal 24-12J-9-16

Spud Date: 11/8/93
 Put on Production: 12/30/93
 GL: 5495' KB: 5505'

Injection Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 6jts (271.28')
 DEPTH LANDED: 279'
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 150 sxs Class "G" cmt

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 129 jts (5676.22')
 HOLE SIZE: 7-7/8"
 DEPTH LANDED: 5685.22'
 CEMENT DATA: 204 sxs Prem. Lite II mixed & 215 sxs 50/50 POZ.
 CEMENT TOP AT: 279'

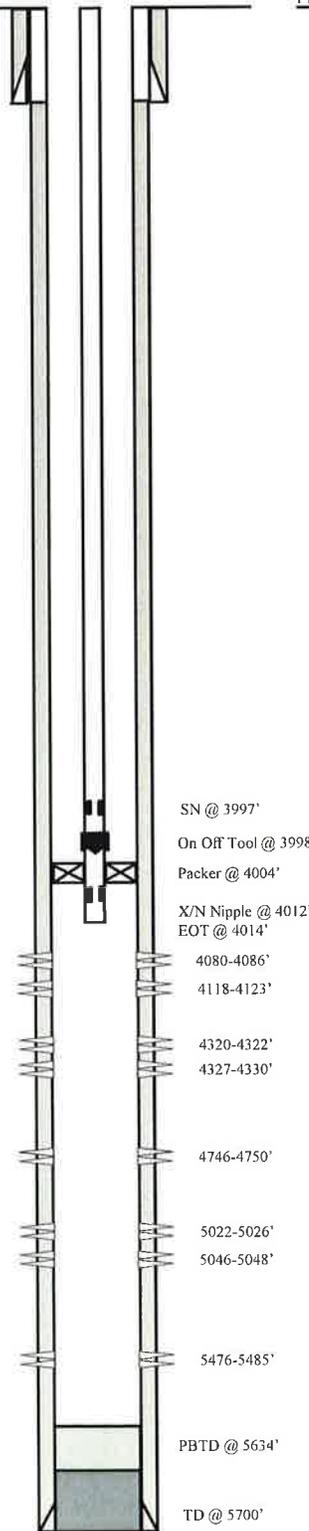
TUBING

SIZE/GRADE/WT: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 128 jts (3987.4')
 SEATING NIPPLE: 2-7/8" (1.10')
 SN LANDED AT: 3997.4' KB
 ON/OFF TOOL AT: 3998.5'
 ARROW #1 PACKER CE AT: 4003.7'
 XO 2-3/8 x 2-7/8 J-55 AT: 4007.3'
 TBG PUP 2-3/8 J-55 AT: 4007.8'
 X/N NIPPLE AT: 4011.9'
 TOTAL STRING LENGTH: EOT @ 4013.96'

FRAC JOB

12/22/93	4080'-4123'	Frac sands as follows: with 33085 # 16-30 sand in 500 bbls of YF155 2% KCl water
12/17/93	4746'-4750'	Frac sands as follows: with 13978# 16-30 sand in 247 bbls of YF155 2% KCl water. Screened out during flush. ATR 15 BPM @ 2500 psi, max 3350 psi I SI P 2450 psi, 10 min - 1488 psi, 15 min - 1484 psi.
12/14/93		Frac sands as follows: Screened out - no details available
12/7/09		Parted rods. Updated rod and tubing details.
08/27/13	5022-5048'	Frac A1 sand as follows: 15000# 20/40 sand in 270 bbls Lightning 17 frac fluid
08/31/13	4320-4330'	Frac PB10 sand as follows: 11194# 20/40 sand in 196bbls Lightning 17 frac fluid.
09/05/13		Conversion to Injection Well
09/09/13		Conversion MIT Finalized - update tbg detail

Cement Top @ 279'
 Casing Shoe @ 279'



PERFORATION RECORD

	4080'-4086'	2 JSPF	12 holes
	4118'-4123'	2 JSPF	10 holes
	4746'-4750'	2 JSPF	8 holes
	5476'-5485'	2 JSPF	18 holes
08/23/13	5046-5048'	3 JSPF	6 holes
08/23/13	5022-5026'	3 JSPF	12 holes
08/23/13	4327-4330'	3 JSPF	9 holes
08/23/13	4320-4322'	3 JSPF	6 holes

NEWFIELD

Balcron Monument Federal 24-12J-9-16
 539' FSL & 1777' FWL
 SE/SW Section 12-T9S-R16E
 Duchesne Co, Utah
 API # 43-013-31409; Lease # U-035521-A

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: U-035521-A
1. TYPE OF WELL Water Injection Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY	7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052	8. WELL NAME and NUMBER: MONUMENT FED 24-12J
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0539 FSL 1777 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 12 Township: 09.0S Range: 16.0E Meridian: S	9. API NUMBER: 43013314090000
9. FIELD and POOL or WILDCAT: MONUMENT BUTTE	COUNTY: DUCHESNE
9. API NUMBER: 43013314090000	STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

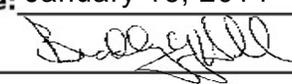
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 1/15/2014	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input checked="" type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input checked="" type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above reference well was put on injection at 1:50 PM on 01/15/2014.

Accepted by the Utah Division of Oil, Gas and Mining

Date: January 16, 2014

By: 

NAME (PLEASE PRINT) Lucy Chavez-Naupoto	PHONE NUMBER 435 646-4874	TITLE Water Services Technician
SIGNATURE N/A	DATE 1/16/2014	



June 14, 2012

Mr. Mark Reinbold
State of Utah
Division of Oil, Gas and Mining
1594 W North Temple
Salt Lake City, Utah 84114-5801

RE: Permit Application for Water Injection Well
Balcron Monument Federal #24-12J-9-16
Monument Butte Field, Lease #U-035521-A
Section 12-Township 9S-Range 16E
Duchesne County, Utah

Dear Mr. Reinbold:

Newfield Production Company herein requests approval to convert the Balcron Monument Federal #24-12J-9-16 from a producing oil well to a water injection well in the Monument Butte (Green River) Field.

I hope you find this application complete; however, if you have any questions or require additional information, please contact me at (303) 893-0102.

Sincerely,

A handwritten signature in black ink, appearing to read "Eric Sundberg", with a long, sweeping horizontal line extending to the right.

Eric Sundberg
Regulatory Lead

RECEIVED
JUN 18 2012
DIV. OF OIL, GAS & MINING

NEWFIELD PRODUCTION COMPANY
APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL
BALCRON MONUMENT FEDERAL #24-12J-9-16
MONUMENT BUTTE FIELD (GREEN RIVER) FIELD
LEASE #U-035521-A
JUNE 14, 2012

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Balcron Monument Federal 24-12J-9-16

Spud Date: 11/8/93
 Put on Production: 12/30/93
 GL: 5495' KB: 5505'

Proposed Injection Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 6jts. (271.28')
 DEPTH LANDED: 279'
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 150 sxs Class "G" cmt

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 129 jts. (5676.22')
 HOLE SIZE: 7-7/8"
 DEPTH LANDED: 5685.22'
 CEMENT DATA: 204 sxs Prem. Lite II mixed & 215 sxs 50/50 POZ.
 CEMENT TOP AT: 279'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 172 jts (5361')
 TUBING ANCHOR: 5371.7'
 NO. OF JOINTS: 1 jts (64.2')
 SEATING NIPPLE: 2-7/8" (1.1')
 SN LANDED AT: 5438.7' KB
 NO. OF JOINTS: 2 jts (5439.8')
 TOTAL STRING LENGTH: EOT @ 5503'

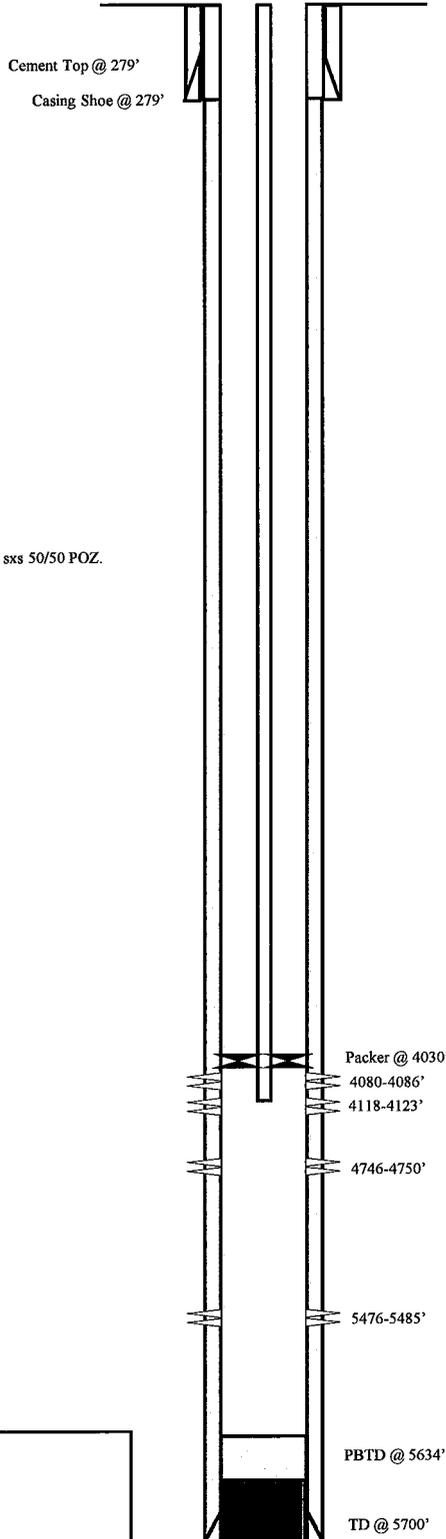
FRAC JOB

12/22/93 4080'-4123' Frac Frac sands as follows:
 with 33085 # 16-30 sand in
 500 bbls of YF155 2% KCl water.

12/17/93 4746'-4750' Frac Frac sands as follows:
 with 13978# 16-30 sand in 247 bbls of
 YF155 2% KCl water. Screened out
 during flush. ATR 15 BPM @ 2500 psi,
 max 3350 psi. I SI P 2450 psi, 10 min -
 1488 psi, 15 min - 1484 psi.

12/14/93 Frac Frac sands as follows:
 Screened out - no details available.

12/7/09 Frac Parted rods. Updated rod and tubing
 details.



PERFORATION RECORD

4080'-4086'	2 JSPF	12 holes
4118'-4123'	2 JSPF	10 holes
4746'-4750'	2 JSPF	8 holes
5476'-5485'	2 JSPF	18 holes

NEWFIELD



Balcron Monument Federal 24-12J-9-16
 539' FSL & 1777' FWL
 SE/SW Section 12-T9S-R16E
 Duchesne Co, Utah
 API # 43-013-31409; Lease # U-035521-A

WORK PROCEDURE FOR INJECTION CONVERSION

1. Rig up hot oil truck to casing. Pump water. Unseat pump. Flush rods. Trip out of hole with rods and pump.
2. Trip out of hole with tubing, breaking and doping every connection. Trip in hole with packer and tubing. Rig up water truck to casing. Pump packer fluid. Set packer.
3. Test casing and packer.
4. Rig down and move out.

**REQUIREMENTS FOR INJECTION OF FLUIDS INTO RESERVOIRS
RULE R615-5-1**

- 1. Operations to increase ultimate recovery, such as cycling of gas, the maintenance of pressure, the introduction of gas, water or other substances into a reservoir for the purpose of secondary or other enhanced recovery or for storage and the injection of water into any formation for the purpose of water disposal shall be permitted only by order of the Board after notice and hearing.**
- 2. A request for agency action for authority for the injection of gas, liquified petroleum gas, air, water or any other medium into any formation for any reason, including but not necessarily limited to the establishment of or the expansion of waterflood projects, enhanced recovery projects, and pressure maintenance projects shall contain:**

2.1 The name and address of the operator of the project.

Newfield Production Company
1001 17th Street, Suite 2000
Denver, Colorado 80202

2.2 A plat showing the area involved and identifying all wells, including all proposed injection wells, in the project area and within one-half mile of the project area.

See Attachment A.

2.3 A full description of the particular operation for approval is requested.

Approval is requested to convert the Balcron Monument Federal #24-12J-9-16 from a producing oil well to a water injection well in Monument Butte (Green River) Field.

2.4 A description of the pools from which the identified wells are producing or have produced.

The proposed injection well will inject into the Green River Formation.

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

The injection zone is in the Green River Formation. For the Balcron Monument Federal #24-12J-9-16 well, the proposed injection zone is from Garden Gulch to Castle Peak (3889' - 5634'). The confining strata directly above and below the injection zones are the Garden Gulch and the top of the Wasatch Formation or TD, which ever is shallower. The Garden Gulch Marker top is at 3567' and the TD is at 5700'.

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

The referenced log for the Balcron Monument Federal #24-12J-9-16 is on file with the Utah Division of Oil, Gas and Mining.

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

The primary type and source of fluid to be used for injection will be culinary water commingled with produced water. The average estimated injection of fluids will be at a rate of 300 BPD, and the estimated maximum injection will be at a rate of 500 BPD.

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

See Attachment B.

- 2.9 An affidavit certifying that said operators or owners and surface owners within a one-half mile radius have been provided a copy of the petition for injection.**

See Attachment C.

- 2.10 Any additional information the Board may determine is necessary to adequately review the petition.**

Newfield Production Company will supply any additional information requested by the Utah Division of Oil, Gas and Mining.

- 4.0 Establish recovery projects may be expanded and additional wells placed on injection only upon authority from the Board after notice and hearing or by administrative approval.**

This proposed injection well is on a Federal lease (Lease #U-035521-A) in the Monument Butte Federal (Green River) Field, and this request is for administrative approval.

**REQUIREMENTS FOR CLASS II INJECTION WELLS INCLUDING WATER DISPOSAL,
STORAGE AND ENHANCED RECOVERY WELLS
SECTION V – RULE R615-5-2**

- 1. Injection well shall be completed, equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.**
- 2. The application for an injection well shall include a properly completed Form DOGM-UIC-1 and the following:**

- 2.1 A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed wells, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.**

See Attachments A and B.

- 2.2 Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper and porosity.**

All logs are on file with the Utah Division of Oil, Gas and Mining.

- 2.3 A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.**

A copy of the cement bond log is on file with the Utah Division of Oil, Gas and Mining.

- 2.4 Copies of logs already on file with the Division should be referenced, but need not be refiled.**

All copies of logs are on file with the Utah Division of Oil, Gas and Mining.

- 2.5 A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.**

The casing program is 8-5/8", 24# surface casing run to 279' KB, and 5-1/2", 15.5# casing run from surface to 5685' KB. A casing integrity test will be conducted at the time of conversion. See Attachment E.

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

The primary type and source of fluid to be used for injection will be culinary water commingled with produced water. The estimated average rate of injection will be 300 BPD, and the estimated maximum rate of injection will be 500 BPD.

- 2.7 Standard laboratory analysis of the fluid to be injected, the fluid in the formation into which the fluid is being injected, and the compatibility of the fluids.**

See Attachment F.

The proposed average and maximum injection pressures.

The proposed average injection pressure will be approximately 1100 psig and the maximum injection pressure will not exceed 1114 psig.

2.8 Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.

The minimum fracture gradient for the Balcron Monument Federal #24-12J-9-16, for existing perforations (4080' - 5485') calculates at 0.64 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 1114 psig. We may add additional perforations between 3567' and 5700'. See Attachments G and G-1.

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

In the Balcron Monument Federal #24-12J-9-16, the proposed injection zone (3889' - 5634') is in the Garden Gulch to the Castle Peak of the Green River Formation. The reservoir is a very fine-grained sandstone with minor imbedded shale streaks. The estimated porosity is 13%. The members are composed of porous and permeable lenticular calcareous sandstone and low porosity carbonates and calcareous shale. The porous and lenticular sandstone varies in thickness from 0-31' and is confined to the Monument Butte Federal Field. Outside the Monument Butte Federal Field, the sandstone is composed of tight, very fine, silty, calcareous sandstone, less than 3' thick. The stratum confining the injection zone is composed of tight, moderately calcareous, sandy lacustrine shale. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

2.10 A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter the improper intervals.

See Attachments E through E-18.

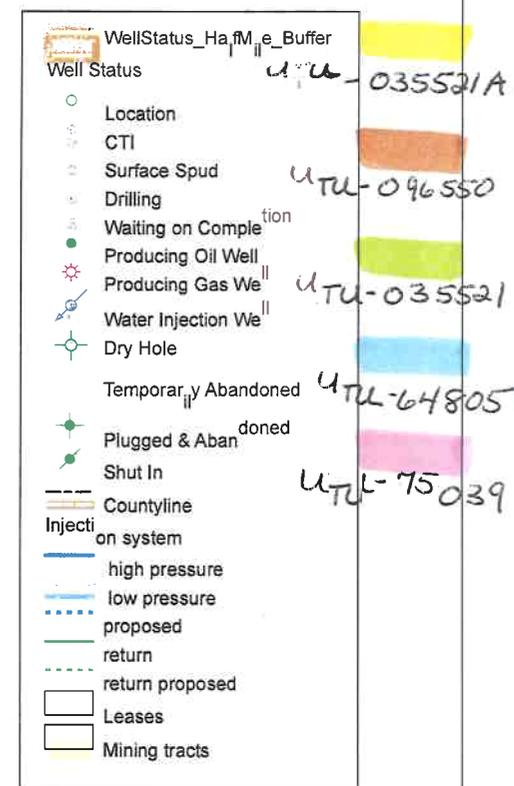
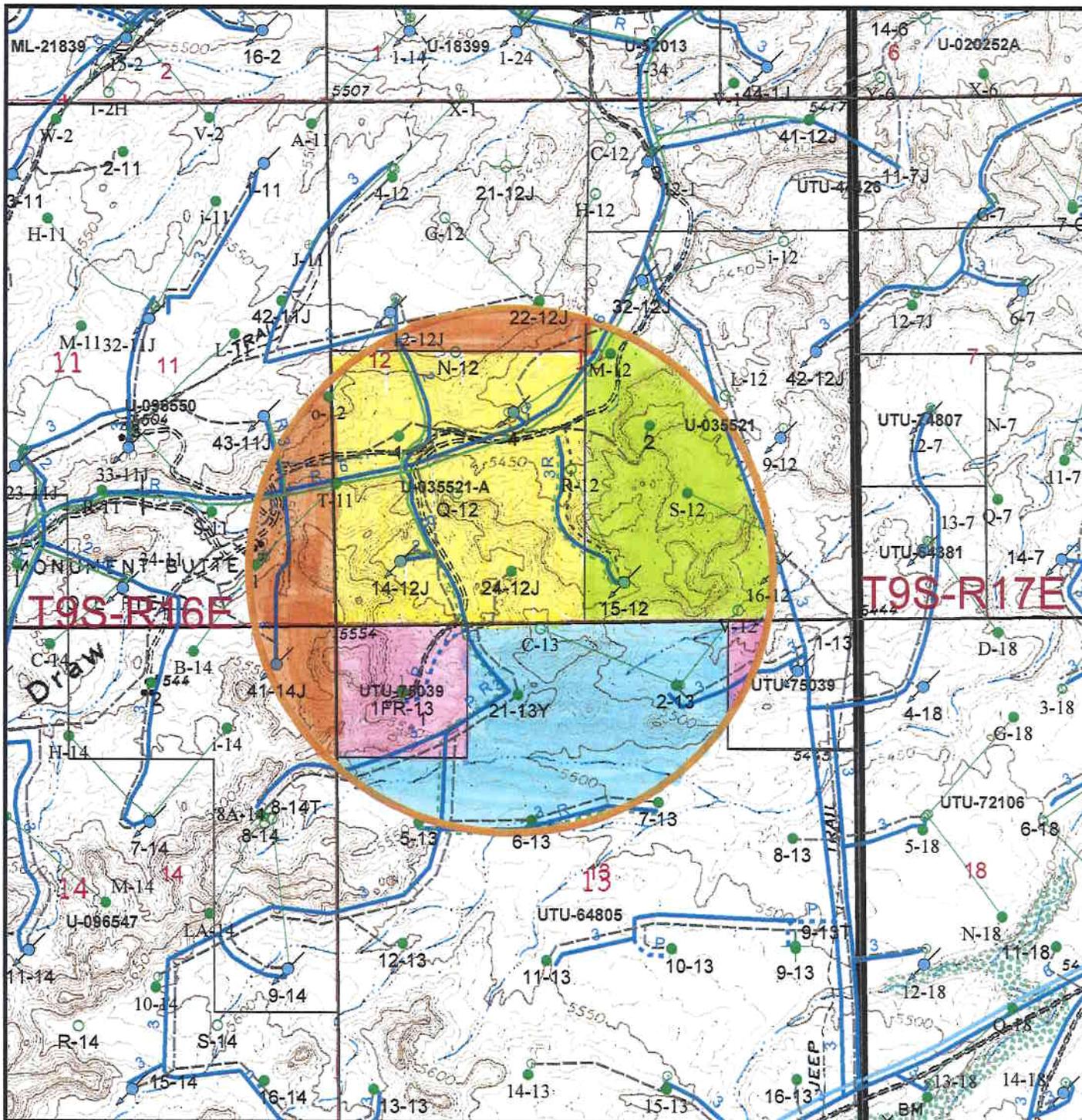
Additionally, the injection system will be equipped with high and low pressure shut down devices that will automatically shut in injection waters if a system blockage or leakage occurs. One way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure relief.

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

See Attachment C.

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

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



Mon 24-12J
Section 12, T9S-R16E

NEWFIELD
ROCKY MOUNTAINS 1 in = 1,500 feet

1/2 Mile Radius Map
Duchesne & Uintah Counties

1001 17th Street Suite 2000
Denver, Colorado 80202
Phone: (303) 853-0102

March 13, 2012

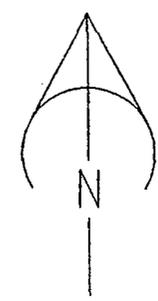
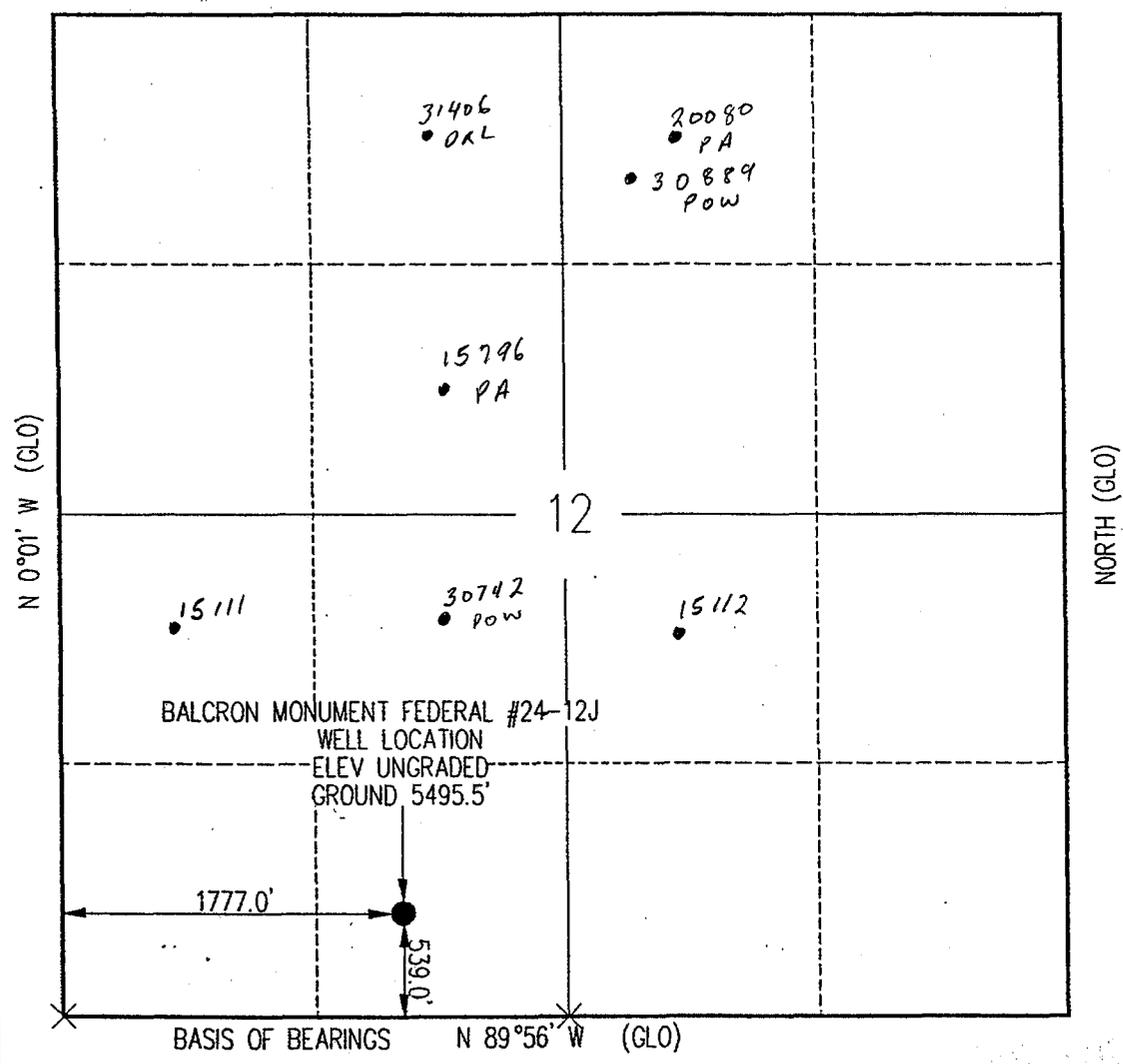
EXHIBIT "F"

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

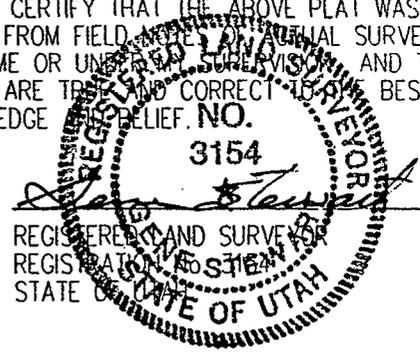
N 89°59' W (GLO)

EQUITABLE RESOURCES ENERGY CO.

WELL LOCATION, BALCRON MONUMENT FEDERAL #24-12J, LOCATED AS SHOWN IN THE SE 1/4 SW 1/4 OF SECTION 12, T9S, R16E, S.L.B. & M, DUCHESNE COUNTY UTAH.



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



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

SEP 1 1993

WEATHER: CLEAR & HOT
DATE: 8/4/93
SCALE: 1" = 1000'
SURVEYED BY: GS ZD
FILE: MF 24-12



EXHIBIT B

#	Legal Description	Lessor & Expiration	Lessee & Operating Rights	Surface Owner
1	T9S-R16E SLM Section 12: SW	USA UTU-035521A HBP	Newfield Production Company Newfield RMI LLC ABO Petroleum Corp Carl B Field Montana & Wyoming Oil CO MYCO Industries Inc OXY Y-1 Company Vaughey & Vaughey Bonnie B Warne John R Warne Yates Petroleum Corp	USA
2	T9S-R16E SLM Section 11: E2, NW, NESW Section 12: NW Section 14: N2NE, SENE, NESE	USA UTU-096550 HBP	Newfield Production Company Newfield RMI LLC ABO Petroleum Corp MYCO Industries Inc OXY Y-1 Company Yates Petroleum Corp	USA
3	T9S-R16E SLM Section 12: S2NE, SE	USA UTU -35521 HBP	Newfield Production Company Newfield RMI LLC ABO Petroleum Corp Carl B Field Montana & Wyoming Oil CO MYCO Industries Inc OXY Y-1 Company Vaughey & Vaughey Bonnie B Warne John R Warne Yates Petroleum Corp	USA

4	T9S-R16E SLM Section 13: NWNE, NENW, S2N2, S2	USA UTU-64805 HBP	Newfield Production Company Newfield RMI LLC ABO Petroleum Corp MYCO Industries Inc OXY Y-1 Company Yates Petroleum Corp	USA
5	T9S-R16E SLM Section 13: NENE, NWNW	USA UTU-75039 HBP	Newfield Production Company Newfield RMI LLC ABO Petroleum Corp MYCO Industries Inc OXY Y-1 Company Yates Petroleum Corp	USA

ATTACHMENT C

CERTIFICATION FOR SURFACE OWNER NOTIFICATION

RE: Application for Approval of Class II Injection Well
Balcron Monument Federal #24-12J-9-16

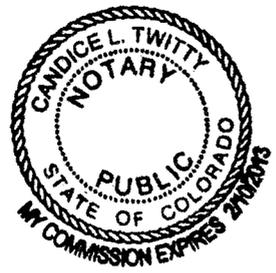
I hereby certify that a copy of the injection application has been provided to all surface owners within a one-half mile radius of the proposed injection well.

Signed: 
Newfield Production Company
Eric Sundberg
Regulatory Lead

Sworn to and subscribed before me this 14th day of June, 2012.

Notary Public in and for the State of Colorado: Candice L. Twitty

My Commission Expires: 02/10/2013



Balcron Monument Federal 24-12J-9-16

Spud Date: 11/8/93
 Put on Production: 12/30/93
 GL: 5495' KB: 5505'

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 6jts. (271.28')
 DEPTH LANDED: 279'
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 150 sxs Class "G" cmt

PRODUCTION CASING

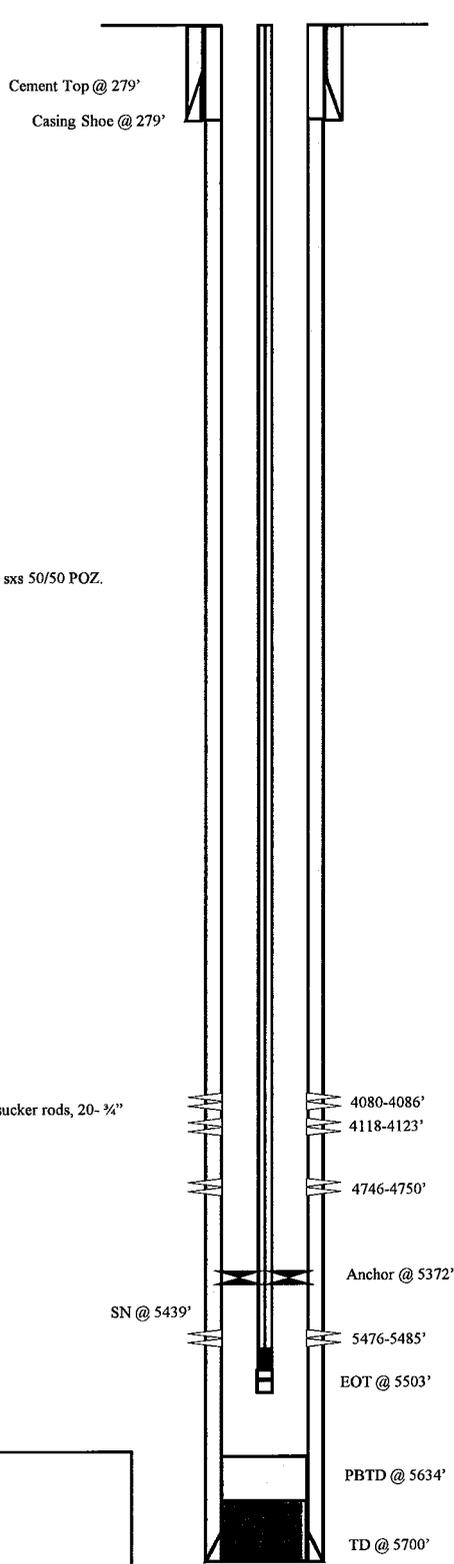
CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 129 jts. (5676.22')
 HOLE SIZE: 7-7/8"
 DEPTH LANDED: 5685.22'
 CEMENT DATA: 204 sxs Prem. Lite II mixed & 215 sxs 50/50 POZ.
 CEMENT TOP AT: 279'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 172 jts (5361')
 TUBING ANCHOR: 5371.7'
 NO. OF JOINTS: 1 jts (64.2')
 SEATING NIPPLE: 2-7/8" (1.1')
 SN LANDED AT: 5438.7' KB
 NO. OF JOINTS: 2 jts (5439.8')
 TOTAL STRING LENGTH: EOT @ 5503'

SUCKER RODS

POLISHED ROD: 1-1/4" x 22'
 SUCKER RODS: 77- 3/4" guided rods (4 per), 114- 3/4" sucker rods, 20- 3/4" guided rods (4 per), 6- 1 1/2" weight bars
 PUMP SIZE: 2 1/2 x 1 1/2 x 16' RHAC
 STROKE LENGTH: 76
 PUMP SPEED: 4.5 SPM



FRAC JOB

12/22/93 4080'-4123' Frac Frac sands as follows:
 with 33085 # 16-30 sand in
 500 bbls of YF155 2% KCl water.

12/17/93 4746'-4750' Frac Frac sands as follows:
 with 13978# 16-30 sand in 247 bbls of
 YF155 2% KCl water. Screened out
 during flush. ATR 15 BPM @ 2500 psi,
 max 3350 psi. I SI P 2450 psi, 10 min -
 1488 psi, 15 min - 1484 psi.

12/14/93 Frac Frac sands as follows:
 Screened out - no details available.

12/7/09 Parted rods. Updated rod and tubing
 details.

PERFORATION RECORD

4080'-4086'	2 JSPF	12 holes
4118'-4123'	2 JSPF	10 holes
4746'-4750'	2 JSPF	8 holes
5476'-5485'	2 JSPF	18 holes

NEWFIELD



Balcron Monument Federal 24-12J-9-16
 539' FSL & 1777' FWL
 SE/SW Section 12-T9S-R16E
 Duchesne Co, Utah
 API # 43-013-31409; Lease # U-035521-A

Monument Fed. 14-12J-9-16

Spud Date: 11/03/93
 Put on Production: 12/18/93
 Put on Injection: 10/28/94
 GL: 5487' KB: 5497'

Initial Production: 70 BOPD,
 NM MCFD, 20 BWPD

Injection Wellbore
 Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts. (271.17')
 DEPTH LANDED: 279' KB
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 150 sxs Class "G" cmt, est 4 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: K-55
 WEIGHT: 15.5#
 LENGTH: 131 jts. (5718.17')
 DEPTH LANDED: 5727.17'
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 220 sxs Lead cement & 260 sxs 50/50 POZ.
 CEMENT TOP AT: ? per CBL

TUBING

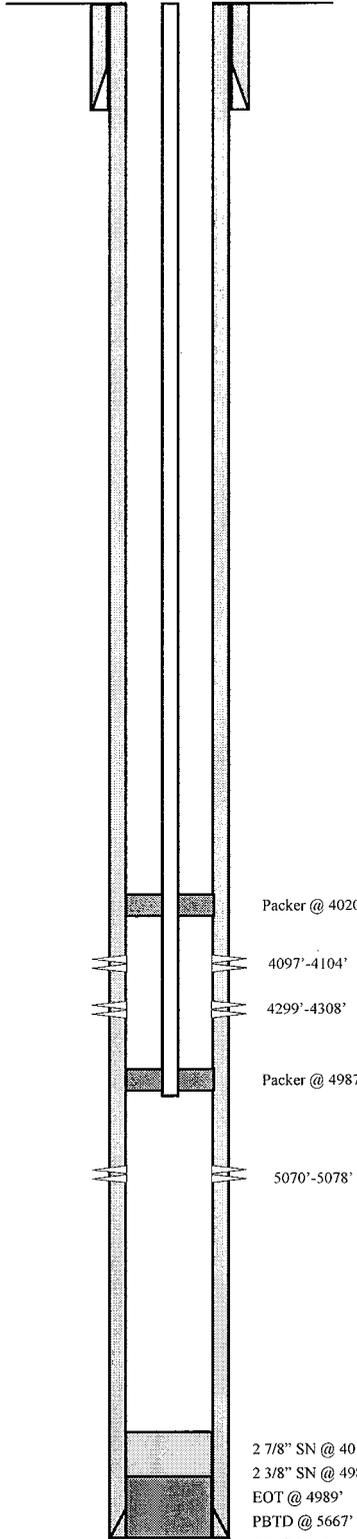
SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 129 jts (4002.65')
 SEATING NIPPLE: 2-7/8" (1.12')
 SN LANDED AT: 4013.77' KB
 2 7/8" x 2 3/8" CROSSOVER: 4014.52' KB
 PACKER: 4020.72' KB
 SIZE/GRADE/WT.: 2-3/8" / J-55 / 4.5#
 NO. OF JOINTS: 31 jts (960.38')
 PACKER: 4987.90' KB
 SEATING NIPPLE: 2-3/8" (1.10')
 SN LANDED AT: 4989.00' KB
 TOTAL STRING LENGTH: EOT @ 4989.00'

FRAC JOB

12/06/93 5070'-5078' **Frac zone as follows:**
 25,446# 20/40 sand in 286 bbls 2% KCl.
 Treated @ avg press of 2341 psi w/avg
 rate of 17.4 BPM. ISIP 3578 psi. Calc.
 flush: 5070 gal. Actual flush: 5030 gal.

12/09/93 4097'-4308' **Frac zone as follows:**
 41,300# 20/40 sand in 457 bbls 2% KCl.
 Treated @ avg press of 2527 psi w/avg
 rate of 19 BPM. ISIP 1606 psi. Calc.
 flush: 4097 gal. Actual flush: 4050 gal.

04-08-10 **SYR MIT**



PERFORATION RECORD

Date	Interval	SPF	Holes
12/06/93	5070'-5078'	2	16
12/08/93	4299'-4308'		06
12/08/93	4097'-4104'		05



Monument Fed. #14-12j-9-16
 660' FSL & 660' FWL
 SWSW Section 12-T9S-R16E
 Duchesne Co, Utah
 API #43-013-31411; Lease #U-035521-A

Monument Fed. 41-14J-9-16

Spud Date: 12/01/93
 Put on Production: 1/07/94
 Put on Injection: 10/29/93
 GL: 5529' KB: 5539'

Initial Production: 20 BOPD,
 60 MCFD, 10 BWPD

Injection Wellbore
 Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 6 jts. (271.04')
 DEPTH LANDED: 279'
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 150 sxs Class "G" cnt, est 4 bbls cnt to surf.

PRODUCTION CASING

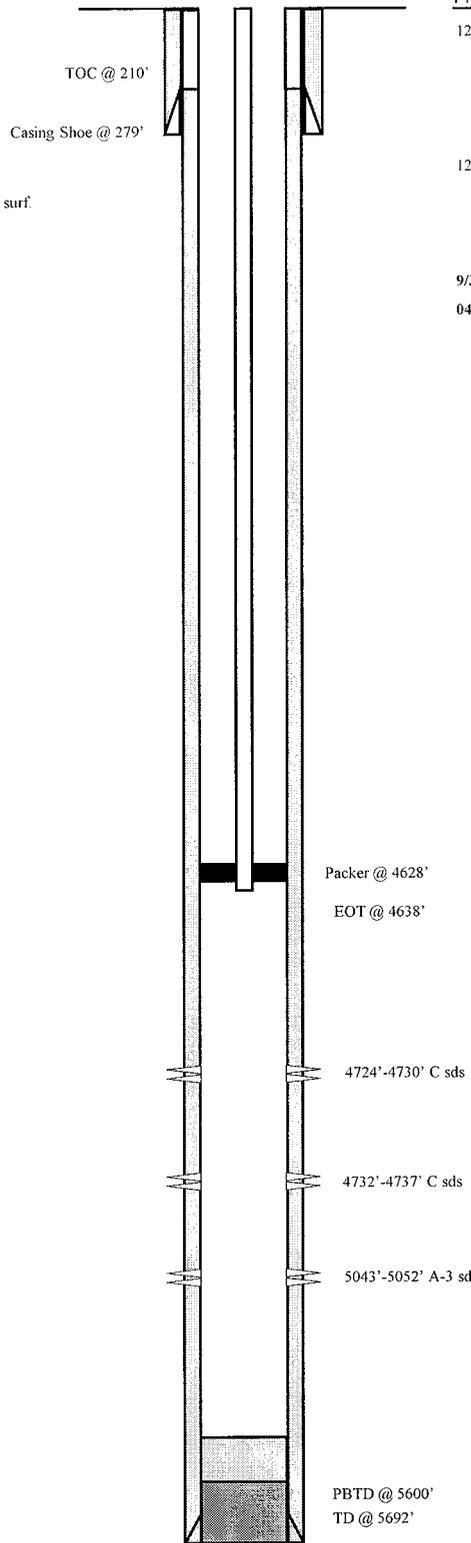
CSG SIZE: 5-1/2"
 GRADE: K-55
 WEIGHT: 15.5#
 LENGTH: 131 jts. (5637.81')
 DEPTH LANDED: 5646.81' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 225 sxs Hi-Lift & 261 sxs Class "G".
 CEMENT TOP AT: 210' per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 149 jts (4627.28')
 SEATING NIPPLE: 2-7/8" (1.10')
 SN LANDED AT: 4627.3' KB
 2 7/8" x 2 3/8" CROSS-OVER: 4628.4' KB
 PACKER: 4628.8' KB
 TOTAL STRING LENGTH: EOT @ 4638'

FRAC JOB

12/23/93	5043'-5052'	Frac sand as follows: 12,500# 20/40 sand + 6,500# 16/30 sand in 194 bbls 2% KCl fluid. Treated @ avg press of 2300 psi w/avg rate of 19 BPM. ISIP 2800 psi. Calc. flush: 5043 gal, Actual flush: 1344 gal. Screened out.
12/28/93	4724'-4737'	Frac sand as follows: 27,500# 16/30 sand in 354 bbls 2% KCl fluid. Treated @ avg press of 2100 psi w/avg rate of 19.5 BPM. ISIP 2100 psi. Calc. flush: 4724 gal, Actual flush: 4660 gal.
9/30/08		Zone Stimulation.
04-08-10		5 YR MIT



PERFORATION RECORD

Date	Interval	Tool	Holes
12/22/93	5043'-5052'	2 JSPF	18 holes
12/28/93	4732'-4737'	2 JSPF	10 holes
12/28/93	4724'-4730'	2 JSPF	12 holes



Monument Fed. #41-14J-9-16
 363' FNL & 600' FEL
 NENE Section 14-T9S-R16E
 Duchesne Co, Utah
 API #43-013-31408; Lease #U-096550

Monument Federal #22-12j-9-16

Spud Date: 7/05/94 (Re-entry)

Put on Production: 8/04/94

GL: 5503' KB: 5515'

Initial Production: 12 BOPD,
NM MCFD, 0 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 9-5/8"
GRADE:
WEIGHT: 32.30#
DEPTH LANDED: 228' KB
HOLE SIZE: 12-1/4"
CEMENT DATA: 200 sxs cement.

PRODUCTION CASING

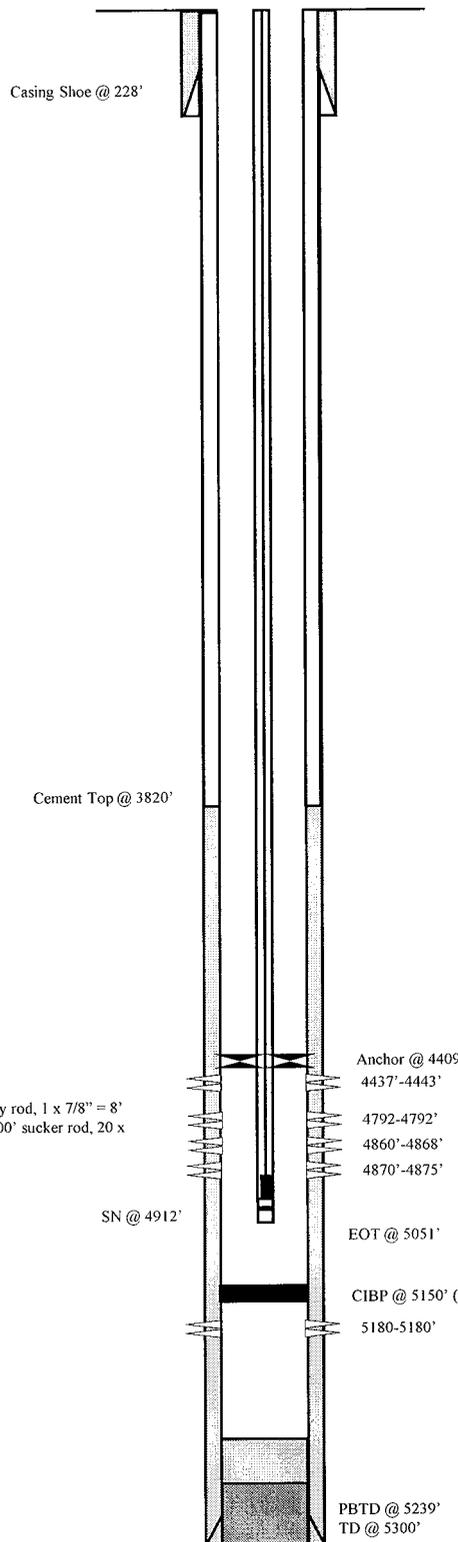
CSG SIZE: 5-1/2"
GRADE: K-55
WEIGHT: 15.5#
DEPTH LANDED: 5294' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 327 sxs cement
CEMENT TOP AT: 3820' per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 160 jts (4949.2')
TUBING ANCHOR: 4949.2' KB
NO. OF JOINTS: 1 jts (31.6')
SEATING NIPPLE: 2-7/8" (1.10')
SN LANDED AT: 4983.6' KB
NO. OF JOINTS: 1 jt (30.2')
TOTAL STRING LENGTH: EOT @ 5051' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 26' SM
SUCKER RODS: 1 x 7/8" = 2' pony rod, 1 x 7/8" = 4' pony rod, 1 x 7/8" = 8' pony rod, 98 x 7/8" = 2450' 4 per guided rod, 76 x 3/4" = 1900' sucker rod, 20 x 3/4" = 500' 4 per guided rod, 6 x 1 1/2" = 150' sinker bar.
PUMP SIZE: 2-1/2" x 1-1/2" x 21" RHAC
STROKE LENGTH: 84"
PUMP SPEED, SPM: 4 SPM



FRAC JOB

Date	Depth Range	Details
7/19/94	4792'-4875'	Frac zone as follows: 27,000# 16/30 sand in 318 bbls frac fluid. Treated @ avg press of 4600 psi w/avg rate of 17.4 BPM. ISIP 3150 psi. Calc. flush: 1213 gal. Actual flush: 1205 gal.
7/19/94	4437'-4443'	Frac zone as follows: 21,280# 16/30 sand in 148 bbls frac fluid. Treated @ avg press of 4800 psi w/avg rate of 20 BPM. ISIP not recorded. Calc. flush: 2098 gal. Actual flush: 1092 gal. Screened out w/ 4890# sand in casing.
8/28/08	5176-5192'	Frac A3 sds as follows: 24,666# 20/40 sand in 283 bbls of Lightning 17 fluid. Treated w/ ave pressure of 3548 psi @ ave rate of 13.1 BPM. ISIP 2270 psi. Actual flush: 1285 gals.
8/28/08	4790-4796'	Frac D3 & C sds as follows: 23,599# 20/40 sand in 244 bbls of Lightning 17 fluid. Treated w/ ave pressure of 4323 psi @ ave rate of 13.3 BPM. ISIP 3992 psi. Actual flush: 1189 gals.
8/5/09		Tubing Leak. Updated rod & tubing details.
7/9/2011		Parted rods. Updated rod & tubing.

PERFORATION RECORD

Date	Depth Range	Perforations
7/12/94	5180-5180	3 JSPF 3 holes
7/14/94	4870'-4875'	4 JSPF 20 holes
7/14/94	4860'-4868'	4 JSPF 32 holes
7/14/94	4792'-4792'	3 JSPF 3 holes
7/12/94	4437'-4443'	4 JSPF 24 holes



Monument Fed. #22-12j
2017' FNL & 2098' FWL
SEW Section 12-T9S-R16E
Duchesne Co, Utah
API #43-013-15796; Lease #U-096550

C & O Govt. 1-12-9-16

Spud Date: 10/12/64
 Put on Production: 12/10/64
 GL: 5456' KB: 5468'

Wellbore Diagram

SURFACE CASING

CSG SIZE: 10 3/4"
 WEIGHT 32.75#
 LENGTH: 8 jts (217')
 DEPTH LANDED: 229'
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 135 cu. ft. Ideal Type II

PRODUCTION CASING

CSG SIZE: 5-1/2" / 17# / N-80
 LENGTH: 41 jts. (1253.85')
 CSG SIZE: 5-1/2" / 15.5# / J-55
 LENGTH: 127 jts. (3927.00')
 CSG SIZE: 5-1/2" / 17# / N-80
 LENGTH: 1 jt. (20.00')
 DEPTH LANDED: 5200.00'
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 315 cu. ft. 50/50 POZ + 75 sxs 50/50 POZ
 CEMENT TOP AT: 4750' per CBL

TUBING

SIZE/GRADE/WT: 2 7/8" / J-55 / 6.5#
 NO OF JOINTS: 154 jts (4755.6')
 TUBING ANCHOR: 4767.6' KB
 NO OF JOINTS: 8 jts (250.2')
 SEATING NIPPLE: 2 7/8" (1.10')
 SN LANDED AT: 5020.6' KB
 NO OF JOINTS: 1 jts Perf sub (4')
 NO OF JOINTS: 1 jts (30.9')
 TOTAL STRING LENGTH: EOT @ 5057'

SUCKER RODS

POLISHED ROD: 1 1/4" x 16' polished rods
 SUCKER RODS: 1-2' & 1-4' x 3/4" pony rods, 93-3/4" guided rods, 65-3/4" sucker rods, 34-3/4" guided rods, 4-1 5/8" wt bars, 5 1" stabilizer rods
 PUMP SIZE: 2 1/2" x 1 1/2" x 16' RHAC
 STROKE LENGTH: 44"
 PUMP SPEED, SPM: 4 SPM
 LOGS: IES, SGR, ML, CBL

FRAC JOB

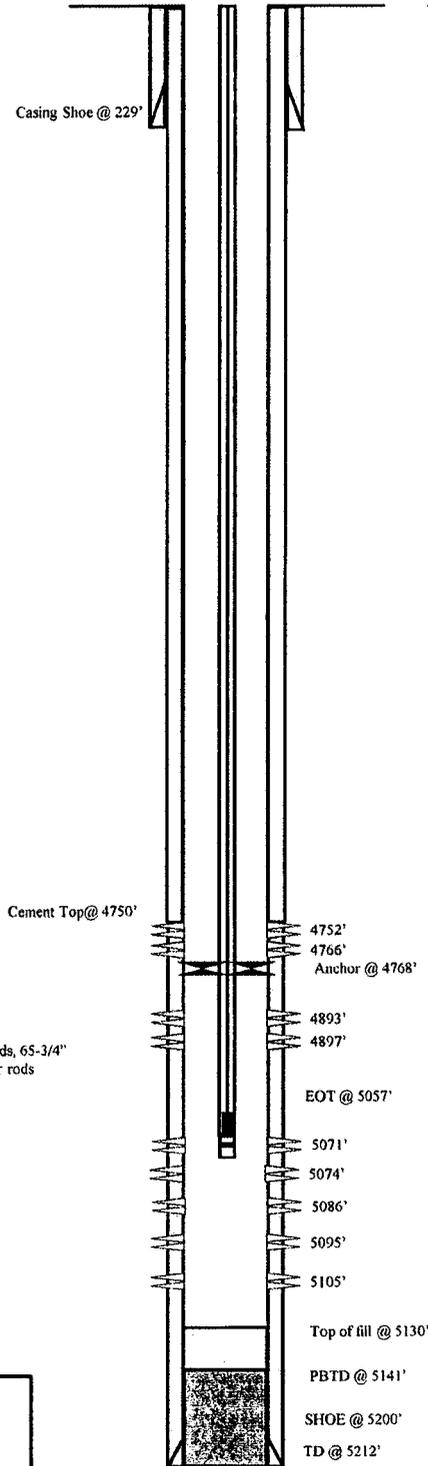
12/64 5071'-5074' **Frac zone as follows:**
 13,900# sand + 3150# glass beads in 721 bbls lease crude oil. Treated @ avg press of 3850 psi w/avg rate of 37 BPM.

12/64 4893'-4897' **Frac zone as follows:**
 13,900# sand + 1575# glass beads in 721 bbls lease crude oil. Treated @ avg press of 4000 psi w/avg rate of 29 BPM.

5/20/73 5071'-5105' **Frac zone as follows:**
 16,500# 10/20 sand in 381 bbls frac fluid. Treated @ avg press of 2300 psi w/avg rate of 6 BPM.

5/21/73 4752'-4766' **Frac zone as follows:**
 14,000# 10/20 sand in 381 bbls frac fluid. Treated @ avg press of 3500 psi w/avg rate of 16 BPM.

6/18/99 Pump change. Update rod and tubing details.
 5/13/03 Tubing leak. Update rod and tubing details.
 08/29/06 Pump Change. Update rod & Tubing details
 3/9/12 Tubing Leak. Updated rod & tubing detail.



PERFORATION RECORD

Date	Depth	SPF	Holes
12/64	5074'	4	04 holes
12/64	5071'	4	04 holes
12/64	4897'	4	04 holes
12/64	4893'	4	04 holes
05/93	5105'	3	03 holes
05/93	5095'	3	03 holes
05/93	5086'	3	03 holes
05/93	4766'	3	03 holes
05/93	4752'	3	03 holes

NEWFIELD

C&O Gov't. 1-12-9-16
 1905 FSL & 660 FWL
 NWSW Section 12-T9S-R16E
 Duchesne Co, Utah
 API #43-013-15111 Lease #U-035521 A

C&O Govt. #2-12-9-16

Spud Date: 6/15/1965
 Put on Production: 7/23/1965
 GL: 5515' KB: 5525'

Initial Production: 130 BOPD,
 NM MCFD, 15 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 271'
 DEPTH LANDED: 281'
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 176 sxs cement.

PRODUCTION CASING

CSG SIZE: 5-1/2" / 14#
 LENGTH: 0-2500'
 CSG SIZE: 5-1/2" / 15.5#
 LENGTH: 2500'-5260'
 DEPTH LANDED: 5260'
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 206 cu. ft. slurry
 CEMENT TOP AT: 4300' per CBL

TUBING

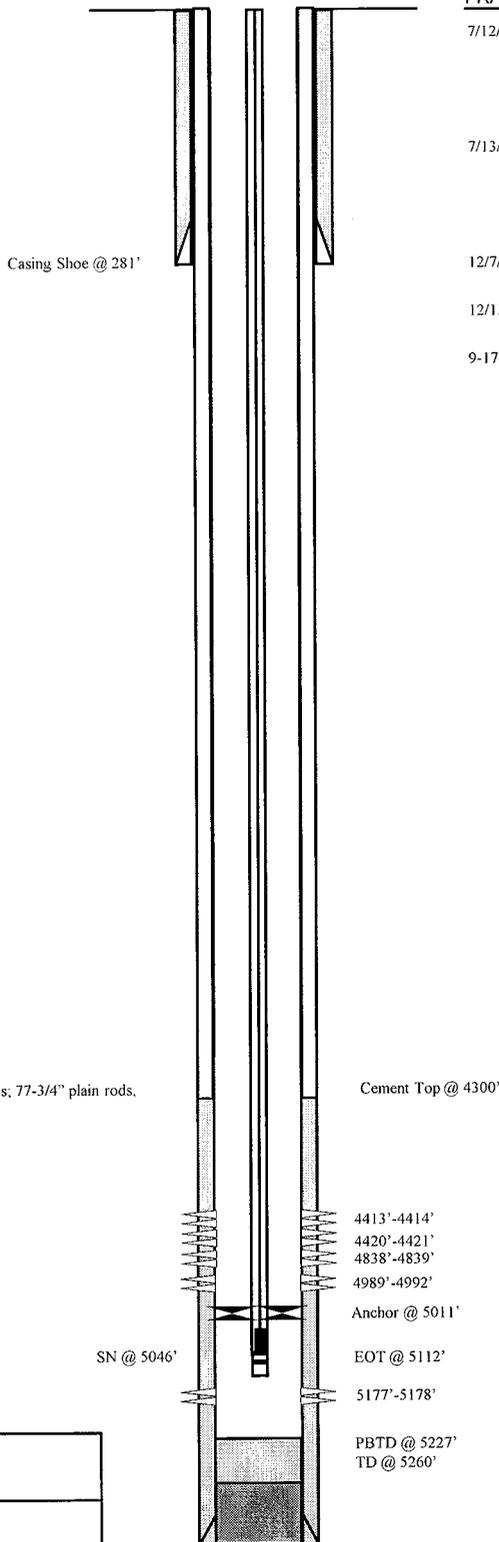
SIZE/GRADE/WT.: 2-7/8" / J-55
 NO. OF JOINTS: 161 jts (5000.62')
 TUBING ANCHOR: 5010.62'
 NO. OF JOINTS: 1 jts (32.64')
 SEATING NIPPLE: 2-7/8" (1.10')
 SN LANDED AT: 5046.06'
 NO. OF JOINTS: 2 jts (64.32')
 TOTAL STRING LENGTH: EOT @ 5111.53'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22'
 SUCKER RODS: 4-1 1/2" weight bars, 20-3/4" guided rods, 77-3/4" plain rods,
 100-3/4" guided rods, 2-4", x 3/4" pony subs.
 PUMP SIZE: 2-1/2" x 1-1/2" x 12' x 14 1/2" RHAC
 STROKE LENGTH: 56"
 PUMP SPEED, SPM: 4.5 SPM

FRAC JOB

7/12/65	4413'-5178'	Frac zone as follows: 50,000# 20/40 sand + 4000# 8/12 glass beads in 1238 bbls 2% KCl wtr. Treated @ avg press of 2650 psi w/avg rate of 48.5 BPM. ISIP 2000 psi.
7/13/84	4989'-4992'	Frac zone as follows: 55,000# 20/40 sand in 464 bbls 2% KCl wtr. Tubing burst when final stage screened out on perfs. Approx. 34,000# sand in perfs.
12/7/05		Pump change. Update rod and tubing details.
12/13/05		Pump change. Update rod and tubing details.
9-17-07		Pump change. Updated rod & tubing details.



PERFORATION RECORD

7/11/65	5177'-5178'	4 SPF	04 holes
7/11/65	4838'-4839'	4 SPF	04 holes
7/11/65	4420'-4421'	4 SPF	04 holes
7/11/65	4413'-4414'	4 SPF	04 holes
7/13/84	4989'-4992'	4 SPF	16 holes

NEWFIELD

C&O Govt. #2

1980' FSL & 2080' FEL

NWSE Section 12-T9S-R16E

Duchesne Co, Utah

API #43-013-15112; Lease #UTU-035521

C & O Govt. 4-12-9-16

Spud Date: 4/14/83
 Put on Production: 6/02/83
 Put on Injection: 10/27/94
 GL: 5450' KB: 5462'

Initial Production: 110 BOPD,
 60 MCFD, 0 BWPD

Injection Wellbore
 Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts.
 DEPTH LANDED: 292'
 HOLE SIZE: 12-1/4"
 CEMENT DATA 241 cu ft. Class "G" cement

PRODUCTION CASING

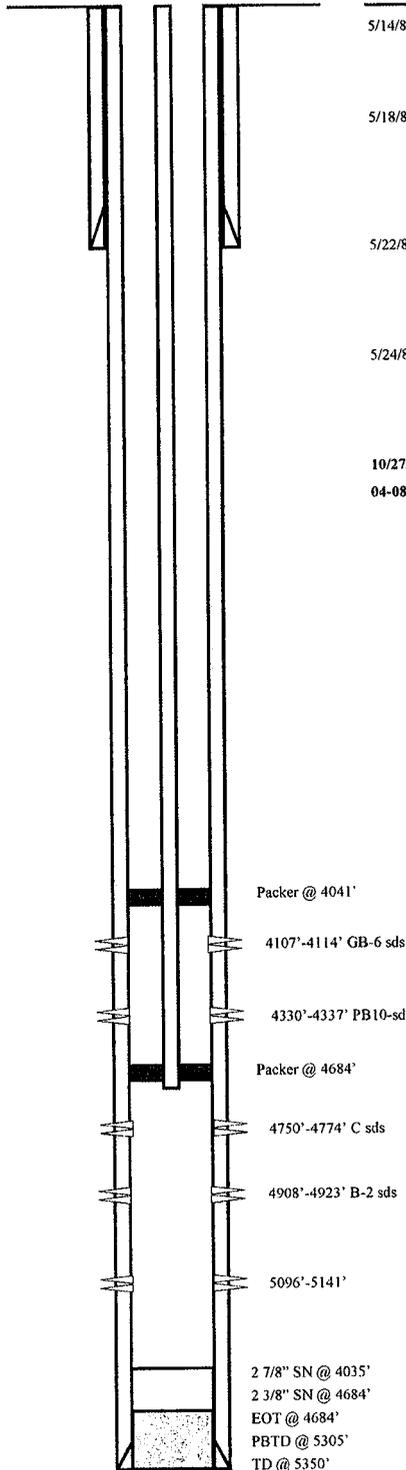
CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 135 jts.
 DEPTH LANDED: 5345'
 HOLE SIZE: 7-7/8"
 CEMENT DATA 633 cu ft. Hilit slurry + 338 cu ft. RFC slurry
 CEMENT TOP AT ? per CBL

TUBING

SIZE/GRADE/WT 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 128 jts (4021 48")
 SEATING NIPPLE: 2-7/8" (1 10")
 SN LANDED AT 4035 18' KB
 PACKER: 4041.38'
 SIZE/GRADE/WT 2-3/8" / J-55 / 4.5#
 NO. OF JOINTS: 20 jts (635.06")
 PACKER: 4683.24'
 SEATING NIPPLE 2-3/8" (1 10")
 SN LANDED AT 4684.34' KB
 TOTAL STRING LENGTH: EOT @ 4684.34'

FRAC JOB

5/14/83	5096'-5138'	Frac zone as follows: 68,000# 20/40 sand in 393 bbls frac fluid Treated @ avg press of 1625 psi w/avg rate of 20 BPM Screened out
5/18/83	4908'-4923'	Frac zone as follows: 37,000# 20/40 sand + 6,000# 10/20 sand in 568 bbls frac fluid. Treated @ avg press of 2180 psi w/avg rate of 20 BPM. Calc. flush: 4908 gal. Actual flush: 4870 gal
5/22/83	4750'-4774'	Frac zone as follows: 55,000# 20/40 sand in 672 bbls frac fluid. Treated @ avg press of 1600 psi w/avg rate of 21 BPM. Calc. flush: 4750 gal Actual flush: 4748 gal.
5/24/83	4107'-4337'	Frac zone as follows: 55,000# 20/40 sand in 526 bbls frac fluid. Treated @ avg press of 1880 psi w/avg rate of 24 BPM. Calc. flush: 4107 gal. Actual flush: 4100 gal
10/27/94		Convert to injector. Update tbg details.
04-08-10		5 Yr MIT



PERFORATION RECORD

5/13/83	5096'-5141'	18 holes
5/17/83	4908'-4923'	22 holes
5/21/83	4750'-4774'	24 holes
5/23/83	4330'-4337'	08 holes
5/23/83	4107'-4114'	08 holes

NEWFIELD

C & O Govt. 4-12-9-16
 2140' FSL & 1820' FWL
 NESW Section 12-T9S-R16E
 Duchesne Co, Utah
 API #43-013-30742; Lease #U-035521

Federal 5-13-9-16

Spud Date: 09/22/05
 Put on Production: 11/08/05
 GL: 5538' KB: 5550'

Initial Production: BOPD,
 MCFD, BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts. (301.7')
 DEPTH LANDED: 312.6' KB
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 160 sxs Class "G" cmt, est 4 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 135 jts. (5802.05')
 DEPTH LANDED: 5801.3' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.
 CEMENT TOP: 100'

TUBING

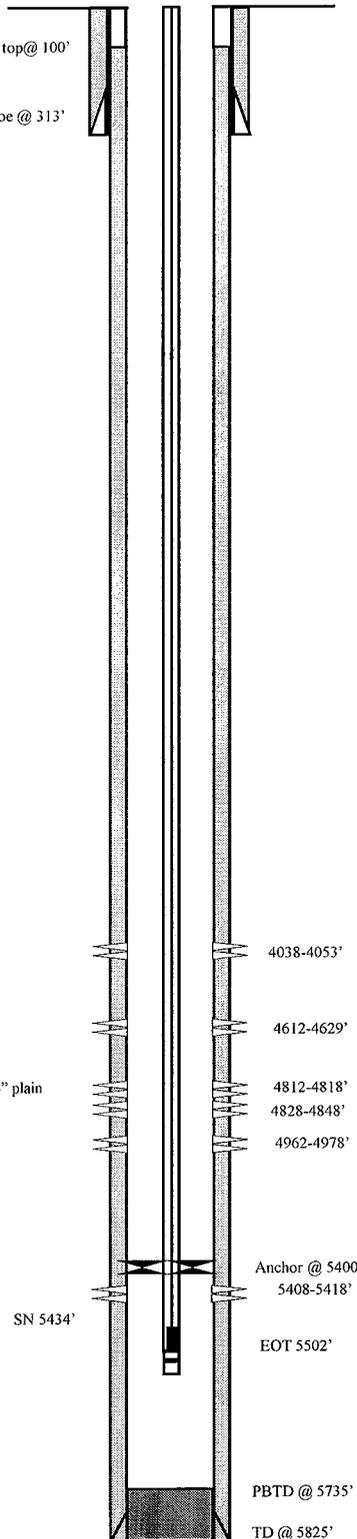
SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 166jts (5388.00')
 TUBING ANCHOR: 5400.0' KB
 NO. OF JOINTS: 1 jts (31.4')
 SEATING NIPPLE: 2-7/8" (1.10')
 SN LANDED AT: 5434.2' KB
 NO. OF JOINTS: 2 jts (65.1')
 TOTAL STRING LENGTH: EOT @ 5502' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM
 SUCKER RODS: 1-4' x 3/8" pony rod, 100-3/4" scraped rods, 100-3/4" plain rods, 10-3/4" scraped rods, 6-1" stabilizer bars, 6-1 1/2" weight rods.
 PUMP SIZE: 2-1/2" x 1-1/4" x 18 x 5' x 14" RHAC w/SM plunger
 STROKE LENGTH: 86"
 PUMP SPEED: 5 SPM:

FRAC JOB

11/01/05	5408-5418'	Frac CP1 sands as follows: 34070# 20/40 sand in 392 bbls Lightning 17 frac fluid. Treated @ avg press of 1933 psi w/avg rate of 24.7 BPM. ISIP 2200 psi. Calc flush: 5406 gal. Actual flush: 5124 gal.
11/01/05	4962-4978'	Frac A1 sands as follows: 89150# 20/40 sand in 655 bbls Lightning 17 frac fluid. Treated @ avg press of 1591 psi w/avg rate of 24.7 BPM. ISIP 2100 psi. Calc flush: 4960 gal. Actual flush: 4746 gal.
11/04/05	4812-4848'	Frac B1, B2 sands as follows: 158872# 20/40 sand in 1078 bbls Lightning 17 frac fluid. Treated @ avg press of 1550 psi w/avg rate of 24.7 BPM. ISIP 2000 psi. Calc flush: 4810 gal. Actual flush: 4582 gal.
11/02/05	4612-4629'	Frac D2 sands as follows: 29350# 20/40 sand in 344 bbls Lightning 17 frac fluid. Treated @ avg press of 1762 psi w/avg rate of 24.8 BPM. ISIP 2000 psi. Calc flush: 4610 gal. Actual flush: 4326 gal.
11/02/05	4038-4053'	Frac GB6 sands as follows: 83194# 20/40 sand in 585 bbls Lightning 17 frac fluid. Treated @ avg press of 1388 psi w/avg rate of 24.7 BPM. ISIP 1900 psi. Calc flush: 4036 gal. Actual flush: 3944 gal.
9/16/09		Pump Change. Updated rod & tubing details.
2/23/12		Tubing Leak: Updated rod & tubing detail



PERFORATION RECORD

11/01/05	5408-5418'	4 JSPF	40 holes
11/01/05	4962-4978'	4 JSPF	64 holes
11/01/05	4828-4848'	4 JSPF	80 holes
11/01/05	4812-4818'	4 JSPF	24 holes
11/02/05	4612-4629'	4 JSPF	68 holes
11/02/05	4038-4053'	4 JSPF	60 holes



Federal 5-13-9-16
 1981' FNL & 820' FWL
 SW/NW Section 13-T9S-R16E
 Duchesne Co, Utah
 API #43-013-32658; Lease #UTU-64805

Sundry Number: 30645 API Well Number: 43013326570000

Federal 6-13-9-16

Wellbore Diagram
P & A

Spud Date: 9/26/2005
Put on Production:

GL: 5514' KB: 5526'

SURFACE CASING

CSG SIZE 8-5/8"
GRADE J-55
WEIGHT 24#
LENGTH 7 jts (303.52')
DEPTH LANDED 313.52'
HOLE SIZE 12-1/4"
CEMENT DATA 160 sxs Class "G" cmt, circ. 5.5 bbls to surf

PRODUCTION CASING

CSG SIZE 5-1/2"
GRADE J-55
WEIGHT 15.5#
LENGTH 132 jts (5815.38')
DEPTH LANDED 5813.38'
HOLE SIZE 7-7/8"
CEMENT DATA 300 sxs Prem. Lite II & 450 sxs 50/50 POZ. 9 bbls to surf
CEMENT TOP AT No CBL run

TUBING

SIZE/GRADE/WT 2-7/8" / J-55 / 6.5#
NO OF JOINTS jts (')
TUBING ANCHOR
NO OF JOINTS 1 jts (')
SEATING NIPPLE 2-7/8" (1')SN LANDED AT
NO OF JOINTS jts (')
TOTAL STRING LENGTH EOT @

SUCKER RODS

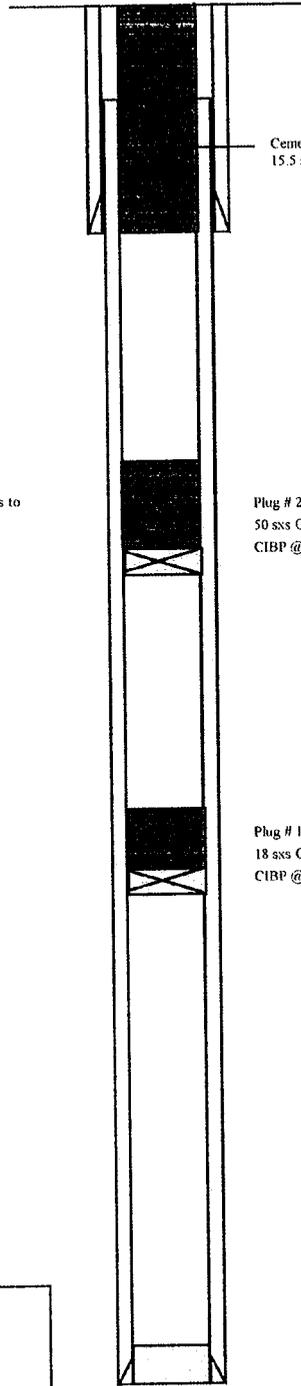
POLISHED ROD
SUCKER RODS
PUMP SIZE
STROKE LENGTH
PUMP SPEED, SPM

FRAC JOB

03-2006
09/19/12

Operations Suspended

P&A - CIBP @ 3510' TOC @ 3355', CIBP @ 1400' TOC @ 1168, 15.5 sacks Class G cement down both casings to surface Stoney Anderton w/ BLM witnessed the P&A. Weld plate, back fill hole, dig up deadmen & cut off 3' below ground level. South Slope Reclamation to do dirt work



Cement Plug 0'-314'
15.5 sxs Class G Cement

Plug # 2 - Green River TOC 1168'
50 sxs Class G Cement plug on top of CIBP
CIBP @ 1400'

Plug # 1 - Garden Gulch TOC @ 3355'
18 sxs Class G Cement plug on top of CIBP
CIBP @ 3510'

TD @ 5825'

PERFORATION RECORD

NEWFIELD

Federal 6-13-9-16
1794' FNL & 1960' FWL (SE/NW)
Section 13, T9S, R16E
Duchesne Co, Utah
API # 43-013-32657; Lease # UTU-64805

Federal #21-13Y-9-16

Spud Date: 8/13/1993
 Put on Production: 9/16/1993
 GL: 5535' KB: 5545'

Initial Production: 84 BOPD,
 126 MCFD, 7 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 6 jts. (275')
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 150 sxs Premium Plus cement, est 6 bbls cmt to surf.

Casing Shoe @ 259'

Cement Top @ 1040'

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: K-55
 WEIGHT: 15.5#
 LENGTH: 139 jts. (5945.72')
 DEPTH LANDED: 5940.72'
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 145 sxs Hilift cement & 325 sxs Class "G".
 CEMENT TOP AT: 1040' per CBL

TUBING

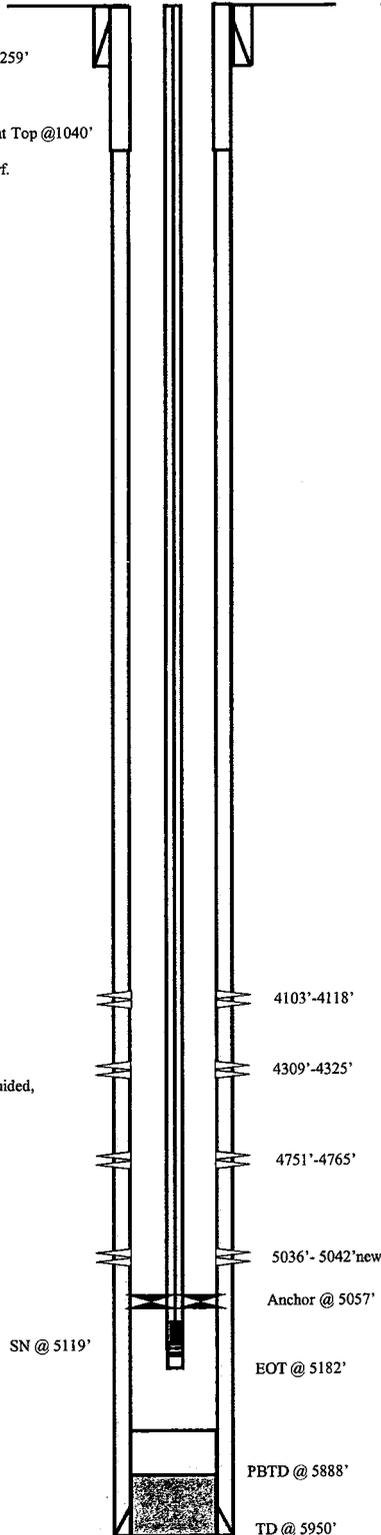
SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 163 jts (5043.8')
 TUBING ANCHOR: 5057'
 NO. OF JOINTS: 2 jt (62.9')
 SEATING NIPPLE: 5119.4'
 NO. OF JOINTS: 2 jt (61.5')
 TOTAL STRING LENGTH: EOT @ 5182' KB

SUCKER RODS

POLISHED ROD: 1-1/4" x 26' SM
 SUCKER RODS: 6-1 1/2" sinker bars; 98-3/4" guided rods; 100-3/4" guided,
 1-2' x 7/8" pony rods.
 PUMP SIZE: 2-1/2" x 1-1/2" x 20' RHAC
 STROKE LENGTH: 64"
 PUMP SPEED, SPM: 4 SPM
 LOGS: DIGL/SP/GR/CAL

FRAC JOB

8/28/93	4751'-4765'	Frac as follows: 20,140# 20/40 sand & 15,380# 16/30 sand in 371 bbls gelled KCL frac fluid. Treated @ avg press of 1900 psi w/avg rate of 20 BPM. ISIP 1850 psi.
9/1/93	4309'-4325'	Frac as follows: 33,600# 16/30 sand in 377 bbls gelled KCL frac fluid. Treated @ avg press of 2050 psi w/avg. rate of 24.5 BPM. ISIP 1800 psi.
2/14/01		Tubing job. Update Rod and tubing details.
11/17/05	4103-4118	Frac GB6 sds as follows: 55,211# 20/40 sand in 439 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 1870 w/ ave rate of 25.2 bpm w/ 8 ppg of sand. ISIP was 2150. Actual flush: 4032 gals
08/29/08		Recompletion. Rod & Tubing detail updated.
9/3/08	5036-5042	Frac A1 sds as follows: 16,591# 20/40 sand in 238 bbls of Lightning 17 fluid. Treated w/ ave pressure of 3442 psi @ ave rate of 13.1BPM. ISIP 1962 psi. Actual flush: 1218 gals.
07/25/10		Tubing Leak. Rod & Tubing detail updated.



PERFORATION RECORD

8/26/93	4751'-4765'	2 JSPF	28 holes
8/31/93	4309'-4325'	2 JSPF	32 holes
11/17/05	4103-4118'	40 JSPF	60 holes
9/3/08	5036-5042'	4 JSPF	24 holes new



Federal #21-13Y-9-16
 702' FNL & 1830' FWL
 NENW Section 13-T9S-R16E
 Duchesne Co, Utah
 API #43-013-31400; Lease #UTU-64805

Federal 2-13-9-16

Spud Date: 10-13-05
 Put on Production: 11-30-05
 GL: 5472' KB: 5484'

Initial Production: BOPD.
 MCFD, BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts (301.06')
 DEPTH LANDED: 312.91' KB
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 160 sxs Class "G" cmt. est 7 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 139 jts. (5815.48')
 DEPTH LANDED: 5828.73' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 350 sxs Prem. Lite II mixed & 475 sxs 50/50 POZ.
 CEMENT TOP AT: 60'

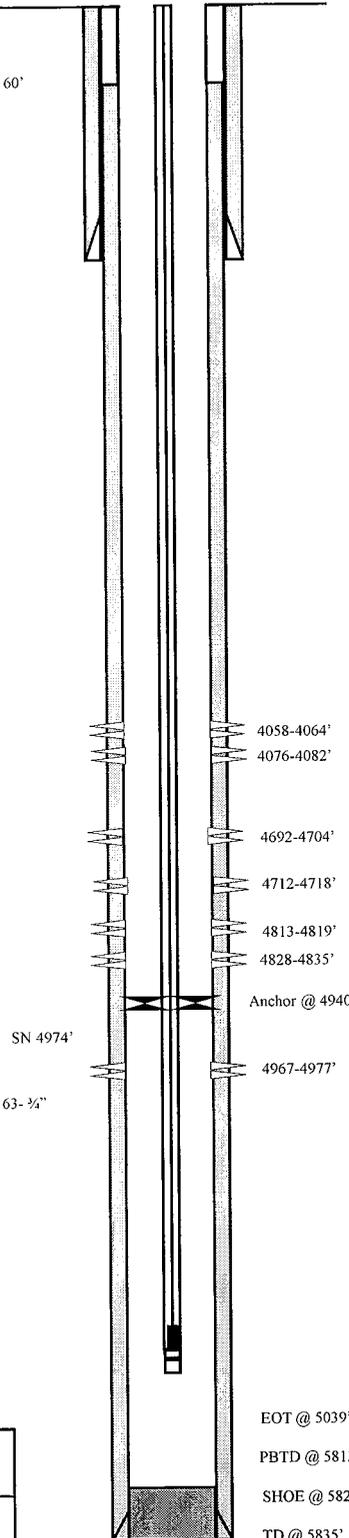
TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55
 NO. OF JOINTS: 155 jts (4930.08')
 TUBING ANCHOR: 4940.08'
 NO. OF JOINTS: 1 jts (31.54')
 SEATING NIPPLE: 2-7/8" (1.10')
 SN LANDED AT: 4974.42'
 NO. OF JOINTS: 2 jts (62.53')
 TOTAL STRING LENGTH: EOT @ 5038.50'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM
 SUCKER RODS: 1-6' & 1-2' X 3/4" pony rods, 99- 3/4" scraped rods, 63- 3/4" plain rods, 30- 3/4" scraped rods, 6-1 1/2" weight rods.
 PUMP SIZE: 2-1/2" x 1-1/2" x 14 1/2" RHAC w/SM plunger
 STROKE LENGTH: 86"
 PUMP SPEED, SPM: 5 SPM

Cement top @ 60'



FRAC JOB

Date	Well ID	Fracture Job Description
11-21-05	4967-4977'	Frac A1 sands as follows: 24275# 20/40 sand in 313 bbls Lightning 17 frac fluid. Treated @ avg press of 1933 psi w/avg rate of 24.7 BPM. ISIP 2000 psi. Calc flush: 4965 gal. Actual flush: 4691 gal.
11-21-05	4813-4835'	Frac B1 sands as follows: 59177# 20/40 sand in 474 bbls Lightning 17 frac fluid. Treated @ avg press of 1679 psi w/avg rate of 24.7 BPM. ISIP 2250 psi. Calc flush: 4811 gal. Actual flush: 4599 gal.
11-22-05	4692-4718'	Frac C sands as follows: 59763# 20/40 sand in 470 bbls Lightning 17 frac fluid. Treated @ avg press of 1550 psi w/avg rate of 24.7 BPM. ISIP 2000 psi. Calc flush: 4690 gal. Actual flush: 4032 gal.
11-22-05	4058-4082'	Frac GB6 sands as follows: 31561# 20/40 sand in 335 bbls Lightning 17 frac fluid. Treated @ avg press of 1827 w/ avg rate of 24.7 BPM. ISIP 1800 psi. Calc flush: 4056 gal. Actual flush: 3948 gal.
11-30-07		Tubing Leak. Updated rod & tubing details.

PERFORATION RECORD

Date	Well ID	Perforation Type	Holes
11-14-05	4967-4977'	4 JSPF	40 holes
11-21-05	4828-4835'	4 JSPF	28 holes
11-21-05	4813-4819'	4 JSPF	24 holes
11-22-05	4712-4718'	4 JSPF	24 holes
11-22-05	4692-4704'	4 JSPF	48 holes
11-22-05	4076-4082'	4 JSPF	24 holes
11-22-05	4058-4064'	4 JSPF	24 holes

NEWFIELD

Federal 2-13-9-16

626' FNL & 1847' FEL

NW/NE Section 13-T9S-R16E

Duchesne Co, Utah

API #43-013-32659; Lease #UTU-64805

Jonah Federal T-11-9-16

Spud Date: 09/25/2009
 Put on Production: 11/02/2009
 GL: 5503' KB: 5515'

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts. (307.66')
 DEPTH LANDED: 319.51'
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 160 sxs Class "G" cmt

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 135 jts (6014.88') Includes Shoe Jt (20.0')
 HOLE SIZE: 7-7/8"
 DEPTH LANDED: 6028.13'
 CEMENT DATA: 250 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.
 CEMENT TOP AT: 62'

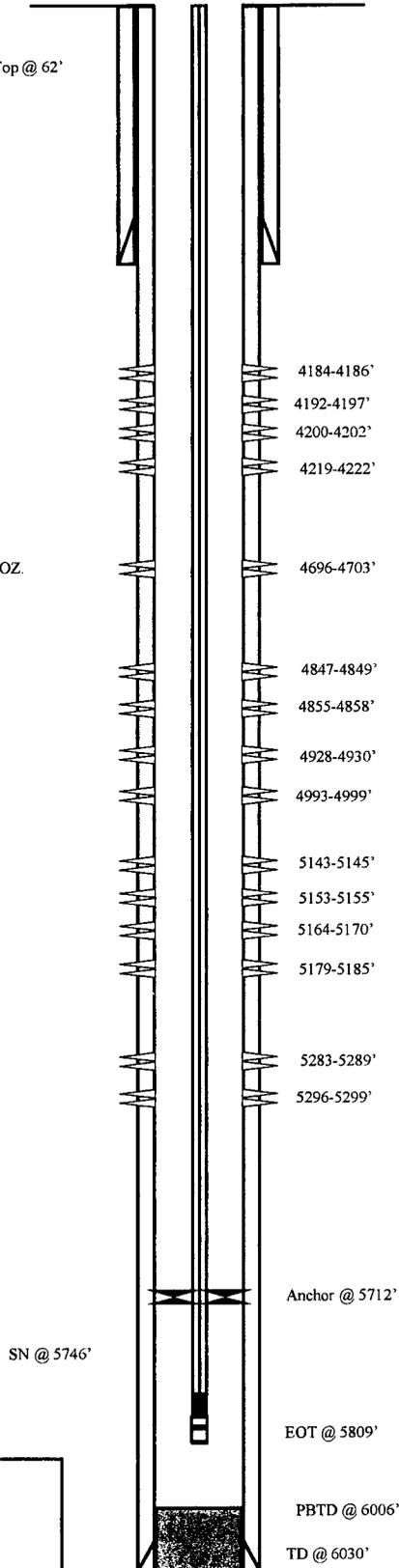
TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 179 jts (5700')
 TUBING ANCHOR: 5712'
 NO. OF JOINTS: 1 jts (31.5')
 SEATING NIPPLE: 2-7/8" (1.1')
 SN LANDED AT: 5746.3' KB
 NO. OF JOINTS: 2 jts (61.5')
 TOTAL STRING LENGTH: EOT @ 5809'

SUCKER RODS

POLISHED ROD: 1-1/2" x 30'
 SUCKER RODS: 1 - 2' x 7/8", 1 - 8' x 7/8" pony rods, 207 - 7/8"
 8per guided rods, 4 - 1 1/2" weight bars
 PUMP SIZE: 2 1/2 x 1 1/4 x 17' x 24' RHAC
 STROKE LENGTH: 144
 PUMP SPEED: SPM 6

Cement Top @ 62'



FRAC JOB

- 11-03-09 5283-5299' **Frac LODC sands as follows:**
Frac with 16631# 20/40 sand in 106 bbls Lightning 17 fluid.
- 11-03-09 5143-5185' **Frac A1 & A3 sands as follows:**
Frac with 90329# 20/40 sand in 544 bbls Lightning 17 fluid.
- 11-03-09 4847-4999' **Frac B2, C & B.5 sands as follows:**
Frac with 60136# 20/40 sand in 370 bbls Lightning 17 fluid.
- 11-03-09 4696-4703' **Frac D1 sands as follows:** Frac with 14128# 20/40 sand in 124 bbls Lightning 17 fluid.
- 11-03-09 4184-4222' **Frac GB6 sands as follows:** Frac with 27979# 20/40 sand in 223 bbls Lightning 17 fluid.

- 4184-4186'
- 4192-4197'
- 4200-4202'
- 4219-4222'
- 4696-4703'
- 4847-4849'
- 4855-4858'
- 4928-4930'
- 4993-4999'
- 5143-5145'
- 5153-5155'
- 5164-5170'
- 5179-5185'
- 5283-5289'
- 5296-5299'
- Anchor @ 5712'
- SN @ 5746'
- EOT @ 5809'
- PBTD @ 6006'
- TD @ 6030'

PERFORATION RECORD

5296-5299'	3 JSPF	holes
5283-5289'	3 JSPF	holes
5179-5185'	3 JSPF	holes
5164-5170'	3 JSPF	holes
5153-5155'	3 JSPF	holes
5143-5145'	3 JSPF	holes
4993-4999'	3 JSPF	holes
4928-4930'	3 JSPF	holes
4855-4858'	3 JSPF	holes
4847-4849'	3 JSPF	holes
4696-4703'	3 JSPF	holes
4219-4222'	3 JSPF	holes
4200-4202'	3 JSPF	holes
4192-4197'	3 JSPF	holes
4184-4186'	3 JSPF	holes

NEWFIELD



Jonah Federal T-11-9-16

709' FSL & 725' FEL

Section 11, T9S, R16E

Duchesne Co, Utah

API # 43-013-34080; Lease # UTU-096550

Spud Date: 9/2/03
 Put on Production: 7/22/04
 GL: 5423' KB: 5435'

Jonah Federal 16-12-9-16

Injection Wellbore Diagram

SURFACE CASING

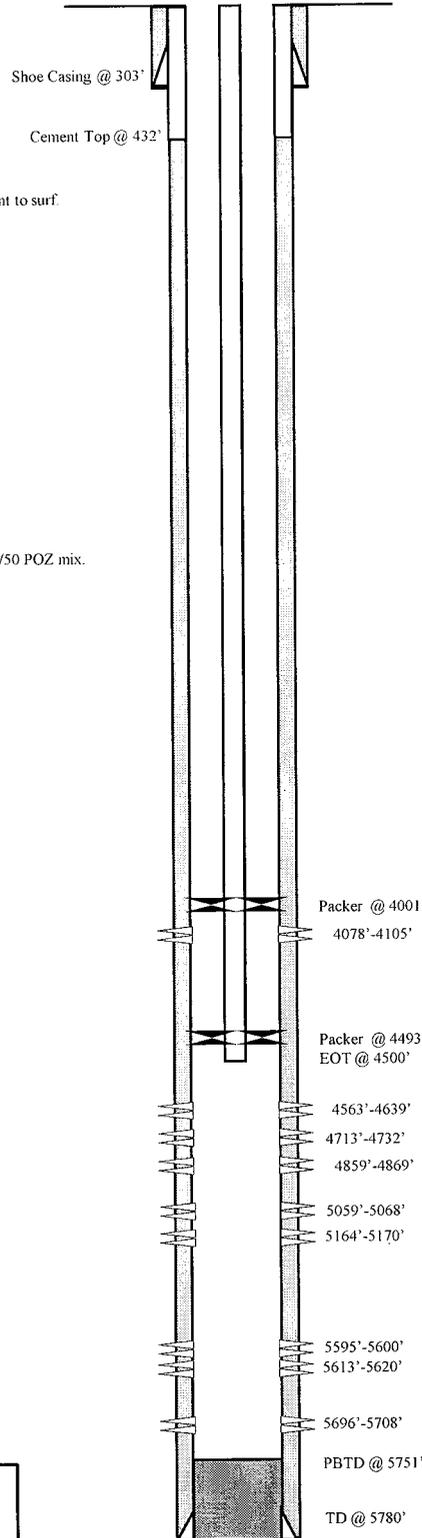
CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts. (293.13')
 DEPTH LANDED: 303 13' KB
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 150sxs Class "G" cmt mixed, est 4 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 136 jts. (5777.44')
 DEPTH LANDED: 5775.44' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ mix.
 CEMENT TOP AT: 432'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS including Tubing Pup: 126 jts (3983.9')
 CE @ 4001'
 NO. OF JOINTS: 15 jts (487.7')
 XO: 2-7/8" x 2-3/8" / N-80 / 6.5#
 SEATING NIPPLE: 2-3/8" N-80 (1.10')
 SN LANDED AT: 4492.9' KB
 XO: 2-7/8" x 2-3/8" / N-80 / 6.5#
 STINGER w/ 4"x1' SEAL: @ 4494.6'
 CE @ 4493.5'
 TOTAL STRING LENGTH: EOT @ 4500' W/12' KB



FRAC JOB

7/15/04	5595'-5708'	Frac CP sands as follows: 60,657# 20/40 sand in 489 bbls lightning Frac 17 fluid. Treated @ avg press of 1500 psi w/avg rate of 24.7 BPM. ISIP 1800 psi. Calc flush: 5593 gal. Actual flush: 5590 gal.
7/16/04	5164'-5170'	Frac LODC sands as follows: 24,253# 20/40 sand in 259 bbls lightning Frac 17 fluid. Treated @ avg press of 2680 psi w/avg rate of 24.6 BPM. Screened out.
7/19/04	5059'-5068'	Frac A3 sands as follows: 49,173# 20/40 sand in 419 bbls lightning Frac 17 fluid. Treated @ avg press of 1790 psi w/avg rate of 24.7 BPM. ISIP 2050 psi. Calc flush: 5057 gal. Actual flush: 5057 gal.
7/19/04	4859'-4869'	Frac B2 sands as follows: 59,382# 20/40 sand in 469 bbls lightning Frac 17 fluid. Treated @ avg press of 2122 psi w/avg rate of 24.7 BPM. ISIP 2570 psi. Calc flush: 4857 gal. Actual flush: 4855 gal.
7/19/04	4713'-4732'	Frac C sands as follows: 60,016# 20/40 sand in 458 bbls lightning Frac 17 fluid. Treated @ avg press of 1894 psi w/avg rate of 24.7 BPM. ISIP 2220 psi. Calc flush: 4711 gal. Actual flush: 4757 gal.
7/19/04	4563'-4639'	Frac D sands as follows: 89,343# 20/40 sand in 651 bbls lightning Frac 17 fluid. Treated @ avg press of 1813 psi w/avg rate of 24.7 BPM. ISIP 2075 psi. Calc flush: 4561 gal. Actual flush: 4561 gal.
7/19/04	4078'-4105'	Frac GB6 sands as follows: 80,167# 20/40 sand in 566 bbls lightning Frac 17 fluid. Treated @ avg press of 1532 psi w/avg rate of 24.7 BPM. ISIP 1950 psi. Calc flush: 4077 gal. Actual flush: 3990 gal.
05/10/11		Convert to Injection well
05/18/11		Conversion MIT Finalized - updated tbg detail

PERFORATION RECORD

7/13/04	5696'-5708'	4 JSPF	48 holes
7/13/04	5613'-5620'	4 JSPF	28 holes
7/13/04	5595'-5600'	4 JSPF	20 holes
7/15/04	5164'-5170'	4 JSPF	24 holes
7/19/04	5059'-5068'	4 JSPF	36 holes
7/19/04	4859'-4869'	4 JSPF	40 holes
7/19/04	4713'-4732'	4 JSPF	76 holes
7/19/04	4635'-4639'	4 JSPF	16 holes
7/19/04	4612'-4617'	4 JSPF	20 holes
7/19/04	4563'-4573'	4 JSPF	40 holes
7/19/04	4099'-4105'	4 JSPF	24 holes
7/19/04	4078'-4096'	4 JSPF	72 holes



Jonah Federal 16-12-9-16
 858' FSL & 859' FEL
 SE/SE Section 12-T9S-R16E
 Duchesne Co, Utah
 API #43-013-32431; Lease #UTU-035521

Jonah Federal 15-12-9-16

Spud Date: 10-08-05
 Put on Production: 11-11-05
 GL: 5499' KB: 5511'

Initial Production: BOPD,
 MCFD, BWPD

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts (296.84')
 DEPTH LANDED: 308.69' KB
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 160 sxs Class "G" cmt, est 6.5 bbls cmt to surf.

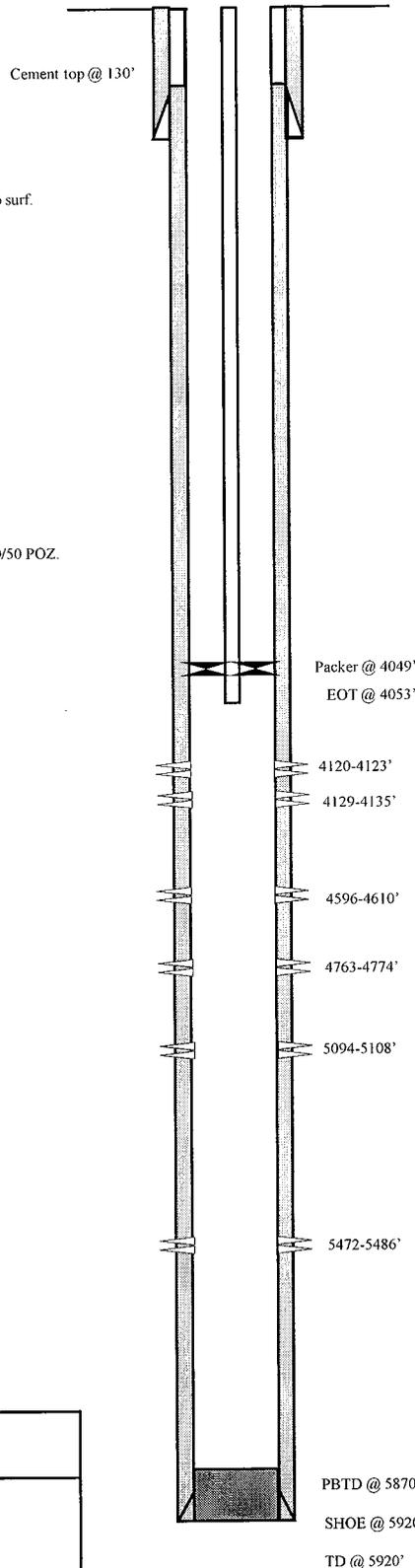
PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 136 jts. (5906.75')
 DEPTH LANDED: 5920' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 350 sxs Prem. Lite II mixed & 475 sxs 50/50 POZ.
 CEMENT TOP AT: 130'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 121 jts (4032.45')
 SEATING NIPPLE: 2-7/8" (1.10')
 SN LANDED AT: 4044.45' KB
 TOTAL STRING LENGTH: EOT @ 4053.00' KB

Injection Wellbore Diagram



FRAC JOB

11-07-05	5472-5486'	Frac CP1, sands as follows: 59446# 20/40 sand in 585 bbls Lightning 17 frac fluid. Treated @ avg press of 1739 psi w/avg rate of 24.9 BPM. ISIP 1970 psi. Calc flush: 5470 gal. Actual flush: 5048 gal.
11-07-05	5094-5108'	Frac A3, sands as follows: 80231# 20/40 sand in 602 bbls Lightning 17 frac fluid. Treated @ avg press of 1586 psi w/avg rate of 24.8 BPM. ISIP 1990 psi. Calc flush: 5092 gal. Actual flush: 4704 gal.
11-07-05	4763-4774'	Frac C sands as follows: 29525# 20/40 sand in 350 bbls Lightning 17 frac fluid. Treated @ avg press of 1861 psi w/avg rate of 24.7 BPM. ISIP 2080 psi. Calc flush: 4761 gal. Actual flush: 4473 gal.
11-08-05	4596-4610'	Frac D1 sands as follows: 80686# 20/40 sand in 590 bbls Lightning 17 frac fluid. Treated @ avg press of 1924 w/ avg rate of 25 BPM. ISIP 2220 psi. Calc flush: 4594 gal. Actual flush: 3990 gal.
11-08-05	4120-4135'	Frac GB6 sands as follows: 31631# 20/40 sand in 341 bbls Lightning 17 frac fluid. Treated @ avg press of 1738 w/ avg rate of 24.9 BPM. ISIP 2030 psi. Calc flush: 4118 gal. Actual flush: 4032 gal.
5/1/07		Well converted to an Injection well. MIT completed and submitted.

PERFORATION RECORD

11-02-05	5472-5486'	4 JSPF	56 holes
11-07-05	5094-5108'	4 JSPF	56 holes
11-07-05	4763-4774'	4 JSPF	44 holes
11-08-05	4596-4610'	4 JSPF	56 holes
11-08-05	4129-4135'	4 JSPF	24 holes
11-08-05	4120-4123'	4 JSPF	12 holes



Jonah Federal 15-12-9-16
 427' FSL & 2355' FEL
 SW/SE Section 12-T9S-R16E
 Duchesne Co, Utah
 API #43-013-32627; Lease #UTU-35521

Jonah O-12-9-16

Spud Date: 12-2-10
 Put on Production: 1-8-11
 GL: 5548' KB: 5560'

Wellbore Diagram

FRAC JOB

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7jts. (301.18')
 DEPTH LANDED: 313.03'
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 160sxs Class "G" cmt

PRODUCTION CASING

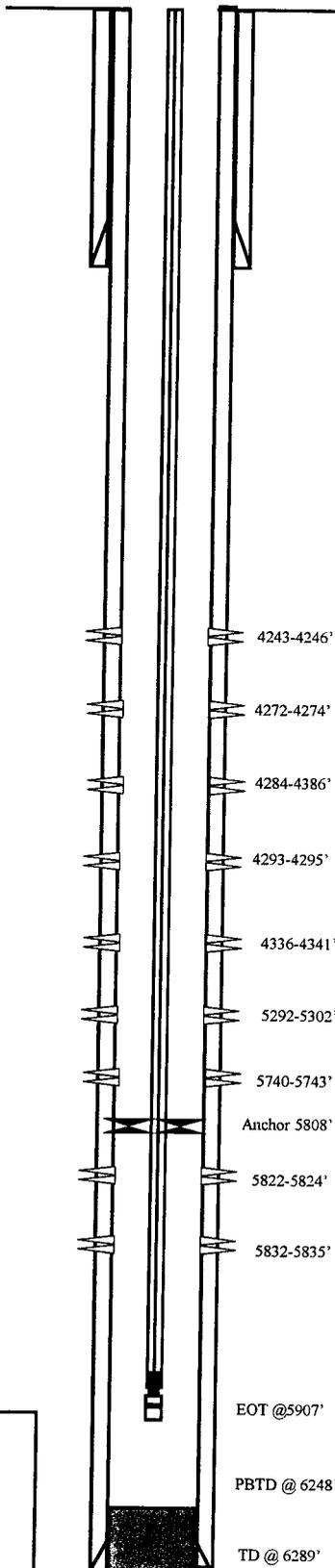
CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 148jts. (6278.0') Includes Shoe Jt. (41.63')
 HOLE SIZE: 7-7/8"
 DEPTH LANDED: 6291.25'
 CEMENT DATA: 300sxs Prem. Lite II mixed & 400sxs 50/50 POZ
 CEMENT TOP AT: 200'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 185jts (5796.0')
 TUBING ANCHOR: 5808.0'
 NO. OF JOINTS: 1 jts (31.4')
 SEATING NIPPLE: 2-7/8" (1.1')
 SN LANDED: 5842.2' KB
 NO. OF JOINTS: 2jts (62.8')
 TOTAL STRING LENGTH: EOT @5907'

SUCKER RODS

POLISHED ROD: 1-1/2" x 30'
 SUCKER RODS: 1-2 x 7/8" pony rods, 1-4 x 7/8" pony rods, 1-8 x 7/8" pony rods, 1-8 x 7/8" pony rods, 227-x 7/8" 8 per guided rods, 4- 1 1/2" weight bars
 PUMP SIZE: 2 1/2 x 1 1/4" x 20" x 24" RHAC
 STROKE LENGTH: 144
 PUMP SPEED: SPM 5



12-29-10 5740-5835' Frac CP2 & CP3 sands as follows: Frac with 39638# 20/40 sand in 274bbbs Lightning 17 fluid
 1-4-11 5292-5302' Frac A3 sands as follows: Frac with 30535# 20/40 sand in 267bbbs Lightning 17 fluid.
 1-4-11 4243-4341' Frac GB6, GB4 & PB7 sands as follows: Frac with 60639# 20/40 sand in 521bbbs Lightning 17 fluid.

PERFORATION RECORD

5832-5835'	3 JSPF	9holes
5822-5824'	3 JSPF	6holes
5740-5743'	3 JSPF	9holes
5292-5302'	3 JSPF	30holes
4336-4341'	3 JSPF	15holes
4293-4295'	3 JSPF	6holes
4284-4286'	3 JSPF	6holes
4272-4274'	3 JSPF	6holes
4243-4246'	3 JSPF	9holes

NEWFIELD

Jonah O-12-9-16
 SL: 1965' FNL & 645' FWL (SW/NW)
 Section 12, T9S, R16
 Duchesne Co, Utah
 API # 43-013-34142; Lease # USA UTU-096550

Jonah #S-12-9-16

Spud Date: 10/15/08
 Put on Production: 11/21/08
 GL: 5426' KB: 5438'

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24 #
 LENGTH: 7 jts (316.09')
 DEPTH LANDED: 326.09'
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 160 sx class 'g' cmt

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 155 (6078')
 DEPTH LANDED: 6076'
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 350 sx premlite and 475 sx 50/50 poz
 CEMENT TOP AT: 54'

TUBING

SIZE/GRADE/WT.: 6.5#, J-55
 NO. OF JOINTS: 159 jts (4911.15')
 TUBING ANCHOR: 4923.15'
 NO. OF JOINTS: 1jts (31.00')
 SN LANDED AT: 4956.95'
 NO. OF JOINTS: 2 jts (62.27')
 TOTAL STRING LENGTH: EOT @ 5020.72'

SUCKER RODS

POLISHED ROD: 1 1/2" x 26'
 SUCKER RODS: 1-8, 1-6', 1-4', 2-2 x 7/8" ponys, 193-7/8" guided rods (8 per), 4-1 1/2" wt bars, 21,000# shear coupling
 PUMP SIZE: 2 1/2" x 1 3/4" x 20" RHAC 'CDI'
 STROKE LENGTH: 122"
 PUMP SPEED, SPM: 5

FRAC JOB

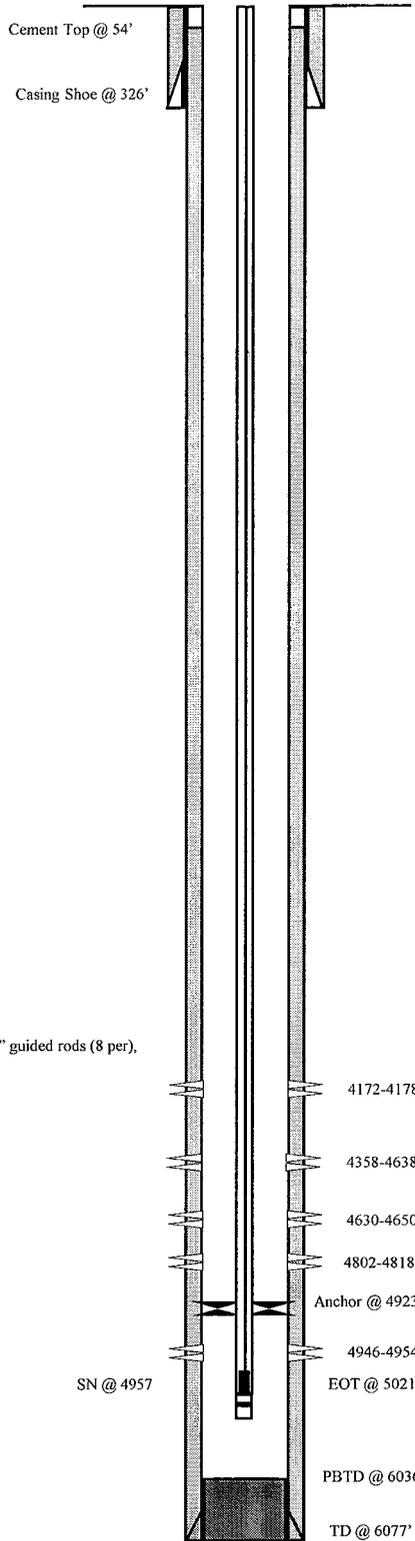
11/17/08 4946-4954' Frac B2 sds as follows:
 34,213# 20/40 sand in 375 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2150 psi @ ave rate of 23.2 BPM. ISIP 2275 psi. Actual flush: 4439 gals.

11/17/08 4802-4818' Frac C sds as follows:
 55,806# 20/40 sand in 485 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2218 psi w/ ave rate of 18.7 BPM. ISIP 2534 psi. Actual flush: 4297 gals.

11/17/08 4630-4650' Frac D1 sds as follows:
 51,261# 20/40 sand in 447 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2082 psi w/ ave rate of 18.7 BPM. ISIP 2237 psi. Actual flush: 4124 gals.

11/18/08 4358-4638' Frac PB10 sds as follows:
 40,513# 20/40 sand in bbls of Lightning 17 fluid. Treated w/ ave pressure of 2099 psi @ ave rate of 23.2 BPM. ISIP 2322 psi. Actual flush: 3851 gals.

11/18/08 4172-4178' Frac GB6 sds as follows:
 30,097# 20/40 sand in 359 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2167 psi w/ ave rate of 23.3 BPM. ISIP 2028 psi. Actual flush: 4116 gals.



PERFORATION RECORD

11/17/08	4946-4954'	32 holes
11/17/08	4802-4818'	64 holes
11/17/08	4630-4650'	80 holes
11/18/08	4358-4638'	40 holes
11/18/08	4172-4178'	24 holes



Jonah #S-12-9-16
 880' FSL & 842' FEL
 SESE Section 12-T9S-R16E
 Duchesne Co, Utah
 API #43-013-34010; Lease #UTU-035521

Jonah M-12-9-16

Spud Date:-3-20-10
 Put on Production: 4-28-10
 GL:5455 ' KB:5467 '

Wellbore Diagram

FRAC JOB

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts. (307.64')
 DEPTH LANDED: 320.49'
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 160 sxs Class "G" cmt

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 141jts. (6145.8') Includes Shoe Jt. (43.85')
 HOLE SIZE: 7-7/8"
 DEPTH LANDED: 6160.80'
 CEMENT DATA: 275sxs Prem. Lite II mixed & 400 sxs 50/50 POZ
 CEMENT TOP AT: 90'

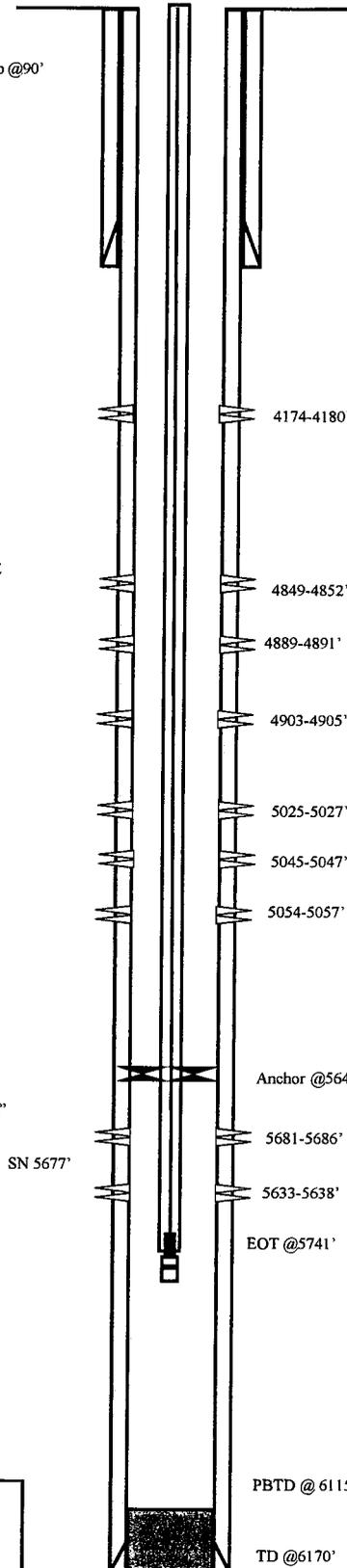
TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
 NO OF JOINTS: 182jts (5629.4')
 TUBING ANCHOR: 5642.4 '
 NO OF JOINTS 1jts (31.4')
 SEATING NIPPLE: 2-7/8" (1.1')
 SN LANDED AT: 5676.7' KB
 NO OF JOINTS: 2jts (62.9')
 TOTAL STRING LENGTH: EOT @ 5741'

SUCKER RODS

POLISHED ROD: 1-1/2" x 30'
 SUCKER RODS: 1-4 x 7/8 pony rods, 221- 7/8" guided rods,, 4- 1 1/2" weight bars
 PUMP SIZE 2 1/2 x 1 3/4 x 21' x 24' RHAC
 STROKE LENGTH: 144
 PUMP SPEED: SPM 5

Cement Top @90'



5-7-10-10 5633-5686' **Frac CP2 & CP1 sands as follows:**
 Frac with 44698# 20/40 sand in 295bbls
 Lightning 17

5-7-10 5025-5057' **Frac B2 as Follows:**Frac with
 65112# 20/40 sand in 401bbls
 Lightning 17

5-7-10 4849-4905' **Frac D3 & C sands as follows:**Frac
 with 46724# 20/40 sand in 301bbls
 lightning 17.

5-7-10 4147-4180' **Frac GB4 sands as follows:**Frac
 with 17164# 20/40 sand 139 Lightning
 17

PERFORATION RECORD

5681-5686' 3 JSPF 15 holes
 5633-5638' 3 JSPF 15holes
 5054-5057' 3 JSPF 9holes
 5045-5047' 3 JSPF 6holes
 5025-5027' 3 JSPF 6 holes
 4903-4905' 3 JSPF 6 holes
 4889-4891' 3 JSPF 6 holes
 4849-4852' 3 JSPF 9holes
 4147-4180' 3 JSPF 18holes

NEWFIELD

Jonah M-12-9-16
 2138'FSL & 1765' FWL (NE/SW)
 Section 12, T9S, R17E
 Duchesne Co, Utah
 API # 43-013-34098; Lease UTU-035521

Pan American #1FR-9-16

Spud Date: 1/5/06
 Put on Production: 2/9/06
 GL: 5529' KB: 5541'

Initial Production: BOPD,
 MCFD, BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 10 3/4" / 32.75"
 DEPTH LANDED: 309'
 HOLE SIZE: 15"
 CEMENT DATA: 230 sxs cement.
 HOLE SIZE to 6000': 10"

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 132 jts. (5479.96')
 DEPTH LANDED: 5477.96' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 500 sxs 50/50 POZ.
 CEMENT TOP AT: 1290'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 157 jts (4995.27')
 TUBING ANCHOR: 5007.27' KB
 NO. OF JOINTS: 3 jts (96.02')
 SEATING NIPPLE: 2-7/8" (1.10')
 SN LANDED AT: 5106.09' KB
 NO. OF JOINTS: 2 jts (62.92')
 TOTAL STRING LENGTH: EOT @ 5170.56' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' polished rod
 SUCKER RODS: 1-8", 1-6", 1-4", 1-2" x 3/4" ponies, 99- 3/4" scraped rods, 88- 3/4" plain rods, 10- 3/4" scraped rods, 6- 1 1/2" weight rods
 PUMP SIZE: 2-1/2" x 1-1/2" x 14" RHAC w/SM plunger
 STROKE LENGTH: 86"
 PUMP SPEED, SPM: 5 SPM

FRAC JOB

2/6/06 5038'-5080' **Frac A1&3 sands as follows:**
 70,448# 20/40 sand in 562 bbls Lightning 17 frac fluid. Treated @ avg press of 1933 psi w/avg rate of 24.9 BPM. ISIP 2050 psi. Calc flush: 5036 gal. Actual flush: 5040 gal.

2/6/06 4742'-4750' **Frac C sands as follows:**
 34,710# 20/40 sand in 390 bbls Lightning 17 frac fluid. Treated @ avg press of 1978 psi w/avg rate of 24.8 BPM. ISIP 1980 psi. Calc flush: 4740 gal. Actual flush: 4746 gal.

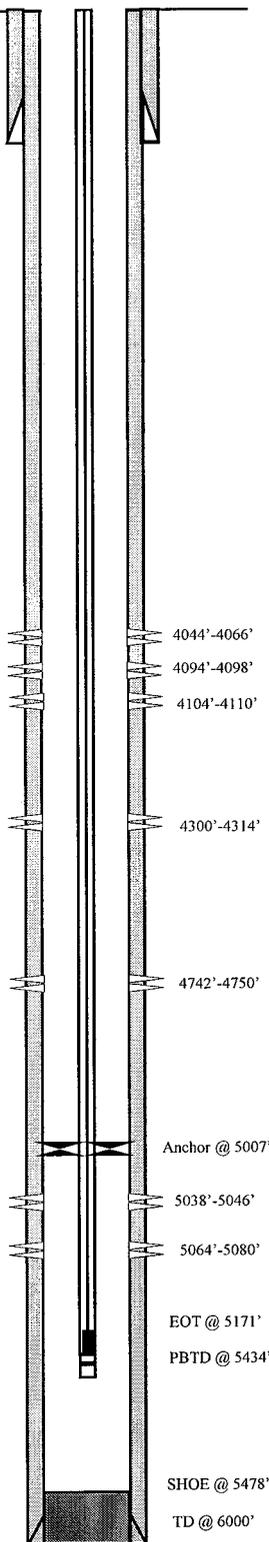
2/6/06 4300'-4314' **Frac PB10 sands as follows:**
 35,142# 20/40 sand in 348 bbls Lightning 17 frac fluid. Treated @ avg press of 1820 psi w/avg rate of 24.8 BPM. ISIP 2060 psi. Calc flush: 4298 gal. Actual flush: 4326 gal.

2/6/06 4044'-4110' **Frac GB6 sands as follows:**
 67,736# 20/40 sand in 511 bbls Lightning 17 frac fluid. Treated @ avg press of 1805 w/ avg rate of 24.9 BPM. ISIP 1820 psi. Calc flush: 4042 gal. Actual flush: 3906 gal.

12/13/06 **Pump Change:** Rod & Tubing detail updated.

Cement Top @ 1290'

SN @ 5106'



PERFORATION RECORD

Date	Depth Range	Number of Joints	Number of Holes
2/1/06	5064'-5080'	4 JSPF	64 holes
2/1/06	5038'-5046'	4 JSPF	32 holes
2/6/06	4742'-4750'	4 JSPF	32 holes
2/6/06	4300'-4314'	4 JSPF	56 holes
2/6/06	4104'-4110'	4 JSPF	24 holes
2/6/06	4094'-4098'	4 JSPF	16 holes
2/6/06	4044'-4066'	4 JSPF	88 holes



Pan American #1FR-9-16
 663' FNL & 663' FWL
 NW/NW Section 13-T9S-R16E
 Duchesne Co, Utah
 API #43-013-10822; Lease #UTU-75039

Walton Federal #1

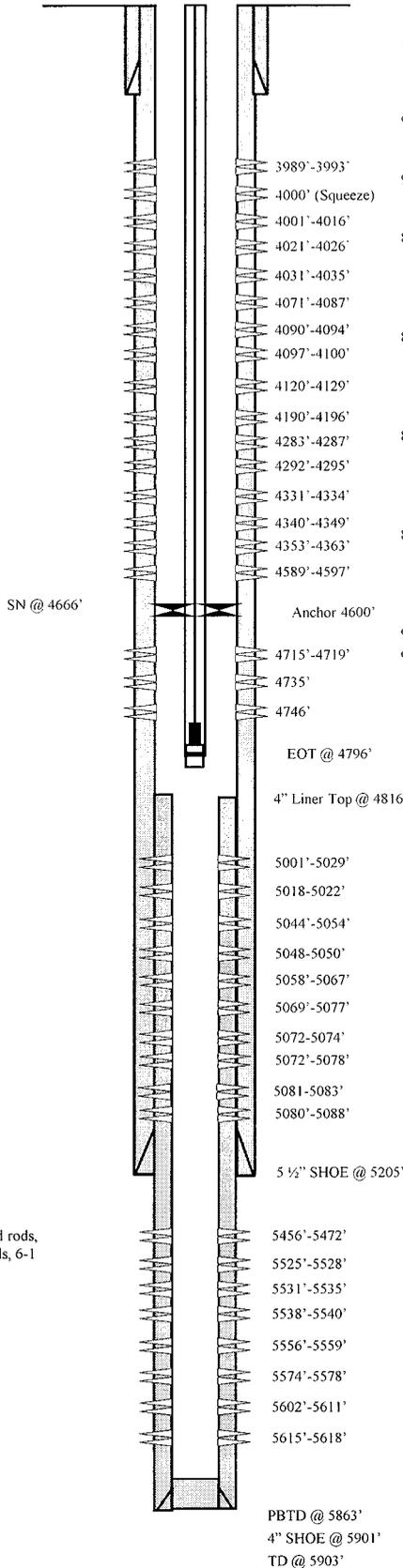
16-11-9-16

ATTACHMENT E-18

Spud Date: 4/01/1964
GL: 5501' KB: 5513'

Initial Production: 1073 BOPD,
100 MCFG

Wellbore Diagram



FRAC JOB

Date	Depth Range	Fracturing Details
5/07/64	5007'-5020'	Frac zone as follows: 21,000# 20/40 sand + 2000# 8/12 beads in 500 bbl crude oil. Treated @ 3750 psi @ 37 BPM.
5/07/64	4735'-4746'	Frac zone as follows: 20,000# 20/40 sand + 2000# 8/12 beads in 475 bbl crude oil. Treated @ 3700 psi @ 32 BPM.
10/05/66	4735'-5084'	Frac zone as follows: 62,000# 20/40 sand + 2000# beads in 1750 bbl 1% acetic acid. Treated @ 2800 psi @ 54 BPM. Calc. flush: 5075 gal. Actual flush: 6500 gal.
9/25/96	5007'-5084'	Frac zone as follows: 29,760# 16/30 sand in 168 bbl KCl. Treated @ 3450 psi @ 13 BPM, ISIP 1990 psi.
9/25/96	4589'-4746'	Frac zone as follows: 12,000# 16/30 sand in 212 bbl KCl. Treated @ 2900 psi @ 22.5 BPM, ISIP 2520 psi.
8/11/03	5456'-5618'	Frac CPI, CP2, & CP3 sands as follows: 120,283# 20/40 sand in 879 Bbls Viking I-25 fluid. Treated @ avg. press of 3825 psi w/ avg. rate of 14.4 BPM. ISIP: 1770 psi. Calc flush: 1270 Gal. Actual flush: 1218 gal.
8/12/03	4589'-4597'	Re-Frac D1 sands as follows: 20,026# 20/40 sand in 235 Bbls Viking I-25 fluid. Treated @ avg. press of 3340 psi w/ avg rate of 17.3 BPM. ISIP 3850 psi. Calc flush: 4587 gal. Actual flush: 4410 gal.
8/13/03	4190'-4363'	Frac PB7, PB10, & PB11 sands as follows: 65,480# 20/40 sand in 485 Bbls Viking I-25 fluid. Treated @ avg. press of 3225 psi w/ avg rate of 23.6 BPM. ISIP: 3850 psi. Calc. Flush: 4188 gal. Actual flush: 2142 gal. (Screened Out)
8/13/03	3989'-4129'	Frac GB2, GB4, and GB6 sands as follows: 155,102# 20/40 sand in 996 Bbls Viking I-25 fluid. Treated @ avg. press of 1950 psi w/ avg. rate of 24.5 BPM. ISIP: 2200 psi. Calc flush: 3987 gal. Actual flush: 3906 gal.
9/20/10		Re-Completion
9/14/10	5018-5083'	Frac A1 & A3 sands as follows: 33495# 20/40 sand in 261 bbls Lightning 17 fluid.

PERFORATION RECORD

Date	Depth	SPF	Holes
5/06/64	5020'	3 SPF	03 holes
5/06/64	5013'	3 SPF	03 holes
5/06/64	5007'	3 SPF	03 holes
5/06/64	4746'	3 SPF	03 holes
5/06/64	4735'	3 SPF	03 holes
10/5/66	5075'	1 SPF	01 hole
10/5/66	5084'	1 SPF	01 hole
08/1982	4589'-4597'	??	?? holes
9/24/96	5072'-5078'	2 SPF	12 holes
9/24/96	5046'-5054'	2 SPF	16 holes
9/24/96	4715'-4719'	4 SPF	16 holes
9/24/96	4590'-4595'	4 SPF	20 holes
7/24/03	4000' (squeeze)	4 JSPF	4 holes
8/11/03	5615'-5618'	4 JSPF	12 holes
8/11/03	5602'-5611'	4 JSPF	36 holes
8/11/03	5574'-5578'	4 JSPF	16 holes
8/11/03	5556'-5559'	4 JSPF	12 holes
8/11/03	5538'-5540'	4 JSPF	8 holes
8/11/03	5531'-5535'	4 JSPF	16 holes
8/11/03	5525'-5528'	4 JSPF	12 holes
8/11/03	5456'-5472'	4 JSPF	64 holes
8/12/03	4353'-4363'	4 JSPF	40 holes
8/12/03	4340'-4349'	4 JSPF	36 holes
8/12/03	4331'-4334'	4 JSPF	12 holes
8/12/03	4292'-4295'	4 JSPF	12 holes
8/12/03	4283'-4287'	4 JSPF	16 holes
8/12/03	4190'-4196'	4 JSPF	24 holes
8/13/03	4120'-4129'	4 JSPF	36 holes
8/13/03	4097'-4100'	4 JSPF	12 holes
8/13/03	4090'-4094'	4 JSPF	16 holes
8/13/03	4071'-4087'	4 JSPF	64 holes
8/13/03	4031'-4035'	4 JSPF	16 holes
8/13/03	4021'-4026'	4 JSPF	20 holes
8/13/03	4001'-4016'	4 JSPF	60 holes
8/13/03	3989'-3993'	4 JSPF	16 holes
8/14/03	5080'-5088'	2 JSPF	16 holes
8/14/03	5069'-5077'	2 JSPF	16 holes
8/14/03	5058'-5067'	2 JSPF	18 holes
8/14/03	5044'-5054'	2 JSPF	20 holes
8/14/03	5001'-5029'	2 JSPF	56 holes
9/14/10	5081-5083'	3 JSPF	6 holes
9/14/10	5072-5074'	3 JSPF	6 holes
9/14/10	5048-5050'	3 JSPF	6 holes
9/14/10	5018-5022'	3 JSPF	12 holes

SURFACE CASING

CSG SIZE: 9-5/8"
GRADE: J-55
WEIGHT: 32.2#
LENGTH: 7 jts. (212')
DEPTH LANDED: 225'
HOLE SIZE: 12-1/4"
CEMENT DATA: 225 sxs cement

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 167 jts. (5192')
DEPTH LANDED: 5205'
HOLE SIZE: 7 7/8"
CEMENT DATA: 400 sacks cmt.
CEMENT TOP AT: 4056' per CBL

TUBING

CSG SIZE: 4"
GRADE: J-55
WEIGHT: 11#
LENGTH: 1077'
DEPTH LANDED: 5901'
HOLE SIZE: 4 3/4"
CEMENT DATA: 201 sacks cmt.
CEMENT TOP AT: ????? After squeeze
4" Liner Top @ 4816'

SIZE/GRADE/WT: 2 7/8" / J-55 / 6.5#
NO. OF JOINTS: 146 jts (4588.2')
TUBING ANCHOR: 4600.2'
NO. OF JOINTS: 2 jts (62.9')
SEATING NIPPLE: 2 7/8" (1.10')
SN LANDED AT: 4666' KB
NO. OF JOINTS: 1 jts (31')
TOTAL STRING LENGTH: EOT @ 4796' W/ 12' KB

SUCKER RODS

POLISHED ROD: 1 1/2" x 22' SM
SUCKER RODS: 1-2' x 3/4", 2-8' x 3/4" pony rods, 91 - 3/4" guided rods, 40 - 3/4" sucker rods, 28 - 3/4" guided rods, 20 - 3/4" 4per guided rods, 6-1 1/2" sinker bars
PUMP SIZE: 2 1/2" x 1 3/4" x 16' x 20' RHAC
STROKE LENGTH: 86
PUMP SPEED, SPM: 5 SPM



Walton Federal #1 16-11-9-16
705' FSL & 704' FEL
SESE Section 11-T9S-R16E
Duchesne Co, Utah
API #43-013-15792; Lease #U-096550

GMBU B-14-9-16

Spud Date: 10/09/2011

PWOP: 12/07/2011

GL: 5505' KB: 5518'

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 jts. (314.98')

DEPTH LANDED: 328.30' KB

HOLE SIZE: 12-1/4"

CEMENT DATA: 160 sxs Class "G" cmt

PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 143 jts. (6040.15') Includes Shoe Jt. (42.98')

HOLE SIZE: 7-7/8"

DEPTH LANDED: 6059.66' KB

CEMENT DATA: 225 sxs Prem. Lite II mixed & 455 sxs 50/50 POZ.

CEMENT TOP AT: 47'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#

NO. OF JOINTS: 182 jts. (5666.1')

TUBING ANCHOR: 5679.1' KB

NO. OF JOINTS: 1 jt. (31.3')

SEATING NIPPLE: 2-7/8" (1.1')

SN LANDED AT: 5713.2' KB

NO. OF JOINTS: 2 jts. (60.6')

NOTCHED COLLAR: 5774.8' KB

TOTAL STRING LENGTH: EOT @ 5775'

SUCKER RODS

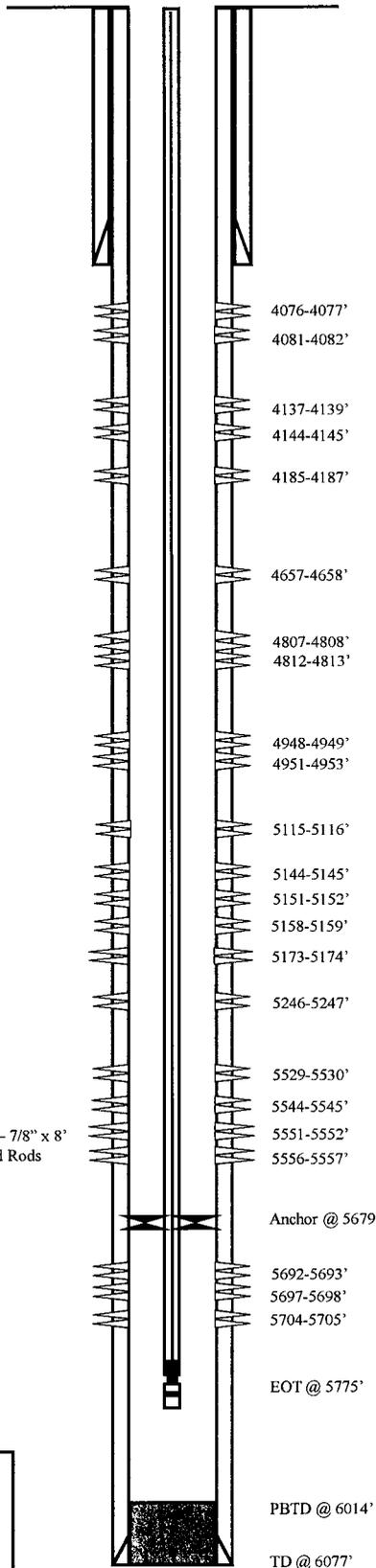
POLISHED ROD: 1-1/2" x 30' Spray Metal Polished Rod

SUCKER RODS: 1 - 7/8" x 4' Pony Rod, 1 - 7/8" x 6' Pony Rod, 1 - 7/8" x 8' Pony Rod, 71 - 7/8" 4per Guided Rods (1775'), 143 - 3/4" 4per Guided Rods (3575'), 12 - 7/8" 8per Guided Rods (300')

PUMP SIZE: 2-1/2" x 1-3/4" x 20' x 24' RHAC

STROKE LENGTH: 144"

PUMP SPEED: 5 SPM



FRAC JOB

11/18/2011	5529-5705'	Frac CP1 & CP3, sands as follows: Frac with 50271# 20/40 white sand in 625 bbls lightning 17 fluid; 841 bbls total fluid to recover.
11/28/2011	5115-5247'	Frac A3 & LODC, sands as follows: Frac with 74870# 20/40 white sand in 586 bbls lightning 17 fluid; 706 bbls total fluid to recover.
11/28/2011	4657-4953'	Frac B2, C-Sand & D1, sands as follows: Frac with 70185# 20/40 white sand in 541 bbls lightning 17 fluid; 649 bbls total fluid to recover.
11/28/2011	4076-4187'	Frac GB2, GB4 & GB6, sands as follows: Frac with 99881# 20/40 white sand in 591 bbls lightning 17 fluid; 686 bbls total fluid to recover.

PERFORATION RECORD

5704-5705'	3 JSPP	3 holes
5697-5698'	3 JSPP	3 holes
5692-5693'	3 JSPP	3 holes
5556-5557'	3 JSPP	3 holes
5551-5552'	3 JSPP	3 holes
5544-5545'	3 JSPP	3 holes
5529-5530'	3 JSPP	3 holes
5246-5247'	3 JSPP	3 holes
5173-5174'	3 JSPP	3 holes
5158-5159'	3 JSPP	3 holes
5151-5152'	3 JSPP	3 holes
5144-5145'	3 JSPP	3 holes
5115-5116'	3 JSPP	3 holes
4951-4953'	3 JSPP	6 holes
4948-4949'	3 JSPP	3 holes
4812-4813'	3 JSPP	3 holes
4807-4808'	3 JSPP	3 holes
4657-4658'	3 JSPP	3 holes
4185-4187'	3 JSPP	6 holes
4144-4145'	3 JSPP	3 holes
4137-4139'	3 JSPP	6 holes
4081-4082'	3 JSPP	3 holes
4076-4077'	3 JSPP	3 holes

NEWFIELD



GMBU B-14-9-16

730'FSL & 731' FEL (SE/SE)

Section 11, T9S, R16E

Duchesne County, Utah

API #43-013-50580; Lease # UTU-096550

NEWFIELD



GMBU C-13-9-16

Monument Butte - Duchesne County, Utah, USA

Surface Location: NE/NE- Sec 13, T9S, R16E; 614' FNL & 1,825' FEL

5,477' GL + 10' KB

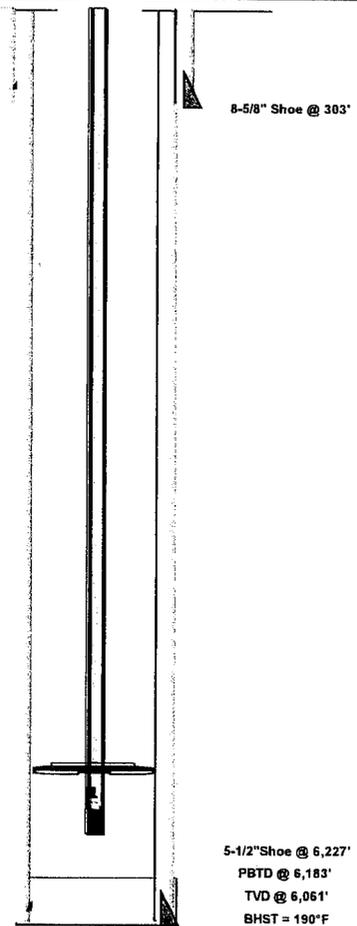
API#: 43-013-51156; Lease#: UTU-64806

Mickey Moulton

PFM 12/4/2012

Spud Date: 9/21/2012; PoP Date: 10/30/2012

Casing Detail	Casing	Top	Bottom	Size	Wt	Grade	Drift	Burst	Collapse	ID	gal/ft	Coupling	Hole
	Surf	10'	6,227'	8-5/8"	24#	J-55	7.972"	2,950	1,370	8.097"	2.6749	STC	12,250
Prod	10'	6,227'	5-1/2"	15.5#	J-55	4.825"	4,810	4,040	4.950"	0.9997	LTC	7.875	
Tub. Detail	Top	Bottom	Coupling	Size	Wt.	Grade	Drift	Burst	Collapse	ID	Packer/Hanger		
	10'	5,664'	8EUE	2-7/8"	6.5#	J-55	2.347"	7,260	7,680	2.441"	Tubing Anchor Set @ 5,665' Seating Nipple @ 5,59		
Rod Detail	Component		Top	Bottom	Size	Grade	Length	Count	Pump				
	Polish Rod		0'	30'	1 1/2"	Spray Metal	30'	1	Insert Pump: 2.5 Max ID x 1.75 Plunger RHAC @ 5,592'. 4' Spray Metal plunger 0.003.				
	Pony Rod		30'	32'	7/8"	Tenaris D78	2'	1					
	Pony Rod		32'	36'	7/8"	Tenaris D78	4'	1					
	Pony Rod		36'	42'	7/8"	Tenaris D78	6'	1					
	4per Guided Rod		42'	1,792'	7/8"	Tenaris D78	1,750'	70					
	4per Guided Rod		1,792'	4,892'	3/4"	Tenaris D78	3,100'	124					
	8per Guided Rod		4,892'	5,592'	7/8"	Tenaris D78	700'	28					
Stage	Top	Bottom	SPF	Gun Size	Date	Frac Summary							
5	4,156'	4,159'	3	9"	10/18/2012	Formation:	GB-6	GB-4					
	4,205'	4,207'	3	6"	10/18/2012	20/40 White:	27,047 lbs	15% HCl:	0 gals				
	0'	0'	3	0"	-	Pad:	2,965 gals	Treating Fluid:	6,665 gals				
	0'	0'	3	0"	-	Flush:	4,561 gals	Load to Recover:	14,191 gals				
	0'	0'	3	0"	-	ISIP=	0.882 psi/ft	Max STP:	3,099 psi				
4	4,330'	4,332'	3	6"	10/18/2012	Formation:	PB-10	PB-8					
	4,400'	4,402'	3	6"	10/18/2012	20/40 White:	37,380 lbs	15% HCl:	252 gals				
	4,414'	4,416'	3	6"	10/18/2012	Pad:	3,406 gals	Treating Fluid:	8,816 gals				
	0'	0'	3	0"	-	Flush:	4,309 gals	Load to Recover:	16,783 gals				
	0'	0'	3	0"	-	ISIP=	1.044 psi/ft	Max STP:	3,874 psi				
3	4,584'	4,586'	3	6"	10/17/2012	Formation:	C-Sand	DS-1					
	4,859'	4,861'	3	6"	10/17/2012	20/40 White:	64,788 lbs	15% HCl:	252 gals				
	4,869'	4,872'	3	9"	10/17/2012	Pad:	3,826 gals	Treating Fluid:	16,190 gals				
	0'	0'	3	0"	-	Flush:	4,448 gals	Load to Recover:	24,716 gals				
	0'	0'	3	0"	-	ISIP=	0.884 psi/ft	Max STP:	3,142 psi				
2	5,017'	5,019'	3	6"	10/17/2012	Formation:	A-3	A-1	B-1				
	5,021'	5,022'	3	3"	10/17/2012	20/40 White:	53,183 lbs	15% HCl:	252 gals				
	5,139'	5,140'	3	3"	10/17/2012	Pad:	3,284 gals	Treating Fluid:	13,019 gals				
	5,147'	5,149'	3	6"	10/17/2012	Flush:	5,498 gals	Load to Recover:	22,053 gals				
	5,180'	5,181'	3	3"	10/17/2012	ISIP=	- psi/ft	Max STP:	2,966 psi				
1	5,562'	5,564'	3	6"	10/16/2012	Formation:	CP-1	CP-Half					
	5,605'	5,609'	3	12"	10/16/2012	20/40 White:	27,492 lbs	15% HCl:	378 gals				
	0'	0'	3	0"	-	Pad:	2,747 gals	Treating Fluid:	7,060 gals				
	0'	0'	3	0"	-	Flush:	5,431 gals	Load to Recover:	15,616 gals				
	0'	0'	3	0"	-	ISIP=	0.794 psi/ft	Max STP:	3,191 psi				
CEMENT	Surf	On 9/21/12 Baker cemented 8 5/8" casing w/ 160 sks Class "G" + 2% KCl + 0.25#/sk Cello Flake at 15.8 ppg w/ 1.17 yield and returned 5 bbls to the pit.											
	Prod	On 9/29/12 Baker pumped 222 sks lead @ 11 ppg w/ 3.53 yield plus 448 sks tail @ 14.4 ppg w/ 1.24 yield. TOC @ 90'											



5-1/2" Shoe @ 6,227'
 PBTD @ 6,183'
 TVD @ 6,061'
 BHST = 190°F

NEWFIELD



GMBU V-12-9-16

Monument Butte - Duchesne County, Utah, USA

Surface Location: NW/NE - Sec 13, T9S, R16E; 616' FNL & 1,804' FEL

5,477' GL + 10' KB

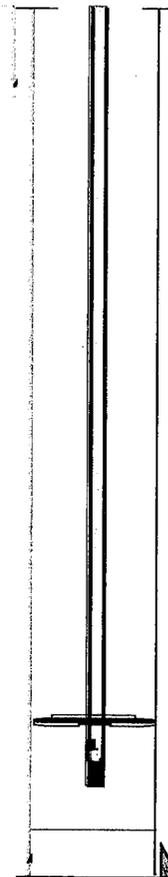
Mickey Moulton

PFM 12/4/2012

API#: 43-013-61166; Lease#: UTU-64805

Spud Date: 9/20/2012; PoP Date: 10/30/2012

Casing Detail	Casing	Top	Bottom	Size	Wt	Grade	Drift	Burst	Collapse	ID	gal/ft	Coupling	Hole
	Surf	10'	308'	8-5/8"	24#	J-55	7.972"	2,950	1,370	8.097"	2.6749	STC	12.250
Prod	10'	6,155'	5-1/2"	15.5#	J-55	4.825"	4,810	4,040	4.950"	0.9997	LTC	7.875	
Tbg. Detail	Top	Bottom	Coupling	Size	Wt.	Grade	Drift	Burst	Collapse	ID	Packer/Hanger		
	10'	5,790'	8EUE	2-7/8"	6.5#	J-55	2.347"	7,260	7,680	2.441"	Tubing Anchor Set @ 5,691' Seating Nipple @ 5,72		
Rod Detail	Component		Top	Bottom	Size	Grade	Length	Count	Pump				
	Polish Rod		0'	30'	1 1/2"	Spray Metal	30'	1	Insert Pump: 2.5 Max ID x 1.75 Plunger RHAC @ 5,721'. 4' Spray Metal 0.003, 224" max stroke, CPID Barrel.				
	Pony Rod		30'	46'	7/8"	Tenaris D78	16'	1					
	4per Guided Rod		46'	1,971'	7/8"	Tenaris D78	1,925'	77					
	4per Guided Rod		1,971'	5,021'	3/4"	Tenaris D78	3,050'	122					
8per Guided Rod		5,021'	5,721'	7/8"	Tenaris D78	700'	28						
Stage	Top	Bottom	SPF	Gun Size	Date	Frac Summary							
5	4,165'	4,167'	3	6"	10/18/2012	Formation:	PB-10	GB-6	Base Fluid 7% KCL				
	4,375'	4,376'	3	3"	10/18/2012	20/40 White:	62,497 lbs	15% HCl:	0 gals				
	4,380'	4,382'	3	6"	10/18/2012	Pad:	3,255 gals	Treating Fluid:	14,671 gals				
	4,393'	4,394'	3	3"	10/18/2012	Flush:	3,822 gals	Load to Recover:	21,748 gals				
	0'	0'	3	0"	-	ISIP=	0.862 psi/ft	Max STP:	3,447 psi				
4	4,792'	4,794'	3	6"	10/18/2012	Formation:	C	Base Fluid 7% KCL					
	4,804'	4,805'	3	3"	10/18/2012	20/40 White:	51,461 lbs	15% HCl:	252 gals				
	4,812'	4,814'	3	6"	10/18/2012	Pad:	3,192 gals	Treating Fluid:	8,699 gals				
	0'	0'	3	0"	-	Flush:	4,658 gals	Load to Recover:	19,187 gals				
	0'	0'	3	0"	-	ISIP=	0.909 psi/ft	Max STP:	3,284 psi				
3	4,876'	4,878'	3	6"	10/18/2012	Formation:	B2	B-Half	Base Fluid 7% KCL				
	4,940'	4,944'	3	12"	10/18/2012	20/40 White:	59,815 lbs	15% HCl:	252 gals				
	0'	0'	3	0"	-	Pad:	623 gals	Treating Fluid:	13,787 gals				
	0'	0'	3	0"	-	Flush:	4,822 gals	Load to Recover:	23,096 gals				
	0'	0'	3	0"	-	ISIP=	0.821 psi/ft	Max STP:	3,618 psi				
2	5,096'	5,098'	3	6"	10/18/2012	Formation:	A1	Base Fluid 7% KCL					
	5,106'	5,108'	3	6"	10/18/2012	20/40 White:	32,856 lbs	15% HCl:	252 gals				
	5,112'	5,114'	3	6"	10/18/2012	Pad:	2,575 gals	Treating Fluid:	8,407 gals				
	0'	0'	3	0"	-	Flush:	5,036 gals	Load to Recover:	16,270 gals				
	0'	0'	3	0"	-	ISIP=	- psi/ft	Max STP:	2,566 psi				
1	5,706'	5,710'	3	12"	10/17/2012	Formation:	CP4	Base Fluid 7% KCL					
	0'	0'	3	0"	-	20/40 White:	25,117 lbs	15% HCl:	378 gals				
	0'	0'	3	0"	-	Pad:	3,692 gals	Treating Fluid:	6,401 gals				
	0'	0'	3	0"	-	Flush:	5,636 gals	Load to Recover:	16,107 gals				
	0'	0'	3	0"	-	ISIP=	0.746 psi/ft	Max STP:	3,604 psi				
CEMENT	Surf	On 9/21/12 Baker cemented 8 5/8" casing w/ 160 sks Class "G" + 2% KCl + 0.25#/sk Cello Flake at 15.8 ppg w/ 1.17 yield and returned 5 bbls to the pit.											
	Prod	On 10/4/12 Baker pumped 221 sks lead @ 11 ppg w/ 3.53 yield plus 443 sks tail @ 14.4 ppg w/ 1.24 yield. Returned 15 bbls to the pit. TOC @ Surface											



8-5/8" Shoe @ 308'

5-1/2" Shoe @ 6,155'
PBTD @ 6,112'
TVD @ 6,085'
BHST = 190°F

Water Analysis Report

Production Company: **NEWFIELD PRODUCTION**

Well Name: **BELUGA INJECTION**

Sample Point: **After production filter**

Sample Date: **12/9/2011**

Sample ID: **WA-204146**

Sales Rep: **Darren Betts**

Lab Tech: **Gary Peterson**

Scaling potential predicted using ScaleSoftPitzer from Brine Chemistry Consortium (Rice University)

Sample Specifics		Analysis @ Properties in Sample Specifics			
		Cations		Anions	
		mg/L		mg/L	
Test Date:	12/9/2011	Sodium (Na):	13791.93	Chloride (Cl):	20000.00
System Temperature 1 (°F):	300.00	Potassium (K):	35.40	Sulfate (SO4):	480.00
System Pressure 1 (psig):	3000.00	Magnesium (Mg):	13.30	Bicarbonate (HCO3):	1854.40
System Temperature 2 (°F):	70.00	Calcium (Ca):	38.50	Carbonate (CO3):	0.00
System Pressure 2 (psig):	14.70	Strontium (Sr):	0.00	Acetic Acid (CH3COO)	0.00
Calculated Density (g/ml):	1.02	Barium (Ba):	6.73	Propionic Acid (C2H5COO)	0.00
pH:	8.60	Iron (Fe):	15.50	Butanoic Acid (C3H7COO)	0.00
Calculated TDS (mg/L):	36236.98	Zinc (Zn):	0.00	Isobutyric Acid ((CH3)2CHCOO)	0.00
CO2 in Gas (%):	0.00	Lead (Pb):	0.81	Fluoride (F):	0.00
Dissolved CO2 (mg/L):	0.00	Ammonia NH3:	0.00	Bromine (Br):	0.00
H2S in Gas (%):	0.00	Manganese (Mn):	0.41	Silica (SiO2):	0.00
H2S in Water (mg/L):	25.00				

Notes:

P=15.5 mg/l

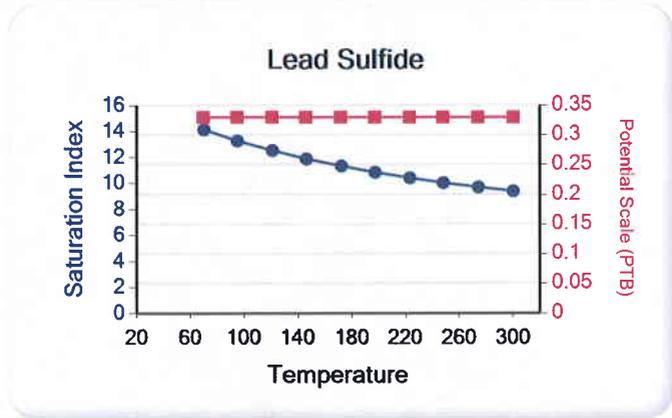
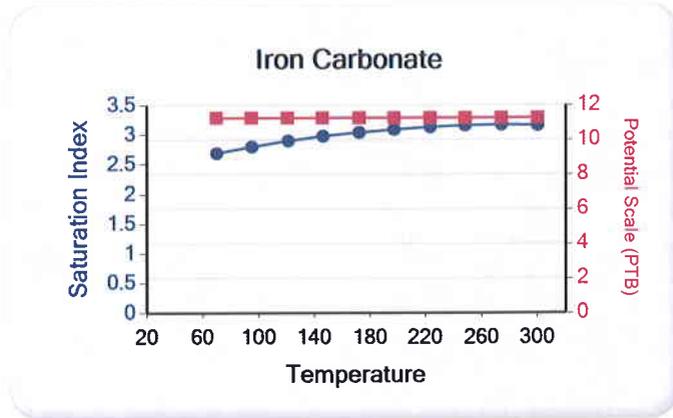
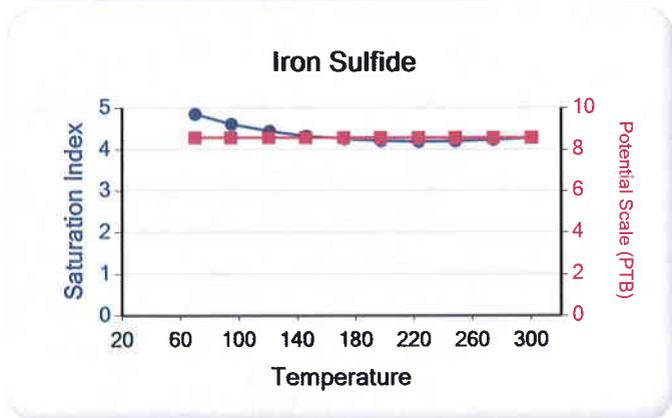
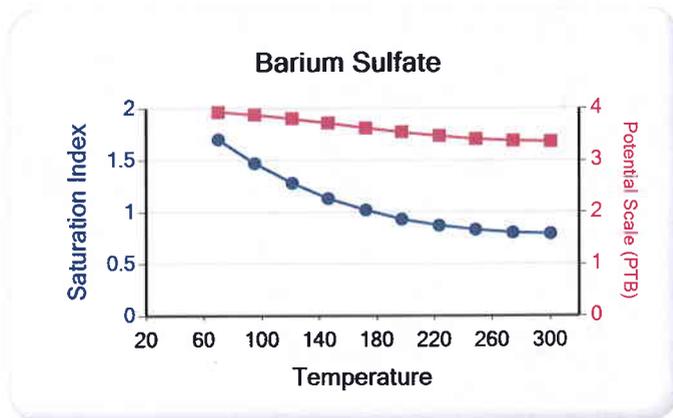
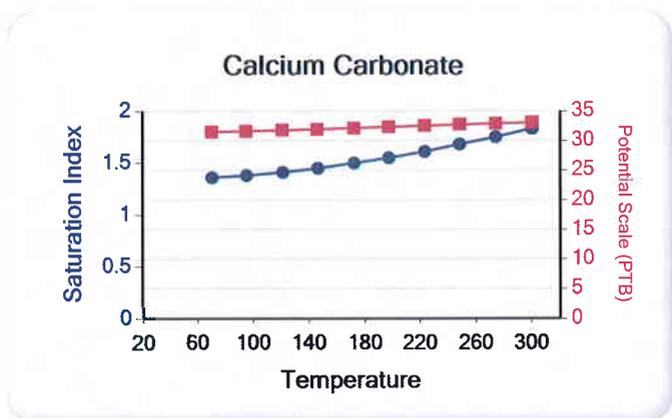
(PTB = Pounds per Thousand Barrels)

Temp (°F)	PSI	Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO4·2H2O		Celestite SrSO4		Halite NaCl		Zinc Sulfide	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
70	14	1.36	31.45	1.70	3.93	4.85	8.55	2.69	11.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	346	1.38	31.56	1.47	3.87	4.61	8.55	2.80	11.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
121	678	1.41	31.71	1.28	3.80	4.44	8.55	2.90	11.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146	1009	1.45	31.89	1.13	3.71	4.32	8.55	2.98	11.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172	1341	1.50	32.08	1.02	3.62	4.25	8.55	3.04	11.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
197	1673	1.55	32.28	0.93	3.54	4.21	8.55	3.09	11.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
223	2004	1.61	32.48	0.87	3.46	4.19	8.55	3.13	11.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
248	2336	1.68	32.68	0.83	3.41	4.20	8.55	3.16	11.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
274	2668	1.75	32.85	0.80	3.37	4.23	8.55	3.17	11.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300	3000	1.83	33.00	0.79	3.35	4.27	8.55	3.16	11.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Temp (°F)	PSI	Hemihydrate CaSO4~0.5H2O		Anhydrate CaSO4		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
70	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.14	0.33	0.00	0.00	0.00	0.00	0.00	0.00
95	346	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.28	0.33	0.00	0.00	0.00	0.00	0.00	0.00
121	678	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.54	0.33	0.00	0.00	0.00	0.00	0.00	0.00
146	1009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.89	0.33	0.00	0.00	0.00	0.00	0.00	0.00
172	1341	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.34	0.33	0.00	0.00	0.00	0.00	0.00	0.00
197	1673	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.85	0.33	0.00	0.00	0.00	0.00	0.00	0.00
223	2004	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.42	0.33	0.00	0.00	0.00	0.00	0.00	0.00
248	2336	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.04	0.33	0.00	0.00	0.00	0.00	0.00	0.00
274	2668	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.70	0.33	0.00	0.00	0.00	0.00	0.00	0.00
300	3000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.39	0.33	0.00	0.00	0.00	0.00	0.00	0.00

These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Lead Sulfide

These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Lead Sulfide



Units of Measurement: **Standard**

Water Analysis Report

Production Company: **NEWFIELD PRODUCTION**

Sales Rep: **Michael McBride**

Well Name: **MON 24-12J-9-16**

Lab Tech: **Gary Peterson**

Sample Point: **Treater**

Sample Date: **5/15/2012**

Sample ID: **WA-215011**

Scaling potential predicted using ScaleSoftPitzer from Brine Chemistry Consortium (Rice University)

Sample Specifics		Analysis @ Properties in Sample Specifics			
		Cations		Anions	
		mg/L		mg/L	
Test Date:	6/5/2012	Sodium (Na):	6406.60	Chloride (Cl):	9200.00
System Temperature 1 (°F):	160.00	Potassium (K):	39.00	Sulfate (SO4):	18.00
System Pressure 1 (psig):	60.0000	Magnesium (Mg):	0.67	Bicarbonate (HCO3):	1220.00
System Temperature 2 (°F):	160.00	Calcium (Ca):	2.40	Carbonate (CO3):	0.00
System Pressure 2 (psig):	60.0000	Strontium (Sr):	0.00	Acetic Acid (CH3COO):	0.00
Calculated Density (g/ml):	1.009	Barium (Ba):	1.60	Propionic Acid (C2H5COO):	0.00
pH:	8.70	Iron (Fe):	0.01	Butanoic Acid (C3H7COO):	0.00
Calculated TDS (mg/L):	16888.29	Zinc (Zn):	0.00	Isobutyric Acid ((CH3)2CHCOO):	0.00
CO2 in Gas (%):	0.00	Lead (Pb):	0.01	Fluoride (F):	
Dissolved CO2 (mg/L):	0.00	Ammonia NH3:		Bromine (Br):	
H2S in Gas (%):	0.00	Manganese (Mn):	0.00	Silica (SiO2):	
H2S in Water (mg/L):	0.00				

Notes:

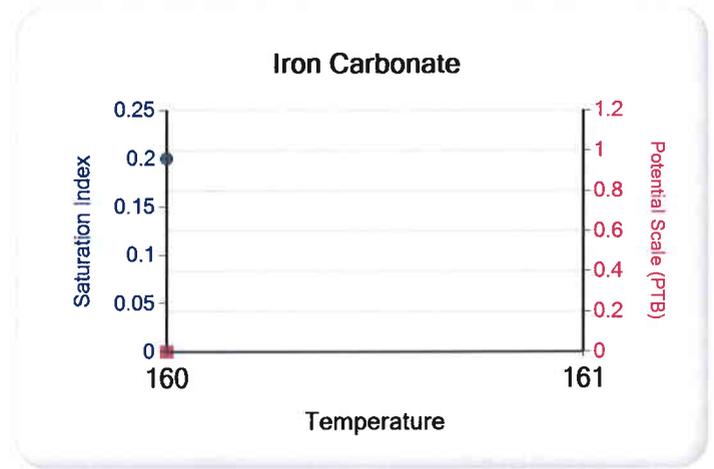
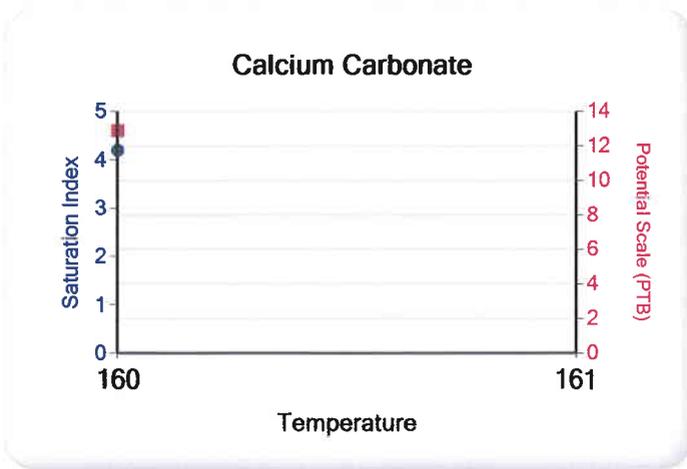
(PTB = Pounds per Thousand Barrels)

Temp (°F)	PSI	Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO4·2H2O		Celestite SrSO4		Halite NaCl		Zinc Sulfide	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
160.00	60.00	0.42	1.29	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.00	60.00	0.42	1.29	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.00	60.00	0.42	1.29	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.00	60.00	0.42	1.29	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.00	60.00	0.42	1.29	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.00	60.00	0.42	1.29	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.00	60.00	0.42	1.29	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.00	60.00	0.42	1.29	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.00	60.00	0.42	1.29	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.00	60.00	0.42	1.29	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Temp (°F)	PSI	Hemihydrate CaSO4·0.5H2O		Anhydrate CaSO4		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
160.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Iron Carbonate

These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Iron Carbonate



Attachment "G"

**Balcron Monument Federal #24-12J-9-16
Proposed Maximum Injection Pressure**

Frac Interval (feet)		Avg. Depth (feet)	ISIP (psi)	Calculated Frac Gradient (psi/ft)	Pmax
Top	Bottom				
4746	4750	4748	2450	0.95	2419
5476	5485	5481	1150	0.64	1114 ←
4080	4123	4102	1850	0.89	1824
				Minimum	<u><u>1114</u></u>

Calculation of Maximum Surface Injection Pressure
 $P_{max} = (Frac\ Grad - (0.433 * 1.015)) \times Depth\ of\ Top\ Perf$
 where pressure gradient for the fresh water is .433 psi/ft and
 specific gravity of the injected water is 1.015.

$Frac\ Gradient = (ISIP + (0.433 * Top\ Perf.)) / Top\ Perf.$

Please note: These are existing perforations; additional perforations may be added during the actual conversion procedure.

DAILY OPERATING REPORTBALCRON MONUMENT FEDERAL #24-12J

Location: SE SW Section 12, T9S, R16E
Duchesne County, Utah

- 12-10-93 TD: 5,700' (0') Day 7
Formation: Green River
Present Operation: RDMO
WO float collar, run 5-1/2" csg, cmt by Western as follows:
Guide shoe .60'
1 jt 5-1/2" 15.5# shoe jt 44.18'
float collar 2.10'
128 jts 5-1/2" 15.5# K-55 csg 5629.34'
5676.22'
Landing jt 9.00'
Csg set @ 5685.22'
PBSD 5636.34' 20 centralizers
Cmt by Western with 204 sxs Thrifty lite & tail w/215 sxs 50-50
POZ. Plug down @ 1:30 p.m. 12-9-93. Release rig @ 5:30 p.m. 12-9-
93. Set slips, ND BOP, & clean mud tank.
DC: \$48,035 CC: \$168,393
- 12-11-93 Completion
MIRU Cannon Well Service Rig #1. NU wellhead, NU BOP. SDFD.
DC: \$1,273
- 12-13-93 Completion
TIH w/4-3/4" bit, 5-1/2" scraper & 181 jts 2-7/8" tbg, tag PBSD @
5634' KB, circ hole clean w/125 bbls 2% KCL wtr. Pressure test csg
& BOP to 1000 psi - OK. TOOH w/tbg & tools. RU Cutter to perf
5476'-85' KB (2 SPF). RD Cutter. TIH w/RBP, retrieving head, 1 jt
2-7/8" tbg, 5-1/2" packer, SN & 176 jts 2-7/8" tbg. Set BP @
5526' KB, set packer @ 5425' KB, EOT @ 5460' KB. RU Dowell to do
HCL break down refer to treatment report. TOOH w/tbg 64 jts.
SWIFN.
DC: \$6,541
- 12-14-93 Completion
RU Dowell to frac 5476'-85' refer to treatment report. Pressure
test surface equipment to 4000 psi - OK. Screen out. RD Dowell.
SWIFD.
DC: \$20,220
- 12-15-93 Completion
CP - 920 psi. TIH w/retrieving head, 1 jt 2-7/8" tbg, 5-1/2" HD
packer, SN, & 109 jts 2-7/8" tbg. Tag sand @ 3394' KB, circ down
to 5526' KB. Pull up & set apcker @ 5425' KB. Made 8 swab runs.
Recovered 46 BW, heavy sand. SWIFN.
DC: \$4,446

DAILY OPERATING REPORTBALCRON MONUMENT FEDERAL #24-12J

Location: SE SW Section 12, T9S, R16E

Duchesne County, Utah

- 12-10-93 TD: 5,700' (0') Day 7
 Formation: Green River
 Present Operation: RDMO
 WO float collar, run 5-1/2" csg, cmt by Western as follows:
 Guide shoe .60'
 1 jt 5-1/2" 15.5# shoe jt 44.18'
 float collar 2.10'
 128 jts 5-1/2" 15.5# K-55 csg 5629.34'
 5676.22'
 Landing jt 9.00'
 Csg set @ 5685.22'
 PBTD 5636.34' 20 centralizers
 Cmt by Western with 204 sxs Thrifty lite & tail w/215 sxs 50-50
 POZ. Plug down @ 1:30 p.m. 12-9-93. Release rig @ 5:30 p.m. 12-9-
 93. Set slips, ND BOP, & clean mud tank.
 DC: \$48,035 CC: \$168,393
- 12-11-93 Completion
 MIRU Cannon Well Service Rig #1. NU wellhead, NU BOP. SDFD.
 DC: \$1,273
- 12-13-93 Completion
 TIH w/4-3/4" bit, 5-1/2" scraper & 181 jts 2-7/8" tbg, tag PBTD @
 5634' KB, circ hole clean w/125 bbls 2% KCL wtr. Pressure test csg
 & BOP to 1000 psi - OK. TOOH w/tbg & tools. RU Cutter to perf
 5476'-85' KB (2 SPF). RD Cutter. TIH w/RBP, retrieving head, 1 jt
 2-7/8" tbg, 5-1/2" packer, SN & 176 jts 2-7/8" tbg. Set BP @
 5526' KB, set packer @ 5425' KB, EOT @ 5460' KB. RU Dowell to do
 HCL break down refer to treatment report. TOOH w/tbg 64 jts.
 SWIFN.
 DC: \$6,541
- 12-14-93 Completion
 RU Dowell to frac 5476'-85' refer to treatment report. Pressure
 test surface equipment to 4000 psi - OK. Screen out. RD Dowell.
 SWIFD.
 DC: \$20,220
- 12-15-93 Completion
 CP - 920 psi. TIH w/retrieving head, 1 jt 2-7/8" tbg, 5-1/2" HD
 packer, SN, & 109 jts 2-7/8" tbg. Tag sand @ 3394' KB, circ down
 to 5526' KB. Pull up & set apcker @ 5425' KB. Made 8 swab runs.
 Recovered 46 BW, heavy sand. SWIFN.
 DC: \$4,446

DAILY OPERATING REPORTBALCRON MONUMENT FEDERAL #24-12J

Location: SE SW Section 12, T9S, R16E
Duchesne County, Utah

- 12-23-93 Completion
CP - 735 psi, bleed well down. TIH w/retrieving tool, 1 jt 2-7/8" tbg, packer, SN & 124 jts 2-7/8" tbg. Tag sand @ 3890' KB, circ down to 4155' KB (BP), set packer @ 4000' KB, EOT @ 4035' KB. Made 12 swab runs, recovered 72 BW, trace of oil. Last 2 runs, no sand. Release packer, tag sand @ 4130' KB, circ down to 4155' KB, release BP, TOOH w/tbg & tools. TIH w/production string as follows:
- | | <u>LENGTH</u> | <u>DEPTH KB</u> |
|--|---------------|-----------------|
| 1 jt 2-7/8" tbg EUE, J-55 8RD 6.5# | 31.42 | 5550.71' |
| 1 perf sub 2-7/8" x 3' | 3.20' | 5519.29' |
| 1 seat nipple | 1.10' | 5516.09' |
| 177 jts 2-7/8" tbg, EUE, J-55 8RD 6.5# | 5504.99' | 5514.09' |
- KB (10')
SWIFN.
DC: \$1,647
- 12-24-93 Completion
ND BOP, NU well head. TIH w/following:
1 BHP 2-1/2" x 1-1/2" x 16' RWAC w/PA plunger (trico)
119 3/4" x 25' plain rods D-61 (Trico)
two 3/4" x 6' ponys
one 1-1/4" x 22' polish rod SM (Trico)
Clamp rods, pressure test pump & tbg to 1000 psi - OK. BHP - #1027 (Trico).
DC: \$5,429
- 12-30-93 Completion
Start unit pumping 4-1/4" stroke, 86" stroke.
DC: \$30,330

ATTACHMENT H

WORK PROCEDURE FOR PLUGGING AND ABANDONMENT

1. Set CIBP @ 4030'
2. Plug #1 Set 100' plug on top of CIBP using 12 sx Class "G" cement
3. Plug #2 155' balance plug using 19 sx Class "G" cement 50' above Trona-Bird's Nest extending 50' below base of Mahogany Oil Shale
4. Plug #3 120' balance plug using 14sx Class "G" cement 60' above Uinta/Green River and extending 60' below
5. Perforate 4 JSPF @ 329'
6. Plug #4 Circulate 84 sx Class "G" cement down 5 1/2" and up the 5 1/2" x 8 5/8" annulus

The approximate cost to plug and abandon this well is \$42,000.

Balcron Monument Federal 24-12J-9-16

Spud Date: 11/8/93
 Put on Production: 12/30/93
 GL: 5495' KB: 5505'

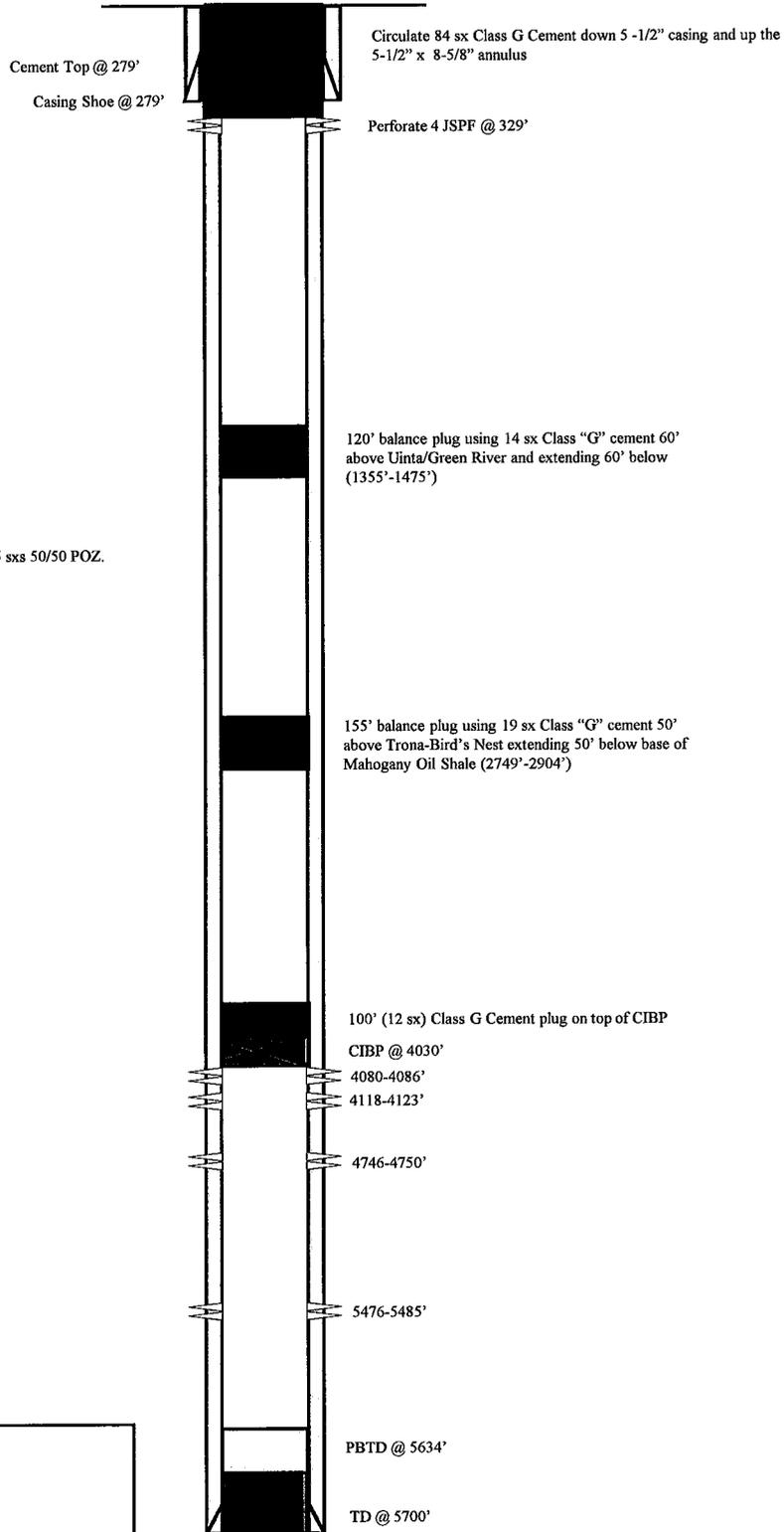
Proposed P & A Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 6jts. (271.28')
 DEPTH LANDED: 279'
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 150 sxs Class "G" cmt

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 129 jts. (5676.22')
 HOLE SIZE: 7-7/8"
 DEPTH LANDED: 5685.22'
 CEMENT DATA: 204 sxs Prem. Lite II mixed & 215 sxs 50/50 POZ.
 CEMENT TOP AT: 279'



NEWFIELD

Balcron Monument Federal 24-12J-9-16
 539' FSL & 1777' FWL
 SE/SW Section 12-T9S-R16E
 Duchesne Co, Utah
 API # 43-013-31409; Lease # U-035521-A

BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH
NOTICE OF AGENCY ACTION
CAUSE NO. UIC-396

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 9, 11, 12, 13, 16, 17, 18, 21, 22, 24, 27, AND 29, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Newfield Production Company, 1001 17th Street, Suite 2000, Denver, Colorado 80202, telephone 303-893-0102, for administrative approval of the following wells located in Duchesne County, Utah, for conversion to Class II injection wells:

Greater Monument Butte Unit:

Federal 15-9-9-16 well located in SW/4 SE/4, Section 9, Township 9 South, Range 16 East
API 43-013-33054
Walton Federal 4 well located in SE/4 NW/4, Section 11, Township 9 South, Range 16 East
API 43-013-15795
C-O Govt 1 well located in NW/4 SW/4, Section 12, Township 9 South, Range 16 East
API 43-013-15111
Monument Federal 24-12J well located in SE/4 SW/4, Section 12, Township 9 South, Range 16 East
API 43-013-31409
Federal 15-13-9-16 well located in SW/4 SE/4, Section 13, Township 9 South, Range 16 East
API 43-013-32648
State 1-16-9-16 well located in NE/4 NE/4, Section 16, Township 9 South, Range 16 East
API 43-013-33845
Federal 11-17-9-16 well located in NE/4 SW/4, Section 17, Township 9 South, Range 16 East
API 43-013-33034
Federal 15-18-9-16 well located in SW/4 SE/4, Section 18, Township 9 South, Range 16 East
API 43-013-33001
Federal 5-21-9-16 well located in SW/4 NW/4, Section 21, Township 9 South, Range 16 East
API 43-013-33020
Federal 11A-22-9-16 well located in NE/4 SW/4, Section 22, Township 9 South, Range 16 East
API 43-013-33149
Federal 1-24-9-16 well located in NE/4 NE/4, Section 24, Township 9 South, Range 16 East
API 43-013-33082
Federal 1-27-9-16 well located in NE/4 NE/4, Section 27, Township 9 South, Range 16 East
API 43-013-33350
Federal 3-29-9-16 well located in NE/4 NW/4, Section 29, Township 9 South, Range 16 East
API 43-013-33425

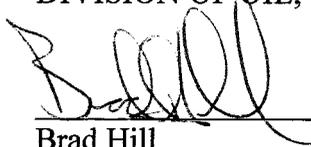
The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selected zones in the Green River Formation will be used for water injection. The maximum requested injection pressures and rates will be determined based on fracture gradient information submitted by Newfield Production Company.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Brad Hill, Permitting Manager, at P.O. Box 145801, Salt Lake City, UT 84114-5801, phone number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 21st day of June, 2012.

STATE OF UTAH
DIVISION OF OIL, GAS & MINING

A handwritten signature in black ink, appearing to read "Brad Hill", is written over a horizontal line.

Brad Hill
Permitting Manager

Newfield Production Company

**FEDERAL 15-9-9-16, WALTON FEDERAL 4, C-O GOVT 1, MONUMENT FEDERAL 24-12J,
FEDERAL 15-13-9-16, STATE 1-16-9-16, FEDERAL 11-17-9-16, FEDERAL 15-18-9-16,
FEDERAL 5-21-9-16, FEDERAL 11A-22-9-16, FEDERAL 1-24-9-16, FEDERAL 1-27-9-16,
FEDERAL 3-29-9-16**

Cause No. UIC-396

Publication Notices were sent to the following:

Newfield Production Company
1001 17th Street, Suite 2000
Denver, CO 80202

Uintah Basin Standard
268 South 200 East
Roosevelt, UT 84066
via e-mail ubs@ubstandard.com

Salt Lake Tribune
P O Box 45838
Salt Lake City, UT 84145
via e-mail naclegal@mediaoneutah.com

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

SITLA
675 E 500 S Ste 500
Salt Lake City, UT 84102-2818

Duchesne County Planning
P O Box 317
Duchesne, UT 84021-0317

Bruce Suchomel
US EPA Region 8
MS 8P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129

Newfield Production Company
Rt 3 Box 3630
Myton, UT 84052





GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

June 21, 2012

Via e-mail: legals@ubstandard.com

Uintah Basin Standard
268 South 200 East
Roosevelt, UT 84066

Subject: Notice of Agency Action – Newfield Production Company Cause No. UIC-396

To Whom It May Concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: jsweet@utah.gov.

Please send proof of publication and billing to:

Division of Oil, Gas and Mining
PO Box 145801
Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet
Executive Secretary

Enclosure

Jean Sweet - Re: Notice of Agency Action – Newfield Production Company Cause No. UIC-396

From: Cindy Kleinfelter <classifieds@ubstandard.com>
To: Jean Sweet <jsweet@utah.gov>
Date: 6/22/2012 8:05 AM
Subject: Re: Notice of Agency Action – Newfield Production Company Cause No. UIC-396

On 6/21/2012 5:41 PM, Jean Sweet wrote:

To Whom It May Concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: jsweet@utah.gov.

Please send proof of publication and billing to:

Division of Oil, Gas and Mining
PO Box 145801
Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet, Executive Secretary
Utah Div. of Oil, Gas & Mining
1594 West Temple, Suite 1210
Salt Lake City, UT
801-538-5329
jsweet@utah.gov

Received. Thank you. It will run June 26.
Cindy



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

June 21, 2012

VIA E-MAIL naclegal@mediaoneutah.com

Salt Lake Tribune
P. O. Box 45838
Salt Lake City, UT 84145

Subject: Notice of Agency Action – Newfield Production Company Cause No. UIC-396

To Whom It May Concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: jsweet@utah.gov.

Please send proof of publication and billing for **account #9001402352** to:

Division of Oil, Gas and Mining
PO Box 145801
Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet
Executive Secretary

Enclosure

From: "Fultz, Mark" <naclegal@mediaoneutah.com>
To: <jsweet@utah.gov>
Date: 6/22/2012 9:04 AM
Subject: Legal Notice - UIC 396
Attachments: OrderConf.pdf

AD# 802908
Run Trib/DNews - 6/26
Cost \$393.08
Thank you
Mark

Order Confirmation for Ad #0000802908-01

Client	DIV OF OIL-GAS & MINING	Payor Customer	DIV OF OIL-GAS & MINING
Client Phone	801-538-5340	Payor Phone	801-538-5340
Account#	9001402352	Payor Account	9001402352
Address	1594 W NORTH TEMP #1210,P.O. BOX 145801 SALT LAKE CITY, UT 84114 USA	Payor Address	1594 W NORTH TEMP #1210,P.O. BO SALT LAKE CITY, UT 84114
Fax	801-359-3940	Ordered By	Acct. Exec
EMail	earlenerussell@utah.gov	Jean	mfultz

Total Amount	\$393.08			
Payment Amt	\$0.00			
Amount Due	\$393.08	<u>Tear Sheets</u>	<u>Proofs</u>	<u>Affidavits</u>
		0	0	1

Payment Method PO Number UIC 396

Confirmation Notes:
Text: Jean

Ad Type	Ad Size	Color
Legal Liner	3.0 X 77 Li	<NONE>

Product	Placement	Position
Salt Lake Tribune::	Legal Liner Notice - 0998	Public Meeting/Hear-ing Notices
Scheduled Date(s):	06/26/2012	
Product	Placement	Position
Deseret News::	Legal Liner Notice - 0998	Public Meeting/Hear-ing Notices
Scheduled Date(s):	06/26/2012	
Product	Placement	Position
sltrib.com::	Legal Liner Notice - 0998	Public Meeting/Hear-ing Notices
Scheduled Date(s):	06/26/2012	
Product	Placement	Position
utahlegals.com::	utahlegals.com	utahlegals.com
Scheduled Date(s):	06/26/2012	

Order Confirmation for Ad #0000802908-01

Ad Content Proof Actual Size

Order Confirmation for Ad #0000802908-01

Ad Content Proof 135%

BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH
NOTICE OF AGENCY ACTION
CAUSE NO. UIC-396

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 9, 11, 12, 13, 16, 17, 18, 21, 22, 24, 27, AND 29, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Newfield Production Company, 1001 17th Street, Suite 2000, Denver, Colorado 80202, telephone 303-893-0102, for administrative approval of the following wells located in Duchesne County, Utah, for conversion to Class II injection wells:

Greater Monument Butte Unit:

Federal 15-9-9-16 well located in SW/4 SE/4, Section 9, Township 9 South, Range 16 East
API 43-013-33054
Walter Federal 4 well located in SE/4 NW/4, Section 11, Township 9 South, Range 16 East
API 43-013-15795
C-O Govt 1 well located in NW/4 SW/4, Section 12, Township 9 South, Range 16 East
API 43-013-15111
Monument Federal 24-12J well located in SE/4 SW/4, Section 12, Township 9 South, Range 16 East
API 43-013-31409
Federal 15-13-9-16 well located in SW/4 SE/4, Section 13, Township 9 South, Range 16 East
API 43-013-32648
State 1-16-9-16 well located in NE/4 NE/4, Section 16, Township 9 South, Range 16 East
API 43-013-33845
Federal 11-17-9-16 well located in NE/4 SW/4, Section 17, Township 9 South, Range 16 East
API 43-013-33034
Federal 15-18-9-16 well located in SW/4 SE/4, Section 18, Township 9 South, Range 16 East
API 43-013-33001
Federal 5-21-9-16 well located in SW/4 NW/4, Section 21, Township 9 South, Range 16 East
API 43-013-33020
Federal 11A-22-9-16 well located in NE/4 SW/4, Section 22, Township 9 South, Range 16 East
API 43-013-33149
Federal 1-24-9-16 well located in NE/4 NE/4, Section 24, Township 9 South, Range 16 East
API 43-013-33082
Federal 1-27-9-16 well located in NE/4 NE/4, Section 27, Township 9 South, Range 16 East
API 43-013-33350
Federal 3-29-9-16 well located in NE/4 NW/4, Section 29, Township 9 South, Range 16 East
API 43-013-33425

The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selected zones in the Green River Formation will be used for water injection. The maximum requested injection pressures and rates will be determined based on fracture gradient information submitted by Newfield Production Company.

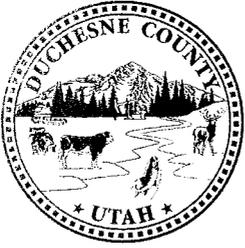
Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Brad Hill, Permitting Manager, at P.O. Box 145801, Salt Lake City, UT 84114-5801, phone number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 21st day of June, 2012.

STATE OF UTAH
DIVISION OF OIL, GAS & MINING

/s/
Brad Hill
Permitting Manager
802908

UPAXLP



*Duchesne County Planning, Zoning
& Community Development
734 North Center Street
P.O. Box 317
Duchesne, Utah 84021
(435) 738-1152
Fax (435) 738-5522*

June 26, 2012

Mr. Brad Hill, Permitting Manager
Division of Oil, Gas and Mining
PO Box 145801
Salt Lake City, UT 84114-5801

RECEIVED

JUN 27 2012

DIV. OF OIL, GAS & MINING

RE: Newfield Production Company Injection Wells (Causes No UIC-395 & 396)

Dear Mr. Hill:

We are in receipt of your notice regarding Newfield Production Company's request to convert 30 wells, located in Sections 5, 8, 9, 11, 12, 13, 16, 17, 18, 19, 21, 22, 23, 24, 27, 29 and 30, Township 9 South, Range 16 East, Duchesne County, to Class II injection wells.

Duchesne County is supportive of this request and recommends approval under conditions that your agency deems appropriate.

Thank you for the opportunity to comment.

Sincerely,

Mike Hyde, AICP
Community Development Administrator

pc: Newfield Production Company, Rt. 3, Box 3630, Myton, UT 84052

Send Payments to:
 Uintah Basin Standard
 268 S 200 E
 Roosevelt, Utah 84066
 Phone: 435-722-5131
 Fax: 435-722-4140



Invoice Number	Invoice Date
32048	6/26/2012

Advertiser No.	Invoice Amount	Due Date
2080	\$157.05	7/26/2012

RECEIVED
JUL 09 2012

DIV. OF OIL, GAS & MINING

DIVISION OF OIL GAS & MINING
 Rose Nolton
 1594 W. N. TEMPLE STE 121
 PO BOX 145801
 SALT LAKE CITY, UT 84114-5801

1 1/2% fee will be charged to all past due balances.

Amount Enclosed

Please detach top portion and return with your payment

INVOICE

Uintah Basin Standard		DIVISION OF OIL GAS & MINING			Invoice No. 32048	6/26/2012
Date	Order	Description	Ad Size	SubTotal	Sales Tax	Amount
6/26/2012	16066 UBS	UBS Legal Notice: Notice of Agcy Actn: Cause No. UIC-396 Pub. June 26, 2012				\$157.05
					Sub Total:	\$157.05
Total Transactions: 1					Total:	\$157.05

SUMMARY Advertiser No. 2080 Invoice No. 32048

1 1/2% fee will be charged to all past due balances.

Thank You for your business!

Thank you for advertising with us, we appreciate your business!

**DIVISION OF OIL, GAS AND MINING
UNDERGROUND INJECTION CONTROL PROGRAM
PERMIT
STATEMENT OF BASIS**

Applicant: Newfield Production Company **Well:** Monument Federal 24-12J-9-16

Location: 12/9S/16E **API:** 43-013-31409

Ownership Issues: The proposed well is located on BLM land. The well is located in the Greater Monument Butte Unit. Lands in the one-half mile radius of the well are administered by the BLM. The Federal Government is the mineral owner within the area of review (AOR). Newfield and other various individuals hold the leases in the unit. Newfield has provided a list of all surface, mineral and lease holders in the half-mile radius. Newfield is the operator of the Greater Monument Butte Unit. Newfield has submitted an affidavit stating that all owners and interest owners have been notified of their intent.

Well Integrity: The proposed well has surface casing set at 279 feet and has a cement top at the surface. A 5½ inch production casing is set at 5,685 feet. Although the cement bond log is inconclusive, calculations based on the cement reported in the well completion report indicate adequate bond in this well up to about 3,630 feet (calculated top of “lite” cement). A 2 7/8 inch tubing with a packer is proposed at 4,030 feet, but will need to be adjusted downward. A mechanical integrity test will be run on the well prior to injection. Based on surface locations, there are 9 producing wells, 4 injection wells, 1 shut-in well, and 1 recent P/A well (previously operations suspended, abandoned 9/19/2012) in the AOR. One of the producing wells is directionally drilled, with a surface location inside the AOR and a bottom hole location outside the AOR. In addition, there are 2 directionally drilled producing wells with surface locations outside the AOR and bottom hole locations inside the AOR. Finally, there is 1 approved surface location inside the AOR from which a directional well will be drilled to a bottom hole location outside the AOR. Many of the existing wells in the AOR have evidence of adequate casing and cement for the proposed injection interval. However, there are five wells which are dubious in that respect. The most limiting of these wells is the C-O Govt 1 well (API# 43-013-15111). Its CBL (11/28/1964) indicates a cement top at about 4,886 feet. To protect this wellbore Newfield will not perforate the Monument Federal 24-12J-9-16 well above 4,980 feet (see next paragraph). Also, because of the questionable quality of the light cement in the Federal 21-13Y well (43-013-31400) and the Monument Federal 41-14J well (43-013-31408), Newfield will also be required to regularly monitor the pressure between the surface casing and production casing in these two wells.

Revision (07/18/2013): In preparation for cement remediation in the C&O Govt #1 well, Newfield had a new CBL run by The Perforators, LLC on 6/18/2013. It was discovered that cement remediation had been done by a previous operator, but the Utah DOGM was apparently not notified, nor was an updated CBL submitted. The new CBL run for Newfield indicates

generally good cement up to a depth of 4100 feet and a higher interval of fairly good cement between 2682 and 2814 feet. Newfield recently completed cement remediation in the C&O Govt #2 well (43-013-15112). Subsequently, a new CBL was run by The Perforators, LLC on 7/10/2013. The new CBL indicates generally good cement between 3890 and 4072 feet, as well as between 3114 and 3342 feet. Inasmuch as these two wells were the principal obstacles to granting Newfield's requested injection interval (3,889'-5,634') in the Monument Federal 24-12J well, DOGM is prepared to raise the permitted injection top to 4,070', which includes all existing perforations.

Ground Water Protection: As interpreted from the Utah Geological Survey's DOE Project-Uinta Basin Water Draft Map (Paul B. Anderson, December 2, 2011), the base of moderately saline water (3000-10,000 mg/l TDS) is at a depth of approximately 1700 feet. The requested injection interval is between 3,889 feet and 5,634 feet in the Green River Formation. (See **Revision 7/18/2013** above) However, as described in the previous paragraph, the top of good cement bond is at about 4,886 feet in the C-O Govt 1 well, located within the AOR, about 1/3 mile northwest of Monument Federal 24-12J-9-16 well. For this reason, it is recommended that the top of the injection interval be permitted no higher than a depth of 4,980 feet in the proposed injection well. Information submitted by Newfield indicates that the fracture gradient for the 24-12J-9-16 well is 0.64 psi/ft., which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 1,114 psig. The requested maximum pressure is 1,114 psig. The anticipated average injection pressure is 1100 psig. Injection at this pressure should not initiate any new fractures or propagate existing fractures in the adjacent confining intervals. Any ground water present should be adequately protected.

Oil/Gas& Other Mineral Resources Protection: The Board of Oil, Gas & Mining approved the Greater Monument Butte Unit on December 1, 2009. Correlative rights issues were addressed at this time. Previous reviews in this area indicate that other mineral resources in the area have been protected or are not at issue.

Bonding: Bonded with the BLM

Actions Taken and Further Approvals Needed: A notice of agency action has been sent to the Salt Lake Tribune and the Uinta Basin Standard. A casing/tubing pressure test will be required prior to injection. It is recommended that approval of this application be granted.

Note: Applicable technical publications concerning water resources in the general vicinity of this project have been reviewed and taken into consideration during the permit review process.

Reviewer(s): Mark Reinbold

Date: 10/4/2012 (rev. 7/18/2013)



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

December 17, 2012

Newfield Production Company
1001 Seventeenth Street, Suite 2000
Denver, CO 80202

Subject: Greater Monument Butte Unit Well: Monument Federal 24-12J, Section 12, Township 9 South, Range 16 East, SLBM, Duchesne County, Utah, API Well # 43-013-31409

Gentlemen:

Pursuant to Utah Admin. Code R649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced well to a Class II injection well. Accordingly, the following stipulations shall apply for full compliance with this approval:

1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.
2. Conformance with all conditions and requirements of the complete application submitted by Newfield Production Company.
3. A casing\tubing pressure test shall be conducted prior to commencing injection.
4. Pressure shall be monitored between the surface casing and the production casing on a regular basis. Any pressure changes observed shall be reported to the Division immediately.
5. Because of questionable quality of light cement in the Monument Federal 41-14J (API # 43-013-31408) well and the Federal 21-13Y (API # 43-013-31400), located within the Area of Review, pressure shall be monitored in these wells between the surface casing and the production casing on a regular basis. Any pressure changes observed shall be reported to the Division immediately.
6. The top of the injection interval shall be limited to a depth no higher than **4,980** feet in the Monument Federal 24-12J well.



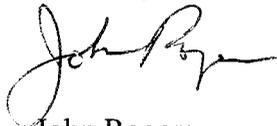
December 17, 2012

Newfield – Monument Federal 24-12J

Page 2

A final approval to commence injection will be issued upon satisfactory completion of the listed stipulations. If you have any questions regarding this approval or the necessary requirements, please contact Mark Reinbold at 801-538-5333 or Brad Hill at 801-538-5315.

Sincerely,

A handwritten signature in black ink, appearing to read "John Rogers". The signature is written in a cursive style with a large initial "J".

John Rogers
Associate Director

JR/MLR/js

cc: Bruce Suchomel, Environmental Protection Agency
Bureau of Land Management, Vernal
Duchesne County
Newfield Production Company, Myton
Well File

N:\O&G Reviewed Docs\ChronFile\UIC



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

December 17, 2012

Revised July 23, 2013

Newfield Production Company
1001 Seventeenth Street, Suite 2000
Denver, CO 80202

Subject: Greater Monument Butte Unit Well; Monument Federal 24-12J, Section 12, Township 9 South, Range 16 East, SLBM, Duchesne County, Utah, API Well # 43-013-31409

Gentlemen:

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5. Because of questionable quality of light cement in the Monument Federal 41-14J (API # 43-013-31408) well and the Federal 21-13Y (API # 43-013-31400), located within the Area of Review, pressure shall be monitored in these wells between the surface casing and the production casing on a regular basis. Any pressure changes observed shall be reported to the Division immediately.
6. The top of the injection interval shall be limited to a depth no higher than ~~4,980 feet~~ **revised to 4,070 feet** in the Monument Federal 24-12J well.



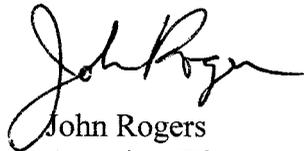
July 23, 2013

Newfield – Monument Federal 24-12J

Page 2

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Sincerely,

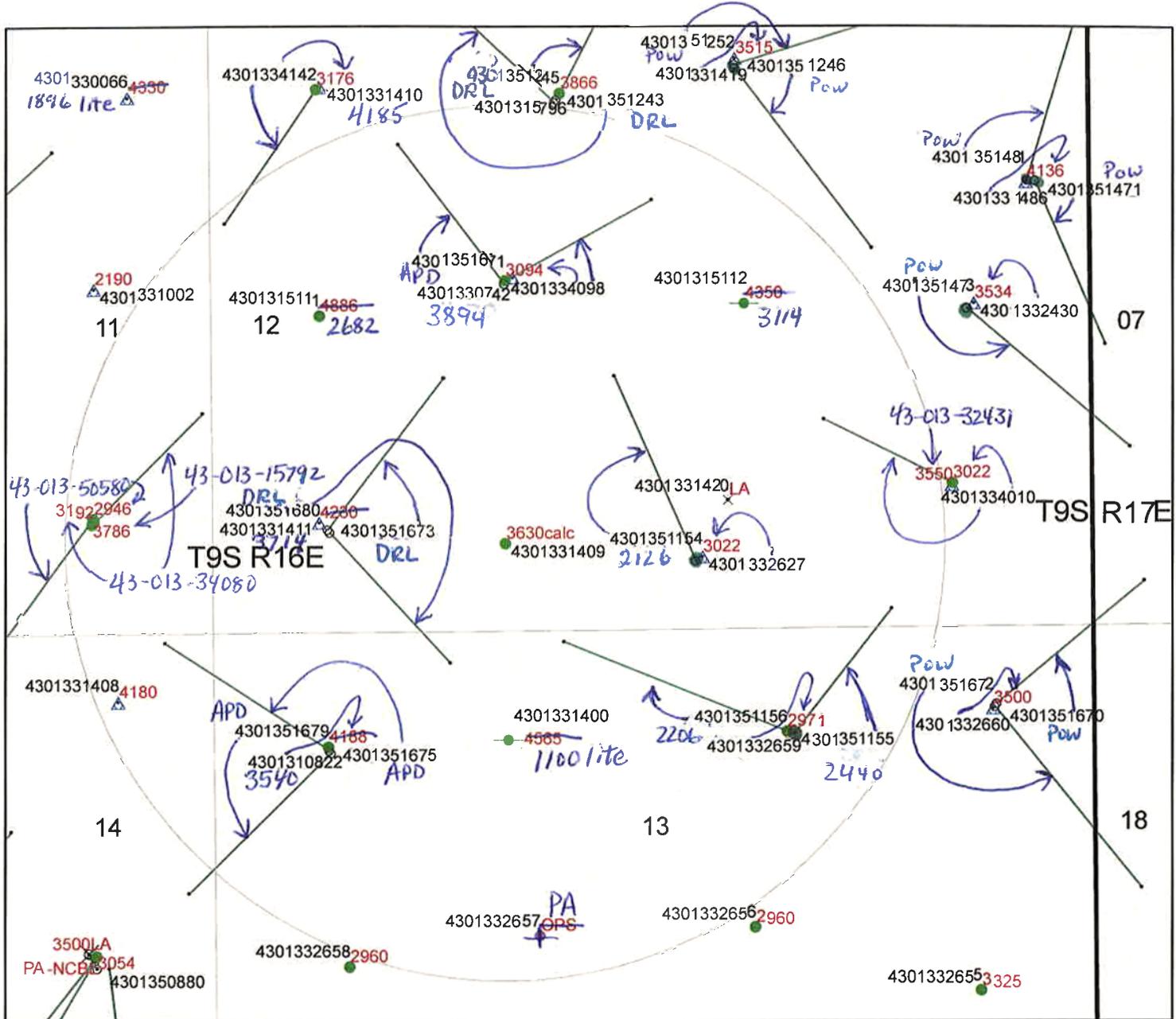
A handwritten signature in black ink, appearing to read "John Rogers". The signature is fluid and cursive, with the first name "John" being more prominent.

John Rogers
Associate Director

JR/BGH/MLR/js

cc: Bruce Suchomel, Environmental Protection Agency
Bureau of Land Management, Vernal
Duchesne County
Newfield Production Company, Myton
Well File

N:\O&G Reviewed Docs\ChronFile\UIC



Cement Bond Tops
 MONUMENT FEDERAL 24-12J-9-16
 API #43-013-31409
 UIC 396.4
 (revised 7/18/2013)

Legend

- Buffer_of_SGID93_ENERGY_DNROilGasWells_137
- SGID93_ENERGY_DNROilGasWells
- SGID93_ENERGY_DNROilGasWells**
- GIS_STAT_TYPE**
- APD
- ⊕ DRL
- ⚡ GIW
- _{gs} GSW
- × LA
- LOC
- OPS
- ⊗ PA
- ⊗ PGW
- POW
- ▲ RET
- ⊗ SGW
- SOW
- ⊗ TA
- TW
- ⊗ WDW
- ▲ WIW
- WSW
- SGID93 BOUNDARIES Counties
- SGID93_ENERGY_DNROilGasWells_HDBottom
- SGID93_ENERGY_DNROilGasWells_HDPath
- Wells-CbltopsMaster08_31_12



1870calc = approx cement top calculated from well completion report



GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

UNDERGROUND INJECTION CONTROL PERMIT

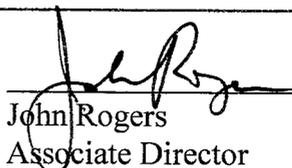
Cause No. UIC-396

Operator: Newfield Production Company
Well: Monument Federal 24-12J
Location: Section 12, Township 9 South, Range 16 East
County: Duchesne
API No.: 43-013-31409
Well Type: Enhanced Recovery (waterflood)

Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on December 17, 2012 (revised July 23, 2013).
2. Maximum Allowable Injection Pressure: 1,114 psig
3. Maximum Allowable Injection Rate: (restricted by pressure limitation)
4. Injection Interval: Green River Formation (4,070' – 5,634')
5. Because of questionable quality of light cement in the Monument Federal 41-14J (API # 43-013-31408) well and the Federal 21-13Y (API # 43-013-31400), located within the Area of Review, pressure shall be monitored in these wells between the surface casing and the production casing on a regular basis. Any pressure changes observed shall be reported to the Division immediately.
6. Any subsequent wells drilled within a ½ mile radius of this well shall have production casing cement brought up to or above the top of the unitized interval for the Greater Monument Butte Unit.

Approved by: _____


John Rogers
Associate Director

Date

11/13/2014

JR/MLR/js

cc: Bruce Suchomel, Environmental Protection Agency
Bureau of Land Management, Vernal
Jill Loyle, Newfield Production Company, Denver
Newfield Production Company, Myton
Duchesne County
Well File

N:\O&G Reviewed Docs\ChronFile\UIC



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: U-035521-A
1. TYPE OF WELL Water Injection Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY	7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052	8. WELL NAME and NUMBER: MONUMENT FED 24-12J
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0539 FSL 1777 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 12 Township: 09.0S Range: 16.0E Meridian: S	9. API NUMBER: 43013314090000
PHONE NUMBER: 435 646-4825 Ext	9. FIELD and POOL or WILDCAT: MONUMENT BUTTE
	COUNTY: DUCHESNE
	STATE: UTAH

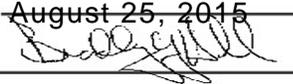
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/20/2014	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Step Rate Test"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

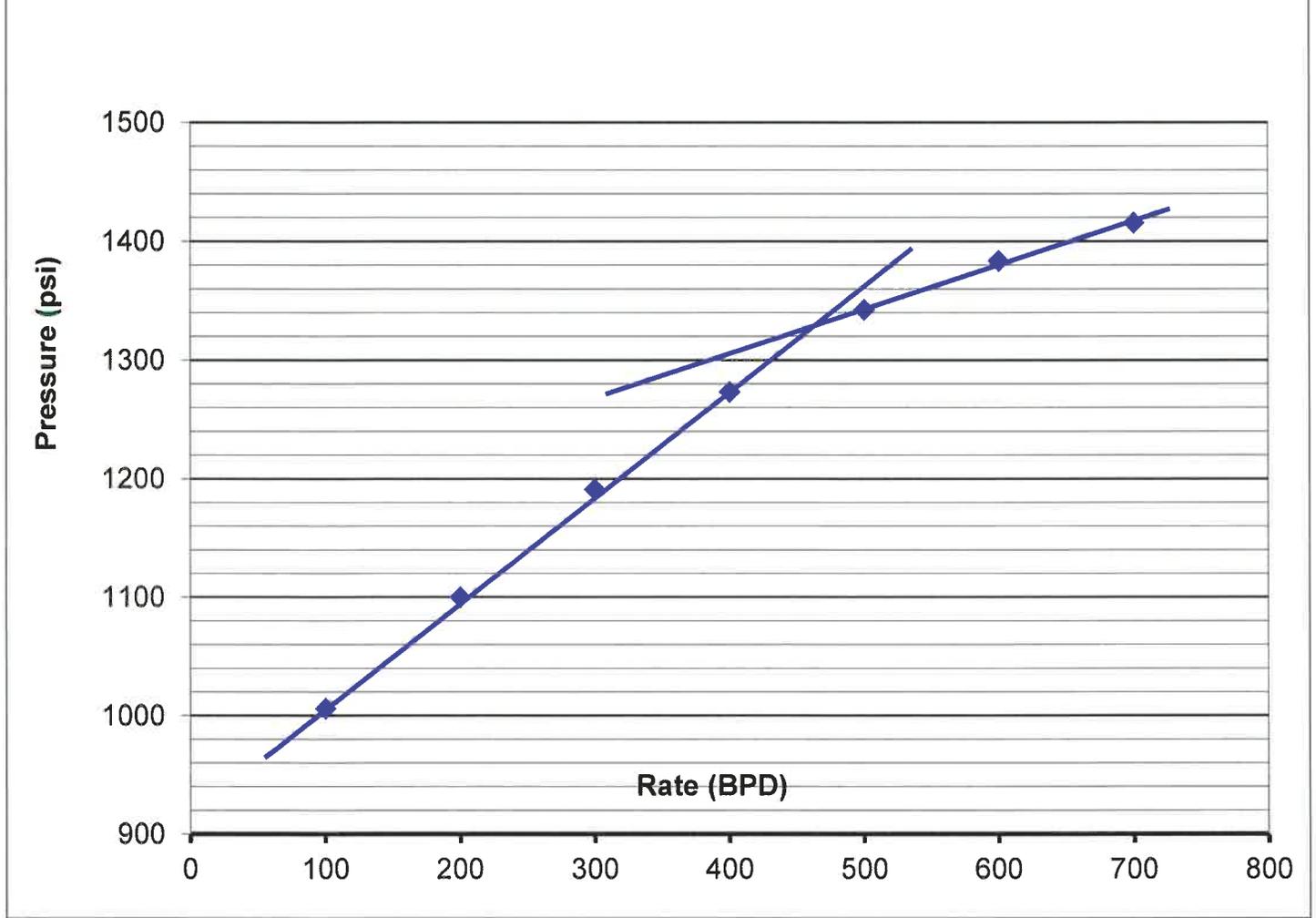
A step rate test was conducted on the subject well on 11/20/2014. Results from the test indicate that the fracture gradient is 0.765 psi/ft. Therefore, Newfield is requesting that the maximum allowable injection pressure (MAIP) be changed from 1114 psi to 1330 psi.

Accepted by the Utah Division of Oil, Gas and Mining

Date: August 25, 2015
By: 

NAME (PLEASE PRINT) Lucy Chavez-Naupoto	PHONE NUMBER 435 646-4874	TITLE Water Services Technician
SIGNATURE N/A	DATE 8/24/2015	

**Monument Federal 24-12J-9-16
Greater Monument Butte Unit
Step Rate Test
November 20, 2014**



Start Pressure:	960 psi	Step	Rate(bpd)	Pressure(psi)
		1	100	1006
		2	200	1100
Top Perforation:	4080 feet	3	300	1191
Fracture pressure (Pfp):	1330 psi	4	400	1273
FG:	0.765 psi/ft	5	500	1342
		6	600	1383
		7	700	1415

11/25/2014 2:36:09 PM

N87695				N87695			
Date	Time	Time Zone	Absolute Pressure (psi)	Date	Time	Time Zone	Absolute Pressure (psi)
11/20/2014	9:30:01 AM	-07:00	962.0	11/20/2014	1:20:01 PM	-07:00	1407.0
11/20/2014	9:35:01 AM	-07:00	961.8	11/20/2014	1:25:01 PM	-07:00	1410.4
11/20/2014	9:40:01 AM	-07:00	961.6	11/20/2014	1:30:01 PM	-07:00	1415.4
11/20/2014	9:45:01 AM	-07:00	961.8				
11/20/2014	9:50:01 AM	-07:00	961.4				
11/20/2014	9:55:01 AM	-07:00	960.8				
11/20/2014	10:00:01 AM	-07:00	960.4				
11/20/2014	10:05:01 AM	-07:00	976.0				
11/20/2014	10:10:01 AM	-07:00	983.6				
11/20/2014	10:15:01 AM	-07:00	990.0				
11/20/2014	10:20:01 AM	-07:00	996.2				
11/20/2014	10:25:01 AM	-07:00	1001.6				
11/20/2014	10:30:01 AM	-07:00	1006.2				
11/20/2014	10:35:01 AM	-07:00	1040.0				
11/20/2014	10:40:01 AM	-07:00	1061.6				
11/20/2014	10:45:01 AM	-07:00	1074.4				
11/20/2014	10:50:01 AM	-07:00	1081.4				
11/20/2014	10:55:01 AM	-07:00	1090.8				
11/20/2014	11:00:01 AM	-07:00	1100.2				
11/20/2014	11:05:01 AM	-07:00	1126.4				
11/20/2014	11:10:01 AM	-07:00	1148.6				
11/20/2014	11:15:01 AM	-07:00	1161.2				
11/20/2014	11:20:01 AM	-07:00	1173.0				
11/20/2014	11:25:01 AM	-07:00	1182.8				
11/20/2014	11:30:01 AM	-07:00	1190.6				
11/20/2014	11:35:01 AM	-07:00	1213.2				
11/20/2014	11:40:01 AM	-07:00	1228.4				
11/20/2014	11:45:01 AM	-07:00	1244.4				
11/20/2014	11:50:01 AM	-07:00	1254.6				
11/20/2014	11:55:01 AM	-07:00	1266.4				
11/20/2014	12:00:02 PM	-07:00	1273.2				
11/20/2014	12:05:01 PM	-07:00	1295.4				
11/20/2014	12:10:01 PM	-07:00	1309.6				
11/20/2014	12:15:01 PM	-07:00	1321.2				
11/20/2014	12:20:01 PM	-07:00	1329.8				
11/20/2014	12:25:01 PM	-07:00	1335.2				
11/20/2014	12:30:01 PM	-07:00	1341.8				
11/20/2014	12:35:01 PM	-07:00	1353.8				
11/20/2014	12:40:01 PM	-07:00	1361.6				
11/20/2014	12:45:01 PM	-07:00	1369.4				
11/20/2014	12:50:01 PM	-07:00	1373.2				
11/20/2014	12:55:01 PM	-07:00	1378.2				
11/20/2014	1:00:01 PM	-07:00	1382.6				
11/20/2014	1:05:01 PM	-07:00	1393.0				
11/20/2014	1:10:01 PM	-07:00	1399.0				
11/20/2014	1:15:01 PM	-07:00	1402.8				

11/25/2014 2:36:56 PM

Date	Time	Time Zone	N87695 Absolute Pressure (psi)
11/20/2014	1:30:21 PM	-07:00	1416.2
11/20/2014	1:31:21 PM	-07:00	1391.0
11/20/2014	1:32:21 PM	-07:00	1382.0
11/20/2014	1:33:21 PM	-07:00	1374.8
11/20/2014	1:34:21 PM	-07:00	1367.8
11/20/2014	1:35:21 PM	-07:00	1361.6
11/20/2014	1:36:21 PM	-07:00	1356.2
11/20/2014	1:37:21 PM	-07:00	1350.8
11/20/2014	1:38:21 PM	-07:00	1346.2
11/20/2014	1:39:21 PM	-07:00	1341.8
11/20/2014	1:40:21 PM	-07:00	1337.8
11/20/2014	1:41:21 PM	-07:00	1333.8
11/20/2014	1:42:21 PM	-07:00	1330.0
11/20/2014	1:43:22 PM	-07:00	1326.6
11/20/2014	1:44:22 PM	-07:00	1322.6
11/20/2014	1:45:22 PM	-07:00	1319.2
11/20/2014	1:46:22 PM	-07:00	1316.2
11/20/2014	1:47:22 PM	-07:00	1312.6
11/20/2014	1:48:22 PM	-07:00	1311.0
11/20/2014	1:49:23 PM	-07:00	1308.6
11/20/2014	1:50:23 PM	-07:00	1305.8
11/20/2014	1:51:23 PM	-07:00	1303.8
11/20/2014	1:52:23 PM	-07:00	1301.6
11/20/2014	1:53:23 PM	-07:00	1298.8
11/20/2014	1:54:23 PM	-07:00	1296.6
11/20/2014	1:55:23 PM	-07:00	1294.4
11/20/2014	1:56:23 PM	-07:00	1292.6
11/20/2014	1:57:24 PM	-07:00	1290.2
11/20/2014	1:58:23 PM	-07:00	1288.6
11/20/2014	1:59:24 PM	-07:00	1286.8
11/20/2014	2:00:23 PM	-07:00	1284.8

Monument Federal 24 12J 9 16 SR1 & ISIF (11 20 14)

11/25/2014 2:38:08 PM

