

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**CONFIDENTIAL**

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
DRILL  DEEPEN  PLUG BACK

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

2. NAME OF OPERATOR  
Equitable Resources Energy Company

3. ADDRESS OF OPERATOR  
1601 Lewis Avenue; Billings, MT 59102

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
At surface SE NW Section 20, T9S, R16E 1980' FNL, 1980' FEL  
At proposed prod. zone 603 603

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
From Myton, UT approximately 10 mi SW

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  
16. NO. OF ACRES IN LEASE 640  
17. NO. OF ACRES ASSIGNED TO THIS WELL 40

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
19. PROPOSED DEPTH 5800'  
20. ROTARY OR CABLE TOOLS Rotary

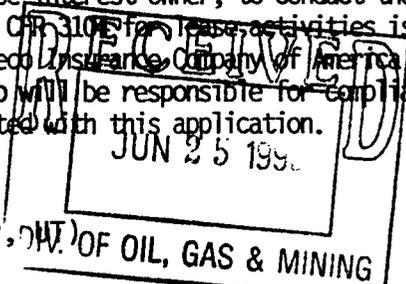
21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
6,097' GL  
22. APPROX. DATE WORK WILL START\*  
June 1, 1996

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
See attached Drilling Program/Casing Design				

Operator intends to drill this well in accordance with the attached EXHIBITS. A listing of EXHIBITS is also attached.

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 3105 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.



ORIGINAL: Bureau of Land Management (Vernal, UT)  
COPY: Utah Division of Oil, Gas and Mining (Salt Lake City, UT)

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

24. SIGNED Bobbie Schuman TITLE Regulatory and Environmental Specialist DATE April 17, 1996  
Bobbie Schuman

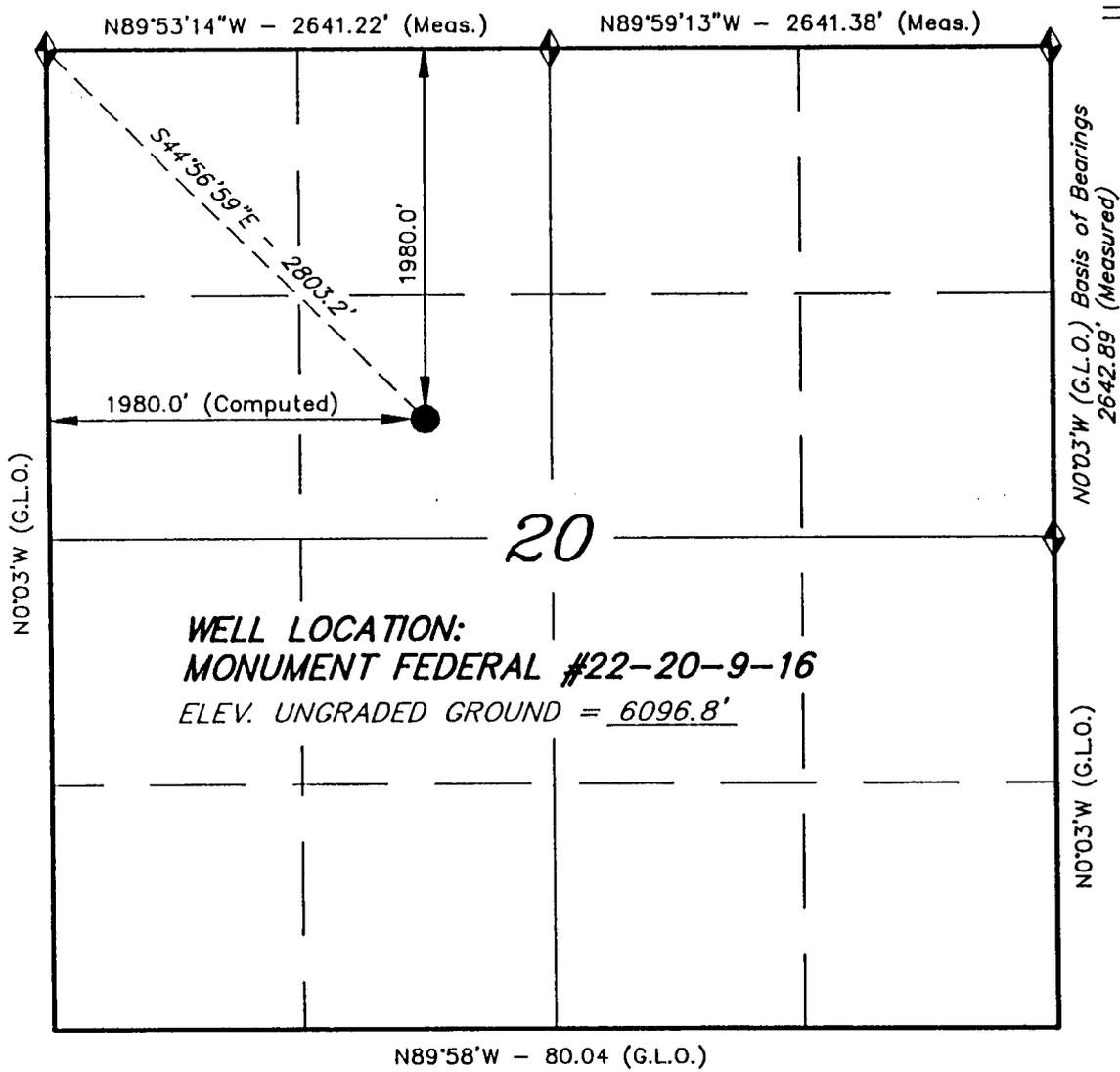
PERMIT NO. 43-013-31681 APPROVAL DATE \_\_\_\_\_  
APPROVED BY [Signature] TITLE Petroleum Engineer DATE 7/10/96  
CONDITIONS OF APPROVAL, IF ANY \_\_\_\_\_

\*See Instructions On Reverse Side

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

**EQUITABLE RESOURCES ENERGY CO.**

WELL LOCATION, MONUMENT FEDERAL #22-20-9-16, LOCATED AS SHOWN IN THE SE 1/4 NW 1/4 OF SECTION 20, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



**WELL LOCATION:**  
**MONUMENT FEDERAL #22-20-9-16**  
 ELEV. UNGRADED GROUND = 6096.8'



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

**STACY W. STEWART**  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 144102  
 STATE OF UTAH

<b>TRI STATE LAND SURVEYING &amp; CONSULTING</b>	
38 WEST 100 NORTH - VERNAL, UTAH 84078 (801) 781-2501	
SCALE: 1" = 1000'	SURVEYED BY: S.S. D.S.
DATE: 3-13-96	WEATHER: COLD & WINDY
NOTES:	FILE #

◆ = SECTION CORNERS LOCATED  
 BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (MYTON SW)

# **CONFIDENTIAL**

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

Equitable Resources Energy Company,  
Balcron Oil Division  
1601 Lewis Avenue  
Billings, MT 59102  
(406) 259-7860

## EXHIBITS

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

6/19/95

PROPOSED DRILLING PROGRAM

EQUITABLE RESOURCES ENERGY COMPANY

Monument Federal #22-20-9-16

SE NW Section 20, T9S, R16E

Duchesne County, Utah

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

1. ESTIMATED IMPORTANT GEOLOGICAL MARKERS:

See Geologic Prognosis (EXHIBIT "C")

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

See Geologic Prognosis (EXHIBIT "C")

3. OPERATOR'S MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

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

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

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

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

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

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

4. PROPOSED CASING AND CEMENTING PROGRAM:

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

b. All potentially productive hydrocarbon zones will be isolated.

c. Casing designs are based on factors of burst: 1.00, collapse: 1.125, and joint strength: 1.8.

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

e. For details of casing, cement program, drilling fluid program, and proposed mud program, see the following attachment:

Drilling Program/Casing Design (EXHIBIT "D")

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

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

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

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

6. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

a. The drilling operations for this well will begin as soon after APD approval as possible.

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.

7. OTHER

- a. Operator requests a variance to regulations requiring a straight run blooie line.
- b. Operator requests a variance to regulations requiring an automatic ignitor or continuous pilot light on the blooie line.

Multi-Point Surface Use and Operations Plan

EQUITABLE RESOURCES ENERGY COMPANY  
MONUMENT FEDERAL #22-20-9-16  
SE NW SECTION 20, 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' North and 200' & 250' East.
- B. The Monument Federal #22-20-9-16 is located 10 miles Southwest of Myton Utah in the SE1/4 NW1/4 Section 20, T9S, R16E, SLB&M, Duchesne County, Utah. To reach the 22-20-9-16, 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 6.3 miles to a road intersection, turn right and continue 9.1 miles to road intersection. Turn left and proceed 0.2 miles to the proposed access road sign. Follow flags 0.2 miles to location.
- C. Access roads - refer to Maps "A" and "B".
- D. Access roads within a one-mile radius - refer to map "B".
- E. The existing roads will be maintained in the same or better condition as existed prior to the commencement of operations and said maintenance will continue until final abandonment and reclamation of the well location.

**2. Planned Access Roads: Refer to Map "B"**

Approximately 0.2 miles 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 - none.
- G. Surface materials - all construction materials will be native material taken from onsite.
- H. Gates, cattleguards or fence cuts - none required.
- I. Road maintenance - during both the drilling and production phase of operations, the road surface and shoulders will be kept in a safe and useable condition and will be maintained in accordance with the original construction standards. All drainage ditches and culverts

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

- J. The proposed access road has been centerline flagged.
- K. If a right-of-way is required please consider this APD the application for said right-of-way.

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

Please Refer to Map "C"

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

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

A. Existing

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

B. New Facilities Contemplated

- 1. All production facilities will be located on the disturbed portion of the well pad and at a minimum of twenty-five (25) feet from the toe of the backslope or toe of the fill slope.
- 2. The production facilities will consist primarily of a pumping unit, Two tanks and an emergency pit. A diagram showing the proposed production facility layout is included in this APD.
- 3. Production facilities will be accommodated on the existing well pad. Construction materials required for installation of the production facilities will be obtained from the site; any additional materials required will be purchased from a local supplier having

a permitted (private) source of materials within the area.

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

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

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

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

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

For Pipeline:

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

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

#### **5. Location and Type of Water Supply**

A. Water to be used for the drilling of these wells will be hauled by truck over the roads described in item #1 and item #2, from a well owned by Owen Dale Anderson of Vernal Utah or from a spring owned by Joe Shields of Myton Utah. Source will be determined by sundry notice closer to the

beginning of drilling operations.

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

**6. Source of Construction Materials**

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

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

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

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

D. There are no trees on this location.

**7. Methods of Handling Waste Materials:**

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

B. Drilling fluids - including salts and chemicals will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be removed and disposed of at an approved waste disposal facility within one hundred twenty (120) days after termination of drilling and completion activities.

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

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

- C. Produced fluids - liquid hydrocarbons produced during completion operations will be placed in test tanks on the location. Produced waste water will be confined to a lined pit (reserve pit) or storage tank for a period not to exceed ninety (90) days after initial production. During the ninety (90) day period, in accordance with Onshore Order #7, an application for approval of a permanent disposal method and location, along with the required water analysis, shall be submitted for the Authorized Officer's approval. Failure to file an application within the time frame allowed will be considered an incidence of noncompliance.

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

- D. Sewage - self-contained, chemical toilets will be provided for human waste disposal. Upon completion of operations, or as needed, the toilet holding tanks will be pumped and the contents thereof disposed of in the nearest, approved, sewage disposal facility.
- E. Garbage and other waste material - garbage, trash and other waste materials will be collected in a portable, self-contained and fully-enclosed trash cage during drilling and completion operations. Upon completion of operations (or as needed) the accumulated trash will be disposed of at an authorized sanitary landfill. No trash will be burned on location or placed in the reserve pit.
- F. Immediately after removal of the drilling rig, all debris and other waste materials not contained in the trash cage will be cleaned up and removed from the well location. No adverse materials will be left on the location. Any open pits will be fenced during the drilling operation and the fencing will be maintained until such time as the pits are backfilled.
- G. The reserve and/or production pit will be constructed on the existing location and will not be located in natural drainages where a flood hazard exists or surface runoff will destroy or damage the pit walls. All pits will be constructed so as not to leak, break, or allow the discharge of liquids therefrom.

**8. Ancillary Facilities:**

None anticipated.

## 9. Wellsite Layout:

- A. Plat #1 shows the drill site layout as staked. Cross sections have been drafted to visualize the planned cuts and fills across the location. An average minimum of six (6) inches of topsoil will be stripped from the location (including areas of cut, fill, and/or subsoil storage) and stockpiled for future reclamation of the well site. Refer to Figure #1 for the location of the topsoil and subsoil stockpiles. The reserve pit will be on the South side of location. Access will be from the East between corner #2 and corner #3. Corner #6 will be rounded to avoid excessive cut.
- B. Plat #2 is a diagram showing the rig layout. No permanent living facilities are planned. There may be as many as three (3) trailers on location during drilling operation.
- C. A completion rig will be moved onto location for completion operations after drilling operations have been completed and the drilling rig has been moved off location.
- D. A diagram showing the proposed production facility layout is included in this APD.
- E. The reserve pit will be constructed so as to be capable of holding 12,000 bbls. of fluid.

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

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

device, before it is attached to the corner posts.

The fourth side of the reserve pit will be fenced immediately upon removal of the drilling rig and the fencing will be maintained until the pit is backfilled.

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

**10. Plans for Reclamation of the Surface:**

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

**A. Production**

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

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

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

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

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

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

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

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

#### B. Dry Hole/Abandoned Location

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

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

the time of abandonment.

2. All disturbed surfaces will be recontoured to the approximate natural contours and reseeded according to BLM specifications. Reclamation of the well pad and access road will be performed as soon as practical after final abandonment and 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 will not be required for this location.

**13. Lessee's or Operator's Representative:**

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,

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.

6-24-96  
Date

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



## Well Prognosis

<b>Well Name</b> Monument Federal #22-20-9-16					<b>Control Well</b>				
<b>Location</b> SE/NW Section 20-T9S-R16E (1980 FNL, 1980 FEL)					<b>Operator</b> Nova Petroleum				
<b>County/State</b> Duchesne County, Utah					<b>Well Name</b> Fed. N.G.C. Nova 31-20G				
<b>Field</b> Monument Butte			<b>Well Type</b> Step Out		<b>Location</b> NW/NE Sec. 20-T9S-R16E				
<b>GL (Ung)</b> 6097		<b>EST. KB</b> 6106		<b>Total Depth</b> 5800		<b>KB</b> 6063			

Formation	Prognosis		Sample Top		Control Well	High/Low		
	Depth	Datum	Depth	Datum	Datum	Prog	Control	Deviation
UINTA	SURFACE							
GREEN RIVER	1621	4485			4460			
HORSEBENCH SS	2190	3916			3891			
2ND GARDEN GULCH	3892	2214			2239			
Y-3 (PAY)	4438	1668			1693			
YELLOW MARKER	4518	1588			1613			
DOUGLAS CREEK MKR	4609	1497			1472			
R-1 (PAY)	4674	1432			1457			
R-2 (PAY)	4762	1344			1369			
R-5 (PAY)	4826	1280			1305			
GREEN MARKER	5006	1100			1125			
G-3 (PAY)	5062	1044			1069			
G-5 (PAY)	5150	956			981			
G-6 (PAY)	5532	574			599			
CARBONATE MARKER	5564	542			567			
B-1 (PAY)	5596	510			535			
TD	5800							

**Samples**

50' FROM 1500' TO 4000'

20' FROM 4000' TO TD

5' THROUGH EXPECTED PAY

5' THROUGH DRILLING BREAKS

**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 CSNG TO TD

LDT/CNL FROM 4000' TO TD

**Cores**

Core #1

Core #2

Core #3

Core #4

**Mud Logger**

Company: \_\_\_\_\_

From: 1500 To: TD

Type: \_\_\_\_\_

Logger: \_\_\_\_\_

Phone # \_\_\_\_\_

Fax # \_\_\_\_\_

**Comments:**

\_\_\_\_\_

\_\_\_\_\_

**Report To:** 1st Name: DAVE BICKERSTAFF Phone # (406)259-7860 wk. (406)245-2261 hm.

2nd Name: KEVEN REINSCIIDT Phone # (406)259-7860 wk. (406)248-7026 hm.

**Prepared By:** DAVE BICKERSTAFF Phone # \_\_\_\_\_ wk. \_\_\_\_\_ hm.



**EQUITABLE RESOURCES  
ENERGY COMPANY  
WESTERN REGION**

**DRILLING PROGRAM**

WELL NAME: Monument Federal #22-20-9-16      DATE: 5-21-96  
 PROSPECT/FIELD: Monument Butte  
 LOCATION: SE/NW Section 22 Twn.9S Rge.16E  
 COUNTY: Duchesne  
 STATE: Utah

TOTAL DEPTH: 5800'

HOLE SIZE	INTERVAL
12 1/4"	Surface to 260'
7 7/8"	260' to 5800'

CASING STRING TYPE	INTERVAL		CASING		
	FROM	TO	SIZE	WEIGHT	GRADE
Surface Casing	0'	260'	8 5/8"	24	J55
Production Casing	0'	5800'	5 1/2"	15.50	K55

**CEMENT PROGRAM**

Surface Casing      150 sacks class "G" with 2% CaCl and 1/4 lb/sack Flocele.  
 (Cement will be circulated to surface.)

Production Casing      250 sacks Thrifty Lite and 400 sacks 50-50 Poz.  
 (Actual cement volumes will be calculated from caliper log with cement top at 2000')

**PRELIMINARY DRILLING FLUID PROGRAM**

TYPE	FROM	TO	WEIGHT	PLAS. VIS	YIELD POINT
Air and Air Mist	0'	260'	N.A.	N.A.	N.A.
Air/Air Mist/KCl wtr	260'	T.D.	8.7-8.9	N.A.	N.A.

**COMMENTS**

1.) No cores or tests are planned for this well.

# EQUITABLE RESOURCES ENERGY COMPANY

Operator: EREC	Well Name: Monument Fed. 22-20
Project ID:	Location: Duchesne, Utah

Design Parameters:

Mud weight ( 8.90 ppg) : 0.462 psi/ft  
 Shut in surface pressure : 2102 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)

Length (feet)	Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost		
1	5,800	5-1/2"	15.50	K-55	ST&C	5,800	4.825		
	Collapse Load (psi)	Strgth (psi)	S.F.	Burst Load (psi)	Min Int Strgth (psi)	Yield S.F.	Tension Load (kips)	Strgth (kips)	S.F.
1	2682	4040	1.506	2682	4810	1.79	89.90	222	2.47 J

Prepared by : *McCoskery, Billings, Montana*

Date : 05-21-1996

Remarks :

Design is for a Production string.

Minimum segment length for the 5,800 foot well is 1,500 feet.

The mud gradient and bottom hole pressures (for burst) are 0.462 psi/ft and 2,682 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 - (uniaxial) burst, 1.8 - API 8rd tension, 1.6 - buttress tension, 1.5 - body yield tension, and 1.6 - EUE 8rd tension. Collapse strength under axial tension was calculated based on the Westcott, Dunlop and Kemler curve. Engineering responsibility for use of this design will be that of the purchaser.  
 Costs for this design are based on a 1987 pricing model. (Version 1.07)

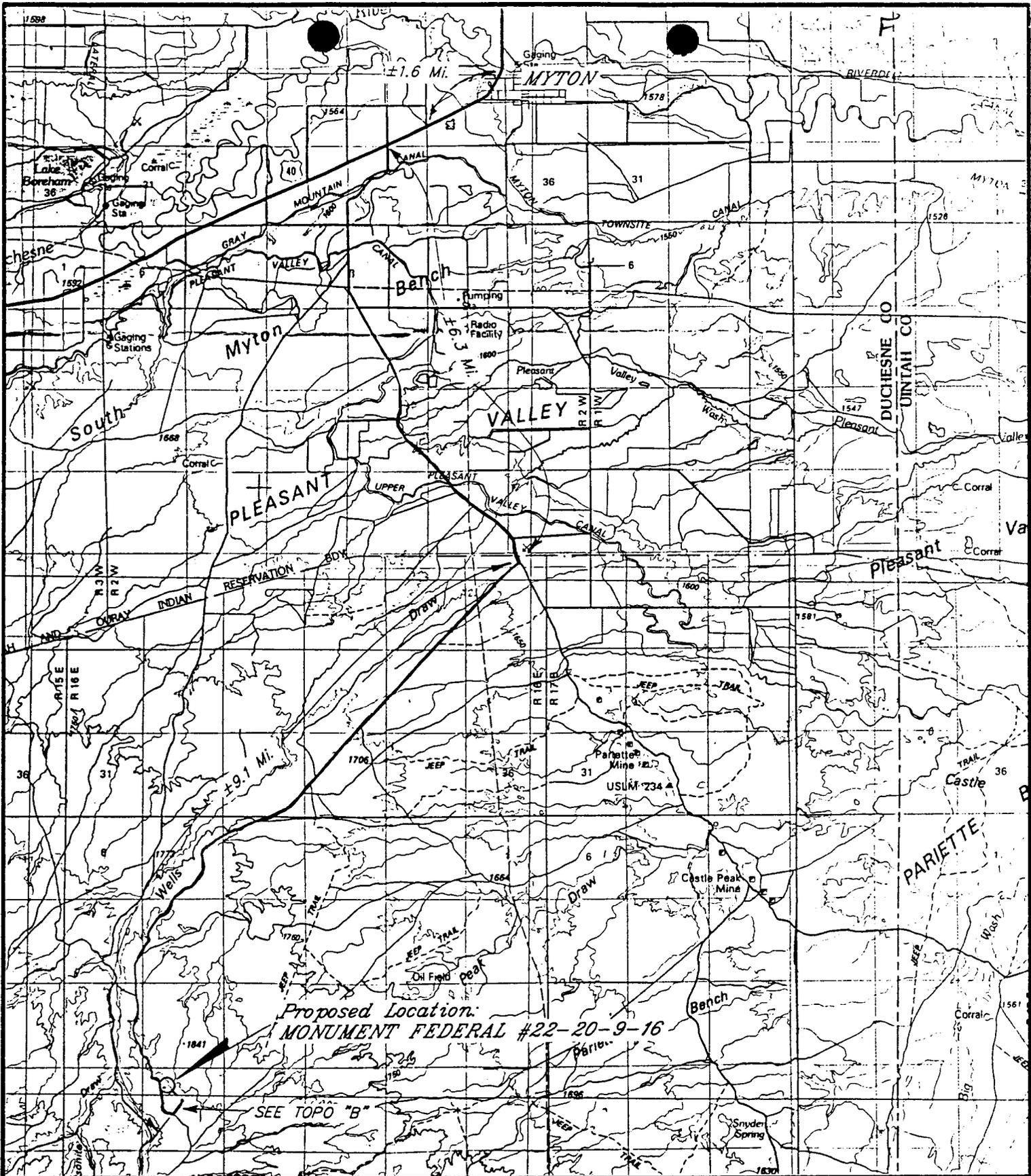
- A. Hazardous chemicals 10,000 pounds of which will most likely be used, produced, stored, transported, or disposed of in association with the proposed action of drilling, completing and producing this well:

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

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

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

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



Proposed Location  
**MONUMENT FEDERAL #22-20-9-16**

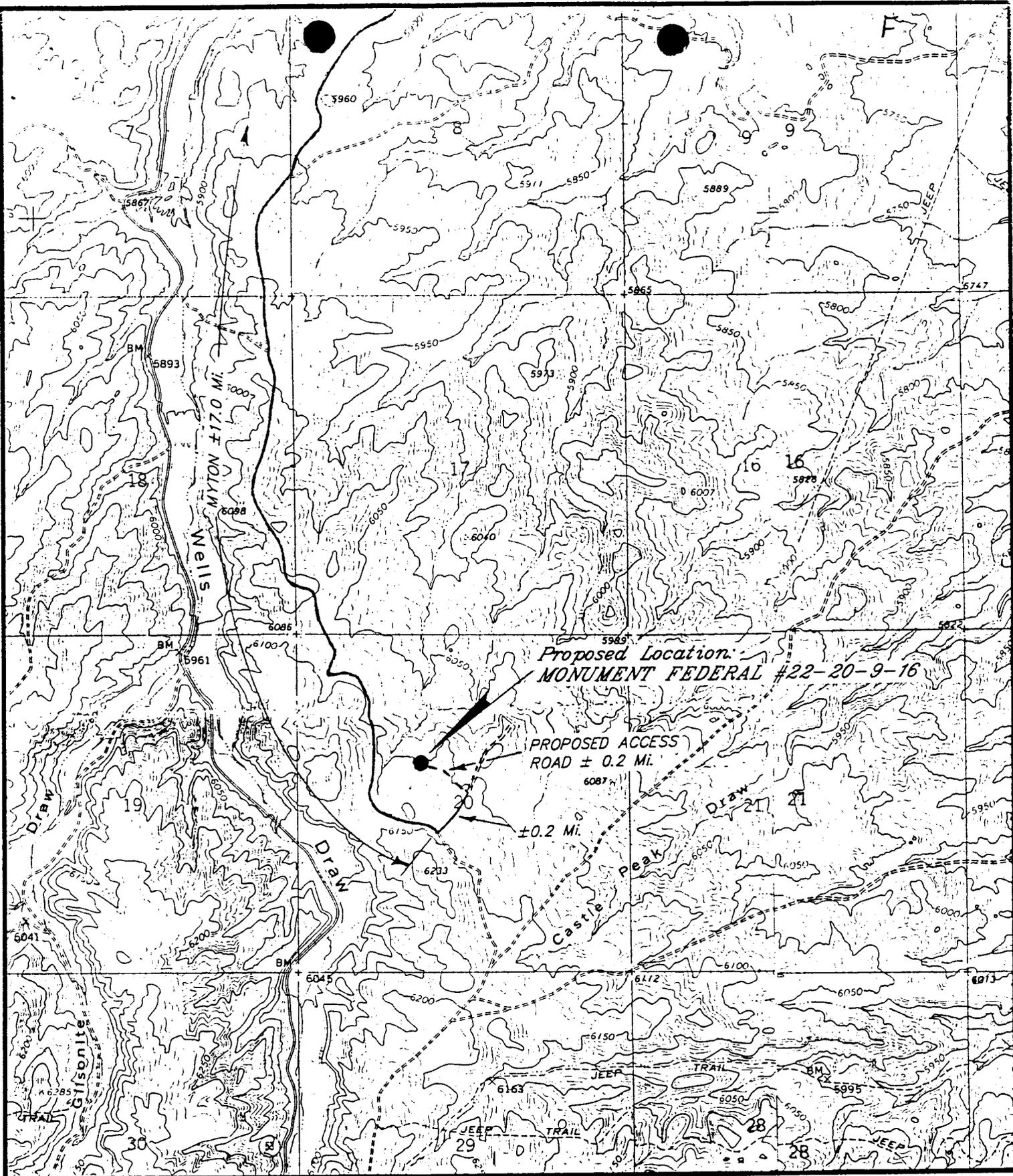
SEE TOPO "B"

**EQUITABLE RESOURCES CO.**

MONUMENT FEDERAL #22-20-9-16  
 SEC. 20, T9S, R16E, S.L.B.&M.  
 TOPO "A"



**Tri State**  
 Land Surveying, Inc.  
 (801) 781-2501  
 38 WEST 100 NORTH VERNAL, UTAH 84078



**EQUITABLE RESOURCES CO.**

MONUMENT FEDERAL #22-20-9-16  
 SEC. 20, T9S, R16E, S.L.B.&M.  
 TOPO "B"



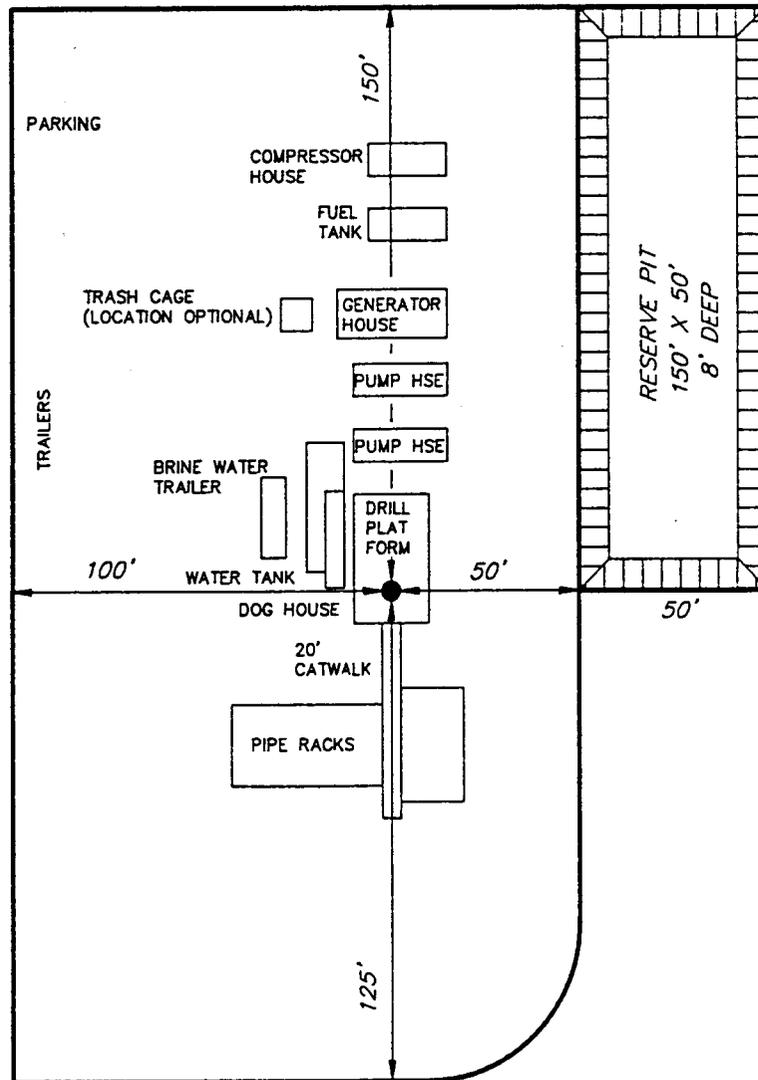
SCALE: 1" = 2000'

**Tri State**  
 Land Surveying, Inc.  
 (801) 781-2501  
 38 WEST 100 NORTH VERNAL, UTAH 84078

# TYPICAL RIG LAYOUT

---

## MONUMENT FEDERAL #22-20-9-16



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UNION DRILLING RIG #17

Hex Kelly -

Rotating Head

Adj. Choke

Air Bowl

7" Flowline

#3000  
Blind Ram - Pipe Ram

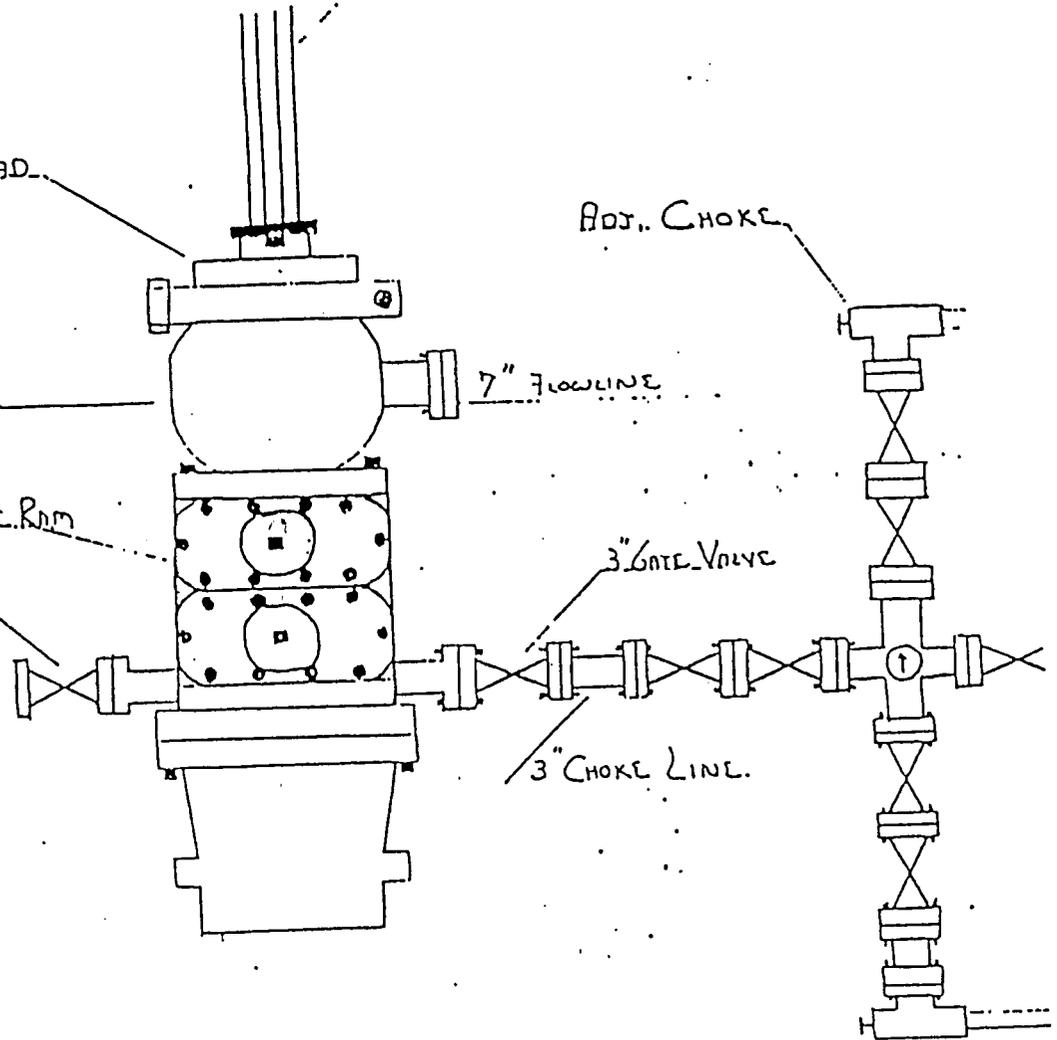
3" Gate Valve

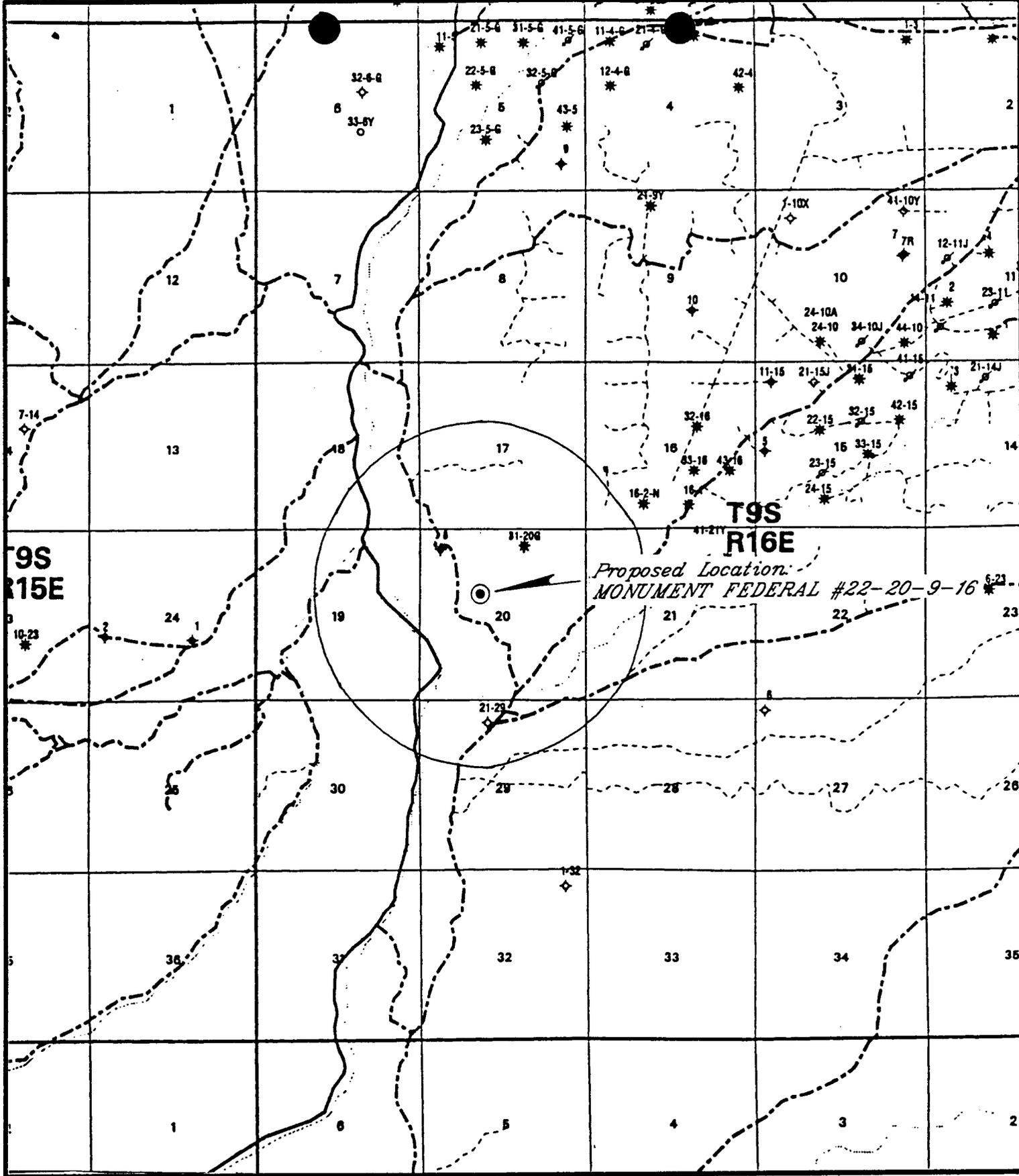
3" Gate Valve

3" Choke Line

Adj. Choke

#3000 Stack





**EQUITABLE RESOURCES CO.**

MONUMENT FEDERAL #22-20-9-16  
 SEC. 20, T9S, R16E, S.L.B.&M.  
 TOPO "C"



**Tri State**  
 Land Surveying, Inc.  
 (801) 781-2501  
 38 WEST 100 NORTH VERNAL, UTAH 84078

PROPOSED PRODUCTION FACILITY DIAGRAM

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

DIKE

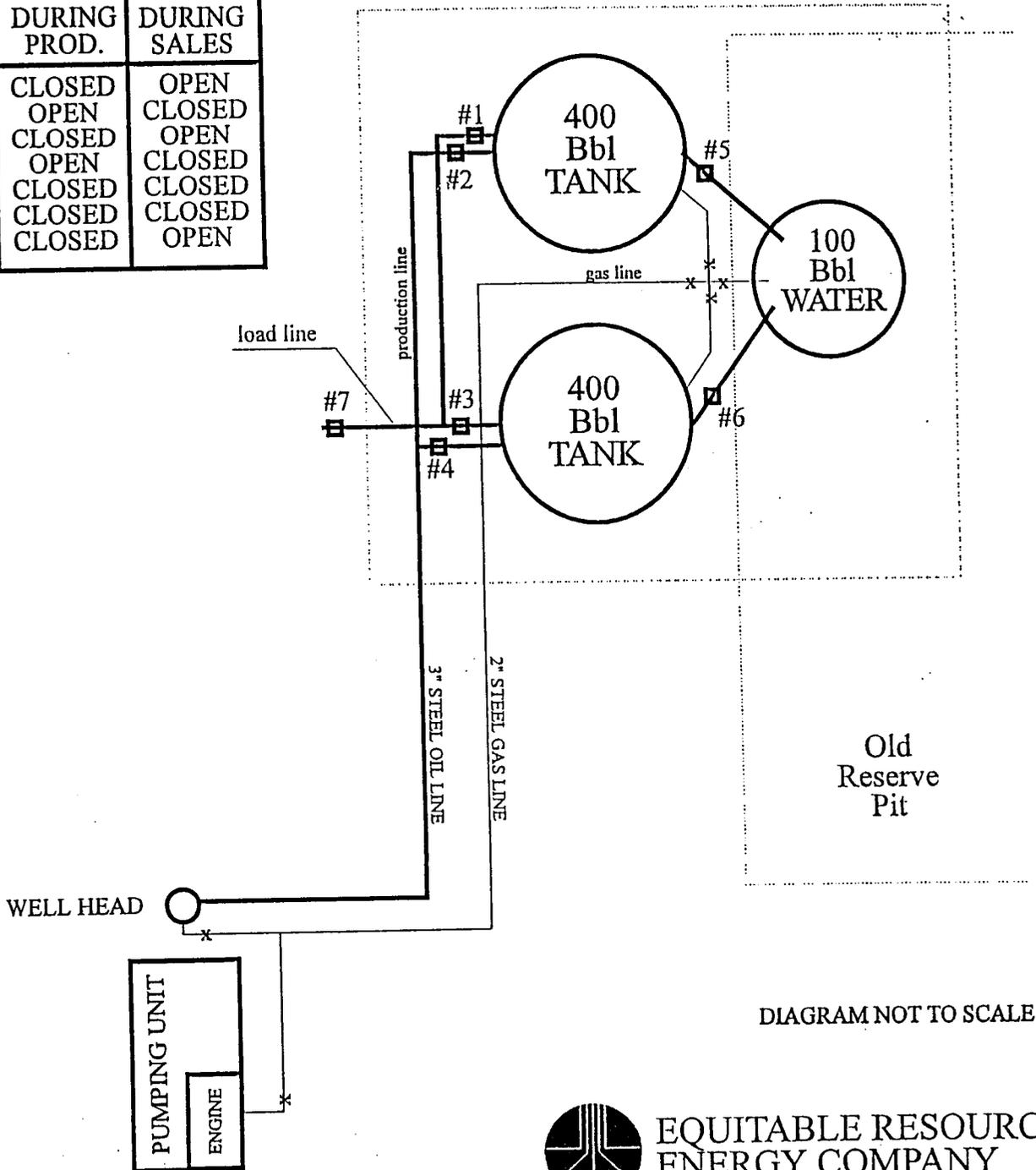


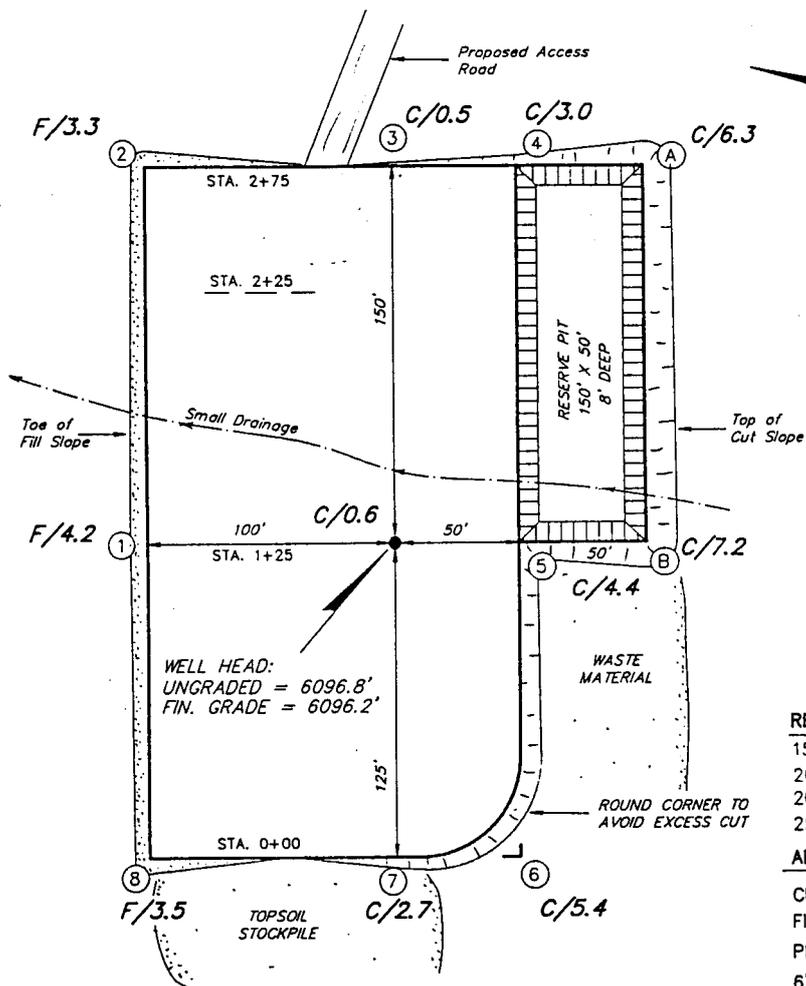
DIAGRAM NOT TO SCALE



**EQUITABLE RESOURCES  
ENERGY COMPANY**  
BALCRON OIL DIVISION  
1601 Lewis Avenue  
Billings, MT 59104-2  
(406) 259-7860

# EQUITABLE RESOURCES ENERGY CO.

MONUMENT FEDERAL #22-20-9-16  
SEC. 20, T9S, R16E, S.L.B.&M.



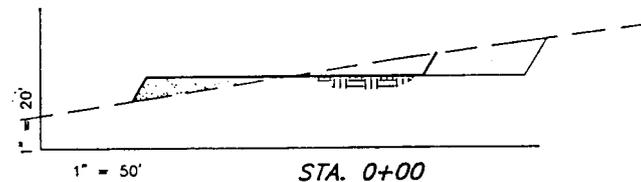
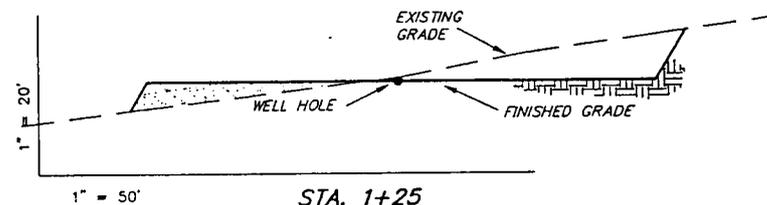
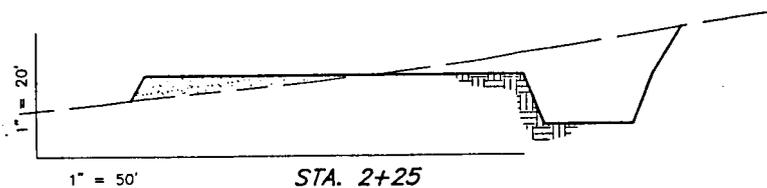
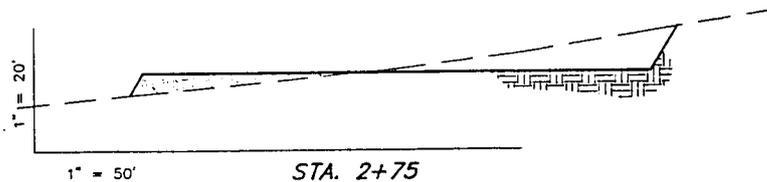
SCALE: 1" = 50'

### REFERENCE POINTS

150' NORTH = 6089.4'  
200' NORTH = 6086.8'  
200' EAST = 6097.5'  
250' EAST = 6100.9'

### APPROXIMATE YARDAGES

CUT = 2,710 Cu. Yds.  
FILL = 2,140 Cu. Yds.  
PIT = 1,770 Cu. Yds.  
6" TOPSOIL = 910 Cu. Yds.



SURVEYED BY: G.S. D.S.
DRAWN BY: J.R.S.
DATE: 3-13-96
SCALE: 1" = 50'
FILE:

**Tri State**  
Land Surveying, Inc.  
(801) 781-2501  
38 WEST 100 NORTH VERNAL, UTAH 84078

**CULTURAL RESOURCE EVALUATION  
OF 11 PROPOSED MONUMENT FEDERAL WELL LOCATIONS  
IN THE WELLS DRAW, CASTLE PEAK DRAW,  
PLEASANT VALLEY, & PARIETTE BENCH LOCALITIES  
OF DUCHESNE COUNTY, UTAH**

Report Prepared for **Equitable Resources Energy Company**

Dept. of Interior Permit No.: UT-96-54937  
AERC Project 1527 (BLCR-96-2)

Utah State Project No.: UT-96-AF-217b

Principal Investigator  
F. Richard Hauck, Ph.D.

Author of the Report  
F. Richard Hauck



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

181 North 200 West, Suite 5  
Bountiful, Utah 84011-0853

May 10, 1996

## ABSTRACT

An intensive cultural resource evaluation has been conducted for Equitable Resources Energy Company of 11 proposed Monument Federal well locations situated on federally administered lands in the Wells Draw, Castle Peak Draw, Pleasant Valley, and Pariette Bench localities of Duchesne County, Utah. This evaluation includes the Monument Federal Units 42-6-9-16Y, 43-6-9-16Y, 11-22-9-16Y, 12-11-9-17Y, 41-18-9-16Y, 14-22-8-17, 24-17-9-16, 44-17-9-16, 22-20-9-16, 42-20-9-16, and 31-5-9-17. This study involved a total of ca. 134.7 acres; 110 acres are associated with the ten acre parcels examined around each of the 11 well locations and 24.7 and acres are associated with the 2.07 miles of access routes associated with eight of the 11 well locations. These investigations were conducted by F.R. Hauck and by Glade Hadden on May 1 and 7, 1996; these archaeologists were assisted by James Merrell of Vernal, Utah.

No previously recorded significant or National Register eligible cultural resources will be adversely affected by the proposed 11 well locations and associated access routes.

No newly identified historic or prehistoric cultural resource loci were identified and recorded during the inventory.

No isolated artifacts were noted during the evaluations.

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 May 1 and 7, 1996, AERC archaeologists F. Richard Hauck and Glade Hadden, assisted by James Merrell, conducted intensive cultural resource evaluations of 11 proposed Monument Federal well locations in the Wells Draw, Castle Peak Draw, Pleasant Valley and Pariette Bench localities of Duchesne County, Utah (see Map 1). The purpose of this report is to detail the results of these evaluations, which include the Monument Federal Units 42-6-9-16Y, 43-6-9-16Y, 11-22-9-16Y, 12-11-9-17Y, 41-18-9-16Y, 14-22-8-17, 24-17-9-16, 44-17-9-16, 22-20-9-16, 42-20-9-16, & 31-5-9-17 (see Maps 2 through 7) and access routes associated with eight of the 11 well sites. Some 134.7 acres were examined which include 110 acres associated with the 11 ten acre well pad parcels and 24.7 acres associated with the 2.07 miles of 100 foot-wide access corridor. All proposed pipelines are situated on federal lands administered by the Vernal District of the Bureau of Land Management, Diamond Mountain Resource Area, Vernal, Utah.

The purpose of the field study and this report is to identify and document cultural site presence and assess National Register potential significance relative to established criteria (cf., Title 36 CFR 60.6). The proposed development of these well locations and access corridors requires an archaeological evaluation 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 State Antiquities Section.

### Project Location

The project location is in the Wells Draw, Castle Peak Draw, Pleasant Valley, and Pariette Bench localities of Duchesne County, Utah. These 11 wells are situated on the Myton SW, Myton SE, and Pariette Draw SW, 7.5 minute topographic quads. The proposed Monument Federal Wells are in the following sections:

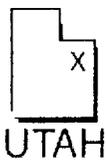
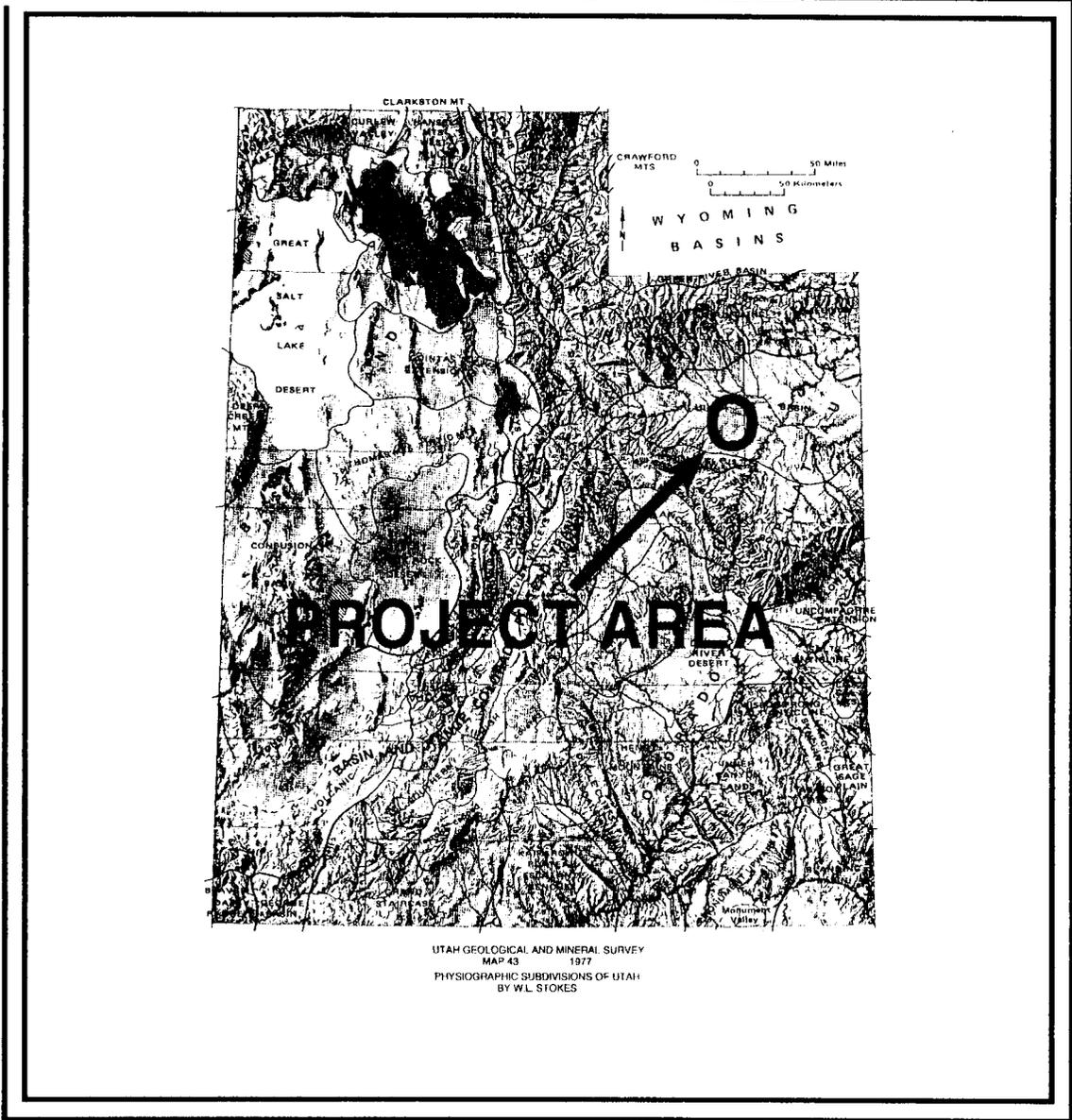
**Unit 42-6-9-16Y** (see Map 2) is in the southeast quarter of the northeast quarter of Section 6, Township 9 South, Range 16 East, Salt Lake B. & M. Its .3 mile-long access links to an existing two-track to the south of the location;

**Unit 43-6-9-16Y** (see Map 2) is in the northeast quarter of the southeast quarter of Section 6, Township 9 South, Range 16 East, Salt Lake B. & M.

**MAP 1: GENERAL PROJECT LOCALITY  
IN  
DUCHESNE COUNTY  
UTAH**



**PROJECT: BLCR - 96 - 2  
SCALE: see below  
QUAD: see below  
DATE: May 10, 1996**

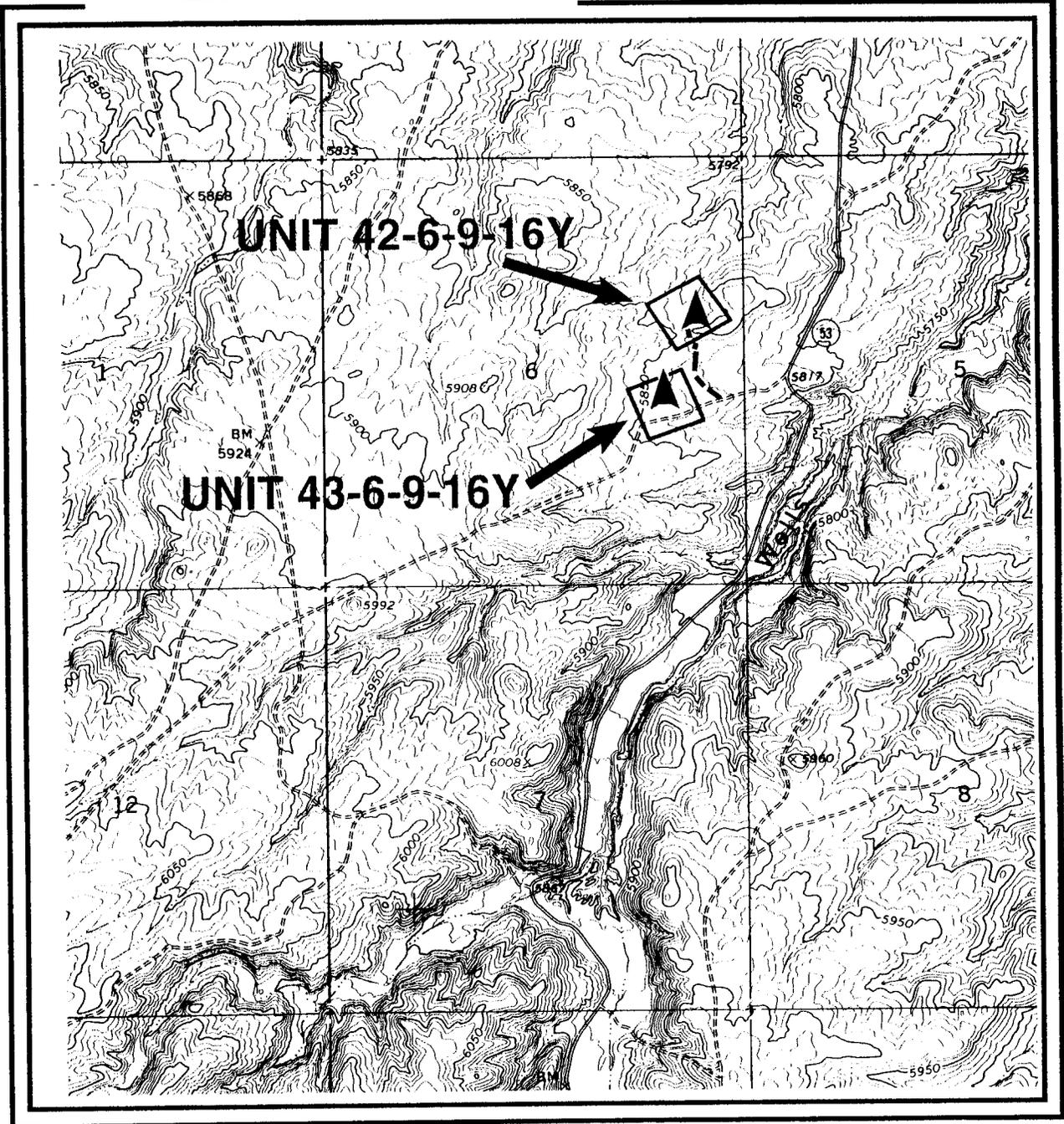


**TOWNSHIP: MULTIPLE  
RANGE: MULTIPLE  
MERIDIAN: SALT LAKE & UINTAH B. & M.**

**MAP 2: CULTURAL RESOURCE SURVEY  
 OF PROPOSED WELL LOCATIONS IN  
 THE WELLS DRAW  
 LOCALITY OF DUCHESNE COUNTY,  
 UTAH**



**PROJECT:** BLCR - 96- 2  
**SCALE:** 1: 24,000  
**QUAD:** Myton SW, Utah  
**DATE:** May 10, 1996



**TOWNSHIP:** 9 South  
**RANGE:** 16 East  
**MERIDIAN:** Salt Lake B. & M.

**LEGEND**

Well Location ▲

Access Route - - -

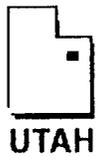
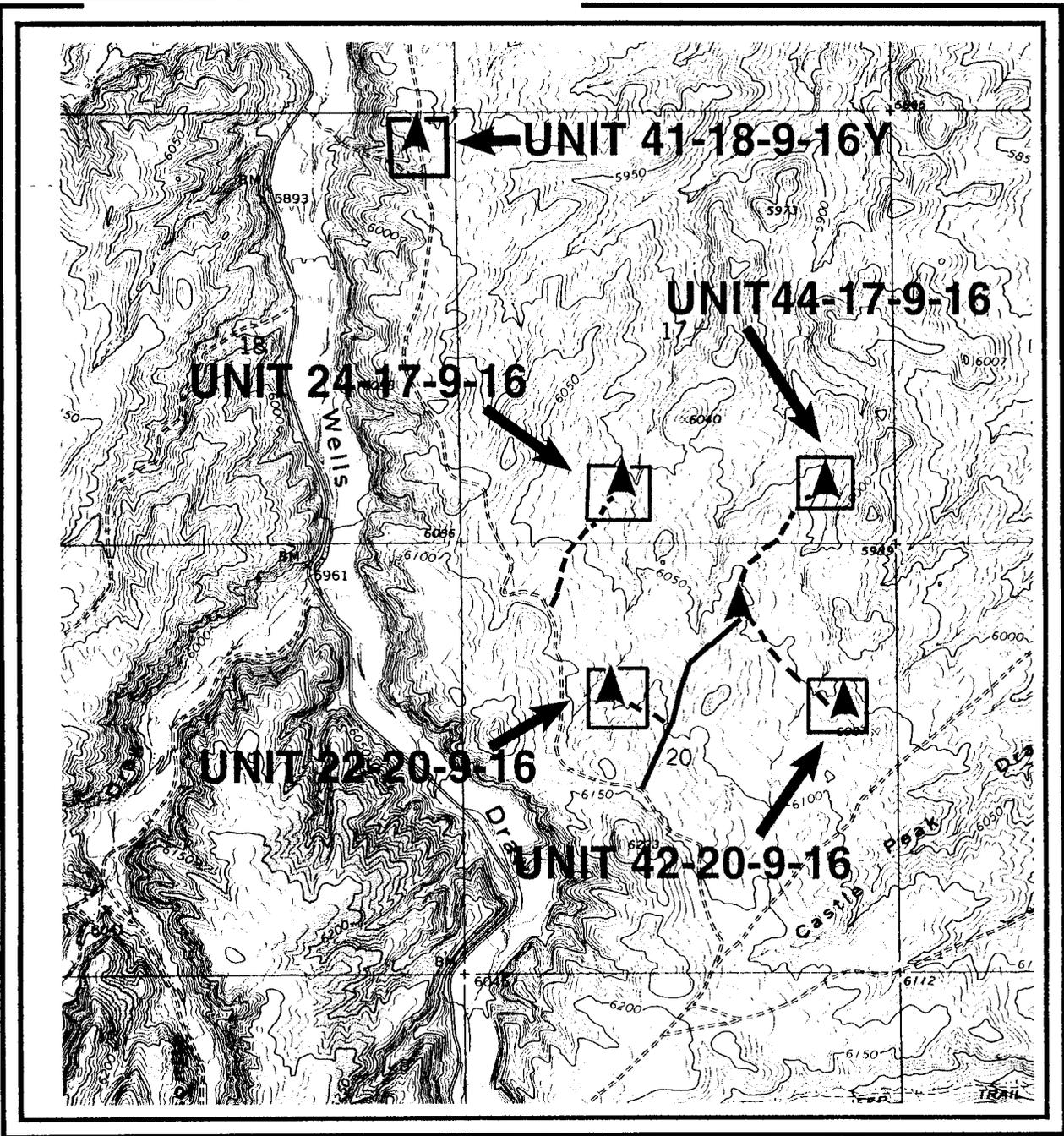
Survey Area □

Pipeline Corridor ↔

**MAP 3: CULTURAL RESOURCE SURVEY  
OF PROPOSED WELL LOCATIONS IN  
THE WELLS DRAW  
LOCALITY OF DUCHESNE COUNTY,  
UTAH**



**PROJECT:** BLCR - 96- 2  
**SCALE:** 1: 24,000  
**QUAD:** Myton SW, Utah  
**DATE:** May 10, 1996



**TOWNSHIP:** 9 South  
**RANGE:** 16 East  
**MERIDIAN:** Salt Lake B. & M.

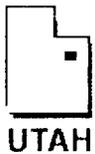
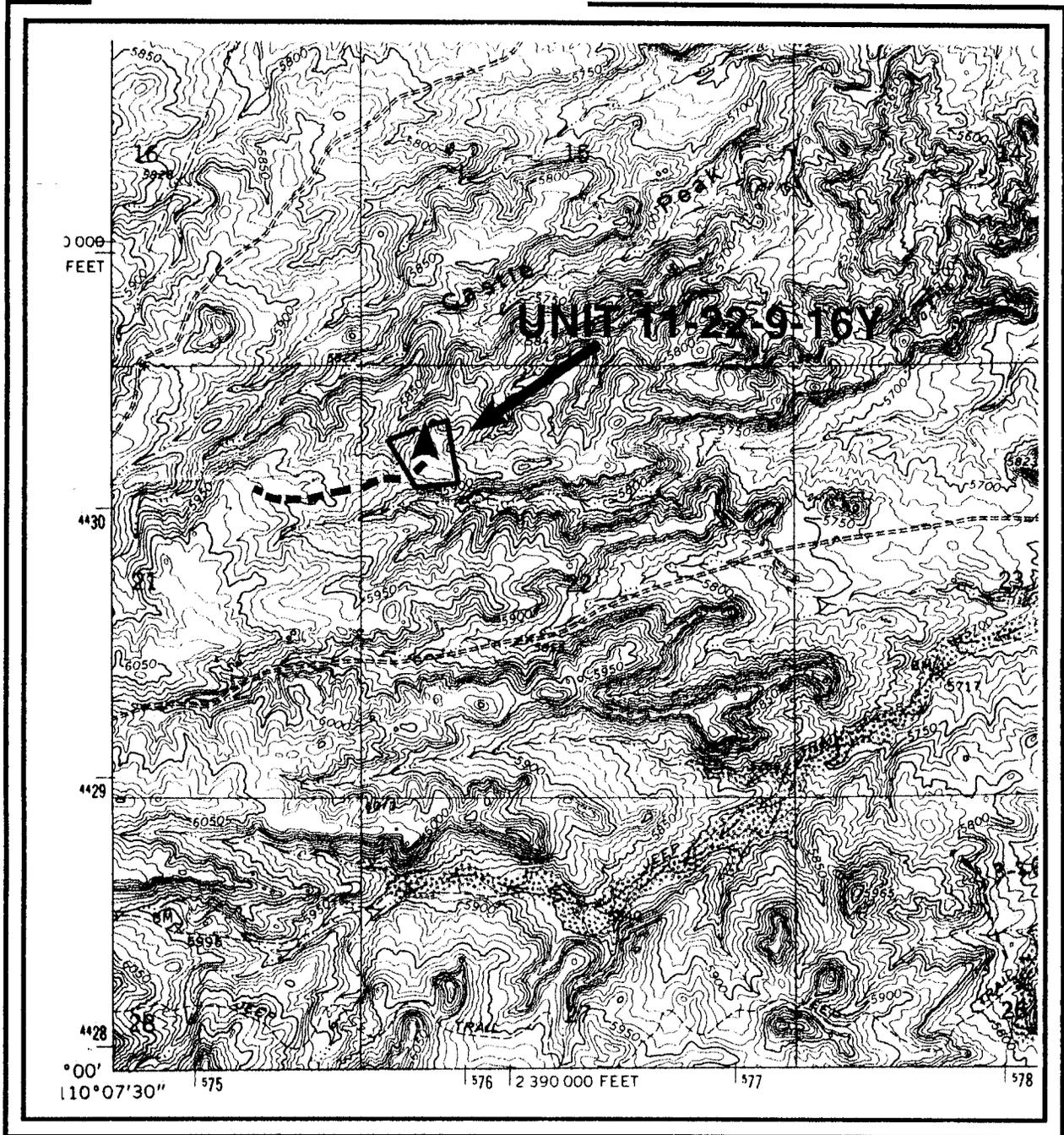
**LEGEND**

- Well Location
- Survey Area
- Access Route
- Pipeline Corridor

**MAP 4: CULTURAL RESOURCE SURVEY  
OF PROPOSED WELL LOCATIONS IN  
CASTLE PEAK DRAW  
LOCALITY OF DUCHESNE COUNTY,  
UTAH**



**PROJECT:** BLCR - 96- 2  
**SCALE:** 1: 24,000  
**QUAD:** Myton SE, Utah  
**DATE:** May 10, 1996



**TOWNSHIP:** 9 South  
**RANGE:** 16 East  
**MERIDIAN:** Salt Lake B. & M.

**LEGEND**

Well Location ▲

Access Route - - -

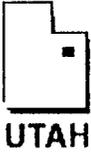
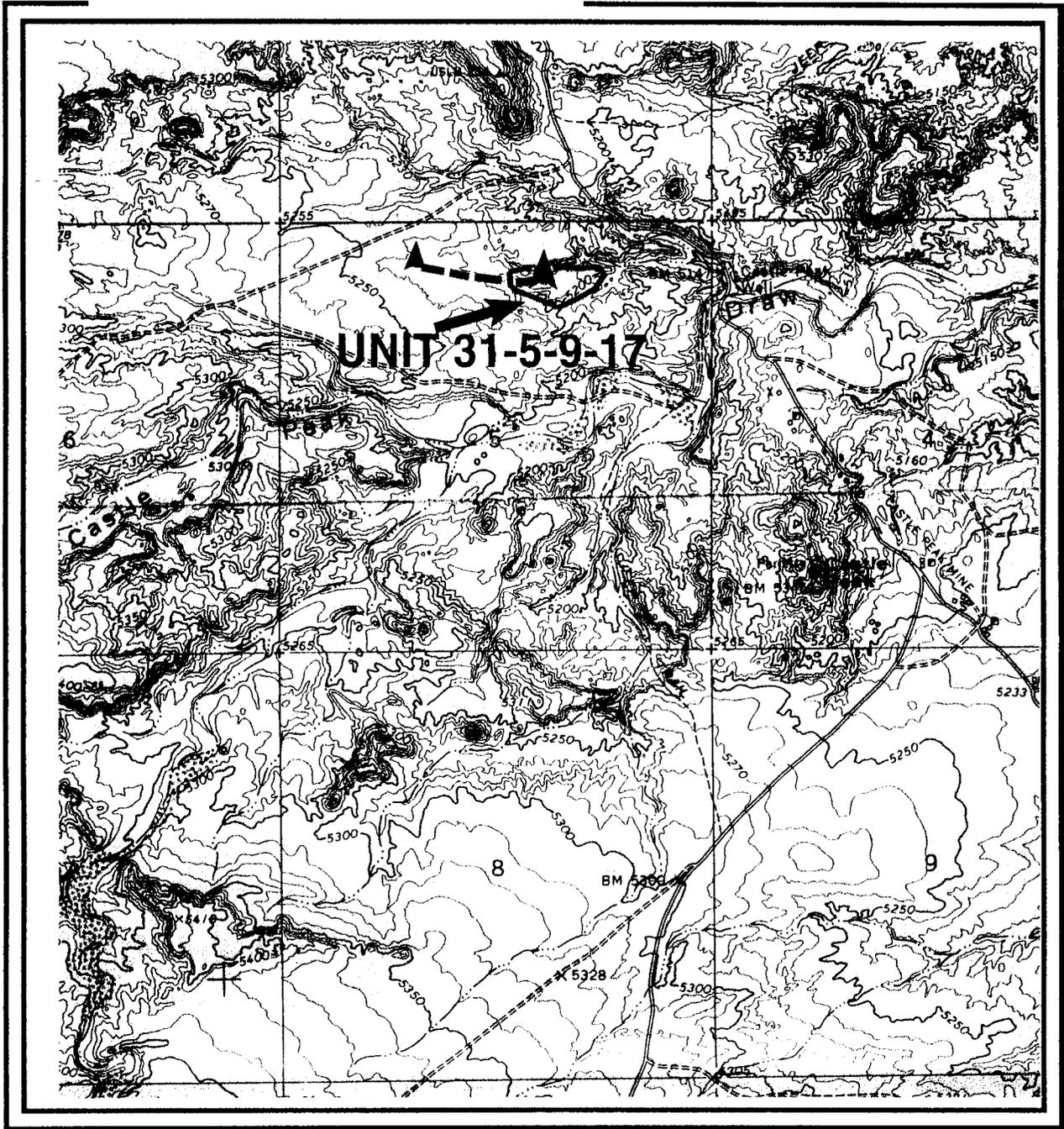
Survey Area □

Pipeline Corridor ↗

**MAP 5: CULTURAL RESOURCE SURVEY  
 OF PROPOSED WELL LOCATIONS IN  
 CASTLE PEAK DRAW  
 LOCALITY OF DUCHESNE COUNTY,  
 UTAH**



**PROJECT:** BLOR - 96- 2  
**SCALE:** 1: 24,000  
**QUAD:** Myton SE, Utah  
**DATE:** May 10, 1996



**TOWNSHIP:** 9 South  
**RANGE:** 17 East  
**MERIDIAN:** Salt Lake B. & M.

**LEGEND**

Well Location ▲

Access Route - - -

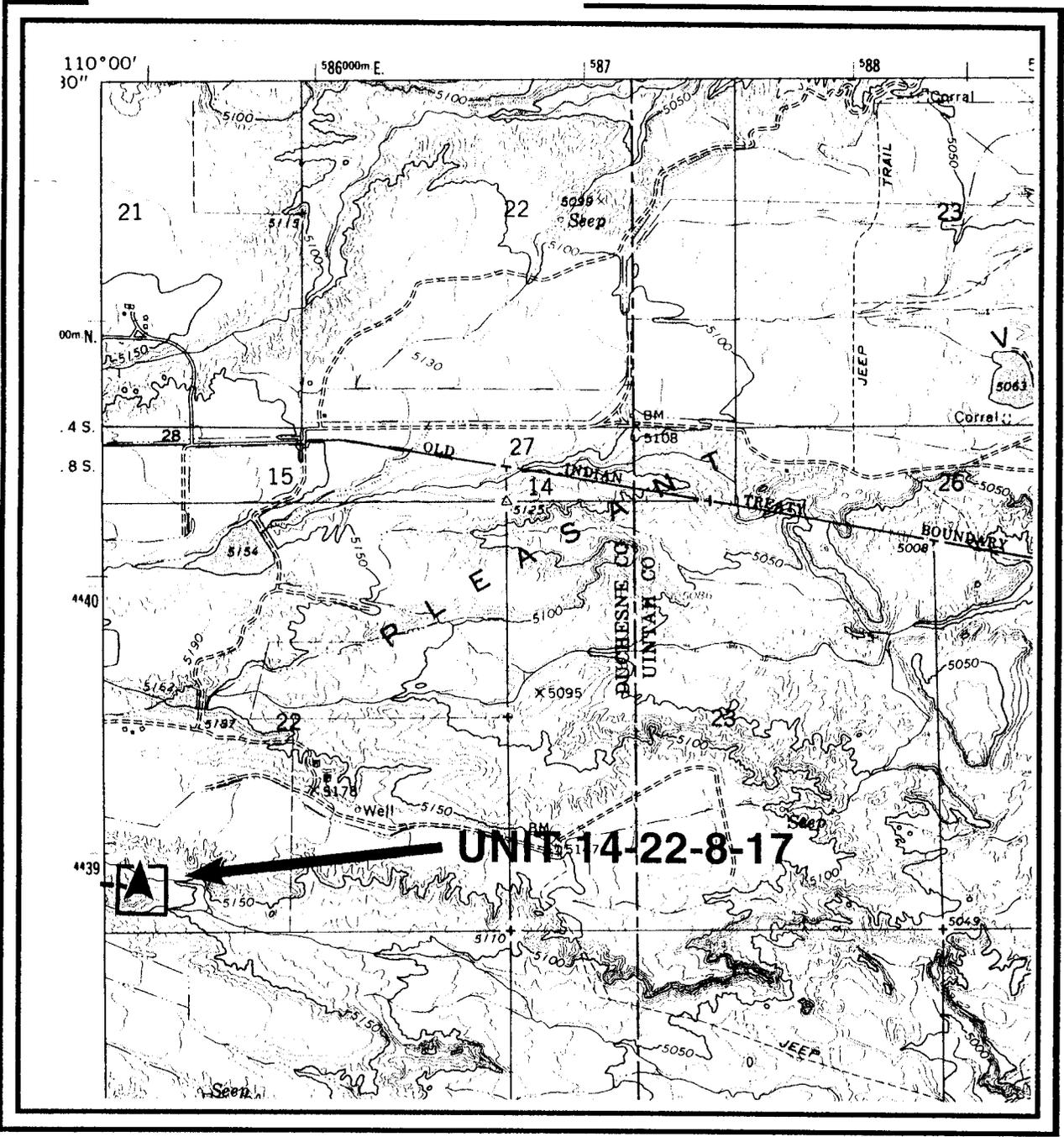
Survey Area □

Pipeline Corridor ↗

**MAP 6: CULTURAL RESOURCE SURVEY  
OF PROPOSED WELL LOCATIONS IN  
THE PLEASANT VALLEY  
LOCALITY OF DUCHESNE COUNTY,  
UTAH**



**PROJECT:** BLCR - 96- 2  
**SCALE:** 1: 24,000  
**QUAD:** Pariette Draw SW, Utah  
**DATE:** May 10, 1996



**TOWNSHIP:** 8 South  
**RANGE:** 17 East  
**MERIDIAN:** Salt Lake B. & M.

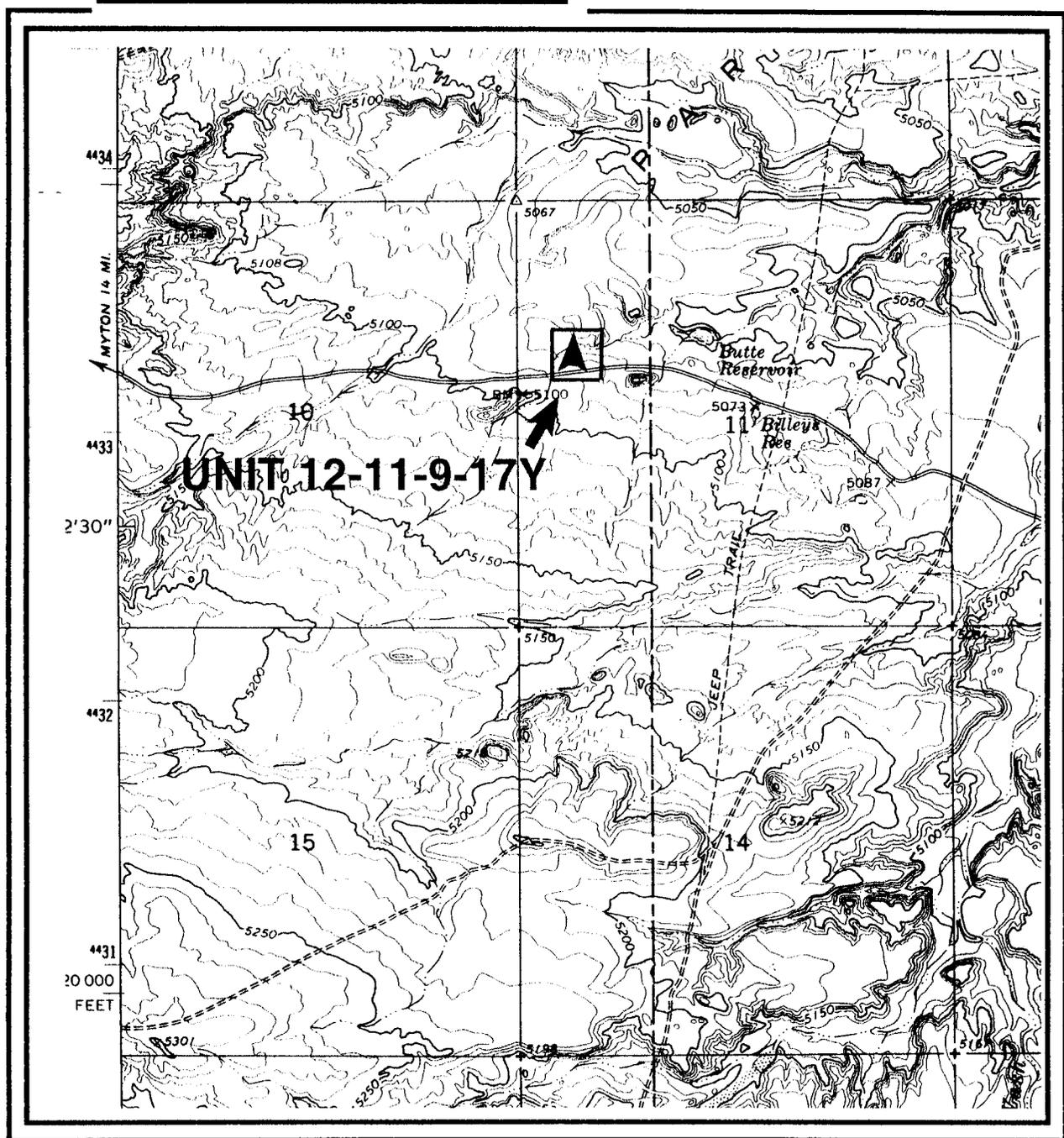
**LEGEND**

- Well Location
- Access Route
- Survey Area
- Pipeline Corridor

**MAP 7: CULTURAL RESOURCE SURVEY  
OF PROPOSED WELL LOCATIONS IN  
THE PARIETTE BENCH  
LOCALITY OF DUCHESNE COUNTY,  
UTAH**



**PROJECT:** BLCR - 96- 2  
**SCALE:** 1: 24,000  
**QUAD:** Pariette Draw SW, Utah  
**DATE:** May 10, 1996



**TOWNSHIP:** 9 South  
**RANGE:** 17 East  
**MERIDIAN:** Salt Lake B. & M.

**LEGEND**

Well Location ▲

Access Route - - -

Survey Area □

Pipeline Corridor ↔

**Unit 41-18-9-16Y** (see Map 3) is in the northeast quarter of the northeast quarter of Section 18, Township 9 South, Range 16 East, Salt Lake B. & M.

**Unit 24-17-9-16** (see Map 3) is in the southeast quarter of the southwest quarter of Section 17, Township 9 South, Range 16 East, Salt Lake B. & M. Its .33 mile-long access route links with the county road to the southwest of the location.

**Unit 44-17-9-16** (see Map 3) is in the southeast quarter of the southeast quarter of Section 17, Township 9 South, Range 16 East, Salt Lake B. & M. Its .3 mile-long access route links with an existing well location and road to the southwest of the location.

**Unit 22-20-9-16** (see Map 3) is in the southeast quarter of the northwest quarter of Section 20, Township 9 South, Range 16 East, Salt Lake B. & M. Its .1 mile-long access route links with an existing road to the southeast of the location.

**Unit 42-20-9-16** (see Map 3) is in the southeast quarter of the northeast quarter of Section 20, Township 9 South, Range 16 East, Salt Lake B. & M. Its .23 mile-long access route links with an existing well location to the northwest of the location.

**Unit 11-22-9-16Y** (see Map 4) is in the northwest quarter of the northwest quarter of Section 22, Township 9 South, Range 16 East, Salt Lake B. & M. Its .38 mile-long access route links with an existing road to the west of the location.

**Unit 31-5-9-17** (see Map 5) is in the northwest quarter of the northeast quarter of Section 5, Township 9 South, Range 17 East, Salt Lake B. & M. Its .33 mile-long access route links with an existing well to the west of the location.

**Unit 14-22-8-17** (see Map 6) is in the southwest quarter of the southwest quarter of Section 22, Township 8 South, Range 17 East, Salt Lake B. & M. Its .1 mile-long access route links with the county road to the west of the location after passing through a pasture on private land.

**Unit 12-11-9-17Y** (see Map 7) is in the southwest quarter of the northwest quarter of Section 11, Township 9 South, Range 17 East, Salt Lake B. & M.

### Environmental Description

The project area is within the 5100 to 6100 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.*, *Sarcobatus vermiculatus*, *Ephedra viridis*, *Cercocarpus spp.*, *Atriplex canescens*, and a variety of grasses.

The geological associations within the project area consist of fluvial 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 May 6, 1996. A similar search was conducted in the Vernal District Office of the BLM on April 24, 1996. 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 (Hauck and Norman 1980). Other sites have been located and recorded by AERC and other archaeologists and consultants during oil and gas exploration inventories (cf., Fike and Phillips 1984, Hauck and Weder 1989, Hauck and Hadden 1993, 1994, 1995).

### 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 possible 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 archaeologists walking a series of 15 to 20 meter-wide transects within the ten acre parcel associated with each well pad zone and along a 100 foot-wide corridor centered on the flagged centerline for each of the associated access routes as shown on Maps 2 through 6. Thus, ca. 134.7 acres was inventoried relative to these proposed well locations of which 110 includes the ten acre parcels and ca. 24.7 acres includes the 2.07 miles of various access corridor.

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.

In certain instances, the cultural sites are then evaluated for depth potential utilizing AERC's portable Ground Penetrating Radar (GPR) computerized system (SIR-2 manufactured by Geophysical Survey Systems, Inc. [GSSI] of North Salem, New Hampshire). GPR was not used during this project.

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 newly identified prehistoric cultural resource activity loci were observed and recorded during the archaeological evaluations of the proposed plant site and the three pipeline complexes.

No previously recorded cultural resource loci will be adversely effected by the proposed development of these 11 well locations.

No diagnostic isolated artifacts were observed and recorded during the evaluations.

## CONCLUSION AND RECOMMENDATIONS

No known cultural resources will be adversely impacted during the development and operation of the various Monument Federal Units 42-6-9-16Y, 43-6-9-16Y, 11-22-9-16Y, 12-11-9-17Y, 41-18-9-16Y, 14-22-8-17, 24-17-9-16, 44-17-9-16, 22-20-9-16, 42-20-9-16, & 31-5-9-17.

AERC recommends that a cultural resource clearance be granted to Equitable Resources Energy Company relative to the development of these proposed wells and associated access routes based upon adherence to the following stipulations:

1. all vehicular traffic, personnel movement, construction and restoration operations should be confined to the well pad zones, flagged areas, and corridors examined as referenced in this report, and to the existing roadways;
2. all personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area; and
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

## REFERENCES

Fike, Richard E. and H. Blaine Phillips II

1984 *A Nineteenth Century Ute Burial from Northeast Utah*. Cultural Resource Series No. 16, Bureau of Land Management, Salt Lake City.

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- 1984a "Excavation" (in) *A Nineteenth Century Ute Burial from Northeast Utah*. Cultural Resource Series No. 16, Bureau of Land Management, Salt Lake City.
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- 1992b Addendum to Cultural Resource Evaluations of Four Proposed Well Locations in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-92-4, Archeological-Environmental Research Corporation, Bountiful.

- 1992c Cultural Resource Evaluations of Seven Proposed Well Locations in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-92-5, Archeological-Environmental Research Corporation, Bountiful.
- 1992d Cultural Resource Evaluation of a Proposed Water Pipeline Corridor in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-92-6, Archeological-Environmental Research Corporation, Bountiful.
- 1992e Cultural Resource Evaluation of Seven Proposed Well Locations in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-92-8, Archeological-Environmental Research Corporation, cf., Bountiful.
- 1993a Cultural Resource Evaluation of Nine Proposed Well Locations in the Castle Peak Draw Locality of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-93-1, Archeological-Environmental Research Corporation, Bountiful.
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- 1996c Cultural Resource Evaluation of Two Proposed Well Locations and Access Routes in the Wells Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-96-1, Archeological-Environmental Research Corporation, Bountiful.

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Hauck, F. Richard and Glade Hadden

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1993b Cultural Resource Evaluation of Four Proposed Well Locations in the Monument Buttes Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-93-5, Archaeological-Environmental Research Corporation, Bountiful.

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1993d Cultural Resource Evaluation of Four Proposed Well Locations in the Monument Buttes and Pleasant Valley Localities of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-93-10, Archaeological-Environmental Research Corporation, Bountiful.

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1994a Cultural Resource Evaluation of Eight Proposed Wells in the Pleasant Valley Locality of Uintah County, Utah. Report prepared for Balcron Oil Company, BLCR-94-3 Archaeological-Environmental Research Corporation, Bountiful.

1994b Cultural Resource Evaluation of Proposed Water Injection Line Lateral Segments in the Monument Buttes Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-94-4, Archaeological-Environmental Research Corporation, Bountiful.

- 1994c Cultural Resource Evaluation of Proposed Well Locations and Access Routes in the Pariette Draw - Castle Peak Draw - Eight Mile Flat Localities of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-94-9, Archaeological-Environmental Research Corporation, Bountiful.
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- 1995a Cultural Resource Evaluation of Proposed Well Locations and Access Routes in the Monument Buttes Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-95-1 & 2, Archaeological-Environmental Research Corporation, Bountiful.
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Hauck, F.R. and Dennis Weder

- 1989 Pariette Overlook -- A Paleo-Indian Quarry Site in the Pariette Draw Locality of Uintah County, Utah. AERC Paper No. 42, of the Archaeological-Environmental Research Corporation, Bountiful.

Stokes, W.L.

- 1977 Physiographic Subdivisions of Utah. Map 43, Utah Geological and Mineral Survey, Salt Lake City.

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

Project Authorization No. U.9.6.A.F.0.2.1.7.b.

Report Acceptable Yes \_\_\_ No \_\_\_

Mitigation Acceptable Yes \_\_\_ No \_\_\_  
Comments: \_\_\_\_\_

Summary Report of  
Inspection for Cultural Resources

WELL LOCATIONS IN THE WELLS DRAW,  
CASTLE PEAK DRAW, PLEASANT VALLEY, &  
PARIETTE BENCH LOCALITY IN DUCHESNE CO.

1. Report Title . . . . . Equitable Resources Energy Company

2. Development Company \_\_\_\_\_

3. Report Date . . . . . 0 5 10 1 9 9 6 . . . . . UT-96-54937  
A E R C

4. Antiquities Permit No. \_\_\_\_\_  
BLCR - 96 - 2 Duchesne

5. Responsible Institution . . . . . County \_\_\_\_\_

6. Fieldwork

Location: TWN .0.8.S. . RNG .1.7.E. . Section.22  
TWN .0.9.S. . RNG .1.6.E. . Section 06, 17, 18, 20, 22,  
TWN .0.9.S. . RNG .1.7.E. . Section 05, 11

7. Resource Area .SM.

8. Description of Examination Procedures: The archeologist Glade Hadden and assistant James Merrell intensively examined the proposed well locations and associated access & access corridors by walking 10 to 15 meter-wide transects in the ten acre parcels and within the 100 foot-wide corridors on either side of the flagged center-line.

9. Linear Miles Surveyed . 2.07 . . . . . 10. Inventory Type . . . . . I  
and/or Definable Acres Surveyed . . . . . R = Reconnaissance  
and/or Legally Undefinable . . . . . I = Intensive  
Acres Surveyed . 1.347 . . . . . S = Statistical Sample

11. Description of Findings: No archaeological sites were identified and recorded during this survey.  
12. Number Sites Found .0. . . . . (No sites = 0)  
13. Collection: .N. (Y = Yes, N = No)

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

15. Literature Search, Location/ Date: Utah SHPO 5-6-96 Vernal BLM 4-24-96

16. Conclusion/ Recommendations: AERC recommends that a cultural resource clearance be granted to Equitable Resources Energy Company for these proposed developments based on the following stipulations: (see reverse)

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

2. A l l p e r s o n n e l s h o u l d <sup>refrain</sup> ~~be~~ disturbing any significant cultural resources in the area.

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

---

17. Signature of Administrator & Field Supervisor

Administrator:



Field  
Supervisor:

EQUITABLE RESOURCES CO.

BALCROON OIL

MONUMENT FEDERAL #22-20-9-16

SE/NW SECTION 20, 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

MAY 8, 1996

RESULTS OF PALEONTOLOGY SURVEY AT EQUITABLE RESOURCES CO. MONUMENT FEDERAL #22-20-9-16, SE/NW Section 20, T9S, R16E, S.L.B.&M, Duchesne Co., Utah.

Description of Geology and Topography-

This well location is 12 miles south and 4.5 miles west of Myton, Utah, east of Wells Draw. The wellpad sits in a small swale on the bench top. Drainage is to the northeast. The short access road runs in from the southeast over a small ridge. There is sandstone outcropping on the south and east sides of the wellpad.

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 and plant impressions.

Paleontological material found -

Found a few scattered, weathered turtle shell fragments just east of pit corner "A", 170 feet+- southeast of the center stake at 109 degrees. This material may have washed off small rise to the southeast.

Recommendations-

There is always some potential for encountering significant fossils when working in the Uinta Formation. If important looking fossil material is found during construction, a paleontologist should be called to evaluate it.

No other recommendations are being made for paleontology at this location.

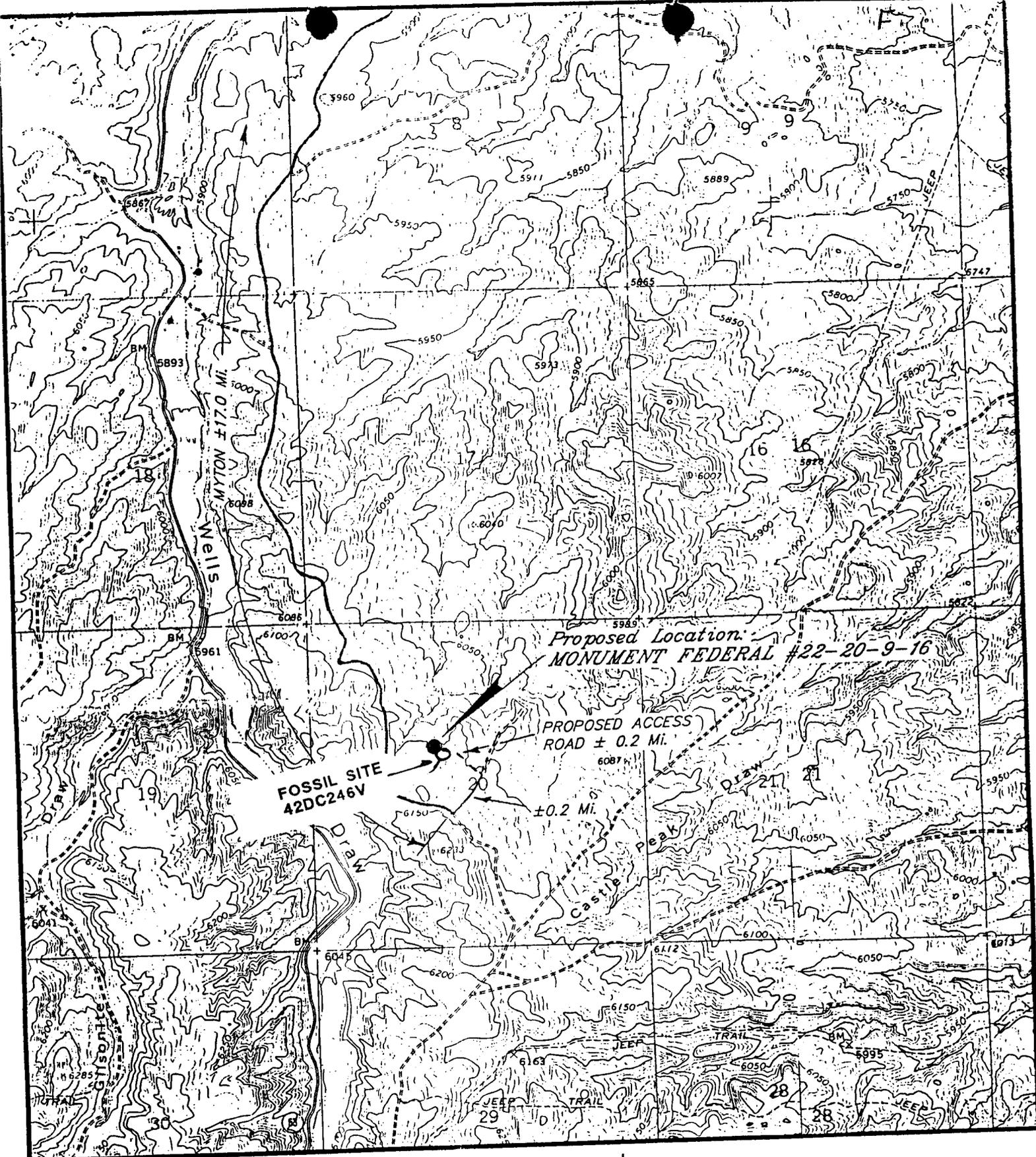
Alden A. Hamblin  
Paleontologist

Date May 9, 1996

United States  
Department of the Interior  
Bureau of Land Management

Paleontological Locality Form

1. Permit #/Permittee: BLM - UT-S-95-004 ALDEN H. HAMBLIN
2. Repository/Accn.#: UTAH FIELD HOUSE OF NATURAL HISTORY
3. Locality #: 42DC246V [ ] Plant [X] Vertebrate [ ] Invertebrate [ ] Other
4. Formation (and subdivision, if known): Uinta Formation, lower Member
5. Age: Late Eocene
6. County: Duchesne
7. BLM District: VERNAL
8. Resource Area: Diamond Mt.
9. Map name: Myton SW, Utah
10. Map source: U.S.G.S. 7 1/2 min. Quad.
11. Map scale: 1:24,000
12. Map edition: 1964
13. Latitude (deg., min., sec., direction): \_\_\_\_\_
14. Longitude (deg., min., sec., direction): \_\_\_\_\_  
or: UTM Grid Zone: 12 T 572980 mE 4429910 mN
15. Survey (Section, Township & Range): SE,NW, Sec. 20, T9S, R16E, SLBM
16. Taxa observed/collected: Found a few scattered, weathered turtle shell fragments just east of pit corner "A", 170 feet+- southeast of the center stake at 109 degrees. This material may have washed off small rise to the southeast.
17. Discoverer(s)/Collector(s): Alden H. Hamblin
18. Date(s): April 30, 1996
19. Remarks: This fossil site was found during the paleontology survey of Equatable Resources Balcron Federal #22-20-9-16.



**EQUITABLE RESOURCES CO.**

MONUMENT FEDERAL #22-20-9-16  
 SEC. 20, T9S, R16E, S.L.B.&M.  
 TOPO "B"



SCALE: 1" = 2000'

**Tri State**  
 Land Surveying, Inc.  
 (801) 781-2501  
 38 WEST 100 NORTH VERNAL, UTAH 84078

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 06/25/96

API NO. ASSIGNED: 43-013-31681

WELL NAME: MONUMENT FEDERAL 22-20-9-16  
 OPERATOR: EQUITABLE RESOURCES CORP (N9890)

PROPOSED LOCATION:  
 SENW 20 - T09S - R16E   
 SURFACE: 1980-FNL-1980-FEL  
 BOTTOM: 1980-FNL-1980-FWL  
 DUCHESNE COUNTY  
 CASTLE PEAK FIELD (075)

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

LEASE TYPE: FED  
 LEASE NUMBER: U - 52018

PROPOSED PRODUCING FORMATION: GRRV

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Federal  State  Fee   
 (Number 5547184)
- Potash (Y/N)
- Oil shale (Y/N)
- Water permit  
 (Number JOE SHIELDS)
- RDCC Review (Y/N)  
 (Date: \_\_\_\_\_)

LOCATION AND SITING:

- \_\_\_\_ R649-2-3. Unit: \_\_\_\_\_
- R649-3-2. General.
- \_\_\_\_ R649-3-3. Exception.
- \_\_\_\_ Drilling Unit.
- \_\_\_\_ Board Cause no: \_\_\_\_\_
- \_\_\_\_ Date: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

STIPULATIONS: \_\_\_\_\_

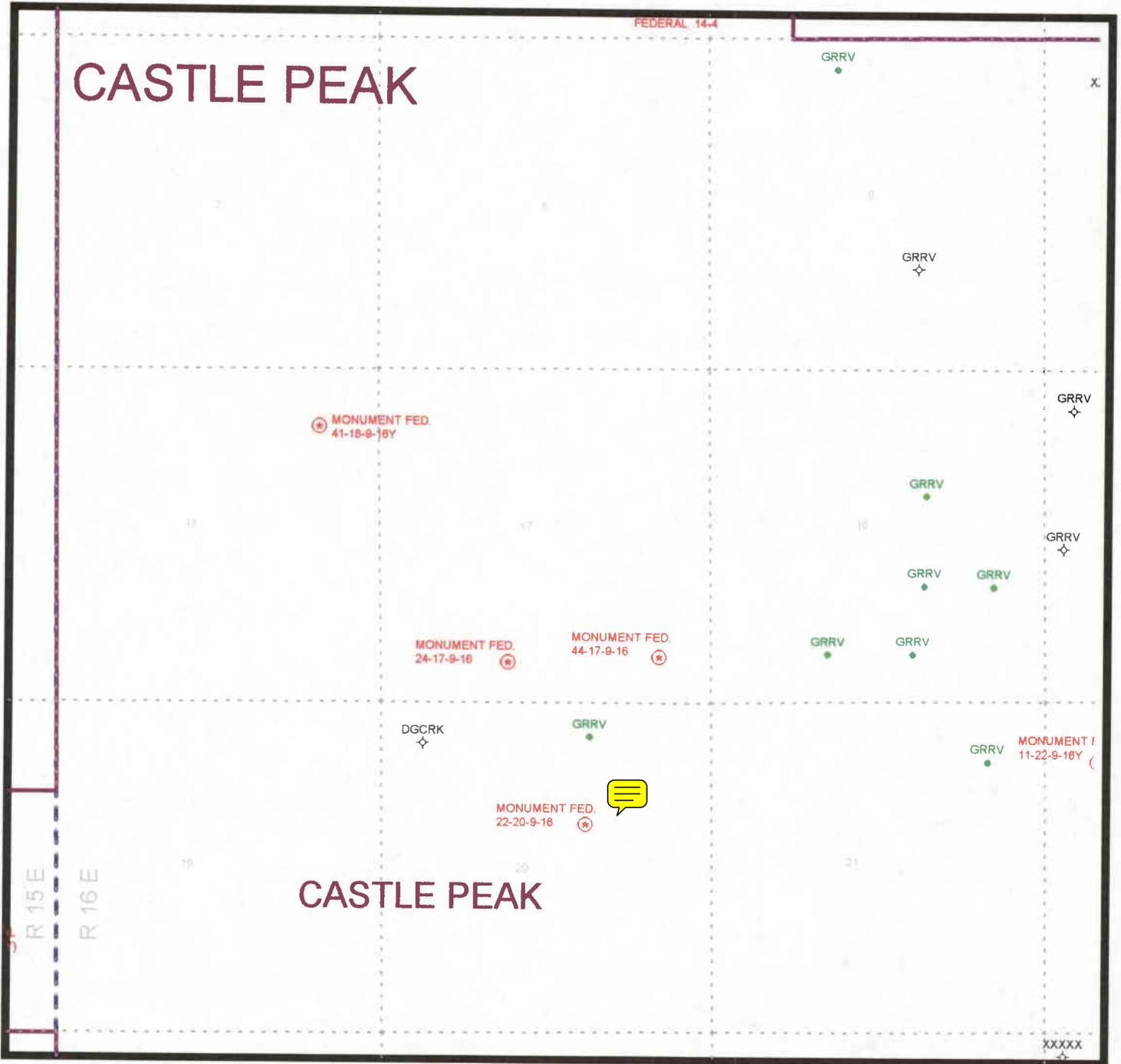
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# EQUITABLE RESOURCES CORP DEVELOPMENT DRILLING SEC. 17 & 20, T9S, R16E, DUCHESNE, COUNTY UAC R649-3-2



PREPARED:  
DATE: 25-JUNE-96

STATE OF UTAH, DIV OF OIL, GAS & MINERALS

Operator: <b>EQUITABLE RESOURCES CO</b>	Well Name: <b>MON FED 22-20-9-16</b>
Project ID: <b>43-013-31681</b>	Location: <b>SEC. 20 - T09S - R16E</b>

Design Parameters:

Mud weight ( 8.90 ppg) : 0.462 psi/ft  
 Shut in surface pressure : 2332 psi  
 Internal gradient (burst) : 0.060 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)  
 Other : 1.50 (J)  
 Body Yield : 1.50 (B)

Length (feet)	Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost
1	5,800	5.500	15.50	K-55	ST&C	5,800	4.825
	Collapse Load Strgth (psi) (psi)	S.F.	Burst Load Strgth (psi) (psi)	Min Int Strgth (psi)	Yield S.F.	Tension Load Strgth (kips) (kips)	S.F.
1	2682	4040	1.506	2682	4810	1.79	89.90 222 2.47 J

Prepared by : MATTHEWS, Salt Lake City, Utah  
 Date : 07-10-1996  
 Remarks :

Minimum segment length for the 5,800 foot well is 1,500 feet.  
 SICP is based on the ideal gas law, a gas gravity of 0.69, and a mean gas temperature of 115°F (Surface 74°F , BHT 155°F & temp. gradient 1.400°/100 ft.)  
 String type: Production  
 The mud gradient and bottom hole pressures (for burst) are 0.462 psi/ft and 2,682 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 - (uniaxial) burst, 1.8 - API 8rd tension, 1.6 - buttress tension, 1.5 - body yield tension, and 1.6 - EUE 8rd tension. Collapse strength under axial tension was calculated based on the Westcott, Dunlop and Kemler curve. Engineering responsibility for use of this design will be that of the purchaser.  
 Costs for this design are based on a 1987 pricing model. (Version 1.07)



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)

July 10, 1996

Equitable Resources Energy Co.  
1601 Lewis Avenue  
Billings, Montana 59102

Re: Monument Federal 22-20-9-16 Well, 1980' FNL, 1980' FEL,  
SE NW, Sec. 20, T. 9 S., R. 16 E., Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-31681.

Sincerely,

  
R. J. Farth  
Associate Director

lwp

Enclosures

cc: Duchesne County Assessor  
Bureau of Land Management, Vernal District Office



Operator: Equitable Resources Energy  
Well Name & Number: Monument Federal 22-20-9-16  
API Number: 43-013-31681  
Lease: U-52018  
Location: SE NW Sec. 20 T. 9 S. R. 16 E.

### Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. Notification Requirements

Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jimmie Thompson at (801)538-5336.

Notify the Division prior to commencing operations to plug and abandon the well. Contact Frank Matthews at (801)538-5334 or Mike Hebertson at (801)538-5333.

3. Reporting Requirements

All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**CONFIDENTIAL**

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

1a. TYPE OF WORK  
 DRILL  DEEPEN  PLUG BACK

b. TYPE OF WELL  
 OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
 Equitable Resources Energy Company

3. ADDRESS OF OPERATOR  
 1601 Lewis Avenue; Billings, MT 59102

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface SE NW Section 20, T9S, R16E 1980' FNL, 1980' FEL  
 At proposed prod. zone

5. LEASE DESIGNATION AND SERIAL NO.  
 U-52018

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

7. UNIT AGREEMENT NAME  
 n/a

8. FARM OR LEASE NAME  
 Monument Federal

9. WELL NO.  
 #22-20-9-16

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

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

12. COUNTY OR PARISH  
 Duchesne

13. STATE  
 UTAH

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 From Myton, UT approximately 10 Mi SW

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

16. NO. OF ACRES IN LEASE  
 640

17. NO. OF ACRES ASSIGNED  
 TO THIS WELL  
 40

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

19. PROPOSED DEPTH  
 5800'

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 6,097' GL

22. APPROX. DATE WORK WILL START\*  
 June 1, 1996

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
See attached	Drilling Program/Casing Design			REF
				JUN 26 1996

Operator intends to drill this well in accordance with the attached EXHIBITS. A listing of EXHIBITS is also attached.

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.

ORIGINAL: Bureau of Land Management (Vernal, UT)  
 COPY; Utah Division of Oil, Gas and Mining (Salt Lake City, UT)

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

24. SIGNED Bobbie Schuman TITLE Regulatory and Environmental Specialist DATE April 17, 1996  
 (This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ ASSISTANT FIELD MANAGER  
 APPROVED BY [Signature] TITLE Mineral Resources DATE JUL 09 1996  
 CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Equitable Resources Energy Company

Well Name & Number: Equitable Monument Federal 22-20-9-16

API Number: 43-013-31681

Lease Number: U - 52018

Location: SENW Sec. 20 T. 9S R. 16E

**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 **prior to setting the next casing string or requesting plugging orders**. Faxed copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

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

#### 2. Pressure Control Equipment

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

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

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

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 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 3,612 ft. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

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  $\pm$  3412 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.

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.

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 on initial 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 Field Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

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

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

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

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

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

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

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

Ed Forsman (801) 789-7077  
Petroleum Engineer

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

Jerry Kenczka (801) 789-1190  
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 PROGRAM  
CONDITIONS OF APPROVAL

Other Additional Information:

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 lands it is required that a Pesticide Use Proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or hazardous chemicals.

The following additional condition applies:

A high quality muffler shall be used on the engine powering the well. This will limit the noise originating at the well site.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**CONFIDENTIAL**

NO. *DOGMA*

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

2. NAME OF OPERATOR  
 Equitable Resources Energy Company

3. ADDRESS OF OPERATOR  
 1601 Lewis Avenue; Billings, MT 59102

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
 At surface SE NW Section 20, T9S, R16E 1980' FNL, 1980' FEL  
 At proposed prod. zone

**RECEIVED**  
JUL 19 1996  
SINGLE ZONE  MULTIPLE ZONE

5. LEASE DESIGNATION AND SERIAL NO.  
U-52018

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

7. UNIT AGREEMENT NAME  
n/a

8. FARM OR LEASE NAME  
Monument Federal

9. WELL NO.  
#22-20-9-16

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

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

12. COUNTY OR PARISH  
Duchesne

13. STATE  
UTAH

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
From Myton, UT approximately 10 Mi SW

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  
6,097' GL

16. NO. OF ACRES IN LEASE  
640

17. NO. OF ACRES ASSIGNED TO THIS WELL  
40

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
5800'

19. PROPOSED DEPTH  
5800'

20. ROTARY OR CABLE TOOLS  
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
6,097' GL

22. APPROX. DATE WORK WILL START\*  
June 1, 1996

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
See attached	Drilling Program/Casing Design			RECEIVED

JUN 26 1996

Operator intends to drill this well in accordance with the attached EXHIBITS. A listing of EXHIBITS is also attached.

**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.

ORIGINAL: Bureau of Land Management (Vernal, UT)  
COPY; Utah Division of Oil, Gas and Mining (Salt Lake City, UT)

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

24. SIGNED *Bobbie Schuman* TITLE Regulatory and Environmental Specialist DATE April 17, 1996  
 (This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ ASSISTANT FIELD MANAGER  
 APPROVED BY *[Signature]* TITLE Mineral Resources DATE JUL 09 1996

CONDITIONS OF APPROVAL ATTACHED

NOTICE OF APPROVAL

\*See Instructions On Reverse Side

CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Equitable Resources Energy Company

Well Name & Number: Equitable Monument Federal 22-20-9-16

API Number: 43-013-31681

Lease Number: U - 52018

Location: SENW Sec. 20 T. 9S R. 16E

**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 **prior to setting the next casing string or requesting plugging orders**. Faxed copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

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

#### 2. Pressure Control Equipment

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

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

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

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 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 3,612 ft. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

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  $\pm$  3412 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.

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.

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 on initial 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 Field Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

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

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

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

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

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

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

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

Ed Forsman (801) 789-7077  
Petroleum Engineer

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

Jerry Kenczka (801) 789-1190  
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.

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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 PROGRAM  
CONDITIONS OF APPROVAL

Other Additional Information:

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 lands it is required that a Pesticide Use Proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or hazardous chemicals.

The following additional condition applies:

A high quality muffler shall be used on the engine powering the well. This will limit the noise originating at the well site.

CONFIDENTIAL

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: EQUITABLE RESOURCES

Well Name: MONUMENT FEDERAL 22-20-9-16

Api No. 43-013-31681

Section 20 Township 9S Range 16E County DUCHESNE

Drilling Contractor UNION

Rig #: 17

SPUDDED:

Date: 8/2/96

Time: 1:00 PM

How: ROTARY

Drilling will commence: \_\_\_\_\_

Reported by: D. INGRAM-DOGM

Telephone #: \_\_\_\_\_

Date: 8/6/96 Signed: FRM

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-64917**

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

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

8. Well Name and No.  
**Balc. Mon. Fed. #22-20-9-16**

9. API Well No.  
**43-~~077-3271~~-31681**

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

11. County or Parish, State  
**Duchesne Co., UTAH**

**SUBMIT IN TRIPLICATE**

1. Type of Well  
 Oil Well    Gas Well    Other

2. Name of Operator  
**Equitable Resources Energy Company**

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**SE NW Section 20, T9S, R16E      1980' FNL, 1980' FWL**

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

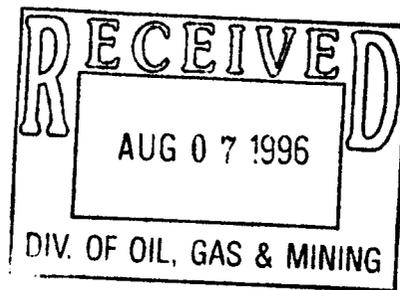
TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <b>Spud</b>
	<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.)\*

This well was spud at 12:30 p.m. on 8/2/96.

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



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

Signed *Bobbie Schuman*  
**Bobbie Schuman**  
(This space for Federal or State office use)

Title **Regulatory and Environmental Specialist**

Date *August 5, 1996*

Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title \_\_\_\_\_ Date \_\_\_\_\_

OPERATOR Equitable Resources Energy Company  
 ADDRESS 1601 Lewis Avenue  
Billings, MT 59102

OPERATOR ACCT. NO. N 9890

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	11961	<del>43-047-32711</del>	Balcron Mon. Fed. #22-20-9-16	SENW	20	9S	16E	Duchesne	8/2/96	8/2/96
WELL 1 COMMENTS: <i>43-013-311681</i> Spud of new well. <i>Entity added 8-7-96. Lee</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  
 D - Re-assign well from one existing entity to a new entity  
 E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.  
 (3/89)

**RECEIVED**  
 DATE: August 5, 1996  
**AUG 07 1996**  
 DIV. OF OIL, GAS & MINING

*Debi Schuman*  
 Signature  
 Regulatory and  
 Environmental Specialist  
 Phone No. (406) 259-7860

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

Oil Well     Gas Well     Other

2. Name of Operator

Equitable Resources Energy Company

3. Address and Telephone No.

1601 Lewis Avenue; Billings, MT 59102 (406) 259-7860

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

SE NW Section 20, T9S, R16E                      1980' FNL, 1980' FWL

5. Lease Designation and Serial No.

U-64917

6. If Indian, Allottee or Tribe Name

n/a

7. If Unit or CA, Agreement Designation

n/a

8. Well Name and No.

Balc. Mon. Fed. #22-20-9-16

9. API Well No. ~~013-31681~~  
43-647-52711

10. Field and Pool, or Exploratory Area

Monument Butte/Green River

11. County or Parish, State

Duchesne Co., UTAH

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 Spud
	<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

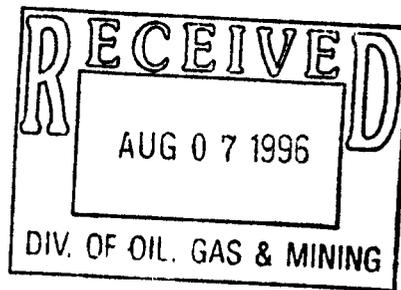
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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.)\*

COPY

This well was spud at 12:30 p.m. on 8/2/96.

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



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

Signed

*Bobbie Schuman*  
Bobbie Schuman

Title

Regulatory and  
Environmental Specialist

Date

August 5, 1996

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

V

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.  
**U-64917**

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

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

8. Well Name and No.  
**Balc. Monument Fed. 22-20-9-16**

9. API Well No. **OB-31081**  
~~43-017-3000~~

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**

3. Address and Telephone No.

**1601 Lewis Avenue; Billings, MT 59102 (406) 259-7860**

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

**SE NW Section 20, T9S, R16E  
1980' FNL, 1980' FWL**

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<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 <b>1st production</b>
	<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

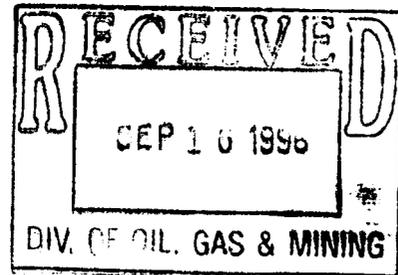
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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.)\*

This well started pumping on 9/11/96.

NOTE: Please disregard 8/23 notice - reported 1st production instead of spud.

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



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

Signed

*Bobbie Schuman*  
**Bobbie Schuman**

Title

**Regulatory and Environmental Specialist**

Date

**September 13, 1996**

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



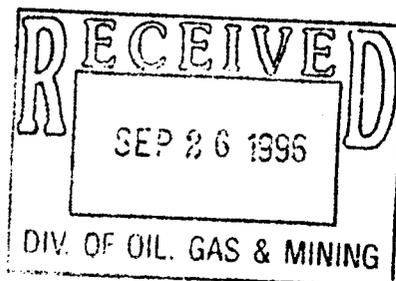
EQUITABLE RESOURCES  
ENERGY COMPANY

**WESTERN REGION**

1601 Lewis Avenue  
Billings, MT 59102

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

September 23, 1996



State of Utah  
Division of Oil, Gas, & Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, UT 84114-5801

Gentlemen:

RE: Monument State #32-2  
SW NE Section 2, T9S, R17E  
Uintah County, Utah  
API# 43-047-32737  
Lease #ML-45555

This letter is notice that the subject well was spud on 9-15-96.

Please feel free to contact me if you have any questions.

Sincerely,

Molly Conrad  
Operations Secretary

/mc

STATE OF MONTANA  
 DIVISION OF OIL, GAS AND MINING  
 ENTITY ACTION FORM - FORM 6

OPERATOR Equitable Resources Energy Company OPERATOR ACCT. NO. N 9890  
 ADDRESS 1601 Lewis Avenue  
Billings, MT 59102  
(406) 259-7860

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	12000	43-047-32737	Monument State #32-2	SWNE	2	9S	17E	Uintah	9-15-96	9-15-96
WELL 1 COMMENTS: Spud of a new well. <i>Entity added 9-27-96. Lee</i>											
A	11961	→	43-013- <del>32714</del> <sup>31681</sup>	Monument Fed. #22-20-9-16	SENE	20	9S	16E	Duchesne	8-2-96	8-2-96
WELL 2 COMMENTS: Spud of a new well. I beleive that the Entity form was not sent with the original sundry. <i>Entity previously added 8-7-96.</i>											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

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

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

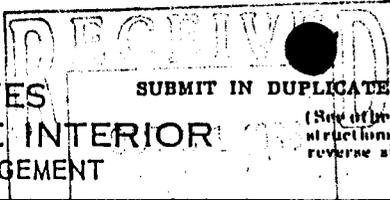
(3/89)

*Molly Conrad*  
 Signature  
 Operations Secretary: 9-23-96  
 Title Date

Phone No. ( )

*1. 10/11/96  
2. Copies*

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT



Form approved.  
Budget Bureau No. 1004-0137  
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other   
 b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RENVR.  Other

5. LEASE DESIGNATION AND SERIAL NO.  
U-52018  
 6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
n/a  
 7. UNIT AGREEMENT NAME  
n/a  
 8. FARM OR LEASE NAME  
MONUMENT FEDERAL  
 9. WELL NO.  
22-20-9-16  
 10. FIELD AND POOL, OR WILDCAT  
Monument Butte/Grn. Riv  
 11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
Section 20, T9S, R16E

**CONFIDENTIAL**

2. NAME OF OPERATOR  
Equitable Resources Energy Company

3. ADDRESS OF OPERATOR  
1601 Lewis Avenue, Billings, MT 59102 (406) 259-7860

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface SE NW Section 20, T9S, R16E 1980'FNL & 1980'FEL  
At top prod. interval reported below  
At total depth

12. COUNTY OR PARISH  
Uintah  
 13. STATE  
Utah

14. PERMIT NO. 43-013-31681  
 DATE ISSUED 7-10-96

15. DATE SPUDDED 8-2-96  
 16. DATE T.D. REACHED 8-10-96  
 17. DATE COMPL. (Ready to prod.) 9-11-96  
 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 6097 GL  
 19. ELEV. CASINGHEAD n/a

20. TOTAL DEPTH, MD & TVD 5750  
 21. PLUG, BACK T.D., MD & TVD 5659  
 22. IF MULTIPLE COMPL., HOW MANY\* n/a  
 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)\*  
4574-5277 Green River  
 25. WAS DIRECTIONAL SURVEY MADE  
NO

26. TYPE ELECTRIC AND OTHER LOGS RUN  
SDL/DNS DLL/GR MUD LOG CBL/GR/CCL 8-15-96  
 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#	263.07'KB	12 1/4"	160 sxs Super "G" w/additives	None
5 1/2"	15.5#	5706.50'KB	7 7/8"	181 sxs Super "G" w/additives	None

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"	6106'KB	n/a

31. PERFORATION RECORD (Interval, size and number)

4574-76(4 holes)	5073-76(2SPF)	5273-77(4SPF)
4632-38(10 holes)	5094-98(2SPF)	
4961-65(2SPF)	5115-19(2SPF)	
4972-77(2SPF)	5141-48(2SPF)	
5015-25(2SPF)	5151-53(2SPF)	

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
(See Attachment	For Information)

33.\* PRODUCTION

DATE FIRST PRODUCTION 9-11-96  
 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	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
10-14-96	24	n/a	→	22	N.M.	5	N.M.

FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
n/a	n/a	→	22	N.M.	5	N.M.

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)  
Used for fuel.  
 TEST WITNESSED BY Dale Griffin

35. LIST OF ATTACHMENTS  
#32

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records  
 SIGNED Molly Conrad TITLE Operations Secretary DATE 10-16-96

\*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
			NO DST's run./	Green River	1583	1583
				Horse Bench S.S.	2153	2153
				2nd Garden Gulch	3789	3789
				Yellow Marker	4404	4404
				Douglas Creek	4547	4547
				2nd Douglas Creek	4769	4769
				Green Marker	4891	4891
				Black Shale Facies	5338	5338
				Carbonate Marker	5435	5435

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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5. Lease Designation and Serial No.  
U-52018

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

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

8. Well Name and No.  
Mon. Fed. 22-20-9-16

9. API Well No.  
43-013-31681

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

11. County or Parish, State  
DUCHESENE  
Utah, Utah

SUBMIT IN TRIPLICATE

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
Equitable Resources Energy Company

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
SE NW Section 20, T9S, R16E  
1980' FNL, 1980' FEL

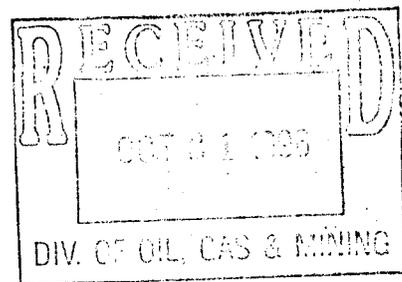
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<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering 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 a Site Security Diagram for this well.



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

Signed Molly Conrad

Title Operation Secretary

Date 10-16-96

(This space for Federal or State office use)

Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title \_\_\_\_\_

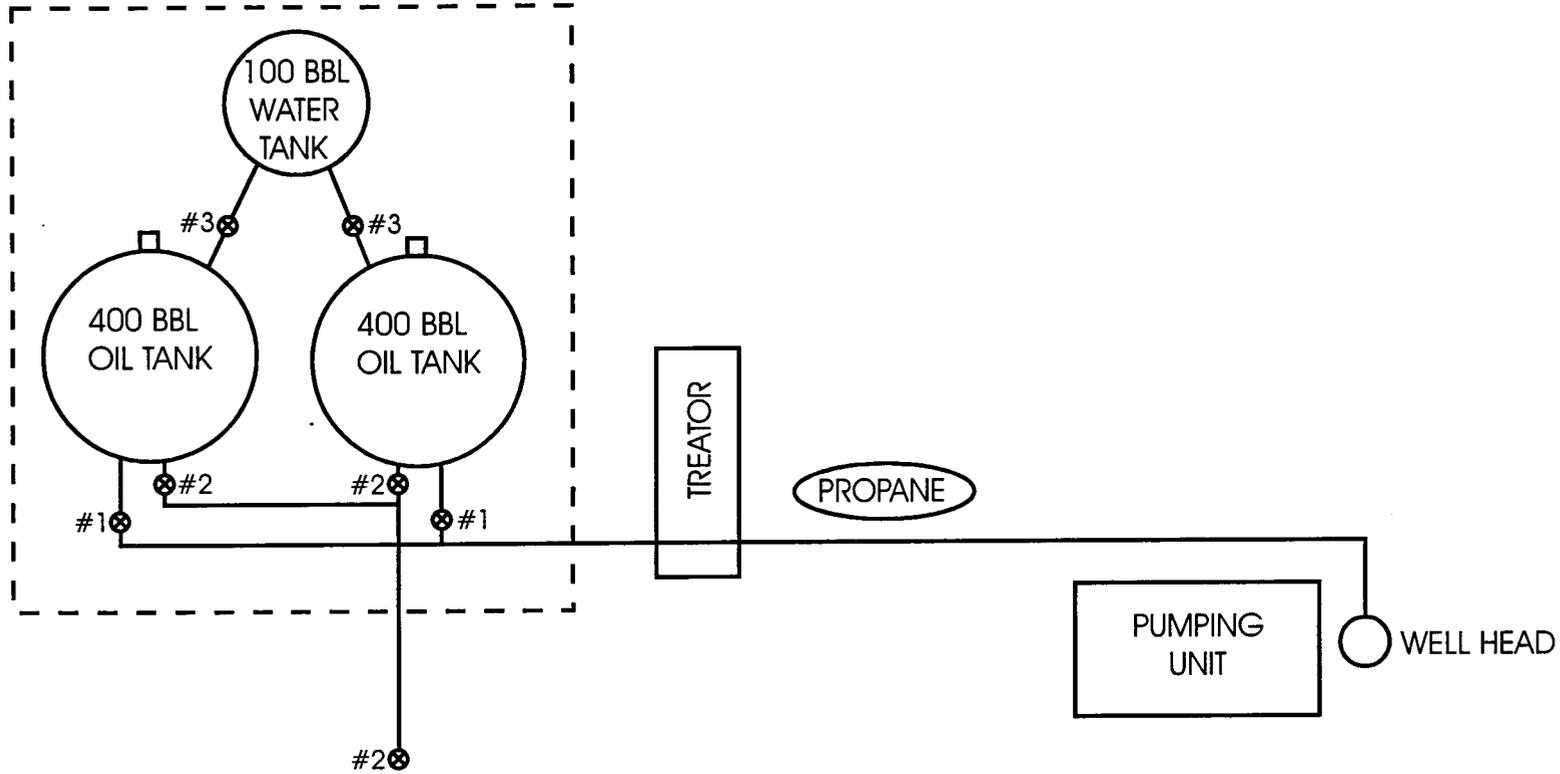
Date \_\_\_\_\_

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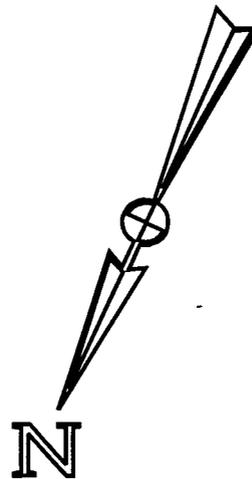
EQUITABLE RESOURCES ENERGY COMPANY  
 MONUMENT FEDERAL #22-20-9-16  
 PRODUCTION FACILITY DIAGRAM

MONUMENT FEDERAL 22-20-9-16  
 SE NW SEC. 20, T9S, R16E  
 DUCHESNE COUNTY, UTAH  
 FEDERAL LEASE #U-52018



ACCESS ROAD

VALVE DESCRIPTION		
	DURING PROD.	DURING SALES
VALVE #1	OPEN	CLOSED
VALVE #2	CLOSED	OPEN
VALVE #3	CLOSED	CLOSED



PLAN LOCATED AT:  
**EQUITABLE RESOURCES  
 ENERGY COMPANY**  
 WESTERN REGION

1601 Lewis Avenue  
 Billings, MT 59102  
 (406) 259-7860

OCTOBER 11, 1998

DIAGRAM NOT TO SCALE

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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U-52018

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

7. If Unit or CA, Agreement Designation  
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8. Well Name and No.  
Monument Federal 22-20-9-16

9. API Well No.  
43-013-31681

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

11. County or Parish, State  
Uintah, Utah

1. Type of Well  
 Oil Well    Gas Well    Other

2. Name of Operator  
Equitable Resources Energy Company

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
SE NW Section 20, T9S, R16E  
1980' FNL, 1980' FEL

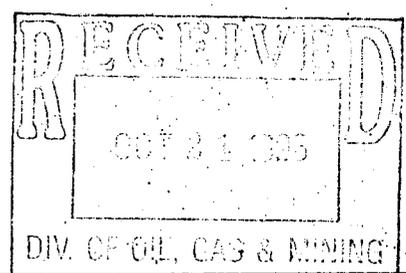
**12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
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	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Onshore Order #7</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.)\*

Any water produced by this well will be held in a produced water tank and trucked to a commercial disposal facility. The primary facility to be used is the R.N. Industries produced water disposal facility located in Section 9, T2S, R2W in Duchesne County, Utah. A copy of the State-issued permit for that facility is on file at the Vernal Bureau of Land Management. If for some reason the operator is unable to use this primary disposal facility, the produced water will be trucked to another State-approved disposal facility. If applicable, Operator has received approved Right-of-Way access to this well location for the Vernal Bureau of Land Management.



14. I hereby certify that the foregoing is true and correct  
Signed Molly Conrad Title Operations Secretary Date 10-16-96

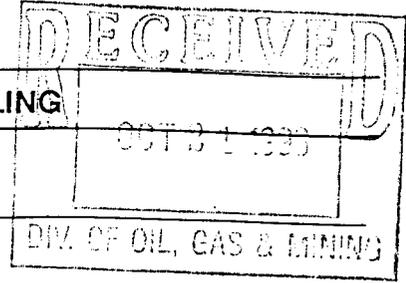
(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any:

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

*Copy State*

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING



REPORT OF WATER ENCOUNTERED DURING DRILLING

1. Well name and number: MONUMENT FEDERAL #22-20-9-16

API number: <sup>013</sup>#43-047-31681

2. Well Location: QQ \_\_\_\_\_ Section 20 Township 9 Range 16 County Uintah

3. Well operator: EREC Western Region

Address: 1601 Lewis Avenue

Billings, MT 59102

Phone: (406) 259-7860

4. Drilling contractor: Union Drilling

Address: Drawer 40

Buckhannon, West VA 26201

Phone: (304) 472-4610

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

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

6. Formation tops: SEE COMPLETION

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

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

Date: 10-16-96

Name & Signature: Molly Conrad

Title: \_\_\_\_\_

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-52018

6. If Indian, Allottee or Tribe Name

n/a

7. If Unit or CA, Agreement Designation

n/a

8. Well Name and No.

Bal. Mon. Fed. 22-20-9-16

9. API Well No.

43-013-31681

10. Field and Pool, or Exploratory Area

Monument Bute/Grn. 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

3. Address and Telephone No.

1601 Lewis Avenue; Billings, MT 59102 (406) 259-7860

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

SE NW Section 20, T9S, R16E  
1980' FNL, 1980' 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 Correction
- Change of Plans  
 New Construction  
 Non-Routine Fracturing  
 Water Shut-Off  
 Conversion to Injection  
 Dispose Water

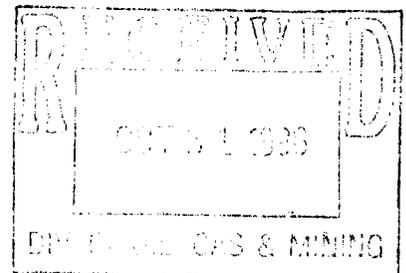
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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 is being submitted to correct the notice of first production sundry notice that was previously sent. An incorrect lease number and API number was given.

First production on this well was 9/11/96.

ORIGINAL: Bureau of Land Management (Vernal. UT)  
COPY: Utah Division of Oil, Gas and Mining



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

Signed Bobbie Schuman

Title Regulatory and Environmental Specialist

Date October 14, 1996

(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

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

5. Lease Designation and Serial Number:

See Attached

6. If Indian, Allottee or Tribe Name:

n/a

7. Unit Agreement Name:

See Attached

8. Well Name and Number:

See Attached

9. API Well Number:

See Attached

10. Field and Pool, or Wildcat:

See Attached

1. Type of Well: OIL  GAS  OTHER:

2. Name of Operator:

Inland Production Company

3. Address and Telephone Number:

475 - 17th Street, Suite 1500, Denver, CO 80202

4. Location of Well

Footages: See Attached Exhibit

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

County:

State:

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 Change of Operator
- 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 Change of Operator
- New Construction
- Pull or Alter Casing
- Reperforate
- Vent or Flare
- Water Shut-Off

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 1 1997

13.

Name & Signature:

CHRIS A. POTTER, ATTORNEY-IN-FACT

Date:

9/30/97

(This space for State use only)



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Vernal District Office  
170 South 500 East  
Vernal, Utah 84078-2799

Phone: (801) 781-4400  
Fax: (801) 781-4410

IN REPLY REFER TO:

3162.3  
UT08438

December 9, 1997

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

43-013-31681  
Re: Well No. Monument Fed 22-20-9-16  
SENW, Sec. 20, T9S, R16E  
Lease U-52018  
Duchesne County, Utah

Dear Sir:

This correspondence is in regard to the self-certification statement submitted requesting a change in operator for the referenced well. After a review by this office, the change in operator request is approved. Effective immediately, Inland Production Company is responsible for all operations performed on the referenced well. All liability will now fall under your bond, BLM Bond No. UT0056, for all operations conducted on the referenced well on the leased land.

If you have any other questions concerning this matter, please contact Margie Herrmann or Pat Sutton of this office at (435) 781-4400.

Sincerely,

Howard B. Cleavinger II  
Assistant Field Manager,  
Minerals Resources

cc: Division of Oil, Gas & Mining  
Equitable Resources Energy Company  
L&W Oil Company

INLAND

Inland Resources Change of Operator							
WELL NAME	LOCATION	COUNTY	ST	FIELD NAME	API NUMBER	LEASE NO.	AGEEMENT
✓ WALTON FEDERAL #1	SESE 119S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-15792-00	UTU096550	UTU72086A
✓ WALTON FEDERAL #2	NWNE 149S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-15793-00	UTU096550	UTU72086A
WALTON FEDERAL #34-11	SWSE 119S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-31003-00	UTU096550	UTU72086A
✓ WALTON FEDERAL #4	SENW 119S 16E	DUCHESNE	UT	MONUMENT BUTTE (J)	43-013-15795-00	UTU096550	UTU72086A
✓ ALLEN FEDERAL #31-6G	NWNE 6 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (U)	43-013-31442-00	UTU020252A	
✓ BALCRON FEDERAL #21-13Y	NENW 139S 16E	DUCHESNE	UT	MONUMENT BUTTE (U)	43-013-31400-00	UTU64805	
✓ BALCRON FEDERAL #21-25Y	NENW 259S 16E	DUCHESNE	UT	MONUMENT BUTTE (U)	43-013-31394-00	UTU64380	
✓ BALCRON FEDERAL #44-14Y	SESE 149S 17E	UINTAH	UT	MONUMENT BUTTE (U)	43-047-32438-00	UTU64806	
✓ CASTLE PEAK FEDERAL #24-10A	SESW 169S 16E	DUCHESNE	UT	MONUMENT BUTTE (U)	43-013-30555-00	UTU72107	
✓ CASTLE PEAK STATE #43-16	NESE 169S 16E	DUCHESNE	UT	MONUMENT BUTTE (U)	43-013-30594-00		891008243C
✓ K. JORGENSON STATE #16-4	NESE 169S 17E	DUCHESNE	UT	MONUMENT BUTTE (U)	43-013-30572-00	ML-3453-B	
✓ STATE #16-2	NENE 169S 17E	DUCHESNE	UT	MONUMENT BUTTE (U)	43-013-30552-00	ML-3453-B	
✓ BALCRON FEDERAL #21-9Y	NENW 9 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31396-00	UTU65207	
✓ BALCRON FEDERAL #41-21Y	NENE 219S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31392-00	UTU64379	
✓ MONUMENT FEDERAL #31-6-9-16	NWNE 6 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31717-00	UTU74390	
✓ MONUMENT FEDERAL #32-6-9-16Y	SW NE 6 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31300-00	UTU74390	
✓ MONUMENT FEDERAL #42-6-9-16Y	SE NW 6 9S 15E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31645-00	UTU74390	
✓ MONUMENT FEDERAL #41-6-9-16	NENE 6 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31718-00	UTU74390	
✓ MONUMENT FEDERAL #31-8-9-16	NW NE 8 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31721-00	UTU020255	
✓ MONUMENT FEDERAL #41-8-9-16	NENE 8 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31619-00	UTU020255	
✓ MONUMENT FEDERAL #11-9-9-16	NW NW 9 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31618-00	UTU020254	
✓ MONUMENT FEDERAL #33-6-9-16Y	NW SE 6 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31589-00	UTU74390	
✓ MONUMENT FEDERAL #43-6-9-16Y	NE SE 6 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31644-00	UTU74390	
✓ MONUMENT FEDERAL #44-6-9-16Y	SE SE 6 9S 15E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31720-00	UTU74390	
✓ MONUMENT FEDERAL #31-18-9-16	NW NE 189S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31725-00	UTU74390	
✓ MONUMENT FEDERAL #41-18Y	NE NE 189S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31646-00	UTU74390	
✓ MONUMENT FEDERAL #42-18Y	SE NE 189S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31724-00	UTU74390	
✓ MONUMENT FEDERAL #31-21-9-16	NW NE 219S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31726-00	UTU64379	
✓ MONUMENT FEDERAL #11-22Y	NW NW 229S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31647-00	UTU64379	
✓ MONUMENT FEDERAL #13-4-9-16	NW SW 4 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31716-00	UTU73086	
✓ MONUMENT FEDERAL #14-4	SWSW 4 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31666-00	UTU73086	
✓ MONUMENT FEDERAL #22-20-9-16	SE NW 209S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31681-00	UTU52018	
✓ MONUMENT FEDERAL #23-7-9-16	NESW 7 9S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31694-00	UTU74390	
✓ MONUMENT FEDERAL #24-17-9-16	SESW 179S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31682-00	UTU52018	
✓ MONUMENT BUTTE #34-31-8-16	SW SE 318S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31715-00	UTU74389	
✓ MONUMENT FEDERAL #33-10-9-16	NW SE 109S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31722-00	UTU72107	
✓ MONUMENT BUTTE #43-10-9-16	NE SE 109S 16E	DUCHESNE	UT	MONUMENT BUTTE (W)	43-013-31723-00	UTU72107	
✓ CHORNEY FEDERAL #1-9	SWSE 9 9S 19E	UINTA	UT	PARIETTE BENCH	43-047-30070-00	UTU5843	
✓ HENDEL FEDERAL #1	SWSW 9 9S 19E	UINTA	UT	PARIETTE BENCH	43-047-20011-00	UTU058149	



RECEIVED  
OCT 16 1997

October 7, 1997

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



RE: Change of Operator  
Duchesne & Vernal Counties, Utah

Dear Mr. Forsman:

Please find attached Sundry Notices and Reports on Wells for Change of Operator, previously operated by Equitable Resources Energy Company for approval.

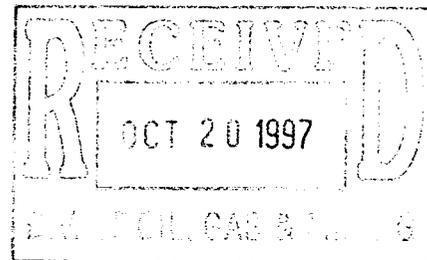
If you should have questions regarding this matter, please do not hesitate to contact me at the number listed below.

Sincerely,

INLAND PRODUCTION COMPANY

  
Patsy Barreau

/pb  
encls.





**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,

A handwritten signature in cursive script that reads "Molly Conrad".

Molly Conrad  
Agent for Equitable Resources  
Energy Company

/mc



Crazy Mountain Oil & Gas Services  
P.O. Box 577  
Laurel, MT 59044  
(406) 628-4164  
(406) 628-4165

TO: Lisha  
St of Utah.

FROM: Molly Conrad  
Crazy Mountain Oil & Gas Services  
(406) 628-4164

Pages Attached - Including Cover Sheet 2.

NOTE: Here is the letter you requested.  
Call if you need anything  
further.

**OPERATOR CHANGE WORKSHEET**

Attach all documentation received by the division regarding this change.

Initial each listed item when completed. Write N/A if item is not applicable.

Routing	
1-LEC	6-LEC
2-GLH	7-KAS
3-DTS	8-SI
4-VLD	9-FILE
5-IRB	

- 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

<p>TO: (new operator) <u>INLAND PRODUCTION COMPANY</u> FROM: (old operator) <u>EQUITABLE RESOURCES ENERGY</u>                  (address) <u>PO BOX 1446</u> (address) <u>C/O CRAZY MTN O&amp;G SVS</u>  <u>ROOSEVELT UT 84066</u>  <u>Phone: (801)722-5103</u>  <u>Account no. N5160</u></p>	<p><u>PO BOX 577</u>  <u>LAUREL MT 59044</u>  <u>Phone: (406)628-4164</u>  <u>Account no. N9890</u></p>
--	---

WELL(S) attach additional page if needed:

Name: <u>HENDEL FED. 1-9/GRRV</u>	API: <u>43-047-20011</u>	Entity: <u>1310</u>	S <u>9</u>	T <u>9S</u>	R <u>19E</u>	Lease: <u>U058149</u>
Name: <u>FEDERAL 24-3Y/GRRV</u>	API: <u>43-013-31397</u>	Entity: <u>11493</u>	S <u>3</u>	T <u>9S</u>	R <u>17E</u>	Lease: <u>U64381</u>
Name: <u>FEDERAL 21-25Y/GRRV</u>	API: <u>43-013-31394</u>	Entity: <u>11530</u>	S <u>25</u>	T <u>9S</u>	R <u>16E</u>	Lease: <u>U64380</u>
Name: <u>MONUMENT 14-3-9-17Y/GR</u>	API: <u>43-013-31535</u>	Entity: <u>11857</u>	S <u>3</u>	T <u>9S</u>	R <u>17E</u>	Lease: <u>U64381</u>
Name: <u>MONUMENT 22-20-9-16/GR</u>	API: <u>43-013-31681</u>	Entity: <u>11961</u>	S <u>20</u>	T <u>9S</u>	R <u>16E</u>	Lease: <u>U52018</u>
Name: <u>MONUMENT 24-17-9-16/GR</u>	API: <u>43-013-31682</u>	Entity: <u>11994</u>	S <u>17</u>	T <u>9S</u>	R <u>16E</u>	Lease: <u>U52018</u>
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____

**OPERATOR CHANGE DOCUMENTATION**

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)*
2. (r649-8-10) Sundry or other legal documentation has been received from the NEW operator (Attach to this form). *(Rec'd 10-20-97)*
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: \_\_\_\_\_
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.
5. Changes have been entered in the Oil and Gas Information System (3270) for each well listed above. *(12-15-97)*
6. Cardex file has been updated for each well listed above. *(12-15-97)*
7. Well file labels have been updated for each well listed above. *(12-15-97)*
8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to Trust Lands, Sovereign Lands, UGS, Tax Commission, etc. *(12-15-97)*
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. (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.
- 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 1. (r649-3-1) The NEW operator of any fee lease well listed above has furnished a proper bond.
- See 2. A copy of this form has been placed in the new and former operator's bond files.
3. The FORMER operator has requested a release of liability from their bond (yes/no)    , as of today's date    . If yes, division response was made to this request by letter dated    .

**LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY**

- N/A 1. Copies of documents have been sent on     to     at Trust Lands for changes involving State leases, in order to remind that agency of their responsibility to review for proper bonding.
- N/A 2. (r649-2-10) The former operator of any fee lease wells listed above has been contacted and informed by letter dated     19    , of their responsibility to notify all interest owners of this change.

**FILMING**

- ✓ 1. All attachments to this form have been microfilmed. Today's date: JAN 06 1998.

**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**

971215 BLM / aprv. 12-9-97.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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-52018**

6. If Indian, Allottee or Tribe Name  
**NA**

7. If Unit or CA, Agreement Designation  
**NA**

8. Well Name and No.  
**MONUMENT FEDERAL 22-20-9-16**

9. API Well No.  
**43-013-31681**

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, Section, m., or Survey Description)  
**1980 FNL 1980 FEL SE/NW Section 20, T09S R16E**

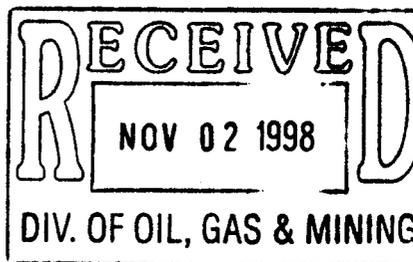
12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input 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</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 *Debbie E. Knight* Title Manager, Regulatory Compliance Date 10/28/98

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any:

**CC: UTAH DOGM**

# Inland Production Company

## Site Facility Diagram

Monument Federal 22-20

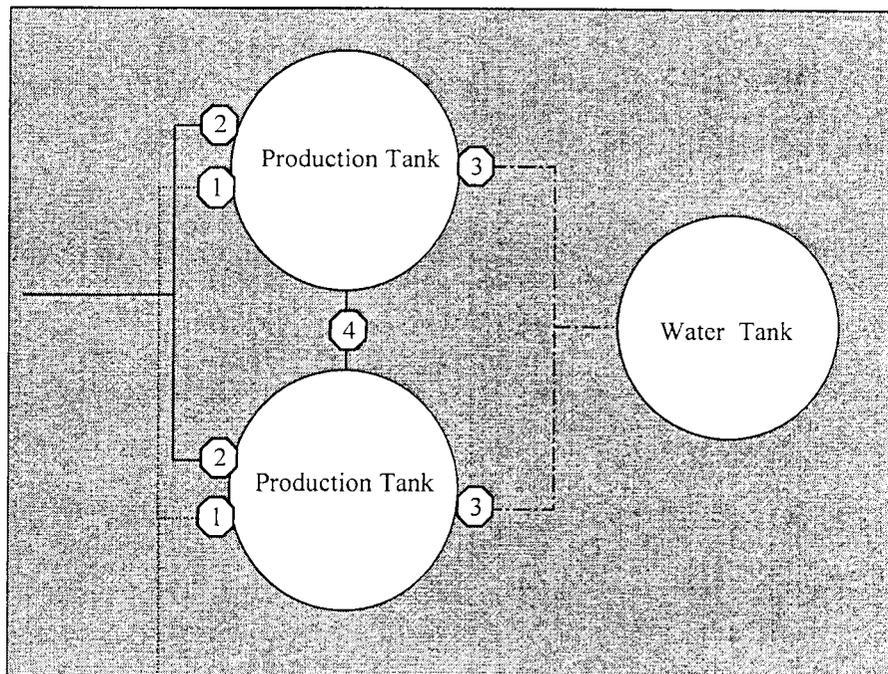
SE/NW Sec. 20, T9S, 16E

Duchesne County

Sept. 17, 1998

### Legend

Emulsion Line	.....
Load Line	————
Water Line	- - - - -
Gas Sales	.....



Site Security Plan is held at the Roosevelt Office, Roosevelt Utah

### Production Phase:

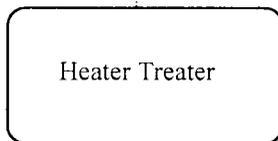
- 1) Valves 1 and 3 sealed closed
- 2) Valves 2 and 4 sealed open

### Sales Phase:

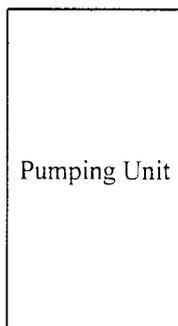
- 1) Valves 3 & 4 sealed closed
- 2) Valves 1 open

### Draining Phase:

- 1) Valve 3 open



Diked Section



Well Head



## 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 1<sup>st</sup> 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		



# 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



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

**SUNDRY NOTICES AND REPORTS ON WELLS**

5. LEASE DESIGNATION AND SERIAL NUMBER:

USA UTU-52018

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

GMBU

8. WELL NAME and NUMBER:

MONUMENT FED 22-20-9-16

9. API NUMBER:

4301331681

10. FIELD AND POOL, OR WILDCAT:

GREATER MB UNIT

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL:

OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR:

NEWFIELD PRODUCTION COMPANY

3. ADDRESS OF OPERATOR:

Route 3 Box 3630 CITY Myton STATE UT ZIP 84052

PHONE NUMBER

435.646.3721

4. LOCATION OF WELL:

FOOTAGES AT SURFACE: 1980 FNL 1980 FWL

COUNTY: DUCHESNE

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SENW, 20, T9S, R16E

STATE: UT

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 (Submit in Duplicate)  Approximate date work will  _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  01/04/2010	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Correct Surface Location
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

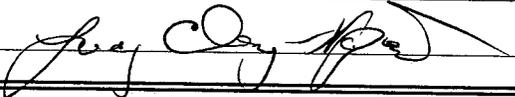
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Monument Federal 22-20-9-16  
1980' FNL & 1980' FWL (SE/NW)  
Sec 20, T9S, R16E

NAME (PLEASE PRINT) Lucy Chavez-Naupoto

TITLE Administrative Assistant

SIGNATURE



DATE 01/04/2011

(This space for State use only)

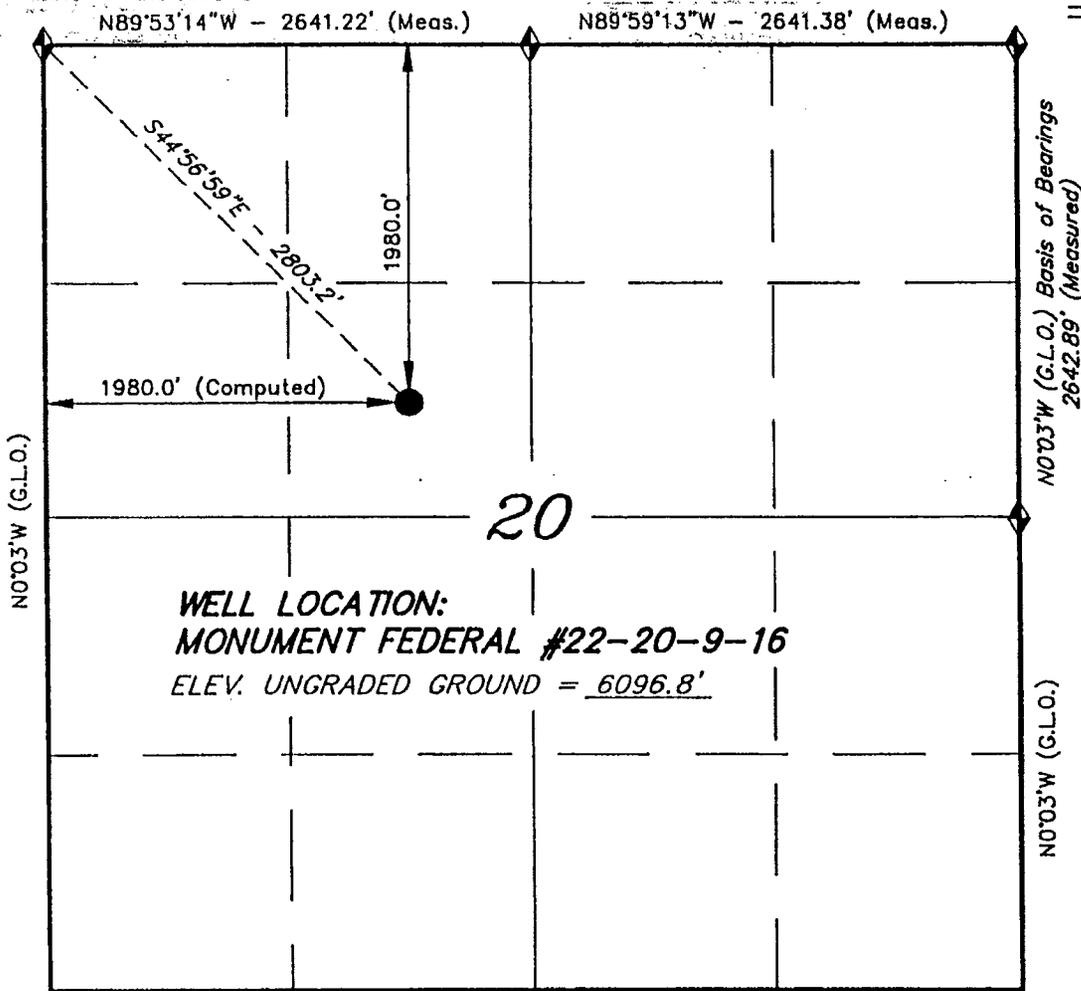
**RECEIVED**

**JAN 06 2011**

**DIV. OF OIL, GAS & MINING**

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

**EQUITABLE RESOURCES ENERGY CO.**



WELL LOCATION, MONUMENT FEDERAL #22-20-9-16, LOCATED AS SHOWN IN THE SE 1/4 NW 1/4 OF SECTION 20, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



**WELL LOCATION:**  
**MONUMENT FEDERAL #22-20-9-16**  
 ELEV. UNGRADED GROUND = 6096.8'

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

**STACY W. STEWART**  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 144102  
 STATE OF UTAH

**TRI STATE LAND SURVEYING & CONSULTING**

38 WEST 100 NORTH - VERNAL, UTAH 84078  
 (801) 781-2501

SCALE: 1" = 1000'	SURVEYED BY: S.S. D.S.
DATE: 3-13-96	WEATHER: COLD & WINDY
NOTES:	FILE #

◆ = SECTION CORNERS LOCATED

BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (MYTON SW)

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-52018
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> MON FED 22-20-9-16
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY	<b>9. API NUMBER:</b> 43013316810000
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052	<b>PHONE NUMBER:</b> 435 646-4825 Ext
<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE	<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1980 FNL 1980 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENW Section: 20 Township: 09.0S Range: 16.0E Meridian: S
	<b>COUNTY:</b> DUCHESNE  <b>STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>10/28/2013</b>  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION  OTHER: <input type="text" value="OAP to Current Formation"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Newfield proposes to perforate and fracture stimulate the following: GB-4 4069-4074 and GB-6 4124-4134 with in the current production formation (Green River).

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining**

**Date:** November 05, 2013

**By:** *Derek Quist*

<b>NAME (PLEASE PRINT)</b> Mandie Crozier	<b>PHONE NUMBER</b> 435 646-4825	<b>TITLE</b> Regulatory Tech
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/28/2013	

**NEWFIELD**



**Newfield Exploration Company**

1001 17th Street | Suite 2000

Denver, Colorado 80202

PH 303-893-0102 | FAX 303-893-0103

June 4, 2013

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  
Monument Federal #22-20-9-16  
Monument Butte Field, Lease #UTU-52018  
Section 20-Township 9S-Range 16E  
Duchesne County, Utah

RECEIVED

JUN 05 2013

DIV. OF OIL, GAS & MINING

Dear Mr. Reinbold:

Newfield Production Company herein requests approval to convert the Monument Federal #22-20-9-16 from a producing oil well to a water injection well in the Monument Butte (Green River) Field.

I hope you find this application complete; however, if you have any questions or require additional information, please contact me at (303) 893-0102.

Sincerely,

Eric Sundberg  
Environmental Manager

**NEWFIELD PRODUCTION COMPANY**  
**APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL**  
**MONUMENT FEDERAL #22-20-9-16**  
**MONUMENT BUTTE FIELD (GREEN RIVER) FIELD**  
**LEASE #UTU-52018**  
**JUNE 4, 2013**

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STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR Newfield Production Company  
ADDRESS 1001 17th Street, Suite 2000  
Denver, Colorado 80202

Well Name and number: Monument Federal #22-20-9-16  
Field or Unit name: Monument Butte (Green River) Lease No. UTU-52018  
Well Location: QQ SENW section 20 township 9S range 16E county Duchesne

Is this application for expansion of an existing project? . . . . . Yes [ X ] No [ ]  
Will the proposed well be used for: Enhanced Recovery? . . . . . Yes [ X ] No [ ]  
Disposal? . . . . . Yes [ ] No [ X ]  
Storage? . . . . . Yes [ ] No [ X ]  
Is this application for a new well to be drilled? . . . . . Yes [ ] No [ X ]  
If this application is for an existing well,  
has a casing test been performed on the well? . . . . . Yes [ ] No [ X ]  
Date of test: \_\_\_\_\_  
API number: 43-013-31681

Proposed injection interval: from 3893 to 5659  
Proposed maximum injection: rate 500 bpd pressure 1267 psig  
Proposed injection zone contains [ x ] oil, [ ] gas, and/or [ ] fresh water within 1/2  
mile of the well.

**IMPORTANT:** Additional information as required by R615-5-2 should accompany this form.

List of Attachments: Attachments "A" through "H-1"

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

Name: Eric Sundberg Signature   
Title Environmental Manager Date 12/13  
Phone No. (303) 893-0102

(State use only)  
Application approved by \_\_\_\_\_ Title \_\_\_\_\_  
Approval Date \_\_\_\_\_

Comments:

# Monument Federal #22-20

Elev.GR - 6097' GL  
Elev.KB - 6107' KB (10' KB)

## Proposed Injection Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 253.07'  
DEPTH LANDED: 263.07' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sks super "G", 2% CaCl<sub>2</sub>, 1/4#/sk Cello-flake.  
Returned 10 bbis to pit.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 5696.50'  
DEPTH LANDED: 5706.50' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 181 sks super "G", 3% salt, 2% gel, 2#/sk Kol-seal, 1/4#/sk Cello-flake, Tail w/ 400 sks 50/50 POZ, 2% gel, 1/4#/sk Cello-flake, 2#/sk Kol-seal.

CEMENT TOP AT: 1110' KB

### TUBING

SIZE/GRADE/WT.: 2-7/8" 8rd EUE / J-55 / 6.5#  
NO. OF JOINTS: 144 Jts (4513.91')  
TUBING ANCHOR: 2-7/8"x5-1/2"x2.75'  
NO. OF JOINTS: 25 Jts (778.60')  
SEATING NIPPLE: 2-7/8"x1.10'  
PERFORATED SUB: 2-7/8"x4.20'  
MUD ANCHOR: 2-7/8"x31.40'  
STRING LENGTH: 5342.36'  
SN LANDED AT: 5305.26' KB

Cement Top@ 1110'

### ACID JOB /BREAKDOWN

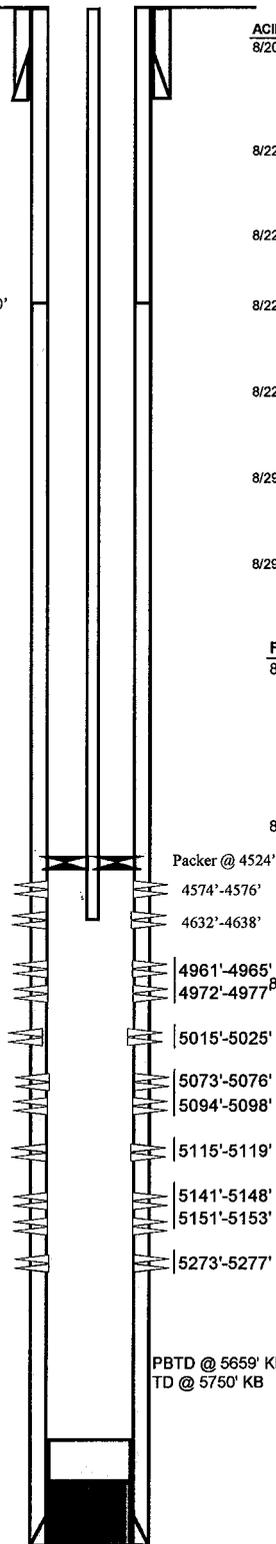
Date	Interval	Services
8/20/96	5273'-5277'	BJ Services: 2058 gal 2% KCL water w/ 32 ball sealers. Ball action but no ball off. ATP= 3000 psi, ATR= 3.5 bpm, ISIP= 1920 psi.
8/22/96	4961'-4965' 4972'-4977'	BJ Services: 1806 gal 2% KCL water w/ 28 ball sealers. Balled off. ATP= 2200 psi, ATR= 4.0 bpm, ISIP= 1500 psi.
8/22/96	5015'-5025'	BJ Services: 2100 gal 2% KCL water w/ 40 ball sealers. Balled off. ATP= 2600 psi, ATR= 3.6 bpm, ISIP= 1500 psi.
8/22/96	5073'-5076' 5094'-5098' 5115'-5119'	BJ Services: 2394 gal 2% KCL water w/ 44 ball sealers. Balled off. ATP= 2500 psi, ATR= 4.0 bpm, ISIP= 1300 psi.
8/22/96	5141'-5148' 5151'-5153'	BJ Services: 2436 gal 2% KCL w water w/ 36 ball sealers. Balled off. ATP= 3600 psi, ATR= 3.4 bpm, ISIP= 2100 psi.
8/29/96	4574'-4576'	BJ Services: 1554 gal 2% KCL water w/ 8 ball sealers. Balled off. ATP= 2700 psi, ATR= 4.2 bpm, ISIP= 1550 psi.
8/29/96	4632'-4638'	BJ Services: 1722 gal 2% KCL water w/ 20 ball sealers. Ball action but no ball off. ATP= 3000 psi, ATR= 3.8 bpm, ISIP= 1400 psi.

### FRAC JOB

Date	Interval	Services
8/21/96	5273'-5277'	BJ Services: 11,214 gal 2% KCL water w/ 5700# 20/40 sand & 10,000# 16/30 sand. ATP= 3500 psi, ATR= 19.8 bpm, ISIP= 2430 psi, 5 min= 2150 psi, 10 min= 2090 psi, 15 min= 2020 psi, 30 min= 1910 psi.
8/23/96	4961'-5153'	BJ Services: 52,626 gal 2% KCL water w/ 52,200# 20/40 sand & 119,780# 16/30 sand. ATP= 2800 psi, ATR= 55.8 bpm, ISIP= 2110 psi, 5 min= 1756 psi, 10 min= 1630 psi, 15 min= 1560 psi, 30 min= 1450 psi.
8/30/96	4574'-4576' 4632'-4638'	BJ Services: 13,398 gal 2% KCL water w/ 36,400# 16/30 sand. ATP= 3500 psi, ATR= 29.8 bpm, ISIP= 1870 psi, 5 min= 1600 psi, 10 min= 1430 psi, 15 min= 1330 psi, 30 min= 1090 psi.

### PERFORATION RECORD

Date	Company	Interval	SPF
8/20/96	Schlumberger	5273'-5277'	4 SPF
8/22/96	Schlumberger	4961'-4965' 4972'-4977'	2 SPF
		5015'-5025'	2 SPF
		5073'-5076'	2 SPF
		5094'-5098'	2 SPF
		5115'-5119'	2 SPF
		5141'-5148'	2 SPF
		5151'-5153'	2 SPF
8/29/96	Schlumberger	4574'-4576' 4632'-4638'	4 Holes 10 Holes



**NEWFIELD**

Monument Butte  
Lease #U-52018  
SE NW Section 20, T9S, R16E  
1980' FNL, 1980' FWL  
Duchesne County, Utah

API # 43-013-31681

## 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 17<sup>th</sup> 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 Monument Federal #22-20-9-16 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 Monument Federal #22-20-9-16 well, the proposed injection zone is from Garden Gulch to Castle Peak (3893' - 5659'). 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 3568' and the TD is at 5750'.

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

The referenced log for the Monument Federal #22-20-9-16 is on file with the Utah Division of Oil, Gas and Mining.

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

The primary type and source of fluid to be used for injection will be culinary water commingled with produced water. The average estimated injection of fluids will be at a rate of 300 BPD, and the estimated maximum injection will be at a rate of 500 BPD.

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

See Attachment B.

**2.9 An affidavit certifying that said operators or owners and surface owners within a one-half mile radius have been provided a copy of the petition for injection.**

See Attachment C.

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

Newfield Production Company will supply any additional information requested by the Utah Division of Oil, Gas and Mining.

**4.0 Establish recovery projects may be expanded and additional wells placed on injection only upon authority from the Board after notice and hearing or by administrative approval.**

This proposed injection well is on a Federal lease (Lease #UTU-52018) 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 263' KB, and 5-1/2", 15.5# casing run from surface to 5707' 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 1267 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 Monument Federal #22-20-9-16, for existing perforations (4574' - 5277') calculates at 0.69 psig/ft. The maximum injection pressures will be limited so as not to exceed this gradient. A step rate test will be performed periodically to ensure we are below parting pressure. The proposed maximum injection pressure is 1267 psig. We may add additional perforations between 3568' and 5750'. 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 Monument Federal #22-20-9-16, the proposed injection zone (3893' - 5659') 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-9.

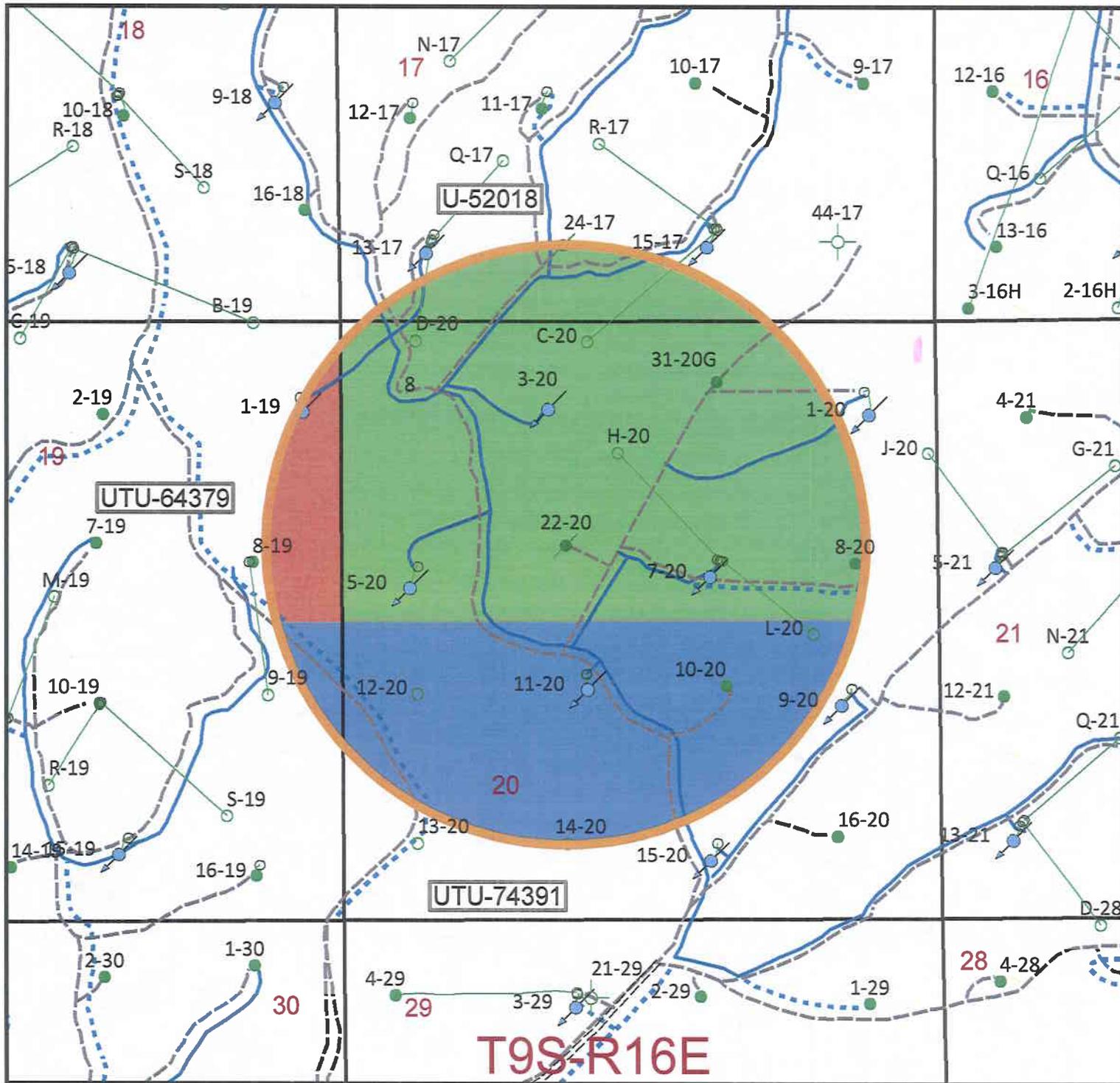
Additionally, the injection system will be equipped with high and low pressure shut down devices that will automatically shut in injection waters if a system blockage or leakage occurs. One way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure relief.

**2.11 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.



**Leases**

- U-52018
- UTU-64379
- UTU-74391
- WellStatus\_HalfMile\_Buffer

**Well Status**

- Location
- CTI
- Surface Spud
- Drilling
- Waiting on Completion
- Producing Oil Well
- Producing Gas Well
- Water Injection Well
- Dry Hole
- Temporarily Abandoned
- Plugged & Abandoned
- Shut In

**Countyline**

- Countyline

**Injection system**

- high pressure
- low pressure
- proposed
- return
- return proposed

**Mining tracts**

- Mining tracts

**Federal 22-20**  
Section 20, T9S-R16E

**NEWFIELD**  
ROCKY MOUNTAINS in = 1,250 feet

**1/2 Mile Radius Map**  
Duchesne & Uintah Counties

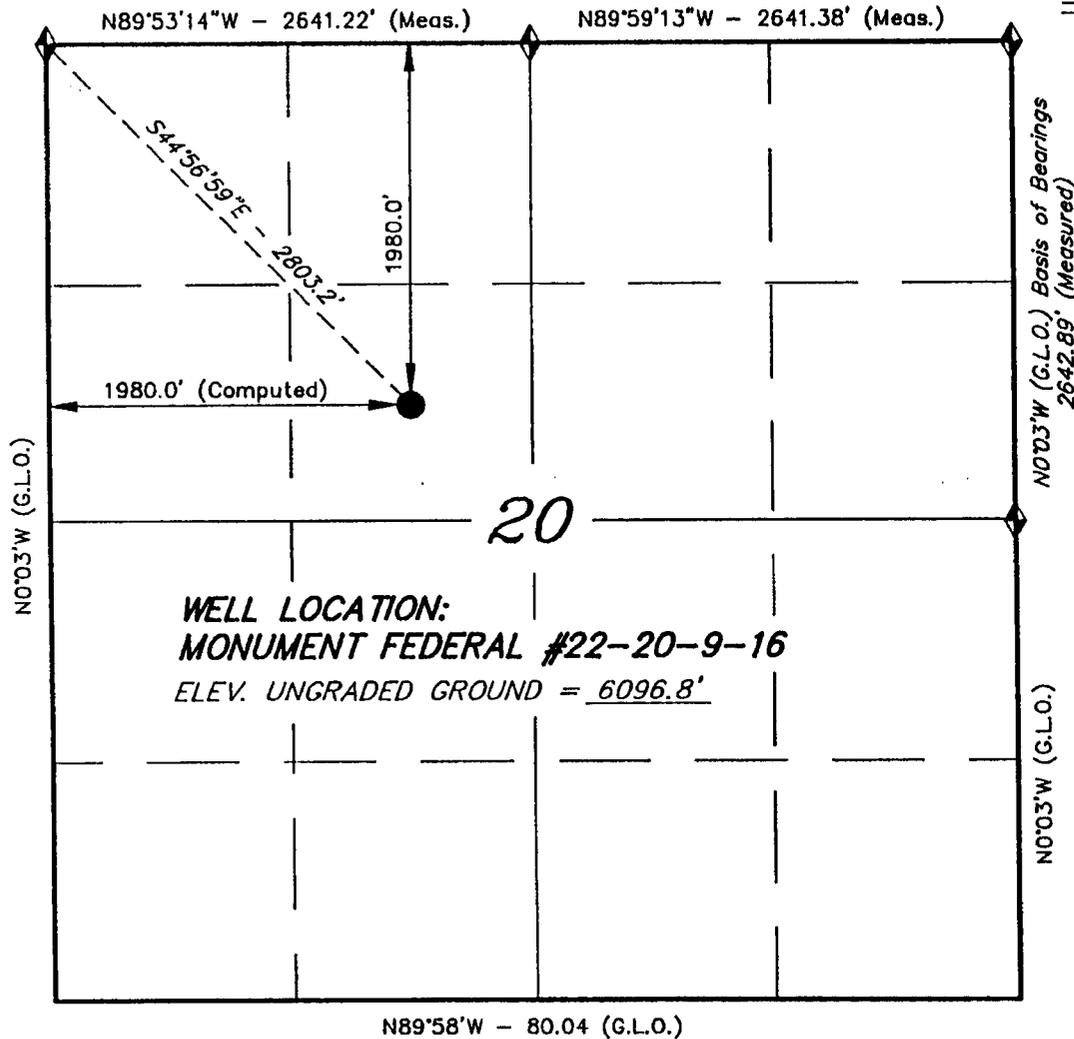
1001 17th Street Suite 2000  
Denver, Colorado 80202  
Phone: (303) 899-0102

April 16, 2013

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

**EQUITABLE RESOURCES ENERGY CO.**

WELL LOCATION, MONUMENT FEDERAL #22-20-9-16, LOCATED AS SHOWN IN THE SE 1/4 NW 1/4 OF SECTION 20, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



**WELL LOCATION:  
MONUMENT FEDERAL #22-20-9-16  
ELEV. UNGRADED GROUND = 6096.8'**



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

STACY W. STEWART  
REGISTERED LAND SURVEYOR  
REGISTRATION No. 14402  
STATE OF UTAH

**TRI STATE LAND SURVEYING & CONSULTING**

38 WEST 100 NORTH - VERNAL, UTAH 84078  
(801) 781-2501

SCALE: 1" = 1000'

SURVEYED BY: S.S. D.S.

DATE: 3-13-96

WEATHER: COLD & WINDY

NOTES:

FILE #

◆ = SECTION CORNERS LOCATED

BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (MYTON SW)

EXHIBIT B

#	Legal Description	Lessor & Expiration	Lessee & Operating Rights	Surface Owner
1	T9S-R16E SLM Section 17: S2 Section 20: N2	USA UTU-52018 HBP	Newfield Production Company Newfield RMI LLC	USA
2	T9S-R16E SLM Section 19: E2SW, SE, LOTS 3, 4 Section 20: S2 Section 29: All Section 30: All	USA UTU-74391 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 8: SWNE, SE Section 9: SWSW Section 17: NE Section 18: E2SW, SE, LOTS 3,4 Section 19: NE, E2NW, LOTS 1,2 Section 21: N2 Section 22: W2NE, SENE, NW	USA UTU-64379 HBP	Newfield Production Company Newfield RMI LLC Yates Petroleum Corp	USA

ATTACHMENT C

CERTIFICATION FOR SURFACE OWNER NOTIFICATION

RE: Application for Approval of Class II Injection Well  
Monument Federal #22-20-9-16

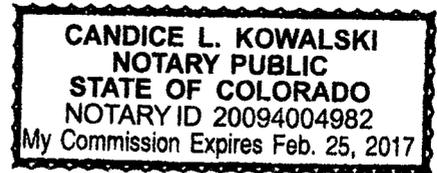
I hereby certify that a copy of the injection application has been provided to all surface owners within a one-half mile radius of the proposed injection well.

Signed:   
Newfield Production Company  
Eric Sundberg  
Environmental Manager

Sworn to and subscribed before me this 4<sup>th</sup> day of June, 2013.

Notary Public in and for the State of Colorado: Candice L. Kowalski

My Commission Expires: My Commission Expires Feb. 25, 2017



## Monument Federal #22-20

Elev.GR - 6097' GL  
Elev.KB - 6107' KB (10' KB)

### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 253.07'  
DEPTH LANDED: 263.07' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sks super "G", 2% CaCl<sub>2</sub>, 1/4#/sk Cello-flake.  
Returned 10 bbis to pit.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 5696.50'  
DEPTH LANDED: 5706.50' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 181 sks super "G", 3% salt, 2% gel, 2#/sk Kol-seal, 1/4#/sk Cello-flake, Tail w/ 400 sks 50/50 POZ, 2% gel, 1/4#/sk Cello-flake, 2#/sk Kol-seal.

CEMENT TOP AT: 1110' KB

#### TUBING

SIZE/GRADE/WT.: 2-7/8" 8rd EUE / J-55 / 6.5#  
NO. OF JOINTS: 144 Jts (4513.91')  
TUBING ANCHOR: 2-7/8"x5-1/2"x2.75'  
NO. OF JOINTS: 25 Jts (778.60')  
SEATING NIPPLE: 2-7/8"x1.10'  
PERFORATED SUB: 2-7/8"x4.20'  
MUD ANCHOR: 2-7/8"x31.40'  
STRING LENGTH: 5342.36'  
SN LANDED AT: 5305.28' KB

#### SUCKER RODS

WELL LAST PULLED: Completion

POLISHED ROD: 1-1/4"x22' SM  
SUCKER RODS: 210-3/4"x25' D-61 Plain  
1-7/8"x2' Pony w/ 2-1/2" guide  
1-1-1/2"x25' K-Bar  
1-7/8"x2' Pony w/ 2-1/2" guide

TOTAL STRING LENGTH: 5301'

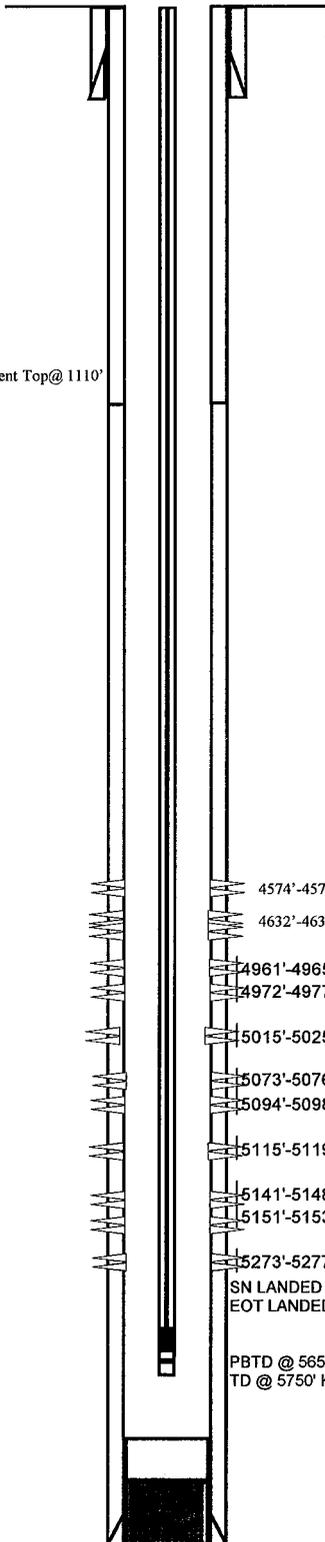
PUMP NUMBER: Trico #1187  
PUMP SIZE: 2-1/2"x1-1/2"x16' RWAC  
w/ SM Plunger

STROKE LENGTH: 72 inches  
PUMP SPEED, SPM: 4.2 spm  
PUMPING UNIT SIZE: Lufkin C16D-173-74

SN: E100070M458691  
PRIME MOVER: Ajax E-30, 7-1/4"x8"  
SN: 79866

TANK SIZES & NUMBERS: 2-400 bbl Natco 12"x20'  
TANK #1SN: 8D-16101-03  
TANK #2 SN: 8D-16101-02

Cement Top@ 1110'



#### ACID JOB /BREAKDOWN

Date	Depth Range	Services
8/20/96	5273'-5277'	BJ Services: 2058 gal 2% KCL water w/ 32 ball sealers. Ball action but no ball off. ATP= 3000 psi, ATR= 3.5 bpm, ISIP= 1920 psi.
8/22/96	4961'-4965' 4972'-4977'	BJ Services: 1806 gal 2% KCL water w/ 28 ball sealers. Balled off. ATP= 2200 psi, ATR= 4.0 bpm, ISIP= 1500 psi.
8/22/96	5015'-5025'	BJ Services: 2100 gal 2% KCL water w/ 40 ball sealers. Balled off. ATP= 2600 psi, ATR= 3.6 bpm, ISIP= 1500 psi.
8/22/96	5073'-5076' 5094'-5098' 5115'-5119'	BJ Services: 2394 gal 2% KCL water w/ 44 ball sealers. Balled off. ATP= 2500 psi, ATR= 4.0 bpm, ISIP= 1300 psi.
8/22/96	5141'-5148' 5151'-5153'	BJ Services: 2436 gal 2% KCL w water w/ 36 ball sealers. Balled off. ATP= 3600 psi, ATR= 3.4 bpm, ISIP= 2100 psi.
8/29/96	4574'-4576'	BJ Services: 1554 gal 2% KCL water w/ 8 ball sealers. Balled off. ATP= 2700 psi, ATR= 4.2 bpm, ISIP= 1550 psi.
8/29/96	4632'-4638'	BJ Services: 1722 gal 2% KCL water w/ 20 ball sealers. Ball action but no ball off. ATP= 3000 psi, ATR= 3.8 bpm, ISIP= 1400 psi.

#### FRAC JOB

Date	Depth Range	Services
8/21/96	5273'-5277'	BJ Services: 11,214 gal 2% KCL water w/ 5700# 20/40 sand & 10,000# 16/30 sand. ATP= 3500 psi, ATR= 19.8 bpm, ISIP= 2430 psi, 5 min= 2150 psi, 10 min= 2090 psi, 15 min= 2020 psi, 30 min= 1910 psi.
8/23/96	4961'-5153'	BJ Services: 52,626 gal 2% KCL water w/ 52,200# 20/40 sand & 119,780# 16/30 sand. ATP= 2800 psi, ATR= 55.8 bpm, ISIP= 2110 psi, 5 min= 1756 psi, 10 min= 1630 psi, 15 min= 1560 psi, 30 min= 1450 psi.
8/30/96	4574'-4576' 4632'-4638'	BJ Services: 13,398 gal 2% KCL water w/ 36,400# 16/30 sand. ATP= 3500 psi, ATR= 29.8 bpm, ISIP= 1870 psi, 5 min= 1600 psi, 10 min= 1430 psi, 15 min= 1330 psi, 30 min= 1090 psi.

#### PERFORATION RECORD

Date	Company	Depth Range	SPF
8/20/96	Schlumberger	5273'-5277'	4 SPF
8/22/96	Schlumberger	4961'-4965' 4972'-4977' 5015'-5025' 5073'-5076' 5094'-5098' 5115'-5119' 5141'-5148' 5151'-5153'	2 SPF 2 SPF 2 SPF 2 SPF 2 SPF 2 SPF 2 SPF
8/29/96	Schlumberger	4574'-4576' 4632'-4638'	4 Holes 10 Holes

SN LANDED @ 5305' KB  
EOT LANDED @ 5342' KB

PBTD @ 5659' KB  
TD @ 5750' KB

**NEWFIELD**

Monument Butte  
Lease #U-52018  
SE NW Section 20, T9S, R16E  
1980' FNL, 1980' FWL  
Duchesne County, Utah

API # 43-013-31681

## Monument Fed. #24-17-9-16

Spud Date: 7/18/1996  
 Put on Production: 8/30/1996  
 GL: 6008' KB: 6018'

Initial Production: 20 BOPD,  
 NM MCFD, 5 BWPD

### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 268.95'  
 DEPTH LANDED: 279.95'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 4 bbls cmt to surf.

#### PRODUCTION CASING

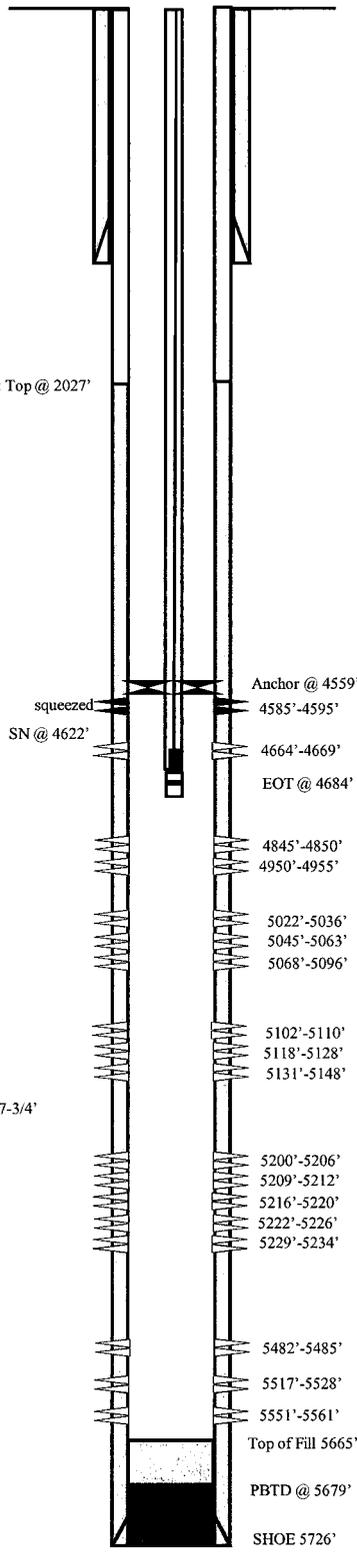
CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 5716.51'  
 DEPTH LANDED: 5726.51'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 150 sxs Super "G" & 310 sxs 50/50 POZ.  
 CEMENT TOP AT: 2027' per CBL

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / 6.5# / J-55  
 NO. OF JOINTS: 145 jts. (4549.45')  
 TUBING ANCHOR: 4559.45'  
 NO. OF JOINTS: 2 jt. (60.20')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4622.45' KB  
 NO. OF JOINTS: 1 jt. (60.19')  
 TOTAL STRING LENGTH: EOT @ 4684.19'

#### SUCKER RODS

POLISHED ROD: 1-1/4" x 22' SM  
 SUCKER RODS: 1 1/4" x 22' polished rods, 1-2', 2-6' x 3/4' pony rods, 177-3/4' guided rods, 6-1 1/2' wt bars  
 PUMP SIZE: 2 1/2" x 1 1/2" x 15' RHAC  
 STROKE LENGTH: 86"  
 PUMP SPEED, SPM: 4 SPM



#### FRAC JOB

8/13/96	5200'-5234'	<b>Frac LODC as follows:</b> 29,908# 20/40 sand + 67,270# 16/30 sand in 703 bbls frac fluid. Treated @ avg press of 2300 psi w/avg rate of 19.4 BPM. ISIP 2650 psi. Calc. flush: 5200 gal. Actual flush: 5166 gal.
8/16/96	4845'-4955'	<b>Frac A &amp; B sands as follows:</b> 44,700# 16/30 sand in 396 bbls frac fluid. Treated @ avg press of 2650 psi w/avg rate of 30.4 BPM. ISIP 2150 psi. Calc. flush: 4845 gal. Actual flush: 4788 gal.
8/16/96	4664'-4669'	<b>Frac D-2 as follows:</b> 21,800# 16/30 sand in 264 bbls frac fluid. Treated @ avg press of 2350 psi w/avg rate of 25.8 BPM. ISIP 1950 psi. Calc. flush: 4664 gal. Actual flush: 4620 gal.
6/06/98	5482'-5562'	<b>Frac CP as follows:</b> 102,300# 20/40 sand 334 bbls Viking I-25 frac fluid. Treated @ avg press of 6825 psi w/avg rate of 28.4 BPM. ISIP 2000 psi. Calc. Flush: 5482 gal. Actual flush: 1344 gal.
6/09/98	5032'-5140'	<b>Frac LODC as follows:</b> 95,500# 20/40 sand 324 bbls Viking I-25 frac fluid. Treated @ avg press of 5520 psi w/avg rate of 27.5 BPM. ISIP 1540 psi. Calc. Flush: 5032 gal. Actual flush: 1218 gal.
6/11/98	4585'-4595'	<b>Frac D-1 as follows:</b> 117,110# 20/40 sand in 594 bbls Viking I-25 frac fluid. Treated @ avg press of 2415 psi w/avg rate of 30 BPM. ISIP 2150 psi. Calc. Flush: 4585 gal. Actual flush: 4494 gal.
7/15/98		Squeeze 5032'-5140' w/ 90 sxs Class "G".
01/08/03	5022'-5148'	<b>Frac UPLODC sands follows:</b> 247,818 # 20/40 sand in 1544 bbls Viking I-25 fluid. Treated @ avg press of 3810 psi w/avg rate of 19.7 BPM. ISIP 2250 psi. Calc. Flush: 1291 gal. Actual flush: 1176 gal.
6/04/04		Pump Change.
10/25/04		Tubing Leak. Update rod and tubing details.
12/30/04		Tubing Leak. Update rod details.
1/24/05		Pump change. Update rod and tubing details.
08/16/05		Tubing Leak. Update rod and tubing details.
03/09/06		Parted Rods. Update rod and tubing details.

#### PERFORATION RECORD

8/12/96	5200'-5206'	4 SPF	24 holes
8/12/96	5209'-5212'	4 SPF	12 holes
8/12/96	5216'-5220'	4 SPF	16 holes
8/12/96	5222'-5226'	4 SPF	16 holes
8/12/96	5229'-5234'	4 SPF	20 holes
8/15/96	4845'-4850'		08 holes
8/15/96	4950'-4955'		06 holes
8/16/96	4664'-4669'	4 SPF	20 holes
6/05/98	5482'-5485'	4 SPF	12 holes
6/05/98	5517'-5528'	4 SPF	44 holes
6/05/98	5551'-5561'	4 SPF	40 holes
6/08/98	5032'-5035'	2 SPF	06 holes
6/08/98	5047'-5062'	2 SPF	30 holes
6/08/98	5069'-5076'	2 SPF	14 holes
6/08/98	5551'-5561'	2 SPF	24 holes
6/08/98	5121'-5126'	2 SPF	10 holes
6/08/98	5131'-5140'	2 SPF	18 holes
6/10/98	4585'-4595'	4 SPF	40 holes (sqzd)
1/06/03	5022'-5036'	4 SPF	128 holes (reperf)
1/06/03	5045'-5063'	4SPF	128 holes (reperf)
1/06/03	5068'-5096'	4 SPF	112 holes (reperf)
1/06/03	5102'-5110'	4 SPF	32 holes
1/06/03	5118'-5128'	4 SPF	108 holes (reperf)
1/06/03	5131'-5148'	4 SPF	108 holes (reperf)



**Monument Fed. #24-17-9-16**  
 660' FSL & 1980' FWL  
 SESW Section 17-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-31682; Lease #U-52018

## Federal 3-20-9-16

Spud Date: 5-23-07  
 Put on Production: 8-10-07  
 GL: 6063' KB: 6075'

### Injection Wellbore Diagram

#### SURFACE CASING

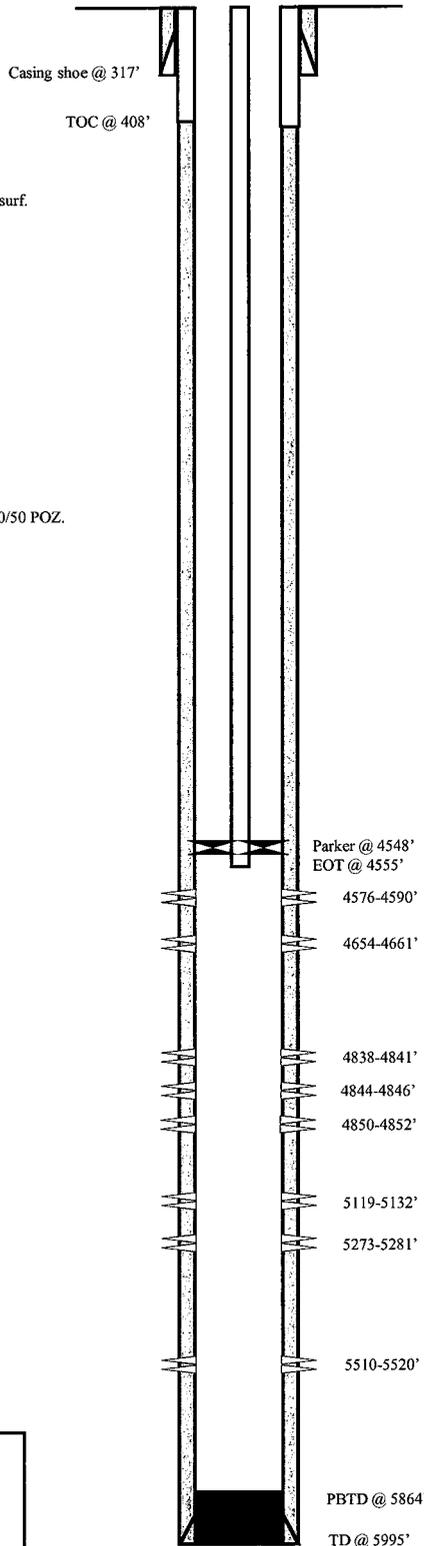
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (304.72')  
 DEPTH LANDED: 316.57' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 7 bbls cmt to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 156 jts. (5962.76')  
 DEPTH LANDED: 5976.01' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 425 sxs 50/50 POZ.  
 CEMENT TOP AT: 408'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 144 jts (4529.6')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4541.6' KB  
 ON/OFF TOOL AT: 4542.7'  
 PACKER CE @ 4547.8'  
 XO AT: 4548.9'  
 TBG PUP 2-3/8" J-55 AT: 4549.4'  
 XN NIPPLE AT: 4553.6'  
 TOTAL STRING LENGTH: EOT @ 4555' KB



#### FRAC JOB

08-07-07 5510-5520' **Frac CP1 sands as follows:**  
 28247# 20/40 sand in 420 bbls Lightning 17 frac fluid. Treated @ avg press of 2334 psi w/avg rate of 24.8 BPM. ISIP 2280 psi. Calc flush: 5508 gal. Actual flush: 5040 gal.

08-07-07 5273-5281' **Frac LODC sands as follows:**  
 14530# 20/40 sand in 286 bbls Lightning 17 frac fluid. Treated @ avg press of 2660 psi w/avg rate of 24.8 BPM. ISIP 2050 psi. Calc flush: 5271 gal. Actual flush: 4788 gal.

08-07-07 5119-5132' **Frac LODC sands as follows:**  
 45312# 20/40 sand in 447 bbls Lightning 17 frac fluid. Treated @ avg press of 1900 psi w/avg rate of 26.2 BPM. ISIP 1900 psi. Calc flush: 5117 gal. Actual flush: 4578 gal.

08-07-07 4654-4661' **Frac D2 sand as follows:**  
 25097# 20/40 sand in 345 bbls Lightning 17 frac fluid. Treated @ avg press of 1686 w/ avg rate of 24.8 BPM. ISIP 1760 psi. Calc flush: 4652 gal. Actual flush: 4200 gal.

08-07-07 4576-4590' **Frac D1 sand as follows:**  
 77698# 20/40 sand in 604 bbls Lightning 17 frac fluid. Treated @ avg press of 1939 w/ avg rate of 24.8 BPM. ISIP 2122 psi. Calc flush: 4574 gal. Actual flush: 4536 gal.

08/16/07 **Pump Change.** Rod & Tubing detail updated.  
 12/30/08 **Pump Change.** Updated r & t details.  
 8/20/09 **Pump Maintenance.** Updated rod & tubing detail.

11-09-10 4838-4852' **Frac B2 sands as follows:** 48449# 20/40 sand in 430 bbls Lightning 17 fluid.  
 11-11-10 **Re-Completion** - updated details  
 08/15/12 **Convert to Injection Well**  
 08/17/12 **Conversion MIT Finalized** - update tbg detail

#### PERFORMANCE RECORD

Date	Interval	JSPF	Holes
08-01-07	5510-5520'	4 JSPF	40 holes
08-07-07	5273-5281'	4 JSPF	32 holes
08-07-07	5119-5132'	4 JSPF	52 holes
08-07-07	4654-4661'	4 JSPF	28 holes
08-07-07	4576-4590'	4 JSPF	56 holes
11-09-10	4850-4852'	3 JSPF	6 holes
11-09-10	4844-4846'	3 JSPF	6 holes
11-09-10	4838-4841'	3 JSPF	9 holes



**Federal 3-20-9-16**  
 785' FNL & 1826' FWL  
 NE/NW Section 20-T9S-R16E  
 Duchesne Co, Utah  
 API # 43-013-33067; Lease # UTU-52018

## FEDERAL 5-20-9-16

Spud Date: 06/12/07  
 Put on Production: 08/09/07  
 GL: 6032' KB: 6044'

### Injection Wellbore Diagram

#### SURFACE CASING

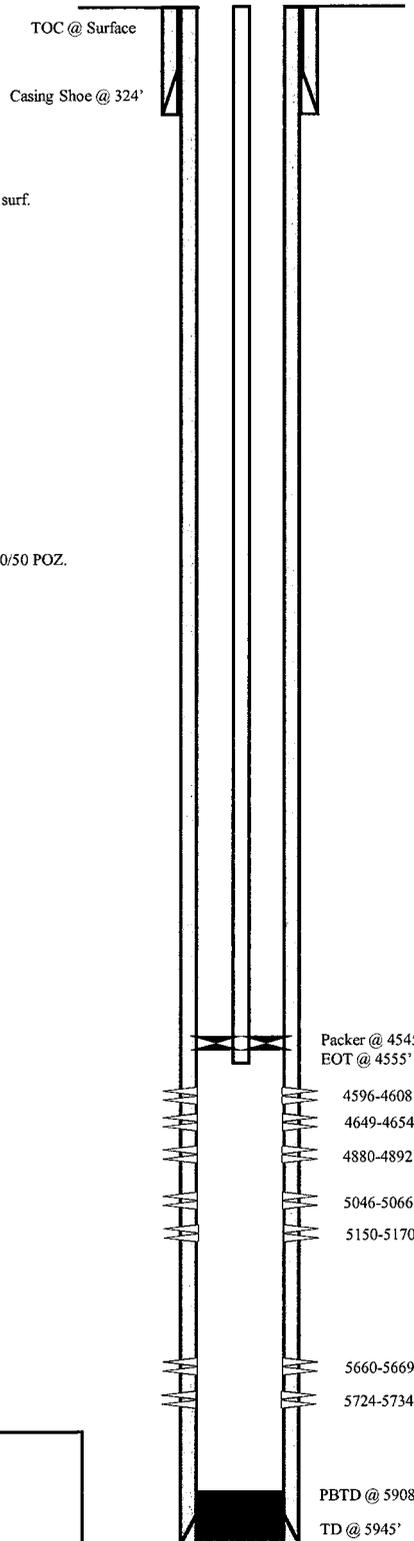
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (312.03')  
 DEPTH LANDED: 323.88' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 8 bbls cmt to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 135 jts. (5926.74')  
 DEPTH LANDED: 5939.99' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 349 sxs Prem. Lite II mixed & 426 sxs 50/50 POZ.

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 124 jts (4527.1')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4539.1' KB  
 ON/OFF TOOL AT: 4540.2'  
 PACKER CE @ 4545.29'  
 XO AT: 4549.0'  
 TBG PUP AT: 4549.5'  
 XN AT: 4553.7'  
 TOTAL STRING LENGTH: EOT @ 4555' W/12' KB



#### FRAC JOB

07/31/07	5660-5734'	<b>Frac CP4 &amp; CP3 sands as follows:</b> 49687# 20/40 sand in 482 bbls Lightning 17 frac fluid. Treated @ avg press of 2062 psi w/avg rate of 24.8 BPM. ISIP 2275 psi. Calc flush: 5658 gal. Actual flush: 5371 gal.
08/06/07	5150-5170'	<b>Frac LODC sands as follows:</b> 59976# 20/40 sand in 541 bbls Lightning 17 frac fluid. Treated @ avg press of 1952 psi w/avg rate of 24.8 BPM. ISIP 2110 psi. Calc flush: 5148 gal. Actual flush: 4641 gal.
08/06/07	5046-5066'	<b>Frac A3 sands as follows:</b> 70150# 20/40 sand in 582 bbls Lightning 17 frac fluid. Treated @ avg press of 2225 psi w/avg rate of 24.8 BPM. ISIP 2340 psi. Calc flush: 5044 gal. Actual flush: 4536 gal.
08/06/07	4880-4892'	<b>Frac B2 sands as follows:</b> 29054# 20/40 sand in 470 bbls Lightning 17 frac fluid. Treated @ avg press of 2463 psi w/avg rate of 24.8 BPM. ISIP 2290 psi. Calc flush: 4878 gal. Actual flush: 4536 gal.
08/06/07	4596-4654'	<b>Frac D1 &amp; D2 sands as follows:</b> 27540# 20/40 sand in 372 bbls Lightning 17 frac fluid. Treated @ avg press of 1664 psi w/avg rate of 24.8 BPM. ISIP 1700 psi. Calc flush: 4594 gal. Actual flush: 4507 gal.
06-16-08		<b>Workover.</b> Rod & Tubing detail updated.
3/11/09		<b>Stuck Pump.</b> Updated r & t details.
11/21/09		<b>Tubing Leak.</b> Tubing & Rod updated.
6/8/2010		<b>Tubing Leak.</b> Update rod and tubing details
2/14/2011		<b>Tubing Leak.</b> Update rod and tubing details
07/15/11		<b>Tubing Leak.</b> Rods & tubing updated.
08/13/12		<b>Convert to Injection Well</b>
08/14/12		<b>Conversion MIT Finalized</b> - update tbg detail

#### PERFORATION RECORD

07/31/07	5724-5734'	4 JSPF	40 holes
08/06/07	5660-5669'	4 JSPF	36 holes
08/06/07	5150-5170'	4 JSPF	80 holes
08/06/07	5046-5066'	4 JSPF	80 holes
08/06/07	4880-4892'	4 JSPF	48 holes
08/06/07	4649-4654'	4 JSPF	20 holes
08/06/07	4596-4608'	4 JSPF	48 holes



**FEDERAL 5-20-9-16**  
 2178'FNL & 673' FWL  
 SW/NW Section 20-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33104; Lease # UTU-52018

## Federal 7-20-9-16

Spud Date: 6-6-07  
 Put on Production: 8-12-05  
 GL: 6078' KB: 6090'

### Injection Wellbore Diagram

#### SURFACE CASING

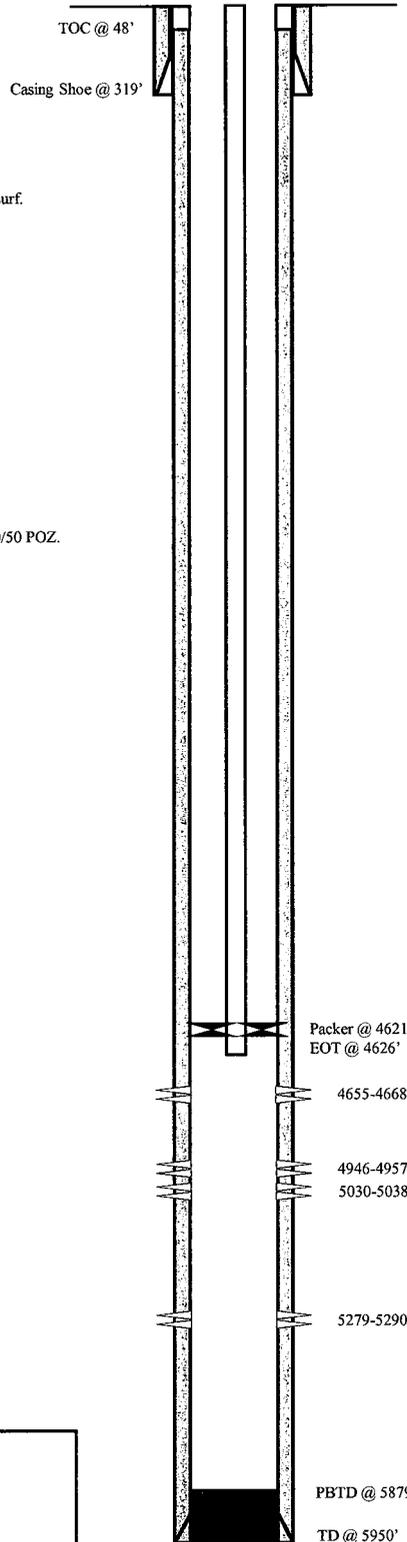
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jnts (306.9')  
 DEPTH LANDED: 318.75' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 3 bbls cmt to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 1343 jts. (5918.61')  
 DEPTH LANDED: 5931.86' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 425 sxs 50/50 POZ.  
 CEMENT TOP AT: 48'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 146 jts (4605')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4617' KB  
 ARROW #1 PKR CE @ 4621.42'  
 TOTAL STRING LENGTH: EOT @ 4626'



#### FRAC JOB

7-9-07	5279-5290'	<b>Frac LODC, sands as follows:</b> 29,554# 20/40 sand in 370 bbls Lightning 17 frac fluid. Treated @ avg press of 1987 psi w/avg rate of 24.7 BPM. ISIP 2284 psi. Calc flush: 5277 gal. Actual flush: 4746 gal.
7-9-07	5030-5038'	<b>Frac LODC sands as follows:</b> 24,274# 20/40 sand in 368 bbls Lightning 17 frac fluid. Treated @ avg press of 2044 psi w/avg rate of 24.7 BPM. ISIP 2143 psi. Calc flush: 5028 gal. Actual flush: 4557 gal.
7-9-07	4946-4957'	<b>Frac A3 sands as follows:</b> 40,017# 20/40 sand in 427 bbls Lightning 17 frac fluid. Treated @ avg press of 1862 psi w/avg rate of 24.7 BPM. ISIP 2238 psi. Calc flush: 4944 gal. Actual flush: 4389 gal.
7-9-07	4655-4668'	<b>Frac D3 sands as follows:</b> 48,763# 20/40 sand in 450 bbls Lightning 17 frac fluid. 24.8 BPM. Calc flush: 4653 gal. Actual flush: 4578 gal.
6/9/09		<b>Stuck Pump.</b> Updated rod & tubing details.
5/26/11		<b>Pump Change.</b> Updated rod and tubing detail.
01/30/12		<b>Parted rods.</b> Updated rod and tubing detail
3/12/12		<b>Pump change:</b> Updated rod & tubing detail
5/9/12		<b>Conversion to Injection Well</b>
5/11/12		<b>Conversion MIT Finalized</b> – update tbg detail

#### PERFORATION RECORD

7-3-07	5279-5290'	4 JSPF	44 holes
7-9-07	5030-5038'	4 JSPF	32 holes
7-9-07	4946-4957'	4 JSPF	44 holes
7-9-07	4655-4668'	4 JSPF	52 holes



**Federal 7-20-9-16**  
 2098' FNL & 1961' FEL  
 SW/NE Section 20-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33106; Lease #UTU-52018

## FEDERAL 8-20-9-16

Spud Date: 06/05/07  
 Put on Production: 07/09/07  
 GL: 6055' KB: 6067'

### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (301.95')  
 DEPTH LANDED: 313.8' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, circ. 4 bbls to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 134 jts. (5920.75')  
 DEPTH LANDED: 5934.00' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs PremLite II mixed & 425 sxs 50/50 POZ.  
 CEMENT TOP: 210' per CBL 6/28/07

#### TUBING (GI 5/21/10)

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 174 jts (5422.26')  
 TUBING ANCHOR: 5434.26' KB  
 NO. OF JOINTS: 1 jt (31.65')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5468.71' KB  
 NO. OF JOINTS: 2 jts (62.72')  
 TOTAL STRING LENGTH: EOT @ 5532.98' KB

#### SUCKER RODS (GI 5/21/10)

POLISHED ROD: 1-1/2" x 26' SM polished rods  
 SUCKER RODS: 100 x 3/8" guided rods, 58 x 3/8" sucker rods, 54 x 3/4" guided rods, 6 x 1-1/2" weight bars  
 PUMP SIZE: 2-1/2" x 1-1/2" x 12' x 16' RHAC  
 STROKE LENGTH: 86"  
 PUMP SPEED, SPM: 4.0  
 PUMPING UNIT: WEATHERFORD C-228-213-86

#### FRAC JOB

07/02/07 5484-5492' **Frac CPI sands as follows:**  
 15470# 20/40 sand in 274 bbls Lightning 17 frac fluid. Treated @ avg press of 2490 psi w/avg rate of 24.6 BPM. ISIP 2369 psi. Calc flush: 5482 gal. Actual flush: 4981 gal.

07/02/07 5270-5280' **Frac LODC sands as follows:**  
 29548# 20/40 sand in 365 bbls Lightning 17 frac fluid. Treated @ avg press of 2397 psi w/avg rate of 24.4 BPM. ISIP 2486 psi. Calc flush: 5268 gal. Actual flush: 4796 gal.

07/02/07 5129-5176' **Frac LODC sands as follows:**  
 4712# 20/40 sand in 389 bbls Lightning 17 frac fluid. Blender Broke. Need to Refrac. ISIP 2340 psi. Calc. flush: 5127 gal. Actual flush: 5292 gal.

07/03/07 5129-5176' **Frac LODC sands as follows:**  
 95147# 20/40 sand in 706 bbls Lightning 17 frac fluid. Treated @ avg press of 2554 psi w/avg rate of 24 BPM. ISIP 2775 psi. Calc flush: 5127 gal. Actual flush: 4662 gal.

07/03/07 5055-5074' **Frac LODC sands as follows:**  
 71220# 20/40 sand in 719 bbls Lightning 17 frac fluid. Treated @ avg press of 2372 psi w/avg rate of 24.3 BPM. ISIP 2680 psi. Calc flush: 5053 gal. Actual flush: 5095 gal.

07/03/07 4963-4971' **Frac AI sands as follows:**  
 40277# 20/40 sand in 492 bbls Lightning 17 frac fluid. Treated @ avg press of 2725 psi w/avg rate of 24.5 BPM. ISIP 2290 psi. Calc flush: 4961 gal. Actual flush: 4452 gal

4570-4576'  
 4656-4663' 07/05/07 4656-4709' **Frac D3&C sands as follows:**  
 29723# 20/40 sand in 376 bbls Lightning 17 frac fluid. Treated @ avg press of 1630 psi w/avg rate of 24.5 BPM. ISIP 1700 psi. Calc flush: 4654 gal. Actual flush: 4200 gal

4704-4709'  
 07/05/07 4570-4576' **Frac D1 sands as follows:**  
 42080# 20/40 sand in 356 bbls Lightning 17 frac fluid. Treated @ avg press of 1829 psi w/avg rate of 24.4 BPM. ISIP 1875 psi. Calc flush: 4568 gal. Actual flush: 4494 gal.

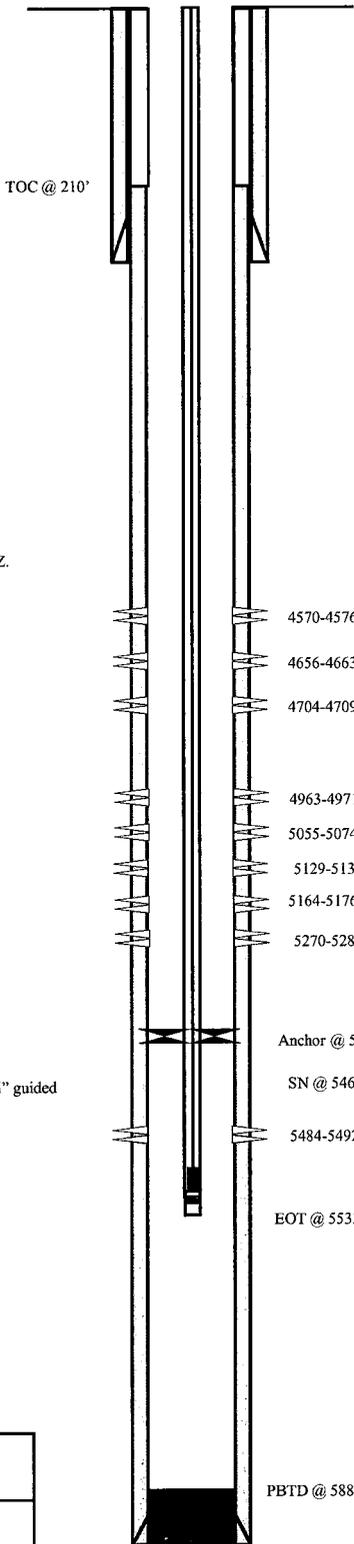
4963-4971'  
 5055-5074'  
 5129-5138' 2/10/09  
 5164-5176' 5/26/2010  
 5270-5280'

Anchor @ 5434'  
 SN @ 5469'  
 5484-5492'  
 EOT @ 5533'  
 PBT @ 5880'

Pump Change. Updated r & t details.  
 Tubing leak. Updated rod and tubing detail.

#### PERFORATION RECORD

Date	Interval	Tool	Holes
06/28/07	5484-5492'	4 JSPF	32 holes
07/02/07	5270-5280'	4 JSPF	40 holes
07/02/07	5164-5176'	4 JSPF	48 holes
07/02/07	5129-5138'	4 JSPF	36 holes
07/03/07	5055-5074'	4 JSPF	76 holes
07/03/07	4963-4971'	4 JSPF	32 holes
07/03/07	4704-4709'	4 JSPF	20 holes
07/03/07	4656-4663'	4 JSPF	28 holes
07/05/07	4570-4576'	4 JSPF	24 holes





**FEDERAL 8-20-9-16**

2133' FNL & 746' FEL

SE/NE Section 20-T9S-R16E

Duchesne Co, Utah

API #43-013-33107; Lease # UTU-52018

## Federal 10-20-9-16

Spud Date: 7-25-07  
Put on Production: 8-31-07

GL: 6105' KB: 6117'

### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts (303.36')  
DEPTH LANDED: 315.21' 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: 155 jts (5927.26')  
DEPTH LANDED: 5943.51' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
CEMENT TOP AT: 226'

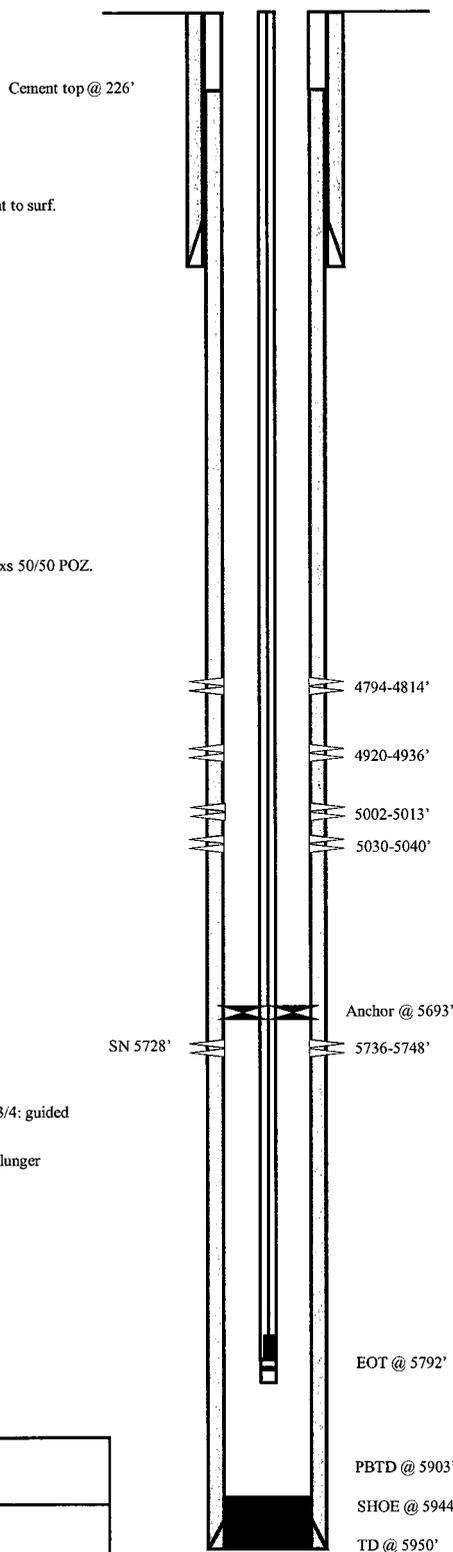
### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 181 jts (5693')  
TUBING ANCHOR: 5693' KB  
NO. OF JOINTS: 1 jts (31.6')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5728.4' KB  
NO. OF JOINTS: 2 jts (63.0')  
TOTAL STRING LENGTH: EOT @ 5792.90' KB

### SUCKER RODS

POLISHED ROD: 1-1/2" x 26' SM  
SUCKER RODS: 2-16' 1-4' 1-2' x 3/4" pony sub, 222-3/4" guided rods(103new), 6-1 1/2" weight bars  
PUMP SIZE: 2-1/2" x 1-1/2" x 16' x 20 RHAC w/SM plunger  
STROKE LENGTH: 120"  
PUMP SPEED, SPM: 5 SPM

### Wellbore Diagram



Initial Production: BOPD,  
MCFD, BWPD

### FRAC JOB

08-29-07	5736-5748'	<b>Frac CP5 sands as follows:</b> 45032# 20/40 sand in 460 bbls Lightning 17 frac fluid. Treated @ avg press of 2371 psi w/avg rate of 24.7 BPM. ISIP 2395 psi. Calc flush: 5971 gal. Actual flush: 5145 gal.
08-29-07	5002-5040'	<b>Frac LODC sands as follows:</b> 89993# 20/40 sand in 694 bbls Lightning 17 frac fluid. Treated @ avg press of 1981 psi w/avg rate of 24.7 BPM. ISIP 2506 psi. Calc flush: 5000 gal. Actual flush: 4507 gal.
08-29-07	4920-4936'	<b>Frac A1 sands as follows:</b> 114939# 20/40 sand in 845 bbls Lightning 17 frac fluid. Treated @ avg press of 1896 psi w/avg rate of 24.7 BPM. ISIP 2218 psi. Calc flush: 4918 gal. Actual flush: 4410 gal.
08-29-07	4794-4814'	<b>Frac B2 sand as follows:</b> 80966# 20/40 sand in 672 bbls Lightning 17 frac fluid. Treated @ avg press of 2005 w/ avg rate of 24.7 BPM. ISIP 2205 psi. Calc flush: 4792 gal. Actual flush: 4704 gal.
05/28/08		<b>Tbg leak.</b> Updated tubing and rod detail
6/10/2010		Parted rods. Update rod and tubing details

### PERFORATION RECORD

08-24-07	5736-5748'	4 JSPF	48 holes
08-29-07	5030-5040'	4 JSPF	40 holes
08-29-07	5002-5013'	4 JSPF	44 holes
08-29-07	4920-4936'	4 JSPF	64 holes
08-29-07	4794-4814'	4 JSPF	80 holes

**NEWFIELD**

**Federal 10-20-9-16**

2041' FSL & 1892' FEL

NW/SE Section 20-T9S-R16E

Duchesne Co, Utah

API # 43-013-33108; Lease # UTU-74391

## Federal 11-20-9-16

Spud Date: 11/29/05  
 Put on Production: 11/17/06  
 K.B.: 6154, G.L.: 6142

### Injection Wellbore Diagram

#### SURFACE CASING

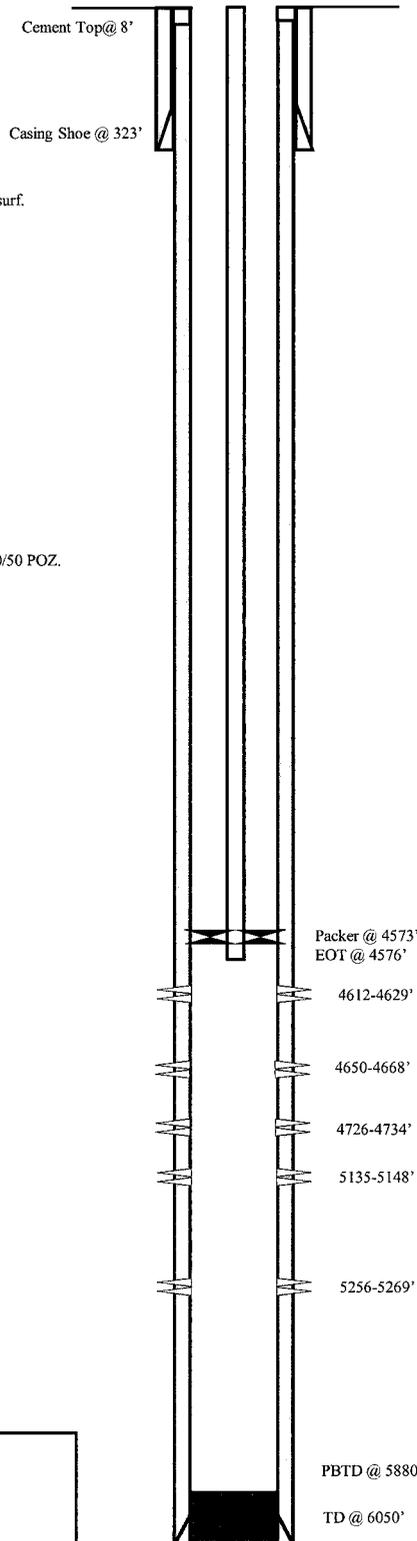
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (262.90')  
 DEPTH LANDED: 323.15' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 300 sxs Class "G" cmt, est 5 bbls cmt to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 136 jts. (6010.04')  
 DEPTH LANDED: 6023.29' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 325 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 145 jts (4556.4')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4568.4' KB  
 CE @ 4572.77'  
 TOTAL STRING LENGTH: EOT @ 4575.87' KB



#### FRAC JOB

11/13/06	5256-5269'	<b>Frac LODC sands as follows:</b> 78169# 20/40 sand in 622 bbls Lightning 17 frac fluid. Treated @ avg press of 2527 psi w/avg rate of 25.4 BPM. ISIP 2720 psi. Calc flush: 5267 gal. Actual flush: 4746 gal.
11/13/06	5135-5148'	<b>Frac LODC sands as follows:</b> 101332# 20/40 sand in 784 bbls Lightning 17 frac fluid. Treated @ avg press of 1660 psi w/avg rate of 24.2 BPM. ISIP 1800 psi. Calc flush: 5146 gal. Actual flush: 4620 gal.
11/13/06	4612-4629'	<b>Frac C, D3 sands as follows:</b> 184392# 20/40 sand in 1225 bbls Lightning 17 frac fluid. Treated @ avg press of 1436 psi w/avg rate of 24.3BPM. 1640 psi. Calc flush: 4627 gal. Actual flush: 4494 gal.
11/27/06		<b>Pump Change.</b> Update rod and tubing details. <b>Major Workover</b>
05/14/08	4612-4629'	<b>Acidize D2 sands:</b> Pump 16.6 bbls techni-hib 767, W/ 10.1 bbls acid. ISIP @ 950 psi.
05/14/08	4650-4668'	<b>Acidize D3 sands:</b> Pump 16 bbls techni-hib 767, W/ 10.7 bbls acid. ISIP @ 675 psi.
1/9/09		<b>Tubing Leak.</b> Updated rod & tubing details.
2/2/2010		<b>Tubing leak.</b> Updated rod and tubing details.
11/20/2010		<b>Tubing leak.</b> Updated rod and tubing detail.
3/20/2012		<b>Tubing leak:</b> Updated rod and tubing detail.
04/11/12		<b>Convert to Injection Well</b>
04/17/12		<b>Conversion MIT Finalized</b> - update tbg detail

#### PERFORATION RECORD

11/06/06	5256-5269'	4 JSPF	52 holes
11/13/06	5135-5148'	4 JSPF	52 holes
11/13/06	4726-4734'	4 JSPF	32 holes
11/13/06	4650-4668'	4 JSPF	72 holes
11/13/06	4612-4629'	4 JSPF	68 holes



**Federal 11-20-9-16**  
 2143' FSL & 2155' FWL  
 NE/SW Section 20-T9S-R15E  
 Duchesne Co, Utah  
 API #43-013-32598; Lease #UTU-74391

## Federal 1-19-9-16

Spud Date: 7-25-07  
 Put on Production: 09-11-07  
 GL: 6123' KB: 6135'

### Injection Wellbore Diagram

#### SURFACE CASING

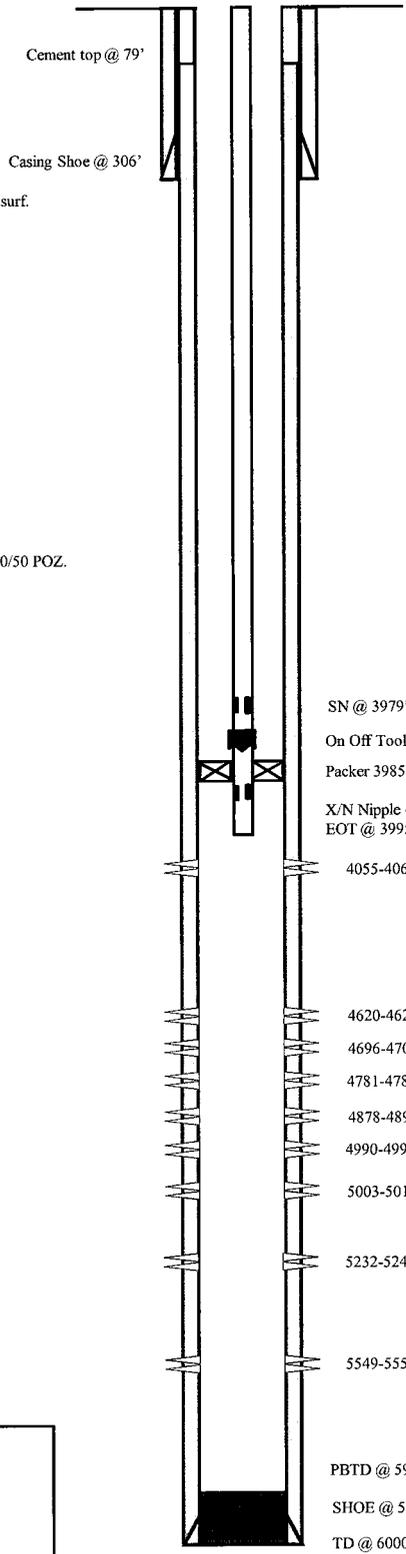
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (295.87')  
 DEPTH LANDED: 306.47' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 6 bbls cmt to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 154 jts. (5969.80')  
 DEPTH LANDED: 5983.05' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP AT: 79'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 126 jts (3967.2')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 3979.2' KB  
 ON/OFF TOOL AT: 3980.3'  
 ARROW #1 PACKER CE AT: 3985'  
 XO 2-3/8 x 2-7/8 J-55 AT: 3989.1'  
 TBG PUP 2-3/8 J-55 AT: 3989.6'  
 X/N NIPPLE AT: 3993.7'  
 TOTAL STRING LENGTH: EOT @ 3995'



#### FRAC JOB

09-05-07	5549-5556'	<b>Frac CPI sands as follows:</b> 15110# 20/40 sand in 296 bbls Lightning 17 frac fluid. Treated @ avg press of 2353 psi w/avg rate of 24.9 BPM. ISIP 2692 psi. Calc flush: 5547 gal. Actual flush: 5040 gal.
09-05-07	5232-5247'	<b>Frac LODC sands as follows:</b> 50233# 20/40 sand in 463 bbls Lightning 17 frac fluid. Treated @ avg press of 2511 psi w/avg rate of 24.8 BPM. ISIP 2464 psi. Calc flush: 5230 gal. Actual flush: 4746 gal.
09-05-07	4990-5010'	<b>Frac A1 sands as follows:</b> 20077# 20/40 sand in 311 bbls Lightning 17 frac fluid. Treated @ avg press of 2085 psi w/avg rate of 24.7 BPM. ISIP 2373 psi. Calc flush: 4988 gal. Actual flush: 4536 gal.
09-05-07	4878-4891'	<b>Frac B2 sand as follows:</b> 49985# 20/40 sand in 456 bbls Lightning 17 frac fluid. Treated @ avg press of 1957 w/ avg rate of 24.8 BPM. ISIP 2153 psi. Calc flush: 4876 gal. Actual flush: 4410 gal.
09-06-07	4781-4788'	<b>Frac C sand as follows:</b> 19649# 20/40 sand in 311 bbls Lightning 17 frac fluid. Treated @ avg press of 2398 w/ avg rate of 24.7 BPM. ISIP 2579 psi. Calc flush: 4779 gal. Actual flush: 4326 gal.
09-06-07	4696-4706'	<b>Frac D2 sand as follows:</b> 40012# 20/40 sand in 408 bbls Lightning 17 frac fluid. Treated @ avg press of 1750 w/ avg rate of 24.8 BPM. ISIP 2092 psi. Calc flush: 4694 gal. Actual flush: 4242 gal.
09-06-07	4620-4629'	<b>Frac D1 sand as follows:</b> 30099# 20/40 sand in 389 bbls Lightning 17 frac fluid. Treated @ avg press of 1725 w/ avg rate of 24.8 BPM. ISIP 2003 psi. Calc flush: 4618 gal. Actual flush: 4074 gal.
09-06-07	4055-4062'	<b>Frac GB2 sand as follows:</b> 22242# 20/40 sand in 321 bbls Lightning 17 frac fluid. Treated @ avg press of 1516 w/ avg rate of 24.8 BPM. ISIP 1371 psi. Calc flush: 4053 gal. Actual flush: 3948 gal.

**Convert to Injection Well**  
**Conversion MIT Finalized** -update tbg detail

#### PERFORATION RECORD

08-29-07	5549-5556'	4 JSPF	28 holes
09-05-07	5232-5247'	4 JSPF	60 holes
09-05-07	5003-5010'	4 JSPF	28 holes
09-05-07	4990-4996'	4 JSPF	24 holes
09-05-07	4878-4891'	4 JSPF	52 holes
09-05-07	4781-4788'	4 JSPF	28 holes
09-06-07	4696-4706'	4 JSPF	40 holes
09-06-07	4620-4629'	4 JSPF	36 holes
09-06-07	4055-4062'	4 JSPF	28 holes



**Federal 1-19-9-16**  
 688' FNL & 355' FEL  
 NE/NE Section 19-T9S-R16E  
 Duchesne Co, Utah  
 API # 43-013-33062; Lease # UTU-64379

## NGC Fed. 31-20G-9-16

Spud Date: 1/04/85  
 Put on Production: 4/08/85  
 GL: 6051' KB: 6030'

Initial Production: 88 BOPD,  
 62 MCFPD, 21 BWPD

Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: K-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (319.75')  
 DEPTH LANDED: 319'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 250 sxs Class "H"

### PRODUCTION CASING

CSG SIZE: 5-1/2" / J-55 LT&C / 15.5#  
 LENGTH: 74 jts.  
 CSG SIZE: 5-1/2" / K-55 / 15.5#  
 LENGTH: 74 jts.  
 DEPTH LANDED: 6118'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 240 sxs Lite, tail w/ 570 sxs Class "H"  
 CEMENT TOP AT: 2450' per CBL

### TUBING

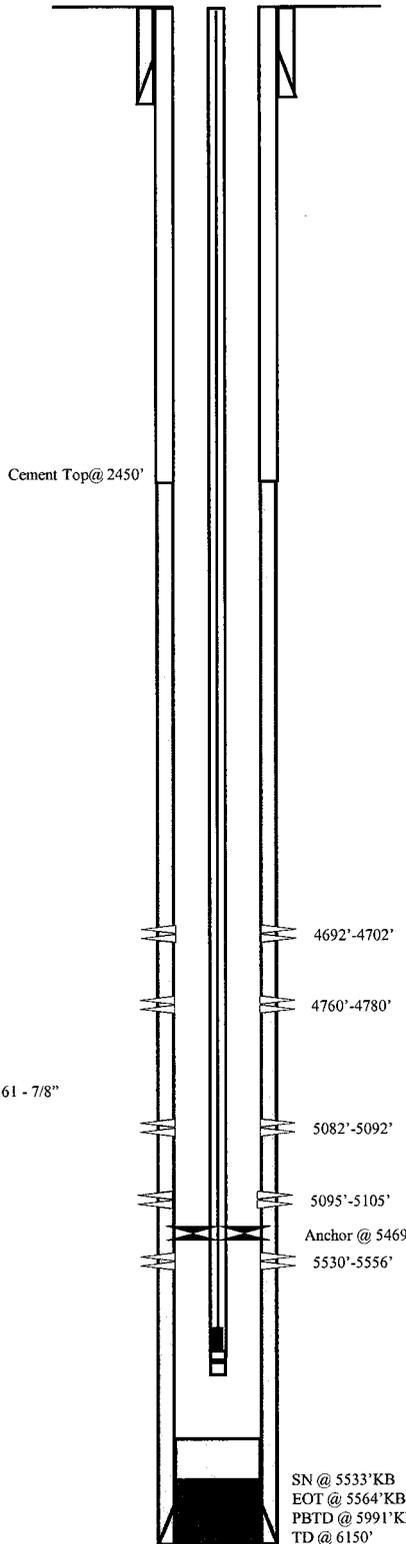
SIZE/GRADE/WT.: 2-7/8" / N-80 / 6.5#  
 NO. OF JOINTS: 172 jts. (5457.93')  
 TUBING ANCHOR: 5469.93' KB  
 NO. OF JOINTS: 2 jts. (62.00')  
 SN LANDED AT: 1.10' x 2 7/8" (5533.03') KB  
 NO. OF JOINTS: 1 jt. (31.90')  
 TOTAL STRING LENGTH: 5564.93' KB

### SUCKER RODS

POLISHED ROD: 1-1/4" X 22'  
 SUCKER RODS: 4 - 1-1/2" weight rods, 154 - 3/4" slick rods, 61 - 7/8" guided rods, 1-4', 1-6', 1-10' x 7/8" pony rods..  
 PUMP SIZE: 2-1/2" x 1-1/2" x 16' RHAC  
 STROKE LENGTH:  
 PUMP SPEED:  
 LOGS: DIL, LDT-CNL, EPT, LSS, GR, SP, ABCL, CBL

### FRAC JOB

3/10/85	5530'-5556'	<b>Frac zone as follows:</b> 120,000# 20/40 sand + 30,000# 12/20 sand in 1263 bbl gel. Average treating pressure 2800 psi at 20 BPM. ISIP 2500 psi. Calc. flush: 5530 gal. Actual flush: 3654 gal. <b>3/10/85</b>
3/17/85	4760'-4780'	<b>Frac zone as follows:</b> 45,000# 20/40 sand + 12,135# 12/20 sand in 1112 bbl gel. Average treating pressure 3100 psi at 20 BPM. ISIP 1800 psi. Calc. flush: 4760 gal. Actual flush: 1260 gal.
3/26/85	4692'-4702'	<b>Frac zone as follows:</b> 32,000# 20/40 sand + 14,000# 12/20 sand in 581 bbl gel. Average treating pressure 3200 psi at 25 BPM. ISIP 2000 psi. Calc. flush: 4692 gal. Actual flush: 3444 gal.
1/31/98	5082'-5105'	<b>Frac zone as follows:</b> 120,000# 20/40 sand in 489 bbl gel. Average treating pressure 6600 psi at 24.8 BPM. ISIP 4693 psi. Calc. flush: 1317 gal. Actual flush: 1737 gal.



### PERFORATION RECORD

3/02/85	5530'-5556'	4 SPF	104 holes
3/13/85	4764'-4780'	4 SPF	64 holes
3/15/85	4760'-4780'	4 SPF	80 holes
3/23/85	4692'-4702'	4 SPF	40 holes
1/30/98	5082'-5092'	4 SPF	40 holes
1/30/98	5095'-5105'	4 SPF	40 holes



NGC Fed. #31-20G-9-16  
 540' FNL & 1944' FEL  
 NWNE Section 20-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-31071; Lease #U-52018

**Multi-Chem Analytical Laboratory**

1553 East Highway 40  
Vernal, UT 84078

**ATTACHMENT F**

1 of 6

**multi-chem**

A HALLIBURTON SERVICE

Units of Measurement: **Standard**

**Water Analysis Report**

Production Company: **NEWFIELD PRODUCTION**  
Well Name: **MON 22-20-9-16**  
Sample Point: **Treater**  
Sample Date: **4/30/2013**  
Sample ID: **WA-242485**

Sales Rep: **Michael McBride**  
Lab Tech: **John Keel**

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:	5/20/2013	Sodium (Na):	9587.93	Chloride (Cl):	13000.00
System Temperature 1 (°F):	120.00	Potassium (K):	51.55	Sulfate (SO4):	728.00
System Pressure 1 (psig):	60.0000	Magnesium (Mg):	26.21	Bicarbonate (HCO3):	2440.00
System Temperature 2 (°F):	210.00	Calcium (Ca):	19.66	Carbonate (CO3):	
System Pressure 2 (psig):	60.0000	Strontium (Sr):	11.05	Acetic Acid (CH3COO)	
Calculated Density (g/ml):	1.015	Barium (Ba):	0.38	Propionic Acid (C2H5COO)	
pH:	9.50	Iron (Fe):	1.51	Butanoic Acid (C3H7COO)	
Calculated TDS (mg/L):	25892.44	Zinc (Zn):	0.14	Isobutyric Acid ((CH3)2CHCOO)	
CO2 in Gas (%):		Lead (Pb):	0.02	Fluoride (F):	
Dissolved CO2 (mg/L):	0.00	Ammonia NH3:		Bromine (Br):	
H2S in Gas (%):		Manganese (Mn):	0.12	Silica (SiO2):	25.87
H2S in Water (mg/L):	165.00				

**Notes:**

AI=0.04

(PTB = Pounds per Thousand Barrels)

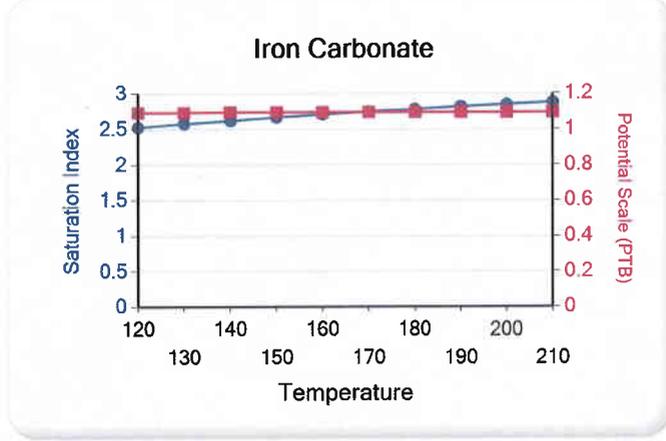
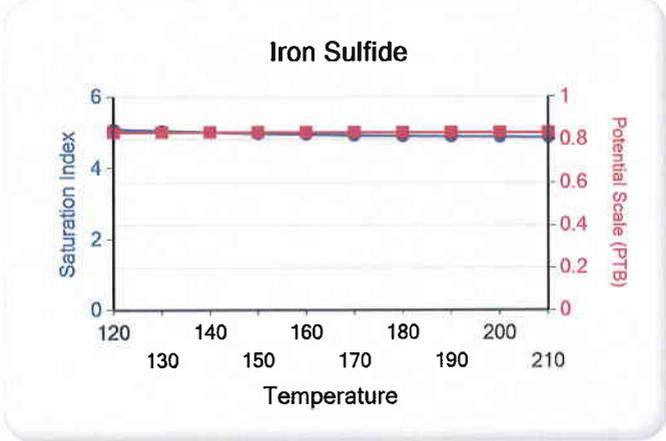
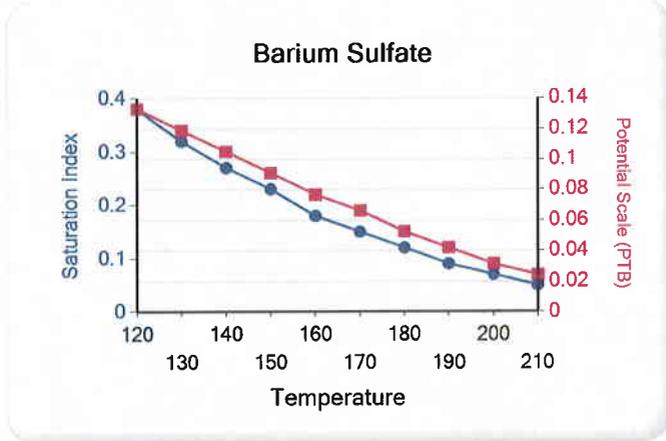
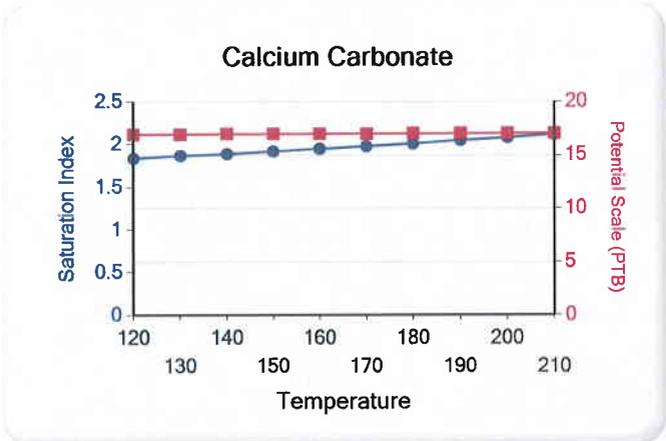
Temp (°F)	PSI	Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO4 2H2O		Celestite SrSO4		Halite NaCl		Zinc Sulfide	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
210.00	60.00	2.12	17.07	0.05	0.02	4.87	0.83	2.88	1.10	0.00	0.00	0.00	0.00	0.00	0.00	10.66	0.07
200.00	60.00	2.08	17.06	0.07	0.03	4.88	0.83	2.85	1.10	0.00	0.00	0.00	0.00	0.00	0.00	10.77	0.07
190.00	60.00	2.05	17.05	0.09	0.04	4.89	0.83	2.82	1.10	0.00	0.00	0.00	0.00	0.00	0.00	10.88	0.07
180.00	60.00	2.01	17.03	0.12	0.05	4.90	0.83	2.78	1.10	0.00	0.00	0.00	0.00	0.00	0.00	10.99	0.07
170.00	60.00	1.98	17.02	0.15	0.07	4.92	0.83	2.75	1.10	0.00	0.00	0.00	0.00	0.00	0.00	11.11	0.07
160.00	60.00	1.95	17.01	0.18	0.08	4.95	0.83	2.71	1.10	0.00	0.00	0.00	0.00	0.00	0.00	11.24	0.07
150.00	60.00	1.92	16.99	0.23	0.09	4.97	0.83	2.67	1.10	0.00	0.00	0.00	0.00	0.00	0.00	11.37	0.07
140.00	60.00	1.89	16.98	0.27	0.11	5.01	0.83	2.62	1.10	0.00	0.00	0.00	0.00	0.00	0.00	11.51	0.07
130.00	60.00	1.87	16.96	0.32	0.12	5.05	0.83	2.58	1.09	0.00	0.00	0.00	0.00	0.00	0.00	11.66	0.07
120.00	60.00	1.84	16.95	0.38	0.13	5.10	0.83	2.53	1.09	0.00	0.00	0.00	0.00	0.00	0.00	11.82	0.07

Water Analysis Report

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
210.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.94	0.09	10.88	0.01	11.78	31.37	6.09	16.33	14.15	1.17
200.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.88	0.09	11.06	0.01	11.48	31.37	5.94	16.33	13.99	1.17
190.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.81	0.09	11.24	0.01	11.18	31.37	5.78	16.33	13.82	1.17
180.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.74	0.09	11.43	0.01	10.87	31.37	5.62	16.33	13.64	1.17
170.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.67	0.09	11.62	0.01	10.56	31.36	5.45	16.32	13.47	1.17
160.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.58	0.09	11.83	0.01	10.23	31.36	5.29	16.32	13.29	1.17
150.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.49	0.09	12.05	0.01	9.91	31.36	5.12	16.32	13.11	1.17
140.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.40	0.09	12.29	0.01	9.57	31.36	4.95	16.31	12.93	1.17
130.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.29	0.09	12.53	0.01	9.23	31.36	4.78	16.30	12.74	1.17
120.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.18	0.09	12.79	0.01	8.89	31.36	4.61	16.29	12.56	1.17

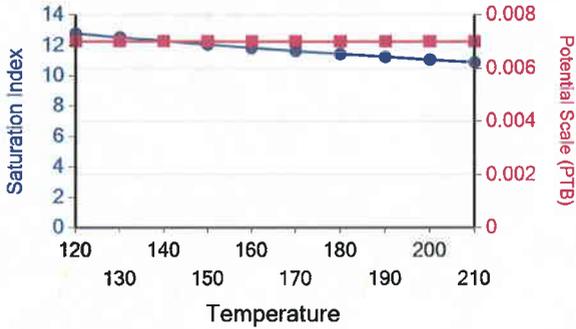
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Mg Silicate Ca Mg Silicate Fe Silicate

These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Mg Silicate Ca Mg Silicate Fe Silicate

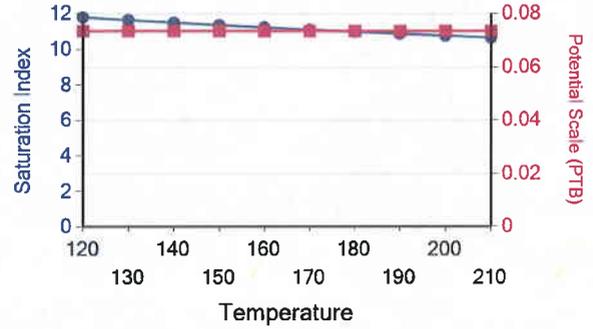


Water Analysis Report

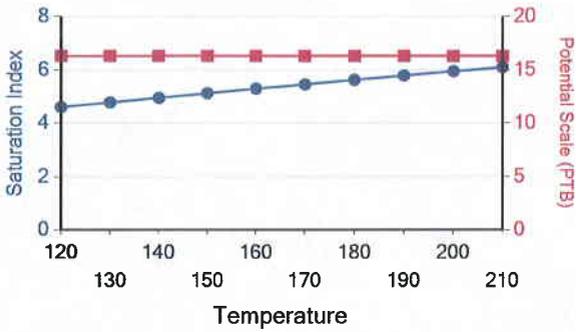
Lead Sulfide



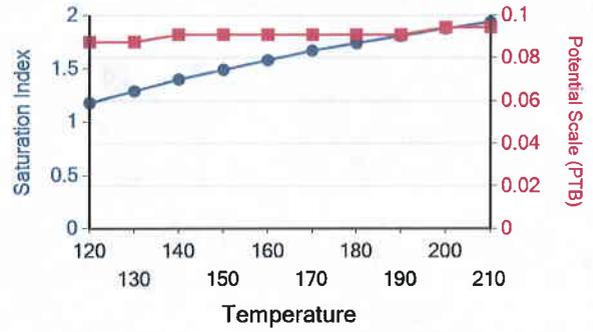
Zinc Sulfide



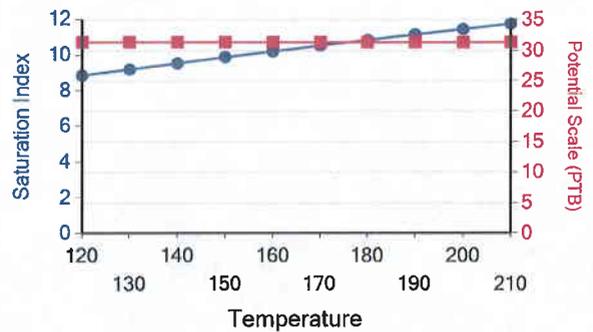
Ca Mg Silicate



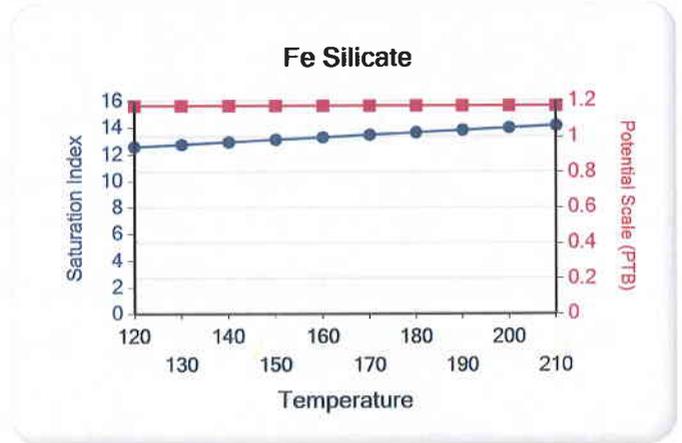
Zinc Carbonate



Mg Silicate



Water Analysis Report



Units of Measurement: **Standard**

Water Analysis Report

Production Company: **NEWFIELD PRODUCTION**  
 Well Name: **SWDIF**  
 Sample Point: **After Filter**  
 Sample Date: **12/4/2012**  
 Sample ID: **WA-229142**

Sales Rep: **Michael McBride**  
 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:	12/5/2012	Sodium (Na):	734.93	Chloride (Cl):	1000.00
System Temperature 1 (°F):	120.00	Potassium (K):	11.00	Sulfate (SO <sub>4</sub> ):	120.00
System Pressure 1 (psig):	60.0000	Magnesium (Mg):	26.00	Bicarbonate (HCO <sub>3</sub> ):	366.00
System Temperature 2 (°F):	210.00	Calcium (Ca):	46.20	Carbonate (CO <sub>3</sub> ):	
System Pressure 2 (psig):	60.0000	Strontium (Sr):		Acetic Acid (CH <sub>3</sub> COO)	
Calculated Density (g/ml):	0.999	Barium (Ba):	0.17	Propionic Acid (C <sub>2</sub> H <sub>5</sub> COO)	
pH:	6.80	Iron (Fe):	0.13	Butanoic Acid (C <sub>3</sub> H <sub>7</sub> COO)	
Calculated TDS (mg/L):	2304.49	Zinc (Zn):	0.02	Isobutyric Acid ((CH <sub>3</sub> ) <sub>2</sub> CHCOO)	
CO <sub>2</sub> in Gas (%):		Lead (Pb):	0.00	Fluoride (F):	
Dissolved CO <sub>2</sub> (mg/L):	15.00	Ammonia NH <sub>3</sub> :		Bromine (Br):	
H <sub>2</sub> S in Gas (%):		Manganese (Mn):	0.04	Silica (SiO <sub>2</sub> ):	
H <sub>2</sub> S in Water (mg/L):	2.50				

Notes:  
9:30

(PTB = Pounds per Thousand Barrels)

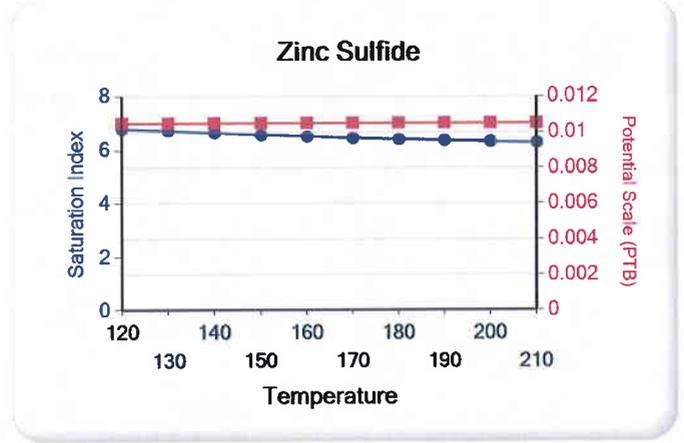
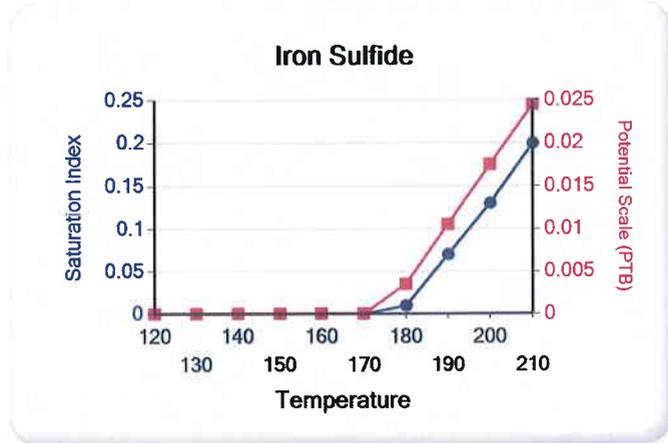
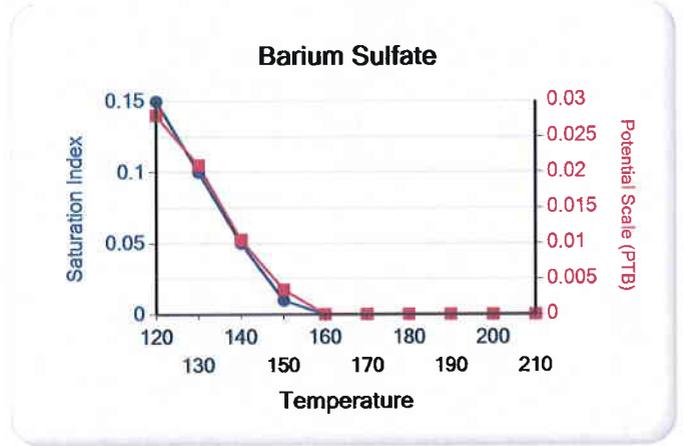
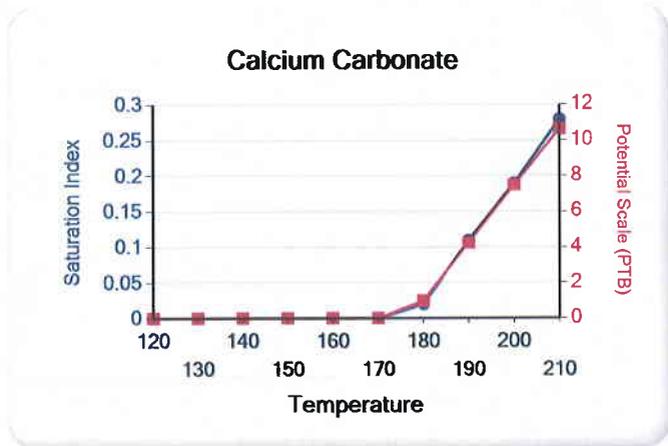
Temp (°F)	PSI	Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO <sub>4</sub> ·2H <sub>2</sub> O		Celestite SrSO <sub>4</sub>		Halite NaCl		Zinc Sulfide		
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	
210.00	60.00	0.28	10.64	0.00	0.00	0.20	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.28	0.01
200.00	60.00	0.19	7.48	0.00	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.31	0.01
190.00	60.00	0.11	4.25	0.00	0.00	0.07	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.35	0.01
180.00	60.00	0.02	0.97	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.39	0.01
170.00	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	6.44	0.01
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	6.50	0.01
150.00	60.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.56	0.01
140.00	60.00	0.00	0.00	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.64	0.01
130.00	60.00	0.00	0.00	0.10	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.72	0.01
120.00	60.00	0.00	0.00	0.15	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.80	0.01

## Water Analysis Report

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
210.00	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
200.00	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
190.00	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
180.00	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
170.00	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
150.00	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
140.00	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
130.00	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
120.00	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 Sulfide Zinc Sulfide

These scales have positive scaling potential under final temperature and pressure: Barium Sulfate Zinc Sulfide



**Attachment "G"**

**Federal #16-20-9-16  
Proposed Maximum Injection Pressure**

Frac Interval (feet)		Avg. Depth (feet)	ISIP (psi)	Calculated Frac Gradient (psi/ft)	Pmax
Top	Bottom				
5273	5277	5275	1920	0.80	1886
4961	4965	4963	1500	0.74	1468
5015	5025	5020	1500	0.73	1467
5073	5076	5075	1300	0.69	1267 ←
5141	5148	5145	2100	0.84	2067
4574	4576	4575	1550	0.77	1520
4632	4638	4635	1400	0.74	1370
5273	5277	5275	2430	0.89	2396
4961	5153	5057	2110	0.86	2078
4574	4576	4575	1870	0.84	1840
				<b>Minimum</b>	<u><u>1267</u></u>

Calculation of Maximum Surface Injection Pressure  
 $P_{max} = (\text{Frac Grad} - (0.433 \times 1.015)) \times \text{Depth of Top Perf}$   
 where pressure gradient for the fresh water is .433 psi/ft and  
 specific gravity of the injected water is 1.015.

$\text{Frac Gradient} = (\text{ISIP} + (0.433 \times \text{Top Perf.})) / \text{Top Perf.}$

**Please note:** These are existing perforations; additional perforations may be added during the actual conversion procedure.

# ATTACHMENT G-1

1 of 4

08/20/96 Completion

Dress up location, set rig anchors, set rig pump & tanks. MIRU Cannon Well Service Rig #2. TIH w/4-3/4" bit, 5-1/2" csg scrapper & 182 jts 2-7/8" tbg. Tag PBTD @ 5659' KB. Circulate hole clean w/135 bbls 2% KCL wtr. TOOH w/tbg & tools. RU Schlumberger to run CBL & perf. Run CBL from 5645' KB to 900' KB w/1000 psi. Top of cement @ 1110' KB. Perf 5273' - 5277', 4 SPF. RD Schlumberger. TIH w/TS RBP, retrieving tool, 2-3/8" x 4' sub, HD pkr, SN & 178 jts tbg. Set BP @ 5346' KB, EOT 5218' KB, pkr @ 5211' KB. RU BJ Services & break down 5273' - 5277' w/2058 gals 2% KCL wtr and pumped 32 ball sealers, saw ball action, no ball off. ATP = 3000 psi, ATR = 3.5 bpm, ISIP = 1920 psi. Used 49 bbls wtr. TOOH w/tbg, pkr & retrieving tool. Flow back 10 bbls wtr. SWIFN.  
DC: \$11,553

CC: \$116,193

08/21/96 Completion

# ATTACHMENT G-1

2 of 4

RU BJ Services & frac 5273' - 5277' w/11,214 gals 2% KCL wtr, 5700 lbs 20/40 sand & 10,000 lbs 16/30 sand. ATP = 3500 psi, ATR = 19.8 bpm, ISIP = 2430 psi, 5 min = 2150 psi, 10 min = 2090 psi, 15 min = 2020 psi, 30 min = 1910 psi. Used 267 bbls wtr. Start forced closure flow back. Flow back 112 bbls wtr. TIH w/retrieving tool, 2-3/8" x 4' sub, HD pkr & 166 jts tbg. Flow back 80 bbls while tripping. Tag sand @ 5205' KB. Circulate down to BP @ 5346' KB. Set pkr @ 5211' KB. Made 24 swab runs. Recovered 2 bbls oil & 177 bbls wtr, trace of sand. Oil 10% last 2 runs, good gas. Fluid level @ 2450' last 3 runs. No sand last 12 runs. SWIFD.  
DC: \$20,371 CC: \$136,564

08/22/96

## Completion

Fluid level @ 800' from surface. Release pkr, tag sand @ 5340', circ down to 5346' KB. Release BP, reset BP @ 5222' KB. TOO H w/tbg & pkr. RU Schlumberger & perf 4961' - 4965', 4972' - 4977', 5015' - 5025', 5073' - 5076', 5094' - 5098', 5115' - 5119', 5141' - 5148', 5151' - 5153', 2 SPF. Tih w/retrieving tool, 2-3/8" sub, HD pkr, SN & 159 jts tbg. Reset BP @ 5004' KB, pkr @ 4932' KB. Ru BJ Services & break down 4961' - 4977' w/1806 gals 2% KCL wtr. ATP = 2200 psi, ATR = 4.0 bpm, ISIP = 1500 psi. Used 43 bbls wtr. Flow back 12 bbls wtr. Reset BP @ 5067' KB, pkr @ 4994' KB. Break down 5015' - 5025' w/2100 gals 2% KCL wtr. ATP = 2600 psi, ATR = 3.6 bpm, ISIP = 1500 psi. Used 50 bbls wtr. Flow back 10 bbls wtr. Reset BP @ 5129' KB, pkr @ 5057' KB. Break down 5073' - 5119' w/2394 gals 2% KCL wtr. ATP = 2500 psi, ATR = 4.0 bpm, ISIP = 1300 psi. Used 57 bbls wtr. Flow back 12 bbls wtr. Reset BP @ 5222' KB, pkr @ 5125' KB. Break down 5141' - 5153' w/2436 gals 2% KCL wtr. ATP = 3600 psi, ATR = 3.4 bpm, ISIP = 2100 psi. Used 58 bbls wtr. Flow back 35 bbls wtr. TOO H w/tbg, pkr & retrieving tool. SWIFD.  
DC: \$6,799 CC: \$143,363

08/23/96

## Completion

RU BJ Services & frac 4961' - 5153'. Frac w/52,626 gals 2% KCL wtr, 52,200 lbs 20/40 sand, & 119,780 lbs 16/30 sand. ATP = 2800 psi, ATR = 55.8, ISIP = 2110 psi, 5 min = 1756 psi, 10 min = 1630 psi, 15 min = 1560 psi, 30 min = 1450 psi. Used 1253 bbls wtr. Start forced closure flow back. 1.8 bpm for 1/2 hr. Flowed back 285 bbls wtr. 3000 lbs of sand. TIH w/retrieving tool, 2-3/8" x 4' sub, HD pkr, 2-7/8" SN & 153 jts 2-7/8" tbg. Tag sand @ 4810' KB. Circulate down to BP @ 5222' KB. Pull up & set pkr @ 4932' KB. Flow back 90 bbls wtr, TIH. SWIFD.  
DC: \$56,891 CC: \$200,254

08/24/96

## Completion

Flow back 25 bbls wtr. Made 36 swab runs. Recovered trace of oil & 176 bbls wtr, some gas, & heavy sand. Fluid level @ 2100' last 4 runs. Release pkr. Tag sand @ 5120' KB. 2 set of perms buried. Circulate down to BP @ 5222' KB. Reset pkr @ 4932' KB. Shut well in until 8-26-96.  
DC: \$2,155 CC: \$202,409

08/26/96

## Completion

Fluid @ surface. Made 43 swab runs. Recovered trace of oil & 211 bbls wtr. Gas cut, trace of sand. No sand last 13 swab runs. Fluid level @ 2500' last 2 runs.  
DC: \$5,624 CC: \$208,033

08/27/96

## Completion

Fluid level @ 1500'. Made 7 swab runs. Recovered trace of oil & 35 bbls wtr, gas cut, final fluid level @ 2150'. Release pkr, tag sand @ 5156' KB. Circulate down to BP @ 5222' KB. Used 45 bbls wtr. Reset pkr @ 4932' KB. Made 41 swab runs. Recovered trace of oil & 195 bbls wtr, gas cut, no sand. Fluid level @ 3050' last 3 runs. SWIFN.  
 DC: \$2,299 CC: \$210,332

8-28-96 **Completion**  
 FL @ 1650' from surface. Made 30 swab runs (swab report attached). Recovered trace of oil, 146 BW - gas cut & no sand. FL 3100'. 310 BW to recover from zone 4961' - 5153'. Release packer, tag sand @ 5219' KB. Circ down to BP @ 5222' KB used 67 BW. Circ well clean w/350 bbls 2% KCL water. TOO H w/tbg, packer & retrieving tool. SWIFN.  
 DC: \$2,081 CC: \$212,413

08/29/96 **Completion**  
 RU Schlumberger to run Gamma Ray Trace log & perf. Run trace log from 5230' KB to 4785' KB. Perf 4574' - 4576', 4 holes, 4632' - 4638', 10 holes. TIH w/retrieving tool, 2-3/8" x 4' sub, HD pkr, SN & 157 jts 2-7/8" tbg. Retrieve BP. Reset BP @ 4598' KB. EOT @ 4534' KB, pkr @ 4547' KB. RU BJ Services to break down 4574' - 4576' w/1554 gals 2% KCL wtr. ATP = 2700 psi, ATR = 4.2 bpm, ISIP = 1550 psi. Used 37 bbls wtr. Reset BP @ 4692' KB, EOT @ 4587' KB, pkr @ 4595' KB. Break down 4632' - 4638' w/1722 gals 2% KCL wtr. ATP = 3000 psi, ATR = 3.8 bpm, ISIP = 1400 psi. Used 41 bbls wtr. Flow back 10 bbls wtr. TOO H w/tbg, pkr & retrieving tool. SWIFD.  
 DC: \$5,323 CC: \$217,736

08/30/96 **Completion**  
 RU BJ Services & frac 4574' - 4576', 4632' - 4638'. Frac w/13,398 gals 2% KCL wtr & 36,400 lbs 16/30 sand. ATP = 3500 psi, ATR = 29.8 bpm, ISIP = 1870 psi, 5 min = 1600 psi, 10 min = 1430 psi, 15 min = 1330 psi, 30 min = 1090 psi. Used 319 bbls wtr. Start forced closure flow back, 1.0 bpm. Flowed back 230 bbls wtr & trace of sand. TIH w/retrieving tool, 2-3/8" x 4' sub, HD pkr, SN & 143 jts 2-7/8" tbg. Tag sand @ 4480' KB. Circulate down to BP @ 4692' KB. Set pkr @ 4527' KB. Made 16 swab runs. Recovered trace oil, 80 bbls wtr, trace sand & some gas. Fluid level @ 1650' last 2 runs. SWIFN.  
 DC: \$24,725 CC: \$242,461

08/31/96 **Completion**  
 Made 31 swab runs. Recovered 6 bbls oil, 146 bbls wtr, trace sand & good gas. Oil 5% last 4 runs. Fluid level @ 2300' last 4 runs. No sand last 8 runs. Release pkr. Tag sand @ 4660' KB. Circulate down to BP @ 4692' KB. TOO H w/tbg, pkr & BP. SWI until 9-3-96.  
 DC: \$1,992 CC: \$244,453

09/03/96 **Completion**  
 TIH w/production string (tbg) as follows:

	<u>LENGTH</u>	<u>DEPTH</u>
1 - 2-7/8" notched-pinned collar	.40'	5342.36'
1 - jt 2-7/8" EUE J-55 8rd 6.5#	31.40'	5341.96'
1 - Perf sub 2-7/8" x 4'	4.20'	5310.56'
1 - SN 2-7/8"	1.10'	5306.36'

# ATTACHMENT G-1

4 of 4

25 - jts 2-7/8" EUE J-55 8rd 6.5#	778.60'	5305.26'
1 - tbg anchor 2-7/8" x 5-1/2" TRICO)	2.75'	4526.66'
144 - jts 2-7/8" EUE J-55 8rd 6.5#	4513.91'	4523.91'
KB	10.00'	

ND BOP, ND 5M well head. NU 3M well head. Set tbg anchor w/11" tension. Flange up well head. TIH w/production string (rods) as follows:

- 1 - DHP 2-1/2" x 1-1/2" x 16' RWAC w/SM plunger (TRICO #1187)
- 1 - 7/8" x 2' Pony w/2-1/2" guides
- 1 - K-bar 1-1/2" x 25'
- 1 - 7/8" x 2' Pony w/2-1/2" guides
- 210 - 3/4" x 25' D-61 Plain
- 1 - Polish rod 1-1/4" x 22' SM

Press test DHP & tbg to 1000 pis, OK. SWI. RDMO.

DC: \$25,985

CC: \$270,438

09/11/96

Completion

Start well pumping. 4.2 SPM, 77" stroke.

DC: \$34,589

CC: \$305,072

## ATTACHMENT H

### WORK PROCEDURE FOR PLUGGING AND ABANDONMENT

1. Set CIBP @ 4524'
2. Plug #1 Set 100' plug on top of CIBP using 12 sx Class "G" cement
3. Plug #2 153' 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 @ 313'
6. Plug #4 Circulate 100 sx Class "G" cement down 5 ½" and up the 5 ½" x 8 5/8" annulus

The approximate cost to plug and abandon this well is \$42,000.

## Monument Federal #22-20

Elev.GR - 6097' GL  
 Elev.KB - 6107' KB (10' KB)

### Proposed P&A Wellbore Diagram

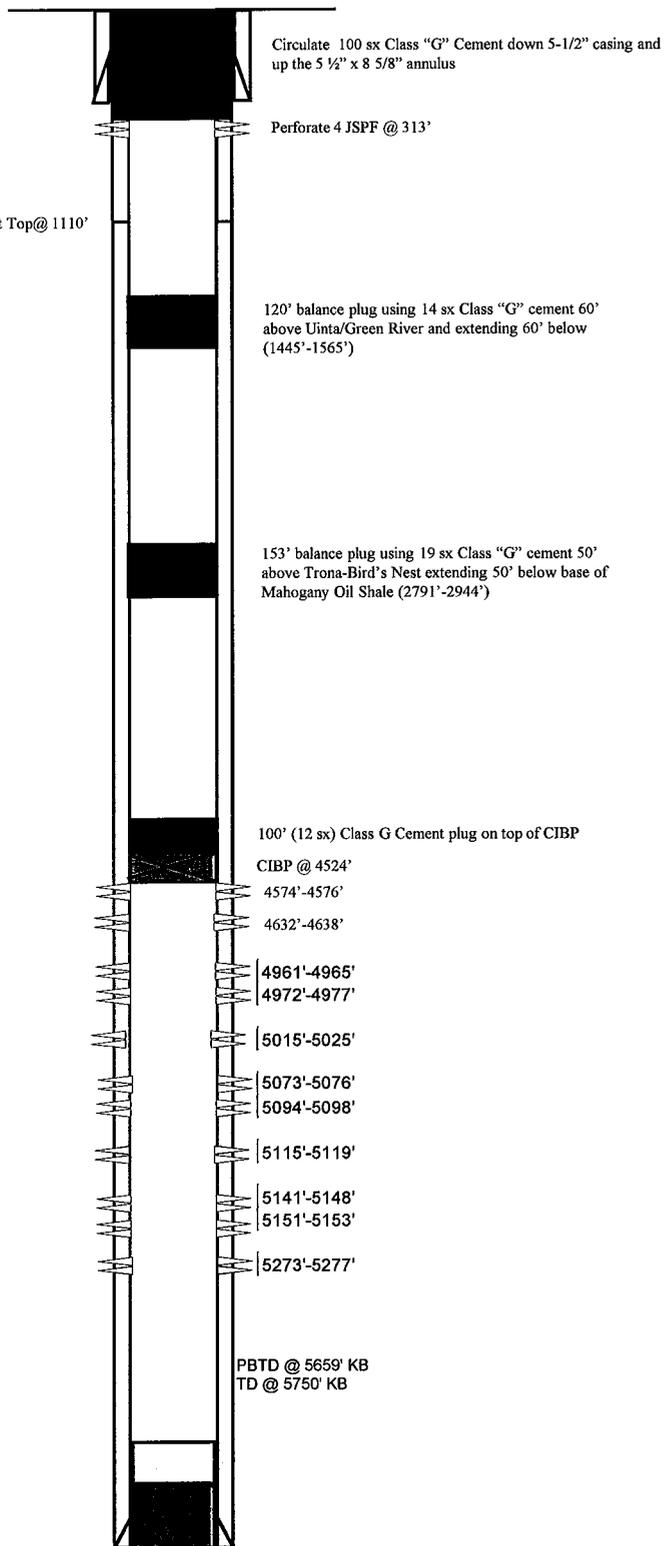
#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 253.07'  
 DEPTH LANDED: 263.07' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sks super "G", 2%  
 CaCl<sub>2</sub>, 1/4#/sk Cello-flake.  
 Returned 10 bbis to pit. Cement Top@ 1110'

#### PRODUCTION CASING

CSG SIZE: 6-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 5696.50'  
 DEPTH LANDED: 5706.50' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 181 sks super "G", 3% salt,  
 2% gel, 2#/sk Kol-seal, 1/4#/sk  
 Cello-flake, Tail w/ 400 sks  
 50/50 POZ, 2% gel, 1/4#/sk  
 Cello-flake, 2#/sk Kol-seal.

CEMENT TOP AT: 1110' KB



**NEWFIELD**

Monument Butte  
 Lease #U-52018  
 SE NW Section 20, T9S, R16E  
 1980' FNL, 1980' FWL  
 Duchesne County, Utah

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-410

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTION 15, TOWNSHIP 9 SOUTH, RANGE 15 EAST, AND SECTIONS 6, 15, 18, 19, 20, and 30, 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 17<sup>th</sup> 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:

Ashley Federal 10-15-9-15 well located in NW/4 SE/4, Section 15, Township 9 South, Range 15 East  
API 43-013-32471  
West Point U 12-6-9-16 well located in NW/4 SW/4, Section 6, Township 9 South, Range 16 East  
API 43-013-31765  
Jonah Federal 16-15-9-16 well located in SE/4 SE/4, Section 15, Township 9 South, Range 16 East  
API 43-013-32754  
Federal 12-18-9-16 well located in NW/4 SW/4, Section 18, Township 9 South, Range 16 East  
API 43-013-32998  
Federal 14-18-9-16 well located in SE/4 SW/4, Section 18, Township 9 South, Range 16 East  
API 43-013-33000  
Federal 13-19-9-16 well located in SW/4 SW/4, Section 19, Township 9 South, Range 16 East  
API 43-013-33103  
Monument Federal 22-20-9-16 well located in SE/4 NW/4, Section 20, Township 9 South, Range 16 East  
API 43-013-31681  
Federal 3-30-9-16 well located in NE/4 NW/4, Section 30, Township 9 South, Range 16 East  
API 43-013-33454

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 11<sup>th</sup> day of June, 2013.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING



Brad Hill  
Permitting Manager

**Newfield Production Company**

**ASHLEY FEDERAL 10-15-9-15, WEST POINT U 12-6-9-16,  
JONAH FEDERAL 16-15-9-16, FEDERAL 12-18-9-16,  
FEDERAL 14-18-9-16, FEDERAL 13-19-9-16  
MONUMENT FEDERAL 22-20-9-16, FEDERAL 3-30-9-16**

**Cause No. UIC-410**

Publication Notices were sent to the following:

Newfield Production Company  
1001 17th Street, Suite 2000  
Denver, CO 80202

Ute Tribe  
P O Box 190  
Ft. Duchesne, UT 84026

Uintah Basin Standard  
268 South 200 East  
Roosevelt, UT 84066  
via e-mail [legals@ubstandard.com](mailto:legals@ubstandard.com)

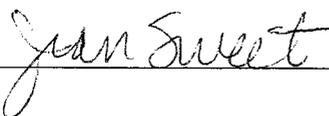
Duchesne County Planning  
P O Box 317  
Duchesne, UT 84021-0317

Salt Lake Tribune  
P O Box 45838  
Salt Lake City, UT 84145  
via e-mail [naclegal@mediaoneutah.com](mailto:naclegal@mediaoneutah.com)

Bruce Suchomel  
US EPA Region 8  
MS 8P-W-GW  
1595 Wynkoop Street  
Denver, CO 80202-1129

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

Newfield Production Company  
Rt 3 Box 3630  
Myton, UT 84052

  
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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 11, 2013

Via e-mail: [legals@ubstandard.com](mailto:legals@ubstandard.com)

Uintah Basin Standard  
268 South 200 East  
Roosevelt, UT 84066

Subject: Notice of Agency Action – Newfield Production Company Cause No. UIC-410

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](mailto: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

6/12/13

State of Utah Mail - Re: Notice of Agency Action – Newfield Production Company Cause No. UIC-410



Jean Sweet <[jsweet@utah.gov](mailto:jsweet@utah.gov)>

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## Re: Notice of Agency Action – Newfield Production Company Cause No. UIC-410

1 message

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**Cindy Kleinfelter** <[classifieds@ubstandard.com](mailto:classifieds@ubstandard.com)>

Wed, Jun 12, 2013 at 10:20 AM

To: Jean Sweet <[jsweet@utah.gov](mailto:jsweet@utah.gov)>

On 6/11/2013 2:40 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](mailto: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

--

Jean Sweet  
Executive Secretary  
Utah Division of Oil, Gas and Mining  
801-538-532

This will run June 18.

Thank you,  
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 11, 2013

VIA E-MAIL [naclegal@mediaoneutah.com](mailto: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-410

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](mailto: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

6/12/13

State of Utah Mail - Proof for Notice



Jean Sweet <jsweet@utah.gov>

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## Proof for Notice

1 message

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**Stowe, Ken** <naclegal@mediaoneutah.com>  
Reply-To: "Stowe, Ken" <naclegal@mediaoneutah.com>  
To: jsweet@utah.gov

Tue, Jun 11, 2013 at 3:21 PM

AD# 886505  
Run SL Trib & Des News 6/14  
Cost \$267.08  
Thank You

---

 **OrderConf.pdf**  
125K

**Order Confirmation for Ad #0000886505-01**

<b>Client</b>	DIV OF OIL-GAS & MINING	<b>Payor Customer</b>	DIV OF OIL-GAS & MINING
<b>Client Phone</b>	801-538-5340	<b>Payor Phone</b>	801-538-5340
<b>Account#</b>	9001402352	<b>Payor Account</b>	9001402352
<b>Address</b>	1594 W NORTH TEMP #1210, P.O. BOX 145801 SALT LAKE CITY, UT 84114 USA	<b>Payor Address</b>	1594 W NORTH TEMP #1210, P.O. BO SALT LAKE CITY, UT 84114
<b>Fax</b>	801-359-3940	<b>Ordered By</b>	<b>Acct. Exec</b>
<b>Email</b>	juliecarter@utah.gov	Jean	kstowe

<b>Total Amount</b>	<b>\$267.08</b>			
<b>Payment Amt</b>	<b>\$0.00</b>			
<b>Amount Due</b>	<b>\$267.08</b>	<b>Tear Sheets</b>	<b>Proofs</b>	<b>Affidavits</b>
		0	0	1
<b>Payment Method</b>		<b>PO Number</b>	Cause No. UIC-410	
<b>Confirmation Notes:</b>				
<b>Text:</b>	Jean			

<b>Ad Type</b>	<b>Ad Size</b>	<b>Color</b>
Legal Liner	2.0 X 78 Li	<NONE>

<b>Product</b>	<b>Placement</b>	<b>Position</b>
Salt Lake Tribune::	Legal Liner Notice - 0998	Public Meeting/Hear-ing Notices
<b>Scheduled Date(s):</b>	6/14/2013	
<b>Product</b>	<b>Placement</b>	<b>Position</b>
Deseret News::	Legal Liner Notice - 0998	Public Meeting/Hear-ing Notices
<b>Scheduled Date(s):</b>	6/14/2013	
<b>Product</b>	<b>Placement</b>	<b>Position</b>
sltrib.com::	Legal Liner Notice - 0998	Public Meeting/Hear-ing Notices
<b>Scheduled Date(s):</b>	6/14/2013	
<b>Product</b>	<b>Placement</b>	<b>Position</b>
utahlegals.com::	utahlegals.com	utahlegals.com
<b>Scheduled Date(s):</b>	6/14/2013	

**Ad Content Proof Actual Size**

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-410

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTION 15, TOWNSHIP 9 SOUTH, RANGE 15 EAST, AND SECTIONS 6, 15, 18, 19, 20, AND 30, 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:
- Ashley Federal 10-15-9-15 well located in NW/4 SE/4, Section 15, Township 9 South, Range 15 East  
API 43-013-32471
  - West Point U 12-6-9-16 well located in NW/4 SW/4, Section 6, Township 9 South, Range 16 East  
API 43-013-31765
  - Jonah Federal 16-15-9-16 well located in SE/4 SE/4, Section 15, Township 9 South, Range 16 East  
API 43-013-32754
  - Federal 12-18-9-16 well located in NW/4 SW/4, Section 18, Township 9 South, Range 16 East  
API 43-013-32998
  - Federal 14-18-9-16 well located in SE/4 SW/4, Section 18, Township 9 South, Range 16 East  
API 43-013-33000
  - Federal 13-19-9-16 well located in SW/4 SW/4, Section 19, Township 9 South, Range 16 East  
API 43-013-33103
  - Monument Federal 22-20-9-16 well located in SE/4 NW/4, Section 20, Township 9 South, Range 16 East  
API 43-013-31681
  - Federal 3-30-9-16 well located in NE/4 NW/4, Section 30, Township 9 South, Range 16 East  
API 43-013-33454

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 11th day of June, 2013.  
STATE OF UTAH  
DIVISION OF OIL, GAS & MINING  
/s/  
Brad Hill  
Permitting Manager

886505

UPAXLP

4770 S. 5600 W.  
P.O. BOX 704005  
WEST VALLEY CITY, UTAH 84170  
FED. TAX I.D.# 87-0217663  
801-204-6910

**The Salt Lake Tribune**  
www.slttrib.com

**MEDIA One**  
OF UTAH  
A NEWSPAPER AGENCY COMPANY  
1001 17TH STREET, SUITE 2000, DENVER, COLORADO 80202

**Deseret News**  
www.deseretnews.com

PROOF OF PUBLICATION

CUSTOMER'S COPY

CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	DATE
DIV OF OIL-GAS & MINING,  1594 W NORTH TEMP #1210 P.O. BOX 145801 SALT LAKE CITY, UT 84114	9001402352	6/14/2013

**BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-410**

ACCOUNT NAME			
DIV OF OIL-GAS & MINING,			
TELEPHONE		ADORDER# / INVOICE NUMBER	
8015385340		0000886505 /	
SCHEDULE			
Start 06/14/2013		End 06/14/2013	
CUST. REF. NO.			
Cause No. UIC-410			
CAPTION			
BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RE			
SIZE			
78 Lines		2.00 COLUMN	
TIMES		RATE	
4			
MISC. CHARGES		AD CHARGES	
TOTAL COST			
267.08			

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTION 15, TOWNSHIP 9 SOUTH, RANGE 15 EAST, AND SECTIONS 6, 15, 18, 19, 20, AND 30, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESE COUNTY, UTAH, A CLASS II INJECTION WELLS.

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- Greater Monument Butte Unit:**  
Ashley Federal 10-15-9-15 well located in NW/4 SE/4 Section 15, Township 9 South, Range 15 East  
API 43-013-32471  
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API 43-013-31765  
Jonah Federal 16-15-9-16 well located in SE/4 SE/4, Section 15, Township 9 South, Range 16 East  
API 43-013-32754  
Federal 12-18-9-16 well located in NW/4 SW/4, Section 18, Township 9 South, Range 16 East  
API 43-013-32998  
Federal 14-18-9-16 well located in SE/4 SW/4, Section 11 Township 9 South, Range 16 East  
API 43-013-33000  
Federal 13-19-9-16 well located in SW/4 SW/4, Section 19, Township 9 South, Range 16 East  
API 43-013-33103  
Monument Federal 22-20-9-16 well located in SE/4 NW/4 Section 20, Township 9 South, Range 16 East  
API 43-013-31681  
Federal 3-30-9-16 well located in NE/4 NW/4, Section 3 Township 9 South, Range 16 East  
API 43-013-33454

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 pressure 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, 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 procedure rules. Protestants and/or intervenors should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 11th day of June, 2013.  
STATE OF UTAH  
DIVISION OF OIL, GAS & MINING  
/s/ Brad Hill  
Permitting Manager

886505

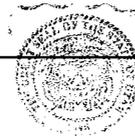
UPAKLF

AFFIDAVIT OF PUBLICATION

AS NEWSPAPER AGENCY COMPANY, LLC dba MEDIAONE OF UTAH LEGAL BOOKER, I CERTIFY THAT THE ATTACHED ADVERTISEMENT OF **BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH NOTICE OF AGENCY ACTION CAUSE NO. UIC-410 IN THE MATTER OF THE APPLICA FOR DIV OF OIL-GAS & MINING**, WAS PUBLISHED BY THE NEWSPAPER AGENCY COMPANY, LLC dba MEDIAONE OF UTAH, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET NEWS, DAILY NEWSPAPERS PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN UTAH, AND PUBLISHED IN SALT LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH. NOTICE IS ALSO POSTED ON UTAHLEGALS.COM ON THE SAME DAY AS THE FIRST NEWSPAPER PUBLICATION DATE AND REMAINS ON UTAHLEGALS.COM INDEFINITELY.

PUBLISHED ON Start 06/14/2013 End 06/14/2013

SIGNATURE

VIRGINIA CRAFT  
Notary Public, State of Utah  
Commission # 581489  
My Commission Expires  
January 12 2014



6/14/2013

THIS IS NOT A STATEMENT BUT A "PROOF OF PUBLICATION"  
PLEASE PAY FROM BILLING STATEMENT

# AFFIDAVIT OF PUBLICATION

**NOTICE OF  
AGENCY AC-  
TION  
CAUSE NO.  
UIC-410**

County of Duchesne,  
STATE OF UTAH

I, Kevin Ashby on oath, say that I am the PUBLISHER of the Uintah Basin Standard, a weekly newspaper of general circulation, published at Roosevelt, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue such newspaper for 1 consecutive issues, and that the first publication was on the 18 day of June, 20 13, and that the last publication of such notice was in the issue of such newspaper dated the 18 day of JUNE, 20 13, and that said notice was published on Utahlegals.com on the same day as the first newspaper publication and the notice remained on Utahlegals.com until the end of the scheduled run.

Publisher

Subscribed and sworn to before me on this

19 day of June, 20 13

by Kevin Ashby.

Notary Public



BEFORE THE DIVISION OF OIL, GAS AND MINING, DEPARTMENT OF NATURAL RESOURCES, STATE OF UTAH

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTION 15, TOWNSHIP 9 SOUTH, RANGE 15 EAST, AND SECTIONS 6, 15, 18, 19, 20, and 30, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

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Greater Monument Butte Unit:

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API 43-013-32471

West Point U 12-6-9-16 well located in NW/4 SW/4, Section 6, Township 9 South, Range 16 East

API 43-013-31765

Jonah Federal 16-15-9-16 well located in SE/4 SE/4, Section 15, Township 9 South, Range 16 East

API 43-013-32754

Federal 12-18-9-16 well located in

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.

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Dated this 11th day of June, 2013.

STATE OF UTAH  
DIVISION OF OIL,  
GAS & MINING

Brad Hill  
Permitting Manager  
Published in the  
Uintah Basin Standard  
June 18, 2013.

see Tarrest  
Notary Public

Notary Public  
BONNIE KAPRIST  
Commission Expires  
February 28, 2014  
State of Utah

injection wells:  
Greater Monument  
Butte Unit:

Ashley Federal 10-  
15-9-15 well located  
in NW/4 SE/4, Section  
15, Township 9 South,  
Range 15 East

API 43-013-32471

West Point U 12-6-  
9-16 well located in  
NW/4 SW/4, Section  
6, Township 9 South,  
Range 16 East

API 43-013-31765

Jonah Federal 16-  
15-9-16 well located  
in SE/4 SE/4, Section  
15, Township 9 South,  
Range 16 East

API 43-013-32754

Federal 12-18-9-  
16 well located in  
NW/4 SW/4, Section  
18, Township 9 South,  
Range 16 East

API 43-013-32998

Federal 14-18-9-  
16 well located in  
SE/4 SW/4, Section  
18, Township 9 South,  
Range 16 East

API 43-013-33000

Federal 13-19-9-  
16 well located in  
SW/4 SW/4, Section  
19, Township 9 South,  
Range 16 East

API 43-013-33103

Monument Federal  
22-20-9-16 well lo-  
cated in SE/4 NW/4,  
Section 20, Township  
9 South, Range 16 East

API 43-013-31681

Federal 3-30-9-16  
well located in NE/4  
NW/4, Section 30,  
Township 9 South,  
Range 16 East

API 43-013-33454

The proceeding will  
be conducted in ac-  
cordance with Utah  
Admin. R649-10, Ad-  
ministrative Proce-  
dures.

Permitting Manager  
Published in the  
Uintah Basin Standard  
June 18, 2013.

**DIVISION OF OIL, GAS AND MINING  
UNDERGROUND INJECTION CONTROL PROGRAM  
PERMIT  
STATEMENT OF BASIS**

**Applicant:** Newfield Production Company      **Well:** Monument Federal 22-20-9-16

**Location:** 20/9S/16E      **API:** 43-013-31681

**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 263 feet and has a cement top at the surface. A 5½ inch production casing is set at 5,707 feet. The cement bond log is somewhat problematic but appears to demonstrate adequate bond in this well up to about 3,053 feet. A 2 7/8 inch tubing with a packer will be set at 4,524 feet. Higher perforations will be opened at a later date. A mechanical integrity test will be run on the well prior to injection. There are 2 producing wells, 4 injection wells, 1 shut-in well (the proposed injection well), 1 P/A well, and 1 temporarily abandoned well in the AOR. All of the wells have evidence of adequate casing and cement for the proposed injection interval.

**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 2700 feet. Injection shall be limited to the interval between 3,893 feet and 5,659 feet in the Green River Formation. Information submitted by Newfield indicates that the fracture gradient for the 22-20-9-16 well is 0.69 psi/ft., which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 1,267 psig. The requested maximum pressure is 1,267 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.

**Monument Federal 22-20-9-16**

**page 2**

**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: 6/20/2013



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

July 10, 2013

Newfield Production Company  
1001 Seventeenth Street, Suite 2000  
Denver, CO 80202

Subject: Greater Monument Butte Unit Well: Monument Federal 22-20-9-16, Section 20, Township 9 South, Range 16 East, SLBM, Duchesne County, Utah, API Well # 43-013-31681

Gentlemen:

Pursuant to Utah Admin. Code R649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced well to a Class II injection well. Accordingly, the following stipulations shall apply for full compliance with this approval:

1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.
2. Conformance with all conditions and requirements of the complete application submitted by Newfield Production Company.
3. A casing\tubing pressure test shall be conducted prior to commencing injection.
4. Pressure shall be monitored between the surface casing and the production casing on a regular basis. Any pressure changes observed shall be reported to the Division immediately.
5. The top of the injection interval shall be limited to a depth no higher than 3,893 feet in the Monument Federal 22-20-9-16 well.

A final approval to commence injection will be issued upon satisfactory completion of the listed stipulations. If you have any questions regarding this approval or the necessary requirements, please contact Mark Reinbold 801-538-5333 or Brad Hill at 801-538-5315.

Sincerely,

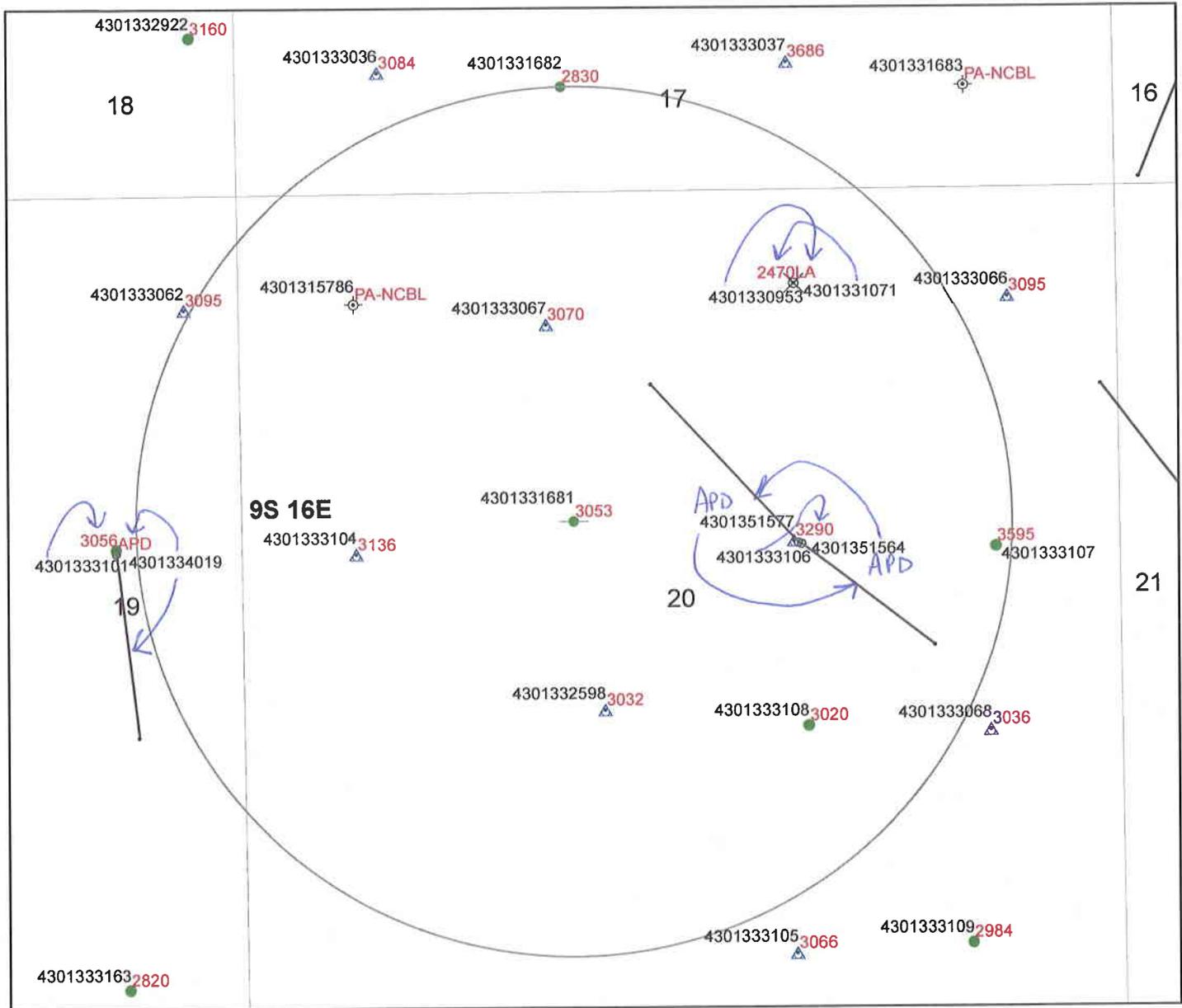
John Rogers  
Associate Director

JR/MLR/js

cc: Bruce Suchomel, Environmental Protection Agency  
Bureau of Land Management, Vernal  
Duchesne County  
Newfield Production Company, Myton  
Well File

N:\O&G Reviewed Docs\ChronFile\UIC



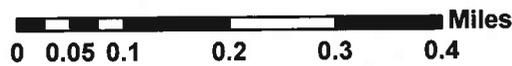


**Legend**

**Oil & Gas Well Type**

- APD-Approved Permit
- ⊕ DRL-Spudded (Drilling Commenced)
- ⊗ GIW-Gas Injection Well
- <sub>GS</sub> GSW-Gas Storage Well
- × LA-Location Abandoned
- LOC-New Location Well
- OPS-Drilling Operations Suspended
- ⊙ PA-Pugged & Abandoned
- ⊛ PGW-Producing Gas Well
- POW-Producing Oil Well
- ▲ RET-Returned APD
- ⊛ SGW-Shut-in Gas Well
- SOW-Shut-in Oil Well
- ⊗ TA-Temp Abandoned
- TW-Test Well
- ⊗ WDW-Water Disposal Well
- ▲ WIW-WaterInjection Well
- WSW-Water Supply Well

**Cement Bond Tops  
Monument Federal 22-30-9-16  
API #43-013-31681  
UIC-410.7**



- 4585 Depth to top of suitable cement bond
- Well Bottom Hole Location
- Oil & Gas Wells Hole Directional Path  
Wells-CbltopsMaster 1-31-13
- DNR Oil Gas Wells Buffer
- County Boundaries
- PLSS Sections
- PLSS Townships



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-410

**Operator:** Newfield Production Company  
**Well:** Monument Federal 22-20-9-16  
**Location:** Section 20, Township 9 South, Range 16 East  
**County:** Duchesne  
**API No.:** 43-013-31681  
**Well Type:** Enhanced Recovery (waterflood)

### Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on July 10, 2013.
2. Maximum Allowable Injection Pressure: 1,267 psig
3. Maximum Allowable Injection Rate: (restricted by pressure limitation)
4. Injection Interval: Green River Formation (3,893' – 5,659')
5. 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

2/26/2014  
Date

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





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

July 29, 2014

Rosie Purnell  
NEWFIELD PRODUCTION COMPANY  
Rt 3 Box 3630  
Myton, UT 84052

RE: Designation of Workover or Recompletion, Form 15.

Dear Rosie Purnell,

Enclosed is a copy of the referenced form received by the Division of Oil, Gas and Mining for the MON FED 22-20-9-16 well (43013316810000). Total expenses in the amount of \$ 31219.00 were submitted for the Production Enhancement work that commenced on February 4, 2014 and was completed on February 5, 2014.

The total submitted expenses fall within the statutory definition of workover or recompletion. ***Therefore, your request for designation of the expenses as qualifying workover recompletion expenses is being approved as submitted for the amount of \$ 31219.00.***

Please contact me at (801) 538-5281 if you require further information regarding this matter. Thank you.

Sincerely,

Dustin K Doucet  
Petroleum Engineer

Enclosures

cc: Utah Tax Commission w/enclosure  
Operator file



**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:  
USA UTU-52018

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

**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.

7. UNIT or CA AGREEMENT NAME:  
GMBU

1. TYPE OF WELL:

OIL WELL  GAS WELL  OTHER

8. WELL NAME and NUMBER:

MONUMENT PED 22-20-9-16

2. NAME OF OPERATOR:

NEWFIELD PRODUCTION COMPANY

9. API NUMBER:

4301331681

3. ADDRESS OF OPERATOR:

Route 3 Box 3630 CITY Myton STATE UT ZIP 84052

PHONE NUMBER

435.646.3721

10. FIELD AND POOL, OR WILDCAT:

GREATER MB UNIT

4. LOCATION OF WELL:

FOOTAGES AT SURFACE: 1980 FNL 1980 FWL

COUNTY: DUCHESNE

OTR/OTR SECTION TOWNSHIP RANGE MERIDIAN: SENW, 20, T9S, R16E

STATE: UT

## 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 (Submit in Duplicate)  Approximate date work will  _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  02/05/2014	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input checked="" type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: -
	<input checked="" type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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 02/04/2014.

On 02/04/2014 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 02/05/2014 the casing was pressured up to 1442 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not a State representative available to witness the test.

NAME (PLEASE PRINT) Lucy Chavez-Naupoto

TITLE Water Services Technician

SIGNATURE \_\_\_\_\_

DATE 02/19/2014



## Summary Rig Activity

Nipple, 2 3/8"x 4' Tbg Sub, XO, AS-1 PKR (dressed for 5 1/2" 15.5# Csg), X Seal Nipple, On/Off Tool, Seating Nipple, 143- Jts, RU & RIH w/ SL to Seat Stnd Valv, 3BW to Fill Tbg, MU Isolation T, PT Tbg to 3000psi, Observe Pressure, No Pressure Loss In 45Min, Retrieved Stnd Valv, RD Workfloor, ND BOP, MU WH, SWIFN...6:00 to 6:30PM - 5:30 to 6:00AM c/travl: SICP 0psi SITP 0psi Both Sides On Vac, OWU, POOH w/ Tbg Breaking & Inspecting Each Collar, Applied Liquid O-Ring To Each Pin & Retorqued, Tallied Each Stnd Until Reached 4477' w/ 143- Jts, LD Remaining 27- Jts, Located Hole In Jt# 166, PU Weatherford Injection PKR Ass: RE-Guide, XN Profile Nipple, 2 3/8"x 4' Tbg Sub, XO, AS-1 PKR (dressed for 5 1/2" 15.5# Csg), X Seal Nipple, On/Off Tool, Seating Nipple, 143- Jts, RU & RIH w/ SL to Seat Stnd Valv, 3BW to Fill Tbg, MU Isolation T, PT Tbg to 3000psi, Observe Pressure, No Pressure Loss In 45Min, Retrieved Stnd Valv, RD Workfloor, ND BOP, MU WH, SWIFN...6:00 to 6:30PM - 5:30 to 6:00AM c/travl: SICP 0psi SITP 0psi Both Sides On Vac, OWU, BMW H/Oiler Pmped 60BW w/ PKR Fluids d/Csg, ND WH, MU 3K Injection Tree, Set AS-1 PKR CE @ 4493.6' w/ 1500# of Tension, NU IT, 3BW to Fill Annulus, PT Csg to 1500psi, Observ Pressure, NO PRESSURE LOSS IN 30Min, GOOD TEST!!, XO For Rods, RDMOSU. FINAL RIG REPORT...READY FOR MIT!!! - 5:30 to 6:00AM c/travl: SICP 0psi SITP 0psi Both Sides On Vac, OWU, BMW H/Oiler Pmped 60BW w/ PKR Fluids d/Csg, ND WH, MU 3K Injection Tree, Set AS-1 PKR CE @ 4493.6' w/ 1500# of Tension, NU IT, 3BW to Fill Annulus, PT Csg to 1500psi, Observ Pressure, NO PRESSURE LOSS IN 30Min, GOOD TEST!!, XO For Rods, RDMOSU. FINAL RIG REPORT...READY FOR MIT!!! - 5:30 to 6:00AM c/travl: SICP 0psi SITP 0psi Both Sides On Vac, OWU, BMW H/Oiler Pmped 60BW w/ PKR Fluids d/Csg, ND WH, MU 3K Injection Tree, Set AS-1 PKR CE @ 4493.6' w/ 1500# of Tension, NU IT, 3BW to Fill Annulus, PT Csg to 1500psi, Observ Pressure, NO PRESSURE LOSS IN 30Min, GOOD TEST!!, XO For Rods, RDMOSU. FINAL RIG REPORT...READY FOR MIT!!! - 5:30 to 6:00AM c/travl: SICP 0psi SITP 0psi Both Sides On Vac, OWU, BMW H/Oiler Pmped 60BW w/ PKR Fluids d/Csg, ND WH, MU 3K Injection Tree, Set AS-1 PKR CE @ 4493.6' w/ 1500# of Tension, NU IT, 3BW to Fill Annulus, PT Csg to 1500psi, Observ Pressure, NO PRESSURE LOSS IN 30Min, GOOD TEST!!, XO For Rods, RDMOSU. FINAL RIG REPORT...READY FOR MIT!!!

**Daily Cost:** \$0**Cumulative Cost:** \$31,284**2/6/2014 Day: 5****Conversion**

Rigless on 2/6/2014 - Conduct initial MIT - On 02/04/2014 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 02/05/2014 the casing was pressured up to 1442 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not a State representative available to witness the test. **Finalized**

**Daily Cost:** \$0**Cumulative Cost:** \$63,496**Pertinent Files: Go to File List**



Source	(Multiple Items)	MONUMENT FEDERAL 22-20-9-16		
Sum of Line Amount				
Account	Account Name	Service Date	Party Name	Total
885107	Chemical Treatment-Subsurface	1/31/2014 Total	1/31/2014   MULTI-CHEM GROUP LLC	285.94
	Chemical Treatment-Subsurface Total			285.94
<b>885107 Total</b>				
885128	Hot Oiling Services	1/31/2014 Total	1/31/2014   BMW HOT OIL INC	1732.46
		2/3/2014 Total	2/3/2014   BMW HOT OIL INC	1714.21
		2/4/2014 Total	2/4/2014   BMW HOT OIL INC	720
	Hot Oiling Services Total			4166.67
<b>885128 Total</b>				
885138	Automation	2/17/2014 Total	2/17/2014   WINN-MARION BARBER LLC	3698.14
		2/24/2014 Total	2/24/2014   ROCKY MOUNTAIN AUTOMATION LLC WINN-MARION BARBER LLC	186.5
		2/27/2014 Total	2/27/2014   CIMATION LLC	331.55
		2/28/2014 Total	2/28/2014   PARAGON AUTOMATION INC	3126.53
		3/3/2014 Total	3/3/2014   RYAN ROSS SERVICES INC	228
	Automation Total			15482.58
<b>885138 Total</b>				
885140	Labor - Company Employees	3/31/2014 Total	3/31/2014   (blank)	627.76
	Labor - Company Employees Total			627.76
<b>885140 Total</b>				
885141	Labor - Contract Employees	1/24/2014 Total	1/24/2014   HAMMER OILFIELD SERVICE COMPANY INC	575
		1/31/2014 Total	1/31/2014   JESSEN ELECTRIC INC	186.18
		2/18/2014 Total	2/18/2014   US OILFIELD SERVICES LLC	1900
	Labor - Contract Employees Total			2661.18
<b>885141 Total</b>				
885144	Location Remediation & Maintenance	2/6/2014 Total	2/6/2014   RASMUSSEN ROCK	46.84
	Location Remediation & Maintenance Total			46.84
<b>885144 Total</b>				
885146	Miscellaneous Services	1/24/2014 Total	1/24/2014   BENCO OIL SERVICES INC	608
		2/5/2014 Total	2/5/2014   ZUBIATE MACHINE WORKS LLC	296.66
	Miscellaneous Services Total			904.66
<b>885146 Total</b>				
885150	Rig Costs - Dayrate	2/4/2014 Total	2/4/2014   NEWFIELD DRILLING SERVICES INC	15517
	Rig Costs - Dayrate Total			15517
<b>885150 Total</b>				
885162	Transportation - Land	1/30/2014 Total	1/30/2014   WESTERN WELL SERVICE INC ZUBIATE HOT OIL	100
		1/31/2014 Total	1/31/2014   SHIELDS TRUCKING INC	934
		2/3/2014 Total	2/3/2014   RUNNERS INC	402.5
		2/4/2014 Total	2/4/2014   SHIELDS TRUCKING INC WESTERN WELL SERVICE INC	1500.06
		2/5/2014 Total	2/5/2014   ZUBIATE HOT OIL	262.5
	Transportation - Land Total			100
<b>885162 Total</b>				
885307	Cranes	2/7/2014 Total	2/7/2014   B & G CRANE AND OILFIELD SERVICES INC	3390
	Cranes Total			3390
<b>885307 Total</b>				
885601	Artificial Lift	2/7/2014 Total	2/7/2014   (blank)	-9890
	Artificial Lift Total			-9890
<b>885601 Total</b>				
885604	Packers & Liner Hangers	2/1/2014 Total	2/1/2014   WEATHERFORD	7255.64
	Packers & Liner Hangers Total			7255.64
<b>885604 Total</b>				
885613	Pipe - Tubing	1/31/2014 Total	1/31/2014   (blank)	1715.18
				1715.18

Source (Multiple Items) MONUMENT FEDERAL 22-20-9-16

Sum of Line Amount				Total
Account	Account Name	Service Date	Party Name	Total
885613	Pipe - Tubing	2/4/2014	(blank)	-2554.18
		2/4/2014 Total		-2554.18
	Pipe - Tubing Total			-839
<b>885613 Total</b>				<b>-839</b>
885614	Rods	2/4/2014	(blank)	-1287
		2/4/2014 Total		-1287
	Rods Total			-1287
<b>885614 Total</b>				<b>-1287</b>
885617	Wellhead	2/14/2014	PARAGON OILFIELD PRODUCTS	5534.09
		2/14/2014 Total		5534.09
		2/17/2014	US OILFIELD SERVICES LLC	1925
		2/17/2014 Total		1925
		2/18/2014	VETCO GRAY INC	2998.89
		2/18/2014 Total		2998.89
		2/20/2014	PARAGON OILFIELD PRODUCTS	207.64
		2/20/2014 Total		207.64
	Wellhead Total			10665.62
<b>885617 Total</b>				<b>10665.62</b>
(blank)	(blank)	(blank)	(blank)	0
		(blank) Total		0
	(blank) Total			0
<b>(blank) Total</b>				<b>0</b>
<b>Grand Total</b>				<b>52603.95</b>

Day 5

<b>NEWFIELD</b>				<b>Final Daily Workover Report</b>		Well Name:	MON 22-20-9-16
				INJCNV		AFE:	42638
						Report Date:	2/6/2014
						Operation:	Conversion MIT
Field:	GMBU CTB3	Rig Name:	Rigless			Work Performed:	2/5/2014
Location:	S20 T9S R16E	Supervisor:	Rusty Bird			Day:	5
County:	DUCHESNE	Phone:	453- 823-7388			Daily Cost:	\$32,212
State:	UT	Email:	rustybird@newfield.com			Cum DWR:	\$63,496
Reason for Workover:	Conversion						

## Failures

Failure Date	Failure 1	Failure 2	Failure 3	Failure 4	Failure 5
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## Summaries

24 Hr. Summary:	Conduct initial MIT				
24 Hr. Plan Forward:	Wait for approval to commence injection				
Incidents	None	Newfield Pers:	1	Contract Pers:	0
Conditions:					

## Activity Summary

**10:30 AM - 11:00 AM; 0.5 Hr(s); P:** On 02/04/2014 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 02/05/2014 the casing was pressured up to 1442 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not a State representative available to witness the test.

## Casing Data

Type	Size	Weight	Grade	Conn.	Top	Bottom	PBDT	Upd. PBDT	TOC	Burst	Collapse	ID	Drift	Capacity	Comments
Surface	8 5/8"	24	J-55	STC		263									
Production	5 1/2"	15.5	J-55	STL		5707	5659		1110'						

## Tubing Data

Component	JTS	Size	Weight	Grade	Conn.	Length	Top	Bottom	Condition	Transferred From	Comments
KB						10.0		10'			
Tubing	143	2-7/8"	6.5	J-55	8 RND EUE	4477.4	10.0	4487.44'			
Seating Nipple	1	2-7/8"			8 RND EUE	1.1	4487.4	4488.54'			
on/off Skirt	1	2-7/8"			8 RND EUE	1.5	4488.5	4489.99'			
"x" Seal Nipple	1	1.875			8 RND EUE	0.3	4490.0	4490.32'			
AS 1 Packer	1	5 1/2"			8 RND EUE	7.0	4490.3	4497.27'			CE. @ 4493.62
XO	1	2-3/8"			8 RND EUE	0.5	4497.3	4497.78'			
Tubing Pup	1	2-3/8"			8 RND EUE	4.0	4497.8	4501.78'			
XN Profile Nipple	1	1.796ID			8 RND EUE	1.2	4501.8	4503'			
Wireline RE Guide	1	2-3/8"			8 RND EUE	0.4	4503.0	4503.4'			EOT

## Rod Detail Data

Count	Component	Size	Grade	Length	Top	Bottom	Comments
0							
0							
0							
0							
0							

**Pump Information**

Stroke Length:	0	SPM:	0	Well on Prod Date:		Well on Pump Date:	
Pump Notes:							
Pump Unit Description:							
Motor Size:	0	Motor Description:					

Pump Type	Max ID	Bbl Lng	Ext Lng	Ext Lng 2	Plunger Size	Description
	0	0'	0'	0'	0	

psi, 64s, bbls, mcf	TP	CP	Choke	Oil Vol	Oil Rate	Water Vol	Water Rate	Gas Vol	Gas Rate
Daily Total									
Well Total									

**Well Costs**

Code	Description	Comments	Daily	Cumulative
885120	Fluid Disposal	Fluid Disposal	\$600.00	\$600.00
885128	Hot Oiling Services	Hot Oiler	\$1,900.00	\$6,737.00
885138	Instrumentation	Insturmentation	\$8,400.00	\$8,400.00
885139	Labor - Company Supervision	NFX Supervision	\$600.00	\$1,500.00
885140	Labor - Company Employees	NFX Labor	\$160.00	\$160.00
885141	Labor - Contract Employees	Contract Labor	\$11,774.00	\$11,774.00
885144	Location Remediation & Maintenance		\$0.00	\$0.00
885146	Miscellaneous Services		\$0.00	\$650.00
885150	Rig Costs - Dayrate		\$0.00	\$15,537.00
885162	Transportation - Land	Transportation	\$1,300.00	\$2,400.00
885302	Blowout Preventers		\$0.00	\$700.00
885304	Completion Fluids		\$0.00	\$300.00
885603	Miscellaneous Subsurface Equip Rental		\$0.00	\$0.00
885963	Contingency		\$0.00	\$0.00
<b>Total Intangibles:</b>			<b>\$24,734.00</b>	<b>\$48,758.00</b>

885604	Packers & Liner Hangers		\$0.00	\$3,500.00
885613	Pipe - Tubing		\$0.00	\$760.00
885617	Wellhead	Wellhead	\$7,478.00	\$10,478.00
<b>Total Tangibles:</b>			<b>\$7,478.00</b>	<b>\$14,738.00</b>
<b>Total Daily Costs:</b>			<b>\$32,212.00</b>	<b>\$63,496.00</b>



**Pump Information**

Stroke Length:	0	SPM:	0	Well on Prod Date:		Well on Pump Date:	
Pump Notes:							
Pump Unit Description:							
Motor Size:	0	Motor Description:					

Pump Type	Max ID	Bbl Lng	Ext Lng	Ext Lng 2	Plunger Size	Description

psi, 64s, bbls, mcf	TP	CP	Choke	Oil Vol	Oil Rate	Water Vol	Water Rate	Gas Vol	Gas Rate
Daily Total									
Well Total									

**Well Costs**

Code	Description	Comments	Daily	Cumulative
885120	Fluid Disposal		\$0.00	\$0.00
885128	Hot Oiling Services	BMW Hot Oil	\$1,346.00	\$4,837.00
885139	Labor - Company Supervision	NDSI Supervision Jeremy Silcox	\$150.00	\$900.00
885140	Labor - Company Employees		\$0.00	\$0.00
885141	Labor - Contract Employees		\$0.00	\$0.00
885144	Location Remediation & Maintenance		\$0.00	\$0.00
885146	Miscellaneous Services	Muilti Chem Packer Fluids	\$350.00	\$650.00
885150	Rig Costs - Dayrate	NC#1	\$2,550.00	\$15,537.00
885162	Transportation - Land		\$0.00	\$1,100.00
885302	Blowout Preventers		\$0.00	\$700.00
885304	Completion Fluids		\$0.00	\$300.00
885603	Miscellaneous Subsurface Equip Rental		\$0.00	\$0.00
885963	Contingency		\$0.00	\$0.00
			<b>Total Intangibles:</b>	<b>\$4,396.00</b>
				<b>\$24,024.00</b>

885604	Packers & Liner Hangers	Weatherford AS-1 Injection PKR w/ XN Nipple	\$3,500.00	\$3,500.00
885613	Pipe - Tubing	2- Buckets Green Dope \$600, 2- 3000# Ball Valves \$160	\$760.00	\$760.00
885617	Wellhead	3K Injection Tree #140809 w/ R45 Ring Gasket	\$3,000.00	\$3,000.00
			<b>Total Tangibles:</b>	<b>\$7,260.00</b>
			<b>Total Daily Costs:</b>	<b>\$11,656.00</b>
				<b>\$31,284.00</b>



**Well Costs**

Code	Description	Comments	Daily	Cumulative
885120	Fluid Disposal		\$0.00	\$0.00
885128	Hot Oiling Services	BMW Hot Oil	\$1,715.00	\$3,491.00
885139	Labor - Company Supervision	NDSI Supervision Jeremy Silcox	\$300.00	\$750.00
885140	Labor - Company Employees		\$0.00	\$0.00
885141	Labor - Contract Employees		\$0.00	\$0.00
885144	Location Remediation & Maintenance		\$0.00	\$0.00
885146	Miscellaneous Services		\$0.00	\$300.00
885150	Rig Costs - Dayrate	NC#1	\$6,307.00	\$12,987.00
885162	Transportation - Land		\$0.00	\$1,100.00
885302	Blowout Preventers	Weatherford BOP, WH, TIW	\$350.00	\$700.00
885304	Completion Fluids		\$0.00	\$300.00
885603	Miscellaneous Subsurface Equip Rental		\$0.00	\$0.00
885963	Contingency		\$0.00	\$0.00
<b>Total Intangibles:</b>			<b>\$8,672.00</b>	<b>\$19,628.00</b>

885604	Packers & Liner Hangers		\$0.00	\$0.00
885613	Pipe - Tubing		\$0.00	\$0.00
885617	Wellhead		\$0.00	\$0.00
<b>Total Tangibles:</b>			<b>\$0.00</b>	<b>\$0.00</b>
<b>Total Daily Costs:</b>			<b>\$8,672.00</b>	<b>\$19,628.00</b>



**Well Costs**

<b>Code</b>	<b>Description</b>	<b>Comments</b>	<b>Daily</b>	<b>Cumulative</b>
885120	Fluid Disposal		\$0.00	\$0.00
885128	Hot Oiling Services	BMW Hot Oil	\$1,776.00	\$1,776.00
885139	Labor - Company Supervision	NDSI Supervision Jeremy Silcox	\$300.00	\$450.00
885140	Labor - Company Employees		\$0.00	\$0.00
885141	Labor - Contract Employees		\$0.00	\$0.00
885144	Location Remediation & Maintenance		\$0.00	\$0.00
885146	Miscellaneous Services	Jessen Electric	\$300.00	\$300.00
885150	Rig Costs - Dayrate	NC#1	\$5,160.00	\$6,680.00
885162	Transportation - Land		\$0.00	\$1,100.00
885302	Blowout Preventers	Weatherford BOP, WH, TIW	\$350.00	\$350.00
885304	Completion Fluids		\$0.00	\$300.00
885603	Miscellaneous Subsurface Equip Rental		\$0.00	\$0.00
885963	Contingency		\$0.00	\$0.00
<b>Total Intangibles:</b>			<b>\$7,886.00</b>	<b>\$10,956.00</b>

885604	Packers & Liner Hangers		\$0.00	\$0.00
885613	Pipe - Tubing		\$0.00	\$0.00
885617	Wellhead		\$0.00	\$0.00
<b>Total Tangibles:</b>			<b>\$0.00</b>	<b>\$0.00</b>
<b>Total Daily Costs:</b>			<b>\$7,886.00</b>	<b>\$10,956.00</b>



**Well Costs**

Code	Description	Comments	Daily	Cumulative
885120	Fluid Disposal		\$0.00	\$0.00
885128	Hot Oiling Services		\$0.00	\$0.00
885139	Labor - Company Supervision	NDSI Supervision Jeremy Silcox	\$150.00	\$150.00
885140	Labor - Company Employees		\$0.00	\$0.00
885141	Labor - Contract Employees		\$0.00	\$0.00
885144	Location Remediation & Maintenance		\$0.00	\$0.00
885146	Miscellaneous Services		\$0.00	\$0.00
885150	Rig Costs - Dayrate	NC#1	\$1,520.00	\$1,520.00
885162	Transportation - Land	Western Well Service, Zubiate Trucking 2-tanks	\$1,100.00	\$1,100.00
885302	Blowout Preventers		\$0.00	\$0.00
885304	Completion Fluids	Shields Trucking 2- Loads Johnson Fresh Wtr	\$300.00	\$300.00
885603	Miscellaneous Subsurface Equip Rental		\$0.00	\$0.00
885963	Contingency		\$0.00	\$0.00
<b>Total Intangibles:</b>			<b>\$3,070.00</b>	<b>\$3,070.00</b>

885604	Packers & Liner Hangers		\$0.00	\$0.00
885613	Pipe - Tubing		\$0.00	\$0.00
885617	Wellhead		\$0.00	\$0.00
<b>Total Tangibles:</b>			<b>\$0.00</b>	<b>\$0.00</b>
<b>Total Daily Costs:</b>			<b>\$3,070.00</b>	<b>\$3,070.00</b>

<b>NEWFIELD</b>		<b>Perforation Report</b>					<b>Well Name:</b>		MON 22-20-9-16						
		INJCNV					<b>Report Date:</b>		2/6/2014						
<b>Field:</b>		GMBU CTB3			<b>Rig Name:</b>		Rigless					<b>Operation:</b>		Conversion MIT	
<b>Location:</b>		S20 T9S R16E			<b>Supervisor:</b>		Rusty Bird					<b>Day:</b>		5	
<b>County:</b>		DUCHESNE			<b>Phone:</b>		453- 823-7388					<b>Work Performed:</b>		2/5/2014	
<b>State:</b>		UT			<b>Email:</b>		rustybird@newfield.com					<b>AFE No.:</b>		42638	
												<b>Daily Cost:</b>		\$32,212	
Stage	Date	Bore Type	Formation	Zone	Top Depth (ft)	Bottom Depth (ft)	SPF	Shots	Phase (deg)	Gun Type	Charges	Comments			
0	6/23/2000	Vertical	Green River		4574	4576	2	4							
0	6/23/2000	Vertical	Green River		4632	4638	2	10							
0	6/23/2000	Vertical	Green River		4961	4965	2	8							
0	6/23/2000	Vertical	Green River		4972	4977	2	10							
0	6/23/2000	Vertical	Green River		5015	5025	2	20							
0	6/23/2000	Vertical	Green River		5073	5076	2	6							
0	6/23/2000	Vertical	Green River		5094	5098	2	8							
0	6/23/2000	Vertical	Green River		5115	5119	2	8							
0	6/23/2000	Vertical	Green River		5141	5148	2	14							
0	6/23/2000	Vertical	Green River		5151	5153	2	4							
0	6/23/2000	Vertical	Green River		5273	5277	4	16							

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>	5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-52018
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
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: MON FED 22-20-9-16
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052	9. API NUMBER: 43013316810000
PHONE NUMBER: 435 646-4825 Ext	9. FIELD and POOL or WILDCAT: MONUMENT BUTTE
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1980 FNL 1980 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 20 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"/> CHANGE TO PREVIOUS PLANS <input checked="" type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input checked="" type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 2/5/2014			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

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 02/04/2014. On 02/04/2014 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 02/05/2014 the casing was pressured up to 1442 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not a State representative available to witness the test.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining**

Date: February 20, 2014

By:

NAME (PLEASE PRINT) Lucy Chavez-Naupoto	PHONE NUMBER 435 646-4874	TITLE Water Services Technician
SIGNATURE N/A	DATE 2/19/2014	

# Mechanical Integrity Test Casing or Annulus Pressure Test

Newfield Production Company  
Rt. 3 Box 3630  
Myton, UT 84052  
435-646-3721

Witness: \_\_\_\_\_ Date 2/5/14 Time 10:28 am pm  
Test Conducted by: Rick Baskin  
Others Present: \_\_\_\_\_

Well: <u>Monument 22-20-9-16</u>	Field: <u>Monument South</u>
Well Location: <u>Monument 22-20-9-16</u> <u>SE/NW Sec 20, T9S, R1E Duchesne County, Utah</u>	API No: <u>4301331681</u>

<u>Time</u>	<u>Casing Pressure</u>	
0 min	<u>1444</u>	psig
5	<u>1444</u>	psig
10	<u>1443</u>	psig
15	<u>1443</u>	psig
20	<u>1442</u>	psig
25	<u>1442</u>	psig
30 min	<u>1442</u>	psig
35		psig
40		psig
45		psig
50		psig
55		psig
60 min		psig

Tubing pressure: 0 psig

Result: Pass Fail

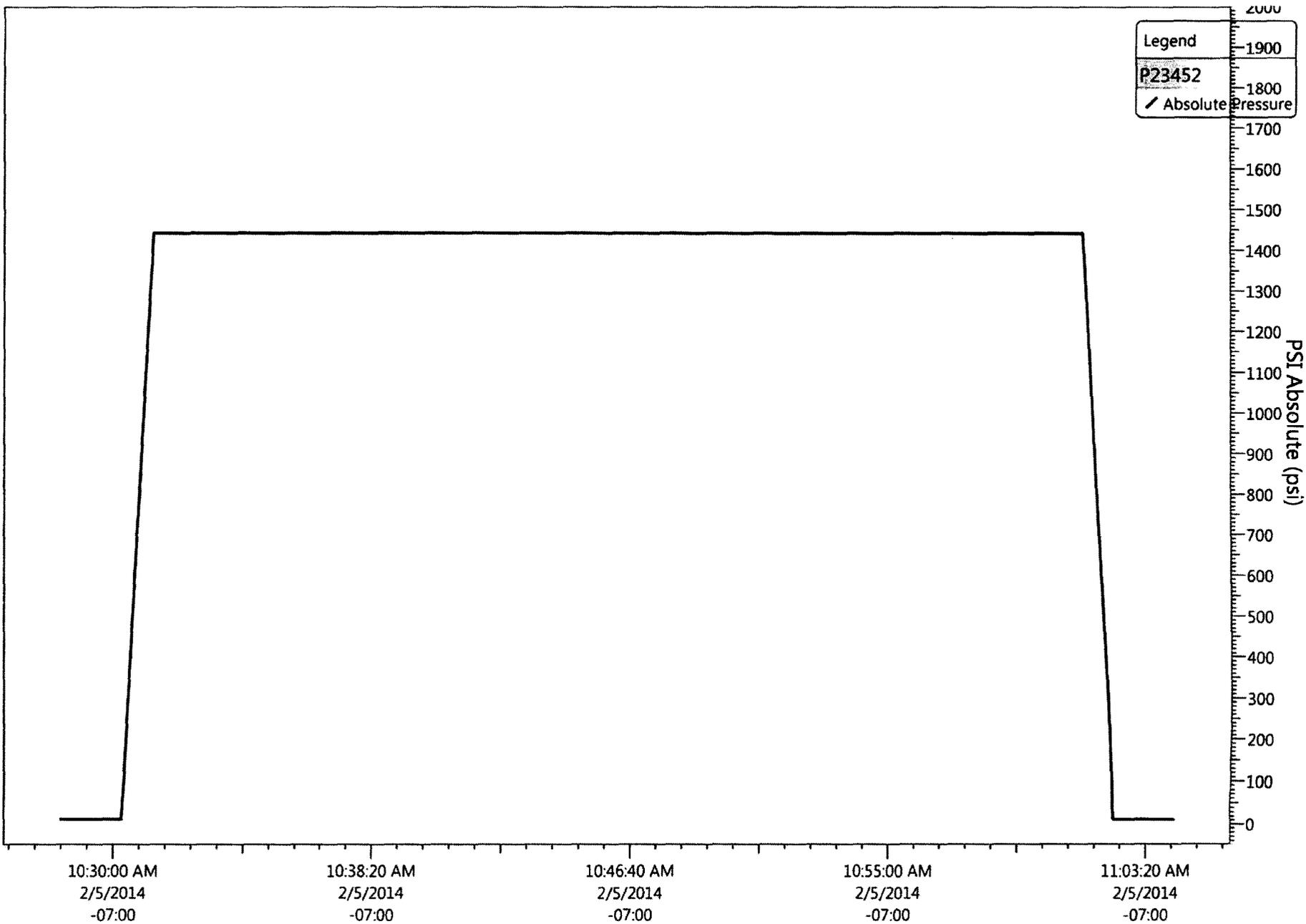
Signature of Witness: \_\_\_\_\_

Signature of Person Conducting Test: Rick Baskin

22-20-9-16 (mit 2/5/14)

2/5/2014 10:27:44 AM

Sundry Number : 48006 API Well Number : 43013316810000



## Daily Activity Report

Format For Sundry

MON 22-20-9-16

12/1/2013 To 4/28/2014

2/4/2014 Day: 4

Conversion

NC #1 on 2/4/2014 - PT CSG, RDSU. - Moved From 3-15-4-1w @ 3:00PM: MIRUSU, RDPU, Waiting On Tks & Wtr...SWIFN...5:30 to 6:00PM c/travl - Moved From 3-15-4-1w @ 3:00PM: MIRUSU, RDPU, Waiting On Tks & Wtr...SWIFN...5:30 to 6:00PM c/travl - Moved From 3-15-4-1w @ 3:00PM: MIRUSU, RDPU, Waiting On Tks & Wtr...SWIFN...5:30 to 6:00PM c/travl - Moved From 3-15-4-1w @ 3:00PM: MIRUSU, RDPU, Waiting On Tks & Wtr...SWIFN...5:30 to 6:00PM c/travl - 5:30 to 6:00AM c/travl: SICP 1150psi SITP 350psi, Bleed Down Csg Into Z-Tk 2.5hrs, BMW H/Oiler Pmped 60BW d/Csg @ 250psi, LD Polished Rod, US Rod Pmp, Flushed Rods w/ 40BW, Soft Seat Pmp, H/Oiler Pmped 35BW No Pressure, POOH & LD Rod String, 1- 22' Polished Rod, 20- 3/4"4per, 187- 3/4" Plain, 2- 1" Stabilizers, 4- Wt Bars, Rod Pmp (Scale Build Up On Screen), H/Oiler Flushed Rods w/ 30BW, XO For Tbg, ND WH, Release TAC, NU Weatherford BOP, RU Workfloor, PU 20- Jts Tagged Fill @ 5662', NO NEW FILL, LD Jts, SWIFWE...4:30 to 5:00PM c/travl - 5:30 to 6:00AM c/travl: SICP 1150psi SITP 350psi, Bleed Down Csg Into Z-Tk 2.5hrs, BMW H/Oiler Pmped 60BW d/Csg @ 250psi, LD Polished Rod, US Rod Pmp, Flushed Rods w/ 40BW, Soft Seat Pmp, H/Oiler Pmped 35BW No Pressure, POOH & LD Rod String, 1- 22' Polished Rod, 20- 3/4"4per, 187- 3/4" Plain, 2- 1" Stabilizers, 4- Wt Bars, Rod Pmp (Scale Build Up On Screen), H/Oiler Flushed Rods w/ 30BW, XO For Tbg, ND WH, Release TAC, NU Weatherford BOP, RU Workfloor, PU 20- Jts Tagged Fill @ 5662', NO NEW FILL, LD Jts, SWIFWE...4:30 to 5:00PM c/travl - 5:30 to 6:00AM c/travl: SICP 1150psi SITP 350psi, Bleed Down Csg Into Z-Tk 2.5hrs, BMW H/Oiler Pmped 60BW d/Csg @ 250psi, LD Polished Rod, US Rod Pmp, Flushed Rods w/ 40BW, Soft Seat Pmp, H/Oiler Pmped 35BW No Pressure, POOH & LD Rod String, 1- 22' Polished Rod, 20- 3/4"4per, 187- 3/4" Plain, 2- 1" Stabilizers, 4- Wt Bars, Rod Pmp (Scale Build Up On Screen), H/Oiler Flushed Rods w/ 30BW, XO For Tbg, ND WH, Release TAC, NU Weatherford BOP, RU Workfloor, PU 20- Jts Tagged Fill @ 5662', NO NEW FILL, LD Jts, SWIFWE...4:30 to 5:00PM c/travl - 5:30 to 6:00AM c/travl: SICP 1150psi SITP 350psi, Bleed Down Csg Into Z-Tk 2.5hrs, BMW H/Oiler Pmped 60BW d/Csg @ 250psi, LD Polished Rod, US Rod Pmp, Flushed Rods w/ 40BW, Soft Seat Pmp, H/Oiler Pmped 35BW No Pressure, POOH & LD Rod String, 1- 22' Polished Rod, 20- 3/4"4per, 187- 3/4" Plain, 2- 1" Stabilizers, 4- Wt Bars, Rod Pmp (Scale Build Up On Screen), H/Oiler Flushed Rods w/ 30BW, XO For Tbg, ND WH, Release TAC, NU Weatherford BOP, RU Workfloor, PU 20- Jts Tagged Fill @ 5662', NO NEW FILL, LD Jts, SWIFWE...4:30 to 5:00PM c/travl - 5:30 to 6:00AM c/travl: SICP 0psi SITP 0psi Both Sides On Vac, OWU, POOH w/ Tbg Breaking & Inspecting Each Collar, Applied Liquid O-Ring To Each Pin & Retorqued, Tallied Each Stnd Until Reached 4477' w/ 143- Jts, LD Remaining 27- Jts, Located Hole In Jt# 166, PU Weatherford Injection PKR Ass: RE-Guide, XN Profile Nipple, 2 3/8"x 4' Tbg Sub, XO, AS-1 PKR (dressed for 5 1/2" 15.5# Csg), X Seal Nipple, On/Off Tool, Seating Nipple, 143- Jts, RU & RIH w/ SL to Seat Stnd Valv, 3BW to Fill Tbg, MU Isolation T, PT Tbg to 3000psi, Observe Pressure, No Pressure Loss In 45Min, Retrieved Stnd Valv, RD Workfloor, ND BOP, MU WH, SWIFN...6:00 to 6:30PM - 5:30 to 6:00AM c/travl: SICP 0psi SITP 0psi Both Sides On Vac, OWU, POOH w/ Tbg Breaking & Inspecting Each Collar, Applied Liquid O-Ring To Each Pin & Retorqued, Tallied Each Stnd Until Reached 4477' w/ 143- Jts, LD Remaining 27- Jts, Located Hole In Jt# 166, PU Weatherford Injection PKR Ass: RE-Guide, XN Profile Nipple, 2 3/8"x 4' Tbg Sub, XO, AS-1 PKR (dressed for 5 1/2" 15.5# Csg), X Seal Nipple, On/Off Tool, Seating Nipple, 143- Jts, RU & RIH w/ SL to Seat Stnd Valv, 3BW to Fill Tbg, MU Isolation T, PT Tbg to 3000psi, Observe Pressure, No Pressure Loss In 45Min, Retrieved Stnd Valv, RD Workfloor, ND BOP, MU WH, SWIFN...6:00 to 6:30PM - 5:30 to 6:00AM c/travl: SICP 0psi SITP 0psi Both Sides On Vac, OWU, POOH w/ Tbg Breaking & Inspecting Each Collar, Applied Liquid O-Ring To Each Pin & Retorqued, Tallied Each Stnd Until Reached 4477' w/ 143- Jts, LD Remaining 27- Jts, Located Hole In Jt# 166, PU Weatherford Injection PKR Ass: RE-Guide, XN Profile

Nipple, 2 3/8"x 4' Tbg Sub, XO, AS-1 PKR (dressed for 5 1/2" 15.5# Csg), X Seal Nipple, On/Off Tool, Seating Nipple, 143- Jts, RU & RIH w/ SL to Seat Stnd Valv, 3BW to Fill Tbg, MU Isolation T, PT Tbg to 3000psi, Observe Pressure, No Pressure Loss In 45Min, Retrieved Stnd Valv, RD Workfloor, ND BOP, MU WH, SWIFN...6:00 to 6:30PM - 5:30 to 6:00AM c/travl: SICP Opsi SITP Opsi Both Sides On Vac, OWU, POOH w/ Tbg Breaking & Inspecting Each Collar, Applied Liquid O-Ring To Each Pin & Retorqued, Tallied Each Stnd Until Reached 4477' w/ 143- Jts, LD Remaining 27- Jts, Located Hole In Jt# 166, PU Weatherford Injection PKR Ass: RE-Guide, XN Profile Nipple, 2 3/8"x 4' Tbg Sub, XO, AS-1 PKR (dressed for 5 1/2" 15.5# Csg), X Seal Nipple, On/Off Tool, Seating Nipple, 143- Jts, RU & RIH w/ SL to Seat Stnd Valv, 3BW to Fill Tbg, MU Isolation T, PT Tbg to 3000psi, Observe Pressure, No Pressure Loss In 45Min, Retrieved Stnd Valv, RD Workfloor, ND BOP, MU WH, SWIFN...6:00 to 6:30PM - 5:30 to 6:00AM c/travl: SICP Opsi SITP Opsi Both Sides On Vac, OWU, BMW H/Oiler Pmped 60BW w/ PKR Fluids d/Csg, ND WH, MU 3K Injection Tree, Set AS-1 PKR CE @ 4493.6' w/ 1500# of Tension, NU IT, 3BW to Fill Annulus, PT Csg to 1500psi, Observ Pressure, NO PRESSURE LOSS IN 30Min, GOOD TEST!!, XO For Rods, RDMOSU. FINAL RIG REPORT...READY FOR MIT!!! - 5:30 to 6:00AM c/travl: SICP Opsi SITP Opsi Both Sides On Vac, OWU, BMW H/Oiler Pmped 60BW w/ PKR Fluids d/Csg, ND WH, MU 3K Injection Tree, Set AS-1 PKR CE @ 4493.6' w/ 1500# of Tension, NU IT, 3BW to Fill Annulus, PT Csg to 1500psi, Observ Pressure, NO PRESSURE LOSS IN 30Min, GOOD TEST!!, XO For Rods, RDMOSU. FINAL RIG REPORT...READY FOR MIT!!! - 5:30 to 6:00AM c/travl: SICP Opsi SITP Opsi Both Sides On Vac, OWU, BMW H/Oiler Pmped 60BW w/ PKR Fluids d/Csg, ND WH, MU 3K Injection Tree, Set AS-1 PKR CE @ 4493.6' w/ 1500# of Tension, NU IT, 3BW to Fill Annulus, PT Csg to 1500psi, Observ Pressure, NO PRESSURE LOSS IN 30Min, GOOD TEST!!, XO For Rods, RDMOSU. FINAL RIG REPORT...READY FOR MIT!!! - 5:30 to 6:00AM c/travl: SICP Opsi SITP Opsi Both Sides On Vac, OWU, BMW H/Oiler Pmped 60BW w/ PKR Fluids d/Csg, ND WH, MU 3K Injection Tree, Set AS-1 PKR CE @ 4493.6' w/ 1500# of Tension, NU IT, 3BW to Fill Annulus, PT Csg to 1500psi, Observ Pressure, NO PRESSURE LOSS IN 30Min, GOOD TEST!!, XO For Rods, RDMOSU. FINAL RIG REPORT...READY FOR MIT!!!

**Daily Cost:** \$0

**Cumulative Cost:** \$31,284

## 2/6/2014 Day: 5

## Conversion

Rigless on 2/6/2014 - Conduct initial MIT - On 02/04/2014 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 02/05/2014 the casing was pressured up to 1442 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not a State representative available to witness the test. **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$63,496

**Pertinent Files: Go to File List**

Put on Production: 09/11/1996  
 K.B.: 6107' G.L.: 6097'

# Monument Federal 22-20-9-16

Injection Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (253 07')  
 DEPTH LANDED: 263 07' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G"

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15 5#  
 LENGTH: (5696 5')  
 DEPTH LANDED: 5706.5'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 181 sks super "G", 3% salt, 2% gel, 2#/sk Kol-seal, 1/4#/sk Cello-flake, Tail w/ 400 sks 50/50 POZ, 2% gel, 1/4#/sk Cello-flake, 2#/sk Kol-seal  
 CEMENT TOP AT: 1110'

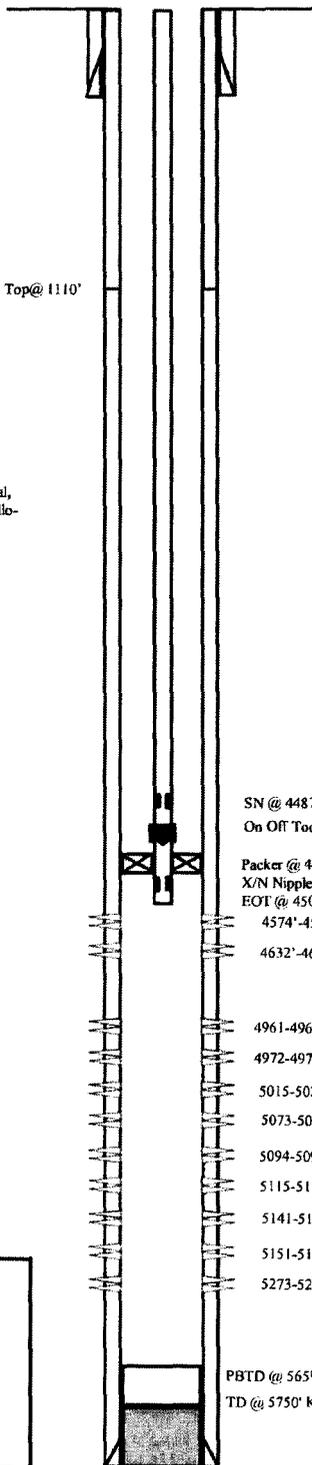
**TUBING**

SIZE/GRADE/WT: 2-7/8" / J-55 / 6 5#  
 NO. OF JOINTS: 143 jts (4477.4')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4487.4' KB  
 ON/OFF TOOL AT: 4488.5'  
 "X" SEAL NIPPLE 1.875" @ 4490'  
 ARROW #1 PACKER CE AT: 4493.62'  
 XO 2-3/8 x 2-7/8 J-55 AT: 4497.3'  
 TBG PUP 2-3/8 J-55 AT: 4497.8'  
 X/N NIPPLE AT: 4501.8'  
 TOTAL STRING LENGTH: EOT @ 4503.4'

**NEWFIELD**



**Monument Federal 22-20-9-16**  
 1980' FNL & 1980' FWL  
 SE/NW Section 20-T9S-R16E  
 Duchesne Co. Utah  
 API #43-013-31681; Lease #UTU-52018



**ACID JOB /BREAKDOWN**

8/20/96	5273'-5277'	BJ Services: 2058 gal 2% KCL water w/ 32 ball sealers Ball action but no ball off. ATP= 3000 psi, ATR= 3.5 bpm, ISP= 1920 psi.
8/22/96	4961'-4965' 4972'-4977'	BJ Services: 1808 gal 2% KCL water w/ 28 ball sealers Balled off. ATP= 2200 psi, ATR= 4.0 bpm, ISP= 1500 psi
8/22/96	5015'-5025'	BJ Services: 2100 gal 2% KCL water w/ 40 ball sealers Balled off. ATP= 2800 psi, ATR= 3.6 bpm, ISP= 1500 psi
8/22/96	5073'-5076' 5094'-5098' 5115'-5119'	BJ Services: 2394 gal 2% KCL water w/ 44 ball sealers Balled off. ATP= 2500 psi, ATR= 4.0 bpm, ISP= 1300 psi
8/22/96	5141'-5148' 5151'-5153'	BJ Services: 2436 gal 2% KCL w water w/ 36 ball sealers. Balled off. ATP= 3600 psi, ATR= 3.4 bpm, ISP= 2100 psi
8/29/96	4574'-4576'	BJ Services: 1554 gal 2% KCL water w/ 8 ball sealers. Balled off. ATP= 2700 psi, ATR= 4.2 bpm, ISP= 1550 psi
8/29/96	4632'-4638'	BJ Services: 1722 gal 2% KCL water w/ 20 ball sealers Ball action but no ball off. ATP= 3000 psi, ATR= 3.6 bpm, ISP= 1400 psi

**FRAC JOB**

8/21/96	5273'-5277'	BJ Services: 11,214 gal 2% KCL water w/ 5700# 20/40 sand & 10,000# 16/30 sand. ATP= 3500 psi, ATR= 19.8 bpm, ISIP= 2430 psi, 5 min= 2150 psi, 10 min= 2090 psi, 15 min= 2020 psi, 30 min= 1910 psi.
8/23/96	4961'-5153'	BJ Services: 52,626 gal 2% KCL water w/ 52,200# 20/40 sand & 119,780# 16/30 sand. ATP= 2800 psi, ATR= 55.8 bpm, ISIP= 2110 psi, 5 min= 1756 psi, 10 min= 1630 psi, 15 min= 1560 psi, 30 min= 1450 psi.
8/30/96	4574'-4576' 4632'-4638'	BJ Services: 13,398 gal 2% KCL water w/ 36,400# 16/30 sand. ATP= 3500 psi, ATR= 29.8 bpm, ISIP= 1870 psi, 5 min= 1600 psi, 10 min= 1430 psi, 15 min= 1330 psi, 30 min= 1090 psi.

02/04/14 Convert to Injection Well  
 02/05/14 Conversion MIT Finalized - update tbg detail

**PERFORATION RECORD**

8/20/96	Schlumberger	5273'-5277'	4 SPF
8/22/96	Schlumberger	4961'-4965' 4972'-4977' 5015'-5025' 5073'-5076' 5094'-5098' 5115'-5119' 5141'-5148' 5151'-5153'	2 SPF 2 SPF 2 SPF 2 SPF 2 SPF 2 SPF 2 SPF 2 SPF
8/29/96	Schlumberger	4574'-4576' 4632'-4638'	4 Holes 10 Holes

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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-52018
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: MON FED 22-20-9-16
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1980 FNL 1980 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 20 Township: 09.0S Range: 16.0E Meridian: S	9. API NUMBER: 43013316810000
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052	PHONE NUMBER: 435 646-4825 Ext
9. FIELD and POOL or WILDCAT: MONUMENT BUTTE	COUNTY: DUCHESNE
STATE: UTAH	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: 9/14/2015	<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 09/14/2015. Results from the test indicate that the fracture gradient is 0.769 psi/ft. Therefore, Newfield is requesting that the maximum allowable injection pressure (MAIP) be changed from 1267 psi to 1505 psi.

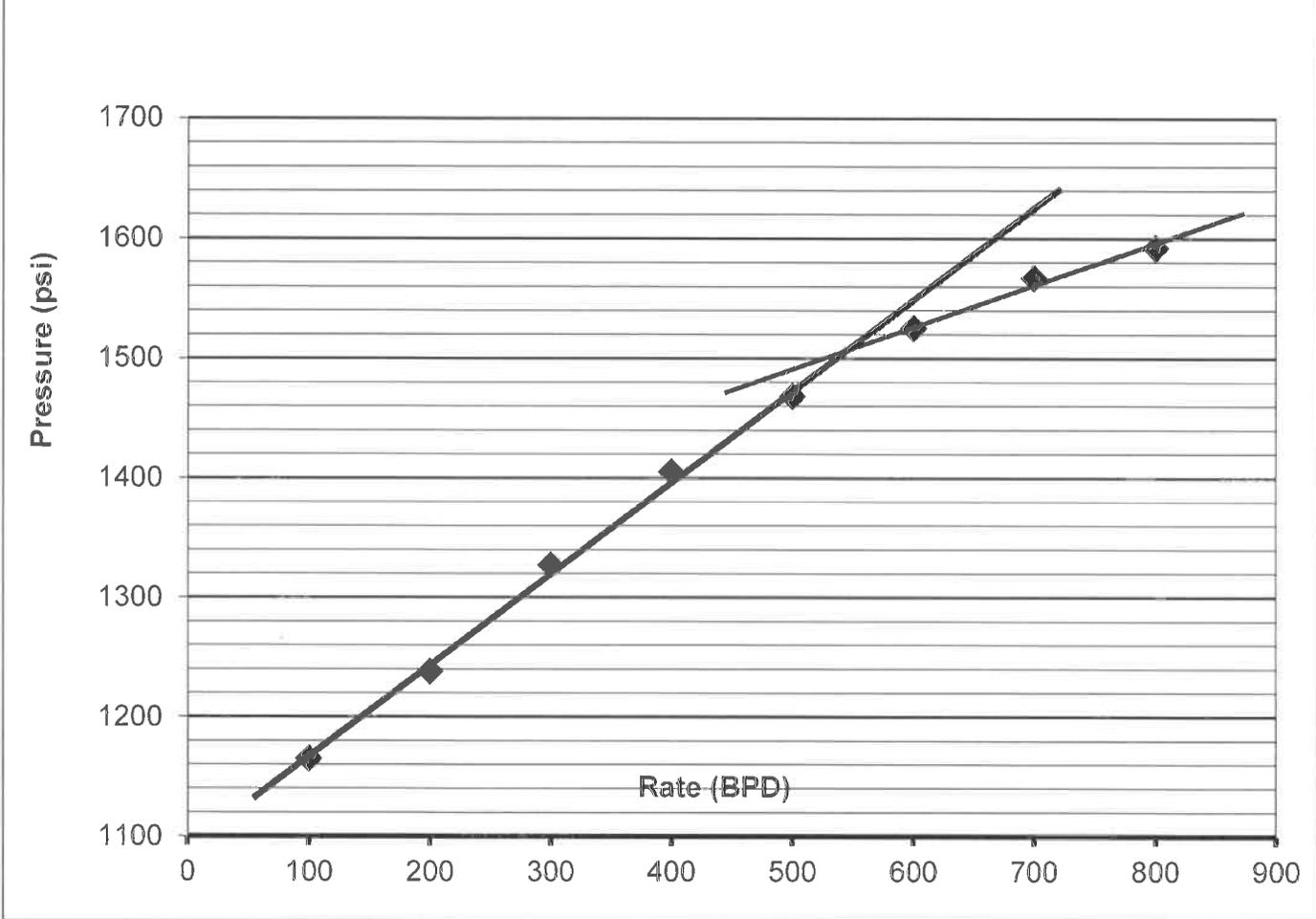
**Accepted by the  
Utah Division of  
Oil, Gas and Mining**

Date: ~~September 16, 2015~~

By:

NAME (PLEASE PRINT) Lucy Chavez-Naupoto	PHONE NUMBER 435 646-4874	TITLE Water Services Technician
SIGNATURE N/A	DATE 9/16/2015	

Monument Federal 22-20-9-16  
 Greater Monument Butte Unit  
 Step Rate Test  
 September 14, 2015



Start Pressure:	1117 psi	<u>Step</u>	<u>Rate(bpd)</u>	<u>Pressure(psi)</u>
Instantaneous Shut In Pressure (ISIP):	1555 psi	1	100	1165
Top Perforation:	4574 feet	2	200	1238
Fracture pressure (Pfp):	1505 psi	3	300	1327
FG:	0.769 psi/ft	4	400	1405
		5	500	1468
		6	600	1525
		7	700	1567
		8	800	1592

## Monument Federal 22-20-9-16 SRT Data (9-14-15)

9/15/2015 1:57:03 PM

<u>Date</u>	<u>Time</u>	<u>Time Zone</u>	<u>P23429 Absolute Pressure (psi)</u>	<u>Date</u>	<u>Time</u>	<u>Time Zone</u>	<u>P23429 Absolute Pressure (psi)</u>
9/14/2015	8:50:31 AM	-06:00	1112.8	9/14/2015	12:40:31 PM	-06:00	1552.8
9/14/2015	8:55:31 AM	-06:00	1114.2	9/14/2015	12:45:31 PM	-06:00	1560.6
9/14/2015	9:00:31 AM	-06:00	1114.0	9/14/2015	12:50:31 PM	-06:00	1567.0
9/14/2015	9:05:31 AM	-06:00	1115.0	9/14/2015	12:55:31 PM	-06:00	1580.4
9/14/2015	9:10:31 AM	-06:00	1115.0	9/14/2015	1:00:31 PM	-06:00	1575.2
9/14/2015	9:15:31 AM	-06:00	1115.4	9/14/2015	1:05:31 PM	-06:00	1590.0
9/14/2015	9:20:31 AM	-06:00	1117.4	9/14/2015	1:10:31 PM	-06:00	1591.4
9/14/2015	9:25:31 AM	-06:00	1128.0	9/14/2015	1:15:31 PM	-06:00	1591.4
9/14/2015	9:30:31 AM	-06:00	1141.0	9/14/2015	1:20:31 PM	-06:00	1592.0
9/14/2015	9:35:31 AM	-06:00	1148.8				
9/14/2015	9:40:31 AM	-06:00	1153.8				
9/14/2015	9:45:31 AM	-06:00	1159.2				
9/14/2015	9:50:31 AM	-06:00	1164.8				
9/14/2015	9:55:31 AM	-06:00	1191.2				
9/14/2015	10:00:31 AM	-06:00	1203.6				
9/14/2015	10:05:31 AM	-06:00	1213.6				
9/14/2015	10:10:31 AM	-06:00	1222.2				
9/14/2015	10:15:31 AM	-06:00	1230.0				
9/14/2015	10:20:31 AM	-06:00	1237.8				
9/14/2015	10:25:31 AM	-06:00	1267.6				
9/14/2015	10:30:31 AM	-06:00	1283.4				
9/14/2015	10:35:31 AM	-06:00	1295.8				
9/14/2015	10:40:31 AM	-06:00	1306.8				
9/14/2015	10:45:31 AM	-06:00	1316.0				
9/14/2015	10:50:31 AM	-06:00	1327.0				
9/14/2015	10:55:31 AM	-06:00	1353.4				
9/14/2015	11:00:31 AM	-06:00	1366.6				
9/14/2015	11:05:31 AM	-06:00	1378.0				
9/14/2015	11:10:31 AM	-06:00	1386.4				
9/14/2015	11:15:31 AM	-06:00	1398.2				
9/14/2015	11:20:31 AM	-06:00	1405.0				
9/14/2015	11:25:31 AM	-06:00	1426.6				
9/14/2015	11:30:31 AM	-06:00	1438.6				
9/14/2015	11:35:31 AM	-06:00	1443.0				
9/14/2015	11:40:31 AM	-06:00	1449.6				
9/14/2015	11:45:31 AM	-06:00	1461.0				
9/14/2015	11:50:31 AM	-06:00	1467.8				
9/14/2015	11:55:31 AM	-06:00	1484.6				
9/14/2015	12:00:31 PM	-06:00	1496.4				
9/14/2015	12:05:31 PM	-06:00	1504.4				
9/14/2015	12:10:31 PM	-06:00	1514.2				
9/14/2015	12:15:31 PM	-06:00	1519.6				
9/14/2015	12:20:31 PM	-06:00	1525.0				
9/14/2015	12:25:31 PM	-06:00	1542.6				
9/14/2015	12:30:31 PM	-06:00	1548.8				
9/14/2015	12:35:31 PM	-06:00	1552.2				

## Monument Federal 22-20-9-16 ISIP Data (9-14-15)

9/15/2015 1:54:57 PM

Date	Time	Time Zone	P23429 Absolute Pressure (psi)
9/14/2015	1:21:08 PM	-06:00	1594.6
9/14/2015	1:22:08 PM	-06:00	1555.2
9/14/2015	1:23:08 PM	-06:00	1546.0
9/14/2015	1:24:08 PM	-06:00	1538.4
9/14/2015	1:25:08 PM	-06:00	1532.8
9/14/2015	1:26:08 PM	-06:00	1528.2
9/14/2015	1:27:08 PM	-06:00	1524.2
9/14/2015	1:28:08 PM	-06:00	1520.6
9/14/2015	1:29:08 PM	-06:00	1517.8
9/14/2015	1:30:08 PM	-06:00	1514.6
9/14/2015	1:31:08 PM	-06:00	1512.4
9/14/2015	1:32:08 PM	-06:00	1509.4
9/14/2015	1:33:08 PM	-06:00	1506.6
9/14/2015	1:34:08 PM	-06:00	1504.2
9/14/2015	1:35:08 PM	-06:00	1502.4
9/14/2015	1:36:08 PM	-06:00	1500.2
9/14/2015	1:37:08 PM	-06:00	1498.0
9/14/2015	1:38:08 PM	-06:00	1496.2
9/14/2015	1:39:08 PM	-06:00	1494.2
9/14/2015	1:40:09 PM	-06:00	1492.2
9/14/2015	1:41:09 PM	-06:00	1490.2
9/14/2015	1:42:09 PM	-06:00	1488.8
9/14/2015	1:43:09 PM	-06:00	1487.0
9/14/2015	1:44:09 PM	-06:00	1485.6
9/14/2015	1:45:09 PM	-06:00	1484.0
9/14/2015	1:46:09 PM	-06:00	1482.4
9/14/2015	1:47:09 PM	-06:00	1480.6
9/14/2015	1:48:09 PM	-06:00	1479.6
9/14/2015	1:49:09 PM	-06:00	1478.0
9/14/2015	1:50:09 PM	-06:00	1477.0
9/14/2015	1:51:09 PM	-06:00	1475.6

Monument Federal 22-20-9-16 SRT & ISIP (9-14-15)

9/15/2015 1:58:00 PM

