

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial Number: See attached listing
6. If Indian, Allottee or Tribe Name: n/a
7. Unit Agreement Name: See attached listing
8. Well Name and Number: See attached listing
9. API Well Number: See attached listing
10. Field and Pool, or Wildcat: See attached listing

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

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

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

4. Location of Well  
Footages: See attached listing  
OO, Sec., T., R., M.:

County: See attached list  
State: UTAH

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

**NOTICE OF INTENT**  
(Submit in Duplicate)

Abandon  
 Repair Casing  
 Change of Plans  
 Convert to Injection  
 Fracture Treat or Acidize  
 Multiple Completion  
 Other \_\_\_\_\_

New Construction  
 Pull or Alter Casing  
 Recomplete  
 Reperforate  
 Vent or Flare  
 Water Shut-Off

Approximate date work will start \_\_\_\_\_

**SUBSEQUENT REPORT**  
(Submit Original Form Only)

Abandon \*  
 Repair Casing  
 Change of Plans  
 Convert to Injection  
 Fracture Treat or Acidize  
 Other Operator name change

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

Date of work completion \_\_\_\_\_

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.  
\* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Effective April 1, 1996, operator will change its name from Equitable Resources Energy Company, Balcron Oil Division TO: Equitable Resources Energy Company. Physical location of the operator remains as: 1601 Lewis Avenue; Billings, MT 59102 (406) 259-7860, FAX: (406) 145-1361. This is to report the operator name change only. It affects the wells on the attached listing.

APR 1 1996

13. Name & Signature: Bobbie Schuman Title: Regulatory and Environmental Specialist Date: March 27, 1996  
Bobbie Schuman

(This space for State use only)

UTAH

Getty #7-C	Monument Butte	NE NW	7	9S	17E	Duchesne	UT	Oil	Green River	U-44426	43-013-30961	1129' FNL, 2229' FWL	Vernal	Jonah
Goates Federal #1	Monument Butte	SE SW	11	9S	16E	Duchesne	UT	Oil	Green River	U-096547	43-013-15789	793' FSL, 2088' FWL	Vernal	Jonah
Goates Federal #3	Monument Butte	NW NW	14	9S	16E	Duchesne	UT	Oil	Green River	U-096547	43-013-15791	790' FNL, 790' FWL	Vernal	Jonah
Hendel Federal #1	Pariette Bench	SW SW	9	9S	19E	Uintah	UT	Oil	Green River	U-058149	43-047-20011	560' FSL, 500' FWL	Vernal	
Hendel Federal #1-17	Pariette Bench	NE NW	17	9S	19E	Uintah	UT	Oil	Green River	U-017991	43-047-30059	660' FNL, 1979' FWL	Vernal	
Hendel Federal #3-17	Pariette Bench	SW NW	17	9S	19E	Uintah	UT	OSI	Green River	U-017991	43-047-30074	1980' FNL, 660' FWL	Vernal	
K. Jorgenson State #16-4	Monument Butte	NE SE	16	9S	17E	Duchesne	UT	OSI	Green River	State ML-3453-B	43-013-30572	1984' FSL, 660' FEL		
Maxus Federal #23-8	Monument Butte	NE SW	8	9S	17E	Duchesne	UT	Oil	Green River	UTU-74108	43-013-31196	1847' FSL, 1947' FWL	Vernal	Beluga
Mocon Federal #44-7	Monument Butte	SE SE	7	9S	17E	Duchesne	UT	Oil	Green River	U-3563-A	43-013-30666	670' FSL, 663' FEL	Vernal	Beluga
Monument Butte #1-13	Monument Butte	NW SW	1	9S	16E	Duchesne	UT	WIW	Green River	U-18399	43-013-30702	1820' FSL, 685' FWL	Vernal	Jonah
Monument Butte #1-14	Monument Butte	SW SW	1	9S	16E	Duchesne	UT	Oil	Green River	U-18399	43-013-30703	820' FSL, 820' FWL	Vernal	Jonah
Monument Butte #1-23	Monument Butte	NE SW	1	9S	16E	Duchesne	UT	Oil	Green River	U-18399	43-013-30646	1980' FSL, 1980' FWL	Vernal	Jonah
Monument Butte #1-24	Monument Butte	SE SW	1	9S	16E	Duchesne	UT	WIW	Green River	U-18399	43-013-30701	820' FSL, 1950' FWL	Vernal	Jonah
Monument Butte #1-33	Monument Butte	NW SE	1	9S	16E	Duchesne	UT	WIW	Green River	U-52013	43-013-30735	1980' FSL, 1980' FEL	Vernal	Jonah
Monument Butte #1-34	Monument Butte	SW SE	1	9S	16E	Duchesne	UT	Oil	Green River	U-52013	43-013-30736	710' FSL, 1980' FEL	Vernal	Jonah
Monument Butte #1-43	Monument Butte	NE SE	1	9S	16E	Duchesne	UT	Oil	Green River	U-52013	43-013-30734	1980' FSL, 660' FEL	Vernal	Jonah
Monument Federal #11-11-9-17Y	Monument Butte	NW NW	11	9S	17E	Duchesne	UT	PND	Green River	U-65210		656' FNL, 741' FWL	Vernal	
Monument Federal #11-22-9-16Y	Monument Butte	NW NW	22	9S	16E	Duchesne	UT	PND	Green River	U-64379			Vernal	
Monument Federal #12-11-9-17Y	Monument Butte	SW NW	11	9S	17E	Duchesne	UT	PND	Green River	U-65210			Vernal	
Monument Federal #13-22-9-17Y	Monument Butte	NW SW	22	8S	17E	Duchesne	UT	PND	Green River	U-67845		1446' FSL, 863' FWL	Vernal (Private sfc)	
Monument Federal #14-21-9-18Y	8 Mile Flat	SW SW	21	9S	18E	Uintah	UT	PND	Green River	U-68105		700' FSL, 550' FWL	Vernal	
Monument Federal #14-22-9-17	Monument Butte	SW SW	22	8S	17E	Duchesne	UT	PND	Green River	U-67845			Vernal	
Monument Federal #21-23-9-17Y	Monument Butte	NE NW	23	9S	17E	Uintah	UT	PND	Green River	U-68102		773' FNL, 1809' FWL	Vernal	
Monument Federal #22-20-9-16	Monument Butte	SE NW	20	9S	16E	Duchesne	UT	PND	Green River	U-52018				
Monument Federal #23-17-9-17B	Monument Butte	NE SW	17	9S	17E	Duchesne	UT	PND	Green River	UTU-74108		2217' FSL, 2187' FWL	Vernal	Beluga
Monument Federal #23-22-9-17Y	Monument Butte	NE SW	22	8S	17E	Duchesne	UT	PND	Green River	U-67845			Vernal (Private sfc.)	
Monument Federal #24-17-9-16	Monument Butte	SE SW	17	9S	16E	Duchesne	UT	PND	Green River	U-52018			Vernal	
Monument Federal #31-5-9-17	Monument Butte	NW NE	5	9S	17E	Duchesne	UT	PND	Green River	U-74808				
Monument Federal #31-10-9-17Y	Monument Butte	NW NE	10	9S	17E	Duchesne	UT	PND	Green River	U-65210		660' FNL, 1980' FEL	Vernal	
Monument Federal #31-22-8-17	Monument Butte	NW NE	22	8S	17E	Duchesne	UT	PND	Green River	U-67845		1036' FNL, 2338' FEL	Vernal (Private sfc.)	
Monument Federal #32-10-9-17Y	Monument Butte	SW NE	10	9S	17E	Duchesne	UT	PND	Green River	U-65210		1900' FNL, 1980' FEL	Vernal	
Monument Federal #32-20-9-18Y	8 Mile Flat	SW NE	20	9S	18E	Uintah	UT	PND	Green River	U-64917		1980' FNL, 1980' FEL	Vernal	
Monument Federal #33-6-9-16Y	Monument Butte	NW SE	6	9S	16E	Duchesne	UT	PND	Green River	U-74390		1850' FSL, 1850' FEL	Vernal	
Monument Federal #32-22-8-17	Monument Butte	SW NE	22	8S	17E	Duchesne	UT	PND	Green River	U-67845		1980' FNL, 1980' FEL	Vernal (Private sfc.)	
Monument Federal #33-17-9-17B	Monument Butte	NW SE	17	9S	17E	Duchesne	UT	PND	Green River	U-72106		1926' FSL, 2000' FEL	Vernal	Beluga

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

Routing:	
1	LEP 7-SJ
2	DES 58-FILE
3	VLD (GIL)
4	RJE
5	IVC
6	FIM

Attach all documentation received by the division regarding this change.  
 Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (well sold)                       Designation of Agent  
 Designation of Operator                      ~~Operator Name Change Only~~

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 4-1-96 )

TO (new operator)	<u>EQUITABLE RESOURCES ENERGY COEROM</u> (former operator)	<u>EQUITABLE RESOURCES ENERGY CO</u>
(address)	<u>1601 LEWIS AVE</u>	(address) <u>BALCRON OIL DIVISION</u>
	<u>BILLINGS MT 59102-4126</u>	<u>1601 LEWIS AVE</u>
	phone <u>(406) 259-7860</u>	phone <u>(406) 259-7860</u>
	account no. <u>N9890</u>	account no. <u>N9890</u>

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

Name: <b>**SEE ATTACHED**</b>	API: <u>43-013-31647</u>	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

**OPERATOR CHANGE DOCUMENTATION**

- Yes 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *Rec'd 4-4-96 & 4-8-96*
- N/A 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) \_\_\_\_\_ If yes, show company file number: \_\_\_\_\_.
- \* 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- Yes 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) ~~for each well listed above.~~ *(4-10-96)*
- Yes 6. Cardex file has been updated for each well listed above. *(4-11-96)*
- Yes 7. Well file labels have been updated for each well listed above. *(4-11-96)*
- Yes 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. *(4-10-96)*
- Yes 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- Yes 1. (Rule R615-8-7) 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. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only) # 5578314 (\$80,000) Schwa Ins. Co. (Bond Rider In Progress)

- Yes 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- 2. A copy of this form has been placed in the new and former operators' bond files.
- N/A 3. The former operator has requested a release of liability from their bond (yes/no)   . Today's date    19  . If yes, division response was made by letter dated    19  .

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated    19  , of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested. 4/26/96
- DTS 2. Copies of documents have been sent to State Lands for changes involving State leases. Sent to Ed Bonner - Trust Lands

FILMING

- YB 1. All attachments to this form have been microfilmed. Date: 11-10 1997.

FILING

- 1. Copies of all attachments to this form have been filed in each well file.
- 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

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



**EQUITABLE RESOURCES  
ENERGY COMPANY**

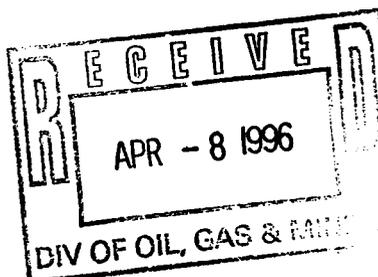
**BALCRON OIL DIVISION**

1601 Lewis Avenue  
Billings, MT 59102

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

March 22, 1996

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



Gentlemen:

Effective April 1, 1996, our name will change from Equitable Resources Energy Company, Balcron Oil Division to Equitable Resources Energy Company. Attached is a sundry notice reflecting that change. To simplify paperwork, I have done one sundry notice with copies for each of the wells. To this letter I have attached a list of our wells for your ease in filing the sundry notices in the well files. This should be sufficient for your purposes.

I have the listings on a spreadsheet so if it would be easier for you to have them sorted differently (for example, the Montana Board of Oil and Gas prefers them sorted by API number), please give me a call at (406) 259-7860, extension 240 and I would be glad to provide a list to your specifications.

This change affects only our company name. The physical locations of our offices and the personnel remain the same. We will be changing our well signs and ask for your patience and cooperation as this will be done as soon as possible but may take some time since we do have so many properties at which to make the change.

If you have any questions, please do not hesitate to give me a call.

Sincerely,

*Bobbie Schuman*  
Bobbie Schuman  
Regulatory and  
Environmental Specialist

/hs

Enclosures

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**CONFIDENTIAL**

5. LEASE DESIGNATION AND SERIAL NO.  
U-64379

**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: NW NW 22-T9S-R16E  
 At proposed prod. zone: 957' FNL, 832' FWL

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

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

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

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

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				

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.  
#11-22-9-16Y

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

11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA

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

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED TO THIS WELL

19. PROPOSED DEPTH

20. ROTARY OR CABLE TOOLS  
Rotary

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

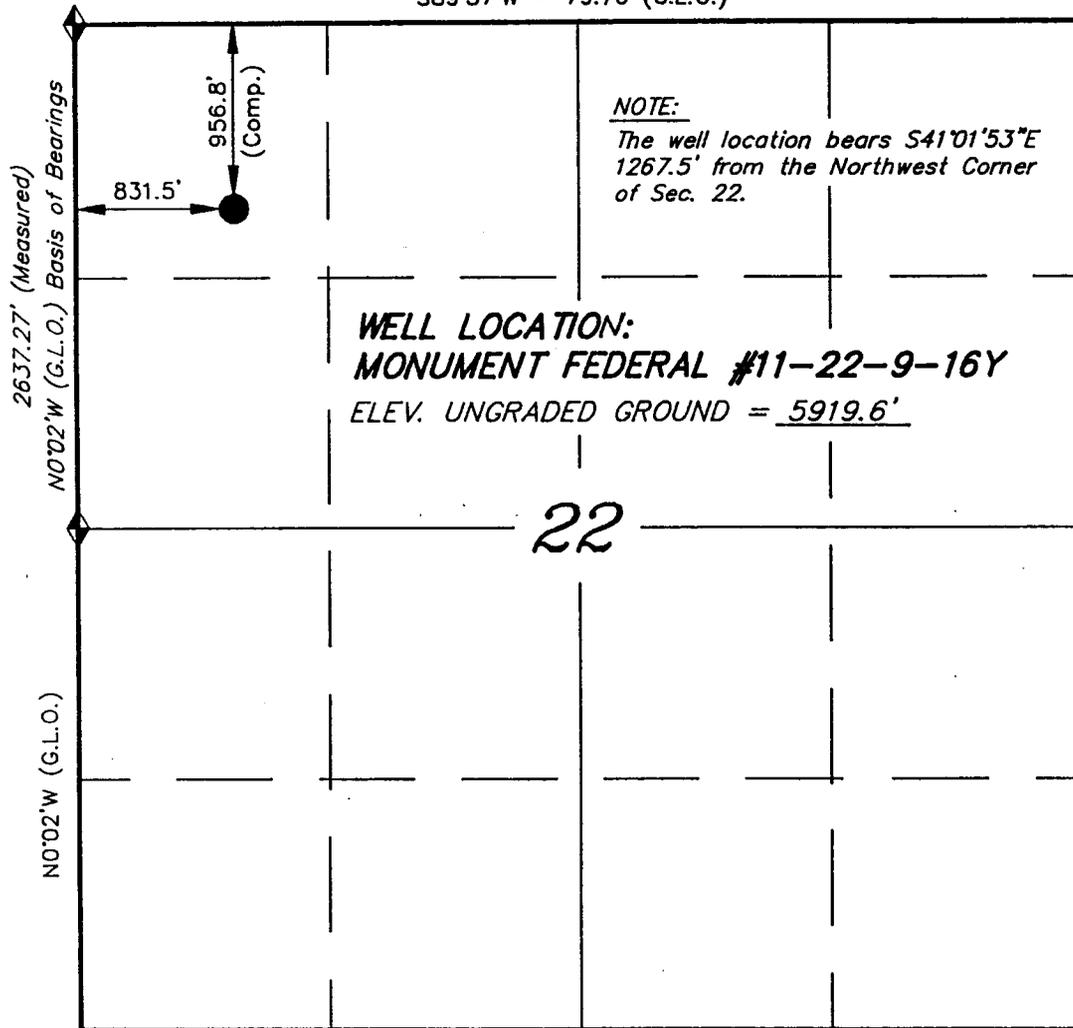
24. SIGNED Bobbie Schuman TITLE Regulatory and Environmental Specialist DATE April 17, 1996  
 (This space for Federal or State office use)

PERMIT NO. 43-013-31647 APPROVAL DATE  
 APPROVED BY JR Matthews TITLE Professional Engineer DATE 7/25/96  
 CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

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

S89°57'W - 79.76 (G.L.O.)



**NOTE:**

The well location bears S41°01'53"E 1267.5' from the Northwest Corner of Sec. 22.

**WELL LOCATION:**  
**MONUMENT FEDERAL #11-22-9-16Y**  
 ELEV. UNGRADED GROUND = 5919.6'

22

NO°01'W (G.L.O.)

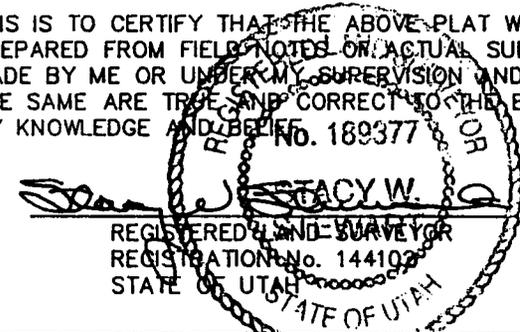
S89°58'W - 79.82 (G.L.O.)

**EQUITABLE RESOURCES ENERGY CO.**

WELL LOCATION, MONUMENT FEDERAL #11-22-9-16Y, LOCATED AS SHOWN IN THE NW 1/4 NW 1/4 OF SECTION 22, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES ON 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.



**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 SE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**CONFIDENTIAL**

5. LEASE DESIGNATION AND SERIAL NO.  
U-64379

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: NW NW 22-T9S-R16E  
 At proposed prod. zone: <sup>291</sup>957' FNL, <sup>253</sup>832' FWL

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

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED TO THIS WELL

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

19. PROPOSED DEPTH

20. ROTARY OR CABLE TOOLS  
 Rotary

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

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

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.  
 #11-22-9-16Y

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

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

12. COUNTY OR PARISH  
 Duchesne

13. STATE  
 UTAH

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 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. 43-93-31647 APPROVAL DATE 7/25/96

APPROVED BY [Signature] TITLE Petroleum Engineer

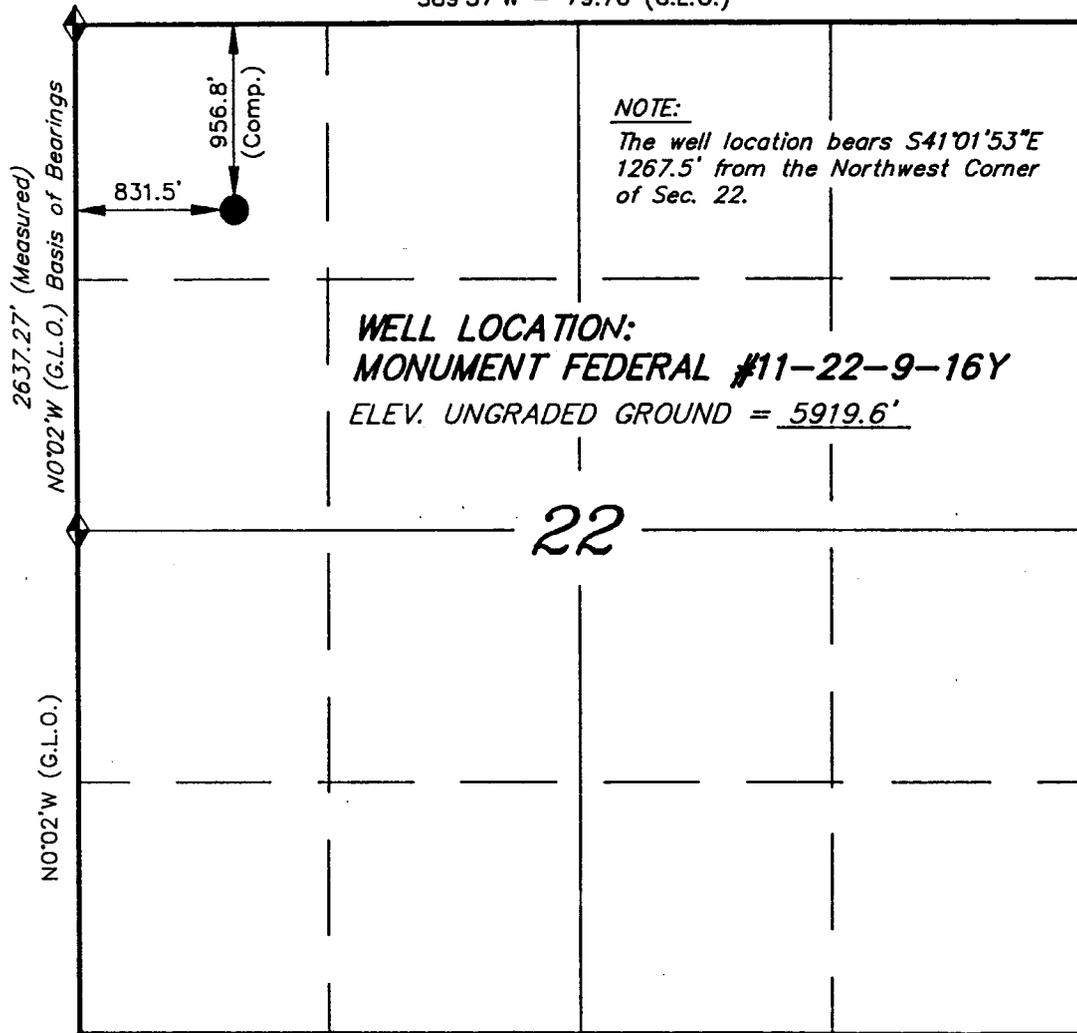
CONDITIONS OF APPROVAL, IF ANY:

DIV. OF OIL, GAS & MINING

\*See Instructions On Reverse Side

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

S89°57'W - 79.76 (G.L.O.)



**NOTE:**

The well location bears S41°01'53"E  
1267.5' from the Northwest Corner  
of Sec. 22.

**WELL LOCATION:**  
**MONUMENT FEDERAL #11-22-9-16Y**  
ELEV. UNGRADED GROUND = 5919.6'

**22**

N0°01'W (G.L.O.)

S89°58'W - 79.82 (G.L.O.)

◆ = SECTION CORNERS LOCATED

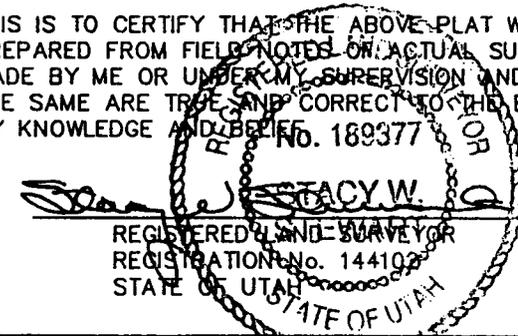
BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (MYTON SE)

**EQUITABLE RESOURCES ENERGY CO.**

WELL LOCATION, MONUMENT FEDERAL  
#11-22-9-16Y, LOCATED AS SHOWN IN THE  
NW 1/4 NW 1/4 OF SECTION 22, T9S,  
R16E, S.L.B.&M. DUCHESNE COUNTY,  
UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS  
PREPARED FROM FIELD NOTES ON 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. 189377



**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 #

## 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

# **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

**PROPOSED DRILLING PROGRAM**

EQUITABLE RESOURCES ENERGY COMPANY

Monument Federal #11-22-9-16Y

NW NW Section 22, 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 #11-22-9-16  
NW NW SECTION 22, 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 #11-22-9-16 is located 10 miles Southwest of Myton Utah in the NW1/4 NW1/4 Section 22, T9S, R16E, SLB&M, Duchesne County, Utah. To reach the 11-22-9-16, 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 10.1 miles to a road intersection, turn right and continue 7.7 miles to road intersection. Turn left and proceed 1.6 miles to the proposed access road sign. Follow flags 0.4 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 0.4 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 South near corner #6. Corners #2, #4 and #6 will be rounded to avoid excessive cuts and fills.
- 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.





## Well Prognosis

<b>Well Name</b> Monument Federal #12-11-9-17Y				<b>Control Well</b>			
<b>Location</b> SW/NW Section 11-T9S-R17E (1996 FNL, 660 FWL)				<b>Operator</b> EREC			
<b>County/State</b> Duchesne County, Utah				<b>Well Name</b> Federal 11-11-9-17Y			
<b>Field</b> Monument Butte		<b>Well Type</b> Dev.		<b>Location</b> SW/NW Section 11-T9S-R17E			
<b>GL (Ung)</b> 5077	<b>EST. KB</b> 5086	<b>Total Depth</b> 5600	<b>KB</b> 5087				

Formation	Prognosis		Sample Top		Control Well Datum	High/Low		
	Depth	Datum	Depth	Datum		Prog	Control	Deviation
UINTA	surface							
GREEN RIVER	1319	3767			3717			
HORSEBENCH SS	2156	2930			2880			
2ND GARDEN GULCH	3735	1351			1301			
Y-3 (PAY)	4071	1015			965			
Y-4 (PAY)	4199	887			837			
YELLOW MARKER	4346	740			690			
Y-6 (PAY)	4415	671			621			
DOUGLAS CREEK	4508	578			528			
R-5 (PAY)	4571	515			465			
2ND DOUGLAS CREEK	4750	336			286			
GREEN MARKER	4890	196			146			
BLACK SHALE FACIES	5223	-137			-187			
CARBONATE MARKER	5330	-244			-294			
B-2 (PAY)	5430	-344			-394			
TD	5600							

**Samples**

50' FROM 1200' TO 3800'

20' FROM 3800' 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 3800' TO TD

**Cores**

Core #1

Core #2

Core #3

Core #4

**Mud Logger**

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

From: 1200 \_\_\_\_\_ To: TD \_\_\_\_\_

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

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

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

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

**Comments:**

<b>Report To:</b>	1st Name: <u>DAVE BICKERSTAFF</u>	Phone # <u>(406)259-7860</u>	wk. <u>(406)245-2261</u>	hm. _____
	2nd Name: <u>KEVEN REINSCHMIDT</u>	Phone # <u>(406)259-7860</u>	wk. <u>(406)248-7026</u>	hm. _____
<b>Prepared By:</b>	<u>DAVE BICKERSTAFF</u>	Phone # _____	wk. _____	hm. _____





**EQUITABLE RESOURCES  
ENERGY COMPANY  
WESTERN REGION**

D  
2.82

**DRILLING PROGRAM**

WELL NAME: Monument Federal #11-22-9-16Y  
 PROSPECT/FIELD: Monument Butte  
 LOCATION: NW/NW Section 22 Twn.9S Rge.16E  
 COUNTY: Duchesne  
 STATE: Utah

DATE: 4-26-96

TOTAL DEPTH: 5700'

**HOLE SIZE INTERVAL**

12 1/4" Surface to 260'  
 7 7/8" 260' to 5700'

CASING	INTERVAL		CASING		
	FROM	TO	SIZE	WEIGHT	GRADE
Surface Casing	0'	260'	8 5/8"	24	J55
Production Casing	0'	5700'	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.	YIELD
				VIS	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.

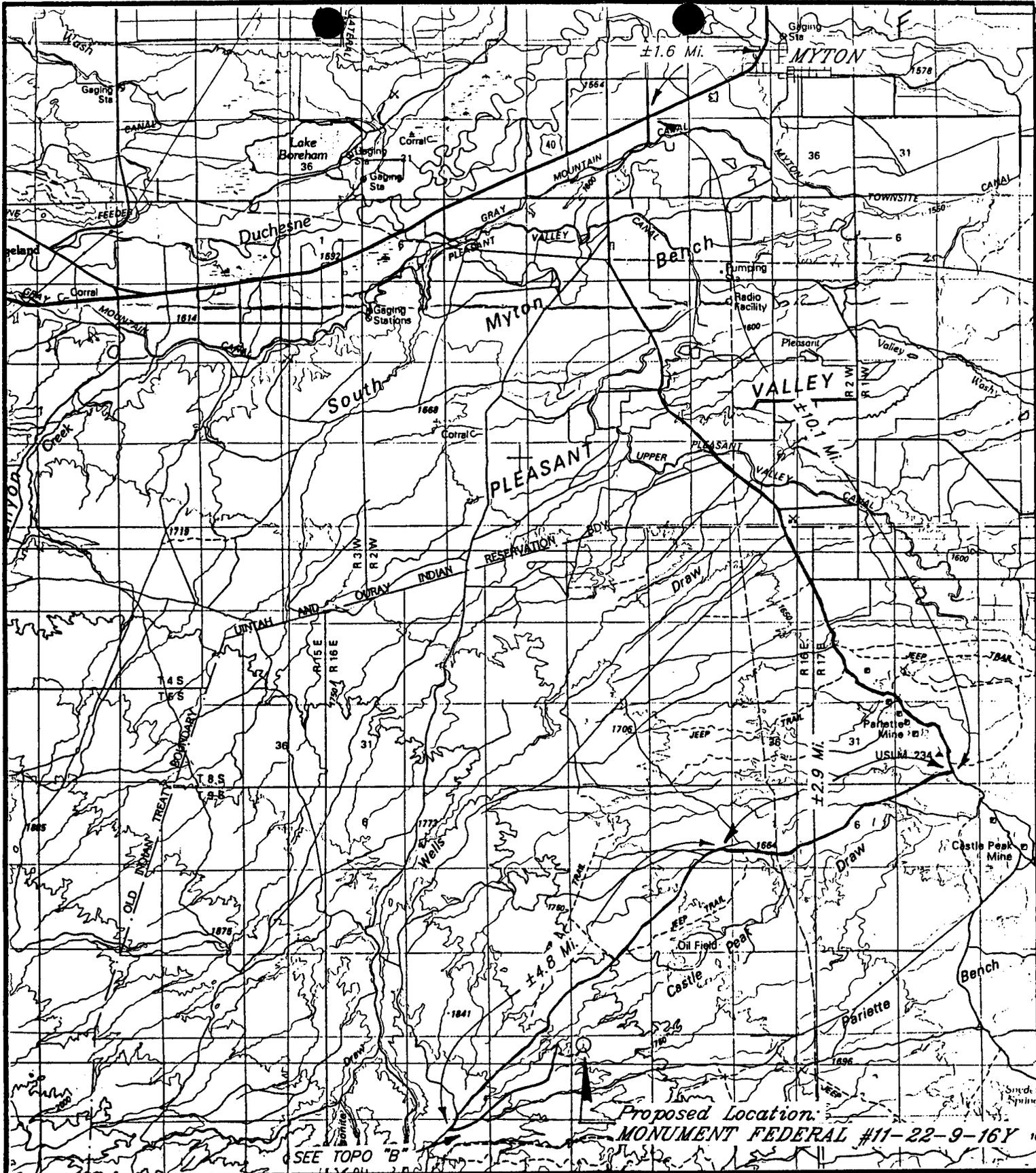
- A. Hazardous chemicals 10,000 pounds of which will most likely be used, produced, stored, transported, or disposed of in association with the proposed action of drilling, completing and producing this well:

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

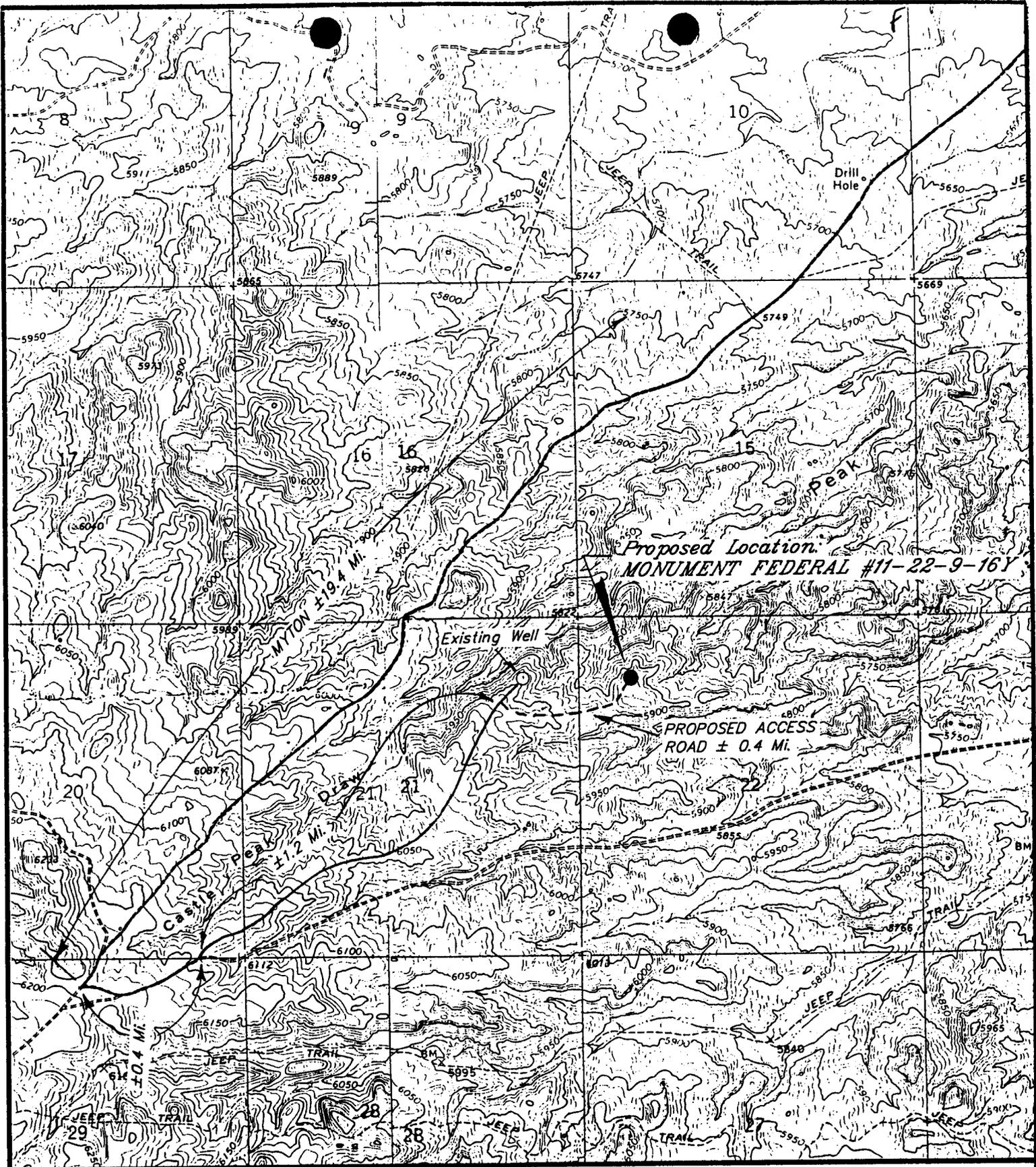


**EQUITABLE RESOURCES CO.**

MONUMENT FEDERAL #11-22-9-16Y  
 SEC. 22, T9S, R16E, S.L.B.&M.  
 TOPO "A"

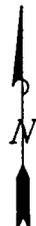


**Tri State**  
 Land Surveying, Inc.  
 (801) 781-2501  
 38 WEST 100 NORTH VERNAL, UTAH 84078



**EQUITABLE RESOURCES CO.**

MONUMENT FEDERAL #11-22-9-16Y  
 SEC. 22, 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

UNION DRILLING RIG #17

Hex Kelly -

ROTATING HEAD

ADJ. CHOKE

AIR BOWL

7" FLOWLINE

#3000  
BLIND RM. PIPE RM.

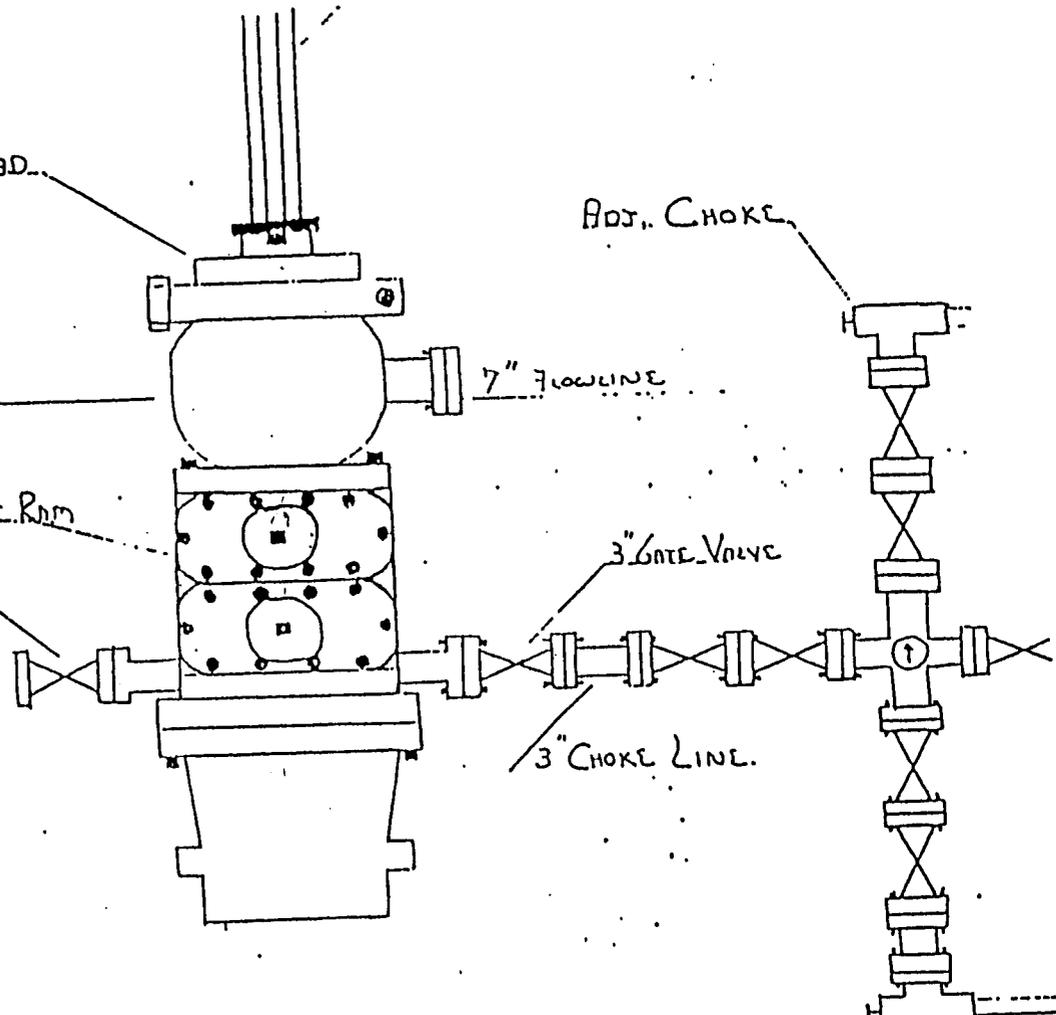
3" GATE VALVE

3" GATE VALVE

3" CHOKE LINE

ADJ. CHOKE

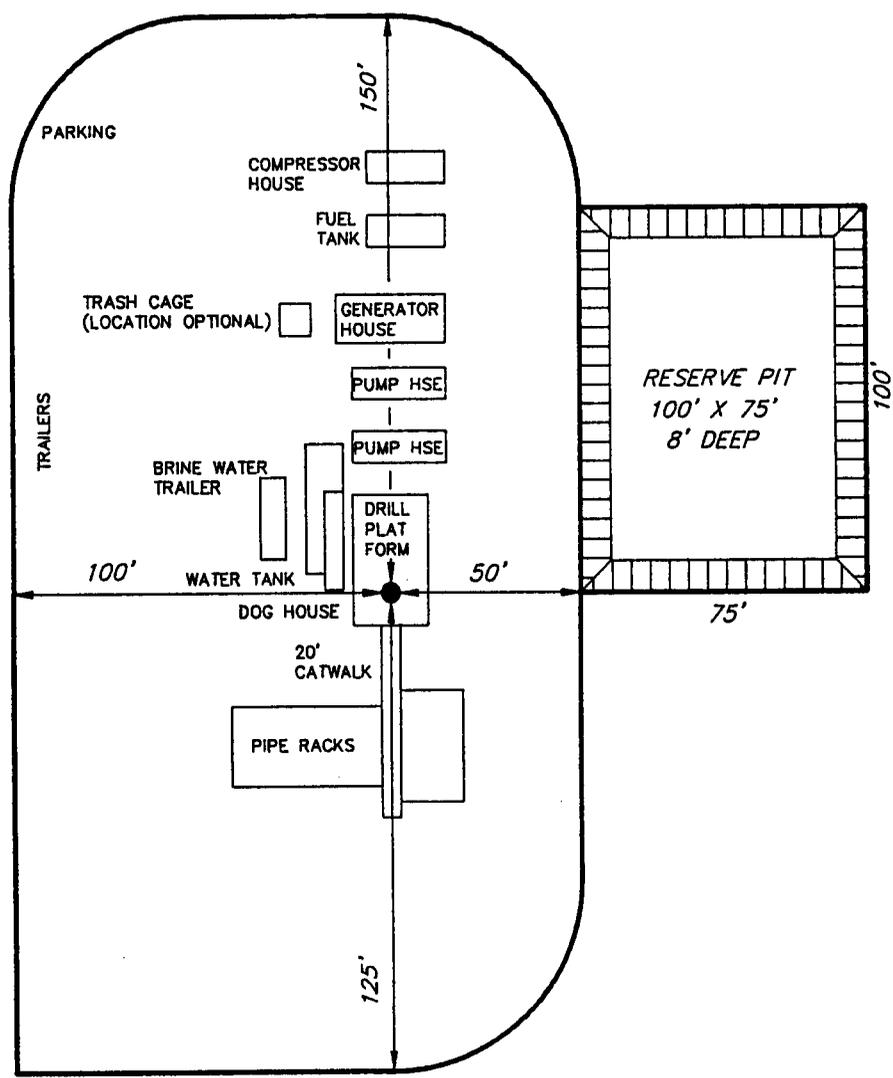
#3000 STACK

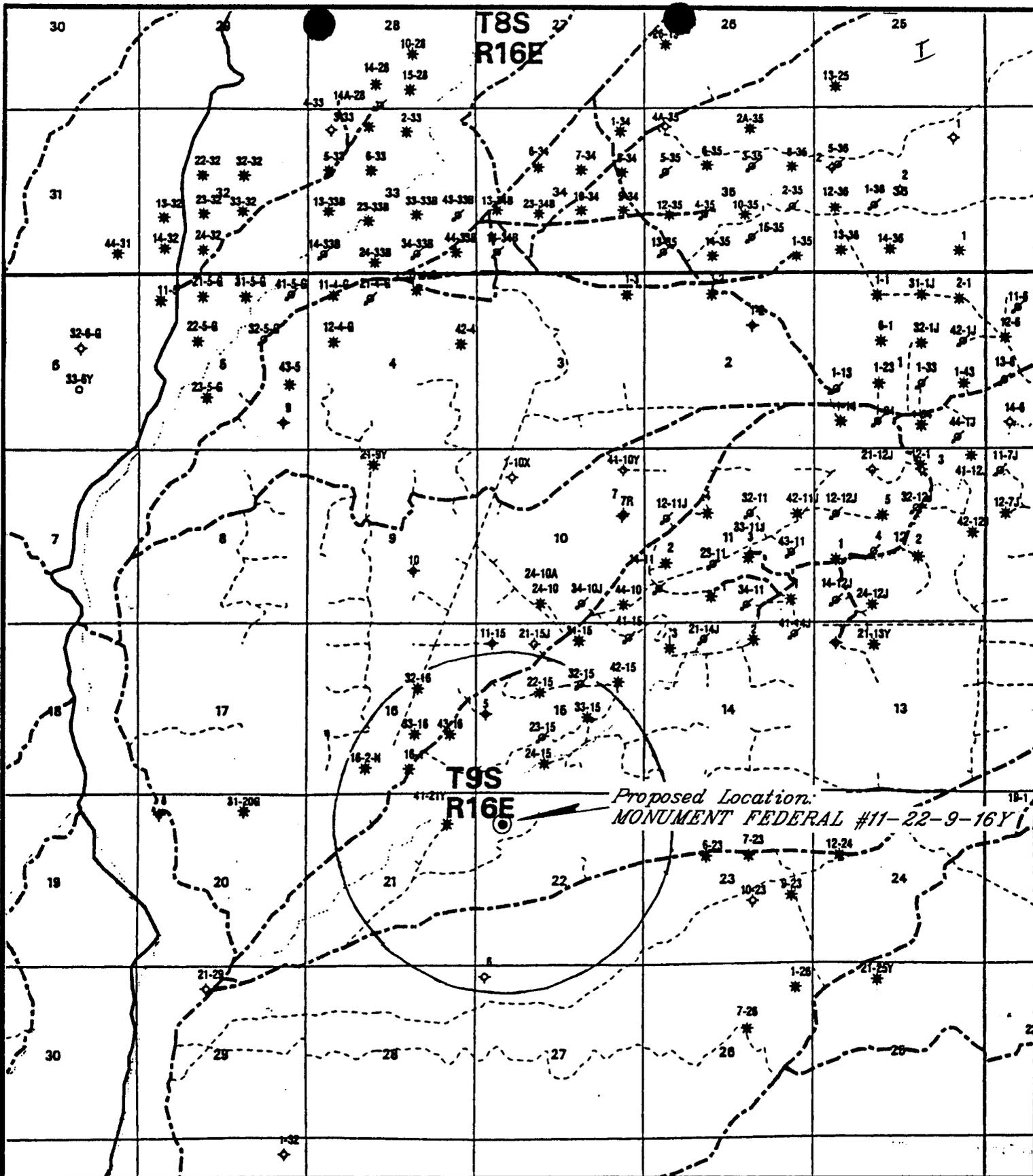


# TYPICAL RIG LAYOUT

---

## MONUMENT FEDERAL #11-22-9-16Y





**EQUITABLE RESOURCES CO.**

MONUMENT FEDERAL #11-22-9-16Y  
 SEC. 22, 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

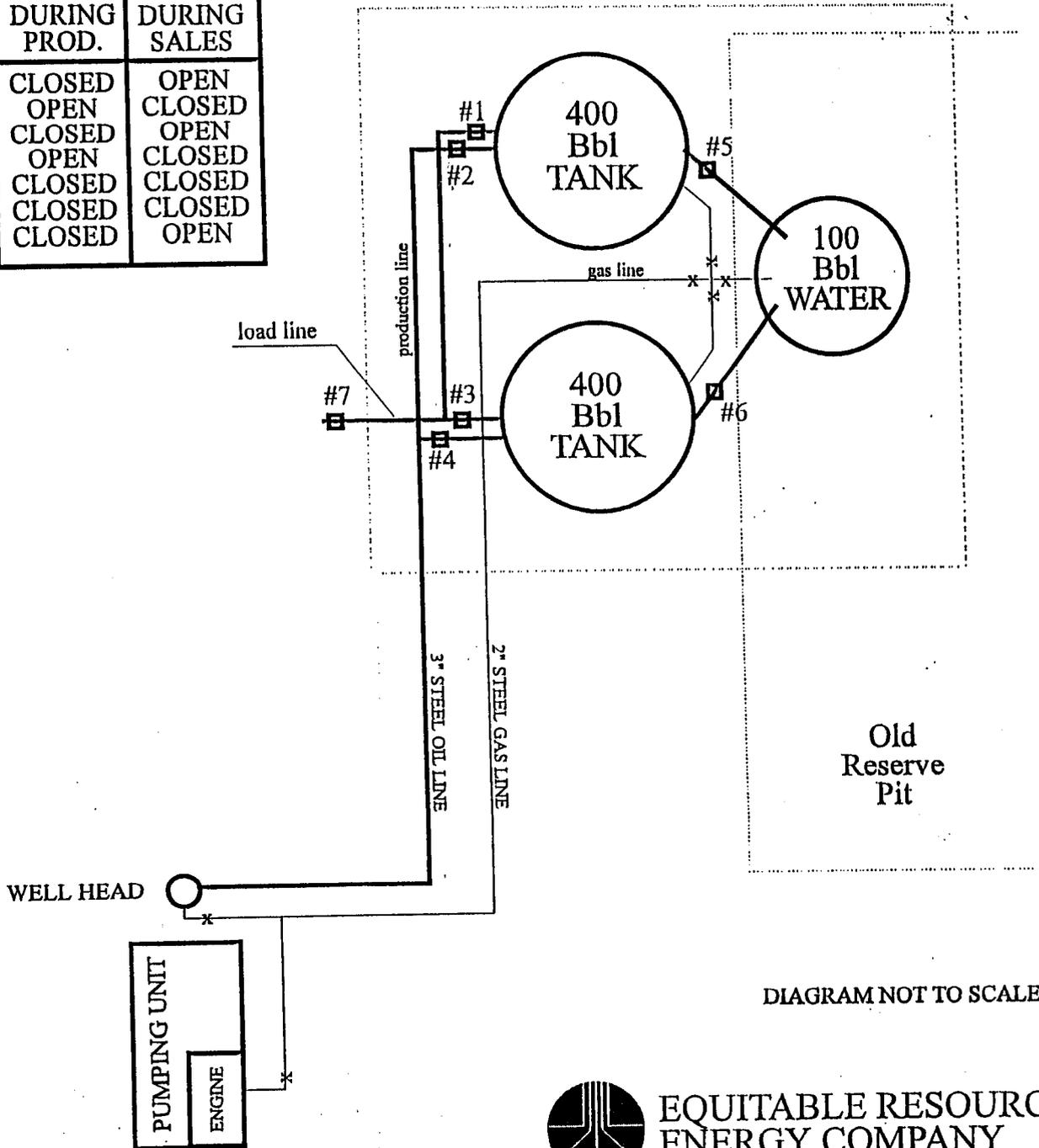


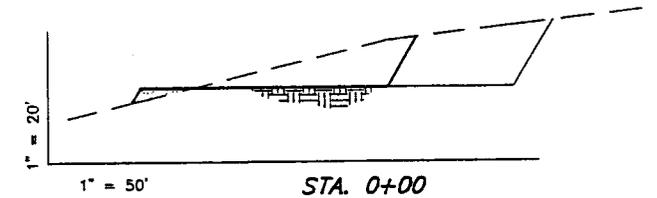
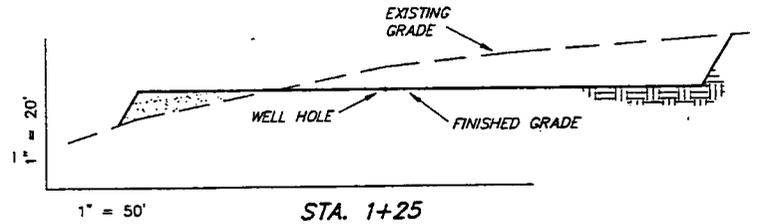
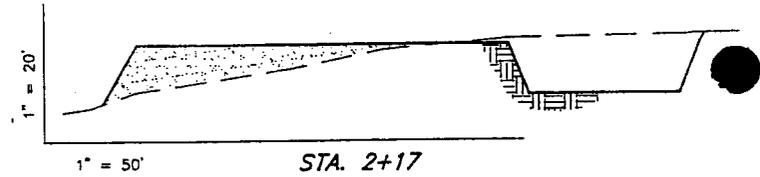
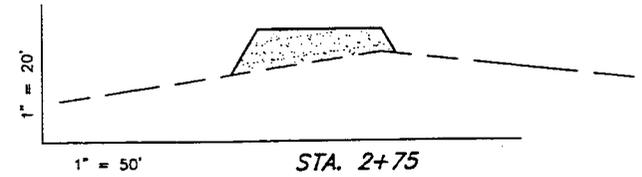
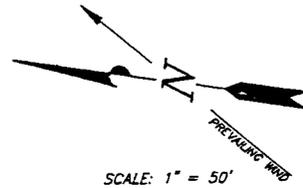
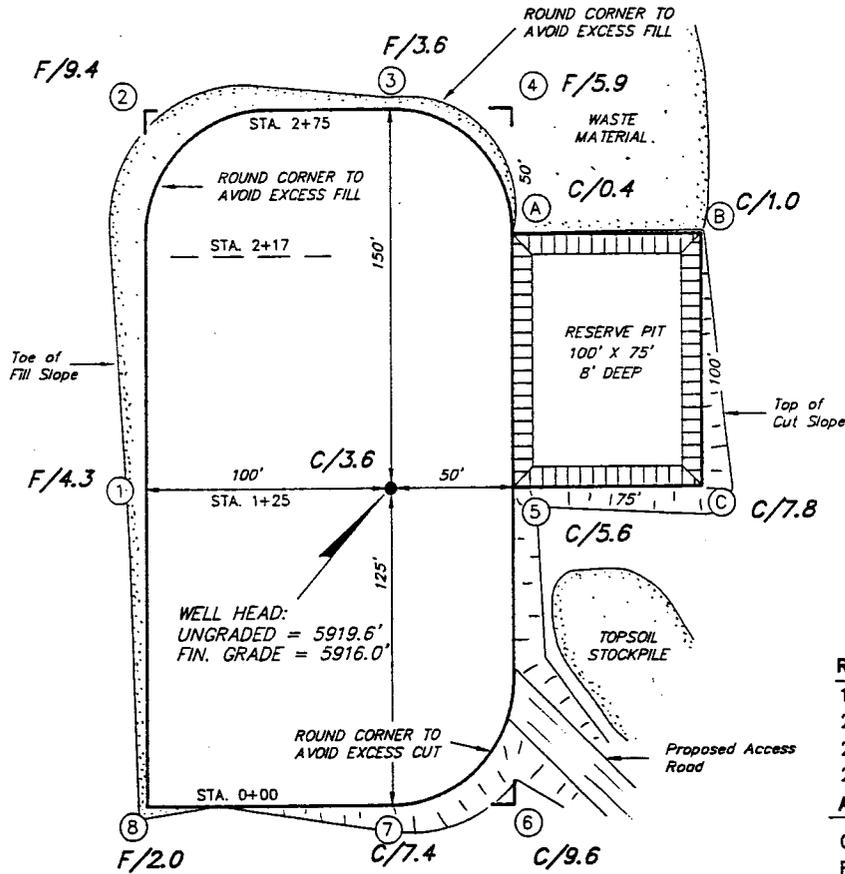
DIAGRAM NOT TO SCALE



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

**EQUITABLE RESOURCES ENERGY CO.**

**MONUMENT FEDERAL #11-22-9-16Y  
SEC. 22, T9S, R16E, S.L.B.&M.**



**REFERENCE POINTS**

- 150' NORTH = 5905.1'
- 200' NORTH = 5901.8'
- 200' EAST = 5907.5'
- 250' EAST = 5902.9'

**APPROXIMATE YARDAGES**

- CUT = 3,410 Cu. Yds.
- FILL = 3,400 Cu. Yds.
- PIT = 1,940 Cu. Yds.
- 6" TOPSOIL = 900 Cu. Yds.

SURVEYED BY: S.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

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 04/29/96

API NO. ASSIGNED: 43-013-31647

WELL NAME: MONUMENT FEDERAL 11-22-9-16Y  
 OPERATOR: EQUITABLE RESOURCES (N9890)

PROPOSED LOCATION:

NWNW 22 - T09S - R16E  
 SURFACE: 0957-FNL-0832-FWL  
 BOTTOM: 0957-FNL-0832-FWL  
 DUCHESNE COUNTY  
 CASTLE PEAK FIELD (075)

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

LEASE TYPE: FED  
 LEASE NUMBER: U - 64379

PROPOSED PRODUCING FORMATION: GRRV

RECEIVED AND/OR REVIEWED:

Plat  
 Bond: Federal  State  Fee   
 (Number 5547188)  
 Potash (Y/N)  
 Oil shale (Y/N)  
 Water permit  
 (Number PRIVATE SUPPLY)  
 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: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_





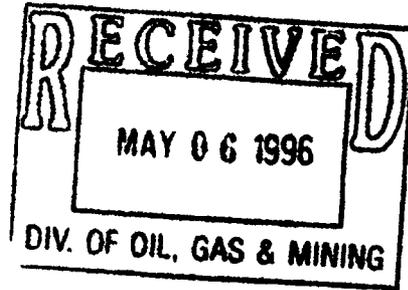
**EQUITABLE RESOURCES**  
ENERGY COMPANY

**WESTERN REGION**

1601 Lewis Avenue  
Billings, MT 59102

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

May 3, 1996



Mr. Mike Hebertson  
State of Utah  
Division of Oil, Gas and Mining  
355 W. North Temple  
Salt Lake City, UT 84180

Dear Mr. Hebertson:

As Operator, we request an exception to location for the following proposed wellsites:

Monument Federal #43-6-9-16Y  
NE SE Section 6, T9S, R16E  
Duchense County, Utah

Monument Federal #11-22-9-16Y  
NW NW Section 22, T9S, R16E  
Duchesne County, Utah

Both were moved during the onsite at the request of the Bureau of Land Management.

If you have any questions, please do not hesitate to give me a call at (406) 259-7860, extension 240.

Sincerely,

Bobbie Schuman  
Regulatory and  
Environmental Specialist

/hs

EQUITABLE RESOURCES CO.

BALCRON OIL

MONUMENT FEDERAL #11-22-9-16Y

NW/NW SECTION 22, 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 #11-22-9-16Y, NW/NW Section 22, T9S, R16E, S.L.B.&M, Duchesne Co., Utah.

Description of Geology and Topography-

This well location is 12 miles south and 3 miles west of Myton, Utah, two miles east of Wells Draw. There is a rather lengthy access road and it crosses exposures of the Uinta Formation. It runs easterly along a ridge for 0.4 miles and up on top of a flat-top section of the ridge. The wellpad sits on the north end of this flat area. The wellpad area is covered with sand and rock fragments, some sandstone rocks up to 1.5 X 1.5 feet indicating bedrock close to the surface.

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 -

A few scattered, weathered turtle shell fragments were found where the access road climbs up the hill to wellpad.

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.

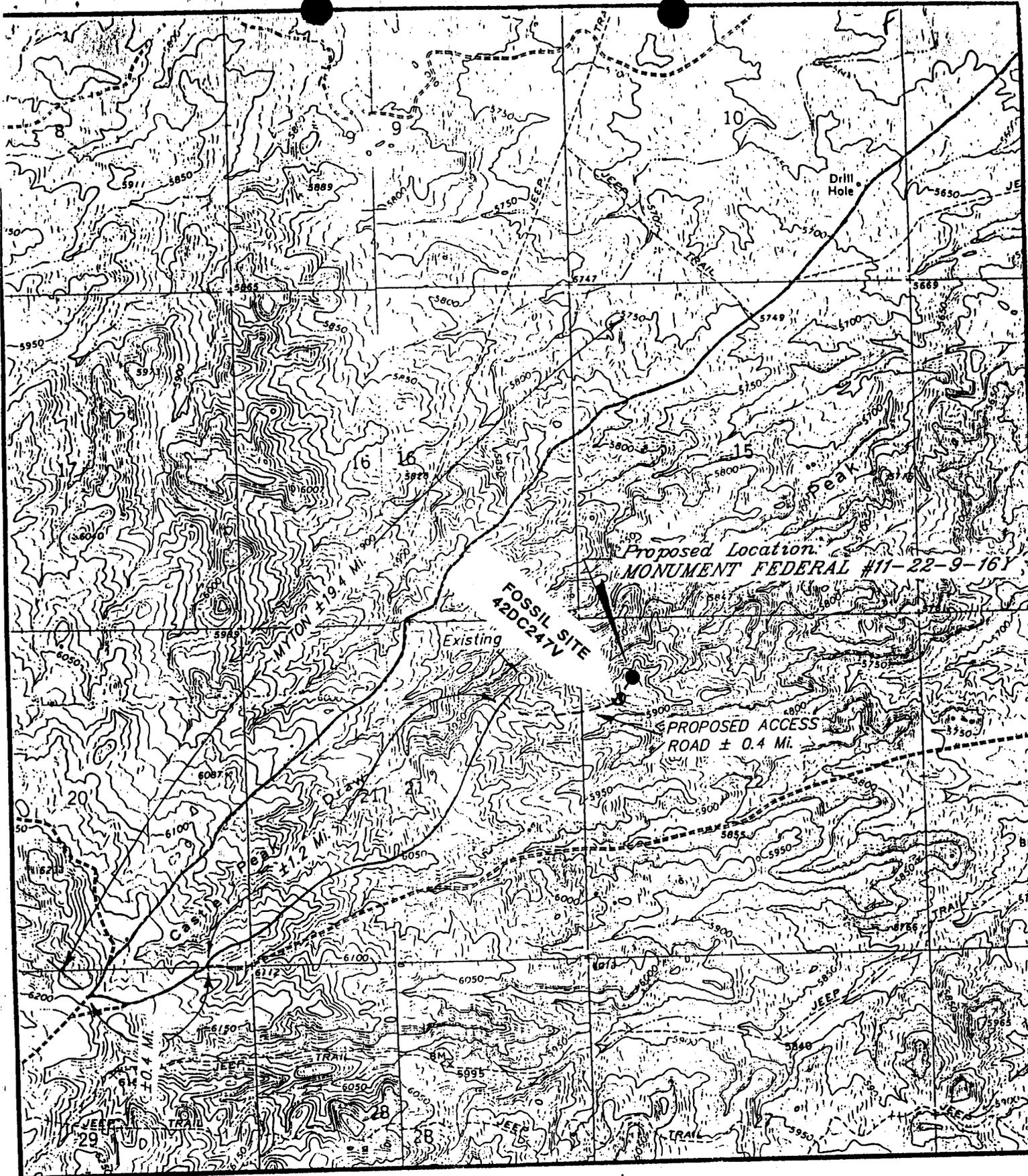
Alden A. Hamblin  
Paleontologist

Date May 9, 1996

United States  
Department of the Interior  
Bureau of Land Management

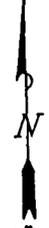
Paleontological Locality Form

1. Permit #/Permittee: BLM - UT-S-95-004 ALDEN H. HAMBLIN
2. Repository/Accn.#: UTAH FIELD HOUSE OF NATURAL HISTORY
3. Locality #: 42DC247V [ ] 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 SE, 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 575731 mE 4430134 mN
15. Survey (Section, Township & Range): NE corner, NW, SW, NW, Sec. 22, T9S, R16E, SLBM
16. Taxa observed/collected: Found a few scattered, weathered turtle shell fragments where the access road climbs up the hill to the wellpad.
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 #11-22-9-16Y.



**EQUITABLE RESOURCES CO.**

MONUMENT FEDERAL #11-22-9-16Y  
 SEC. 22, T9S, R16E, S.L.B.&M.  
 TOPO "B"



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

SCALE: 1" = 2000'

**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**

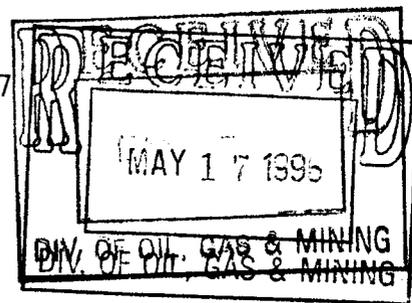
Report Prepared for **Equitable Resources Energy Company**

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:

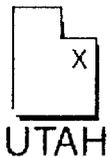
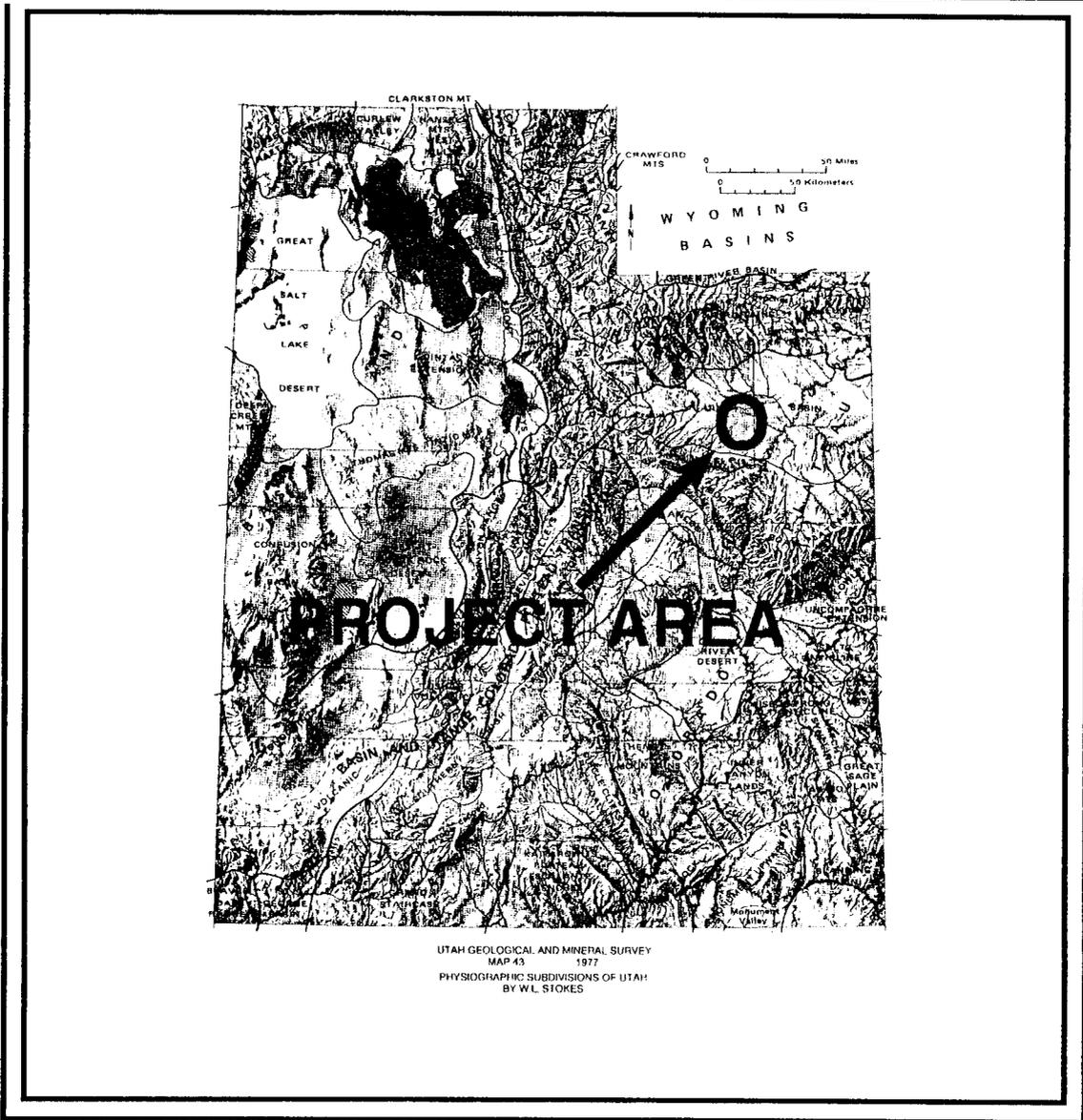
**Unit 42-6-9-16Y** (see Map 2) is in the southeast quarter of the northeast quarter of Section 6, Township 9 South, Range 16 East, Salt Lake B. & M. Its .3 mile-long access links to an existing two-track to the south of the location;

**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**

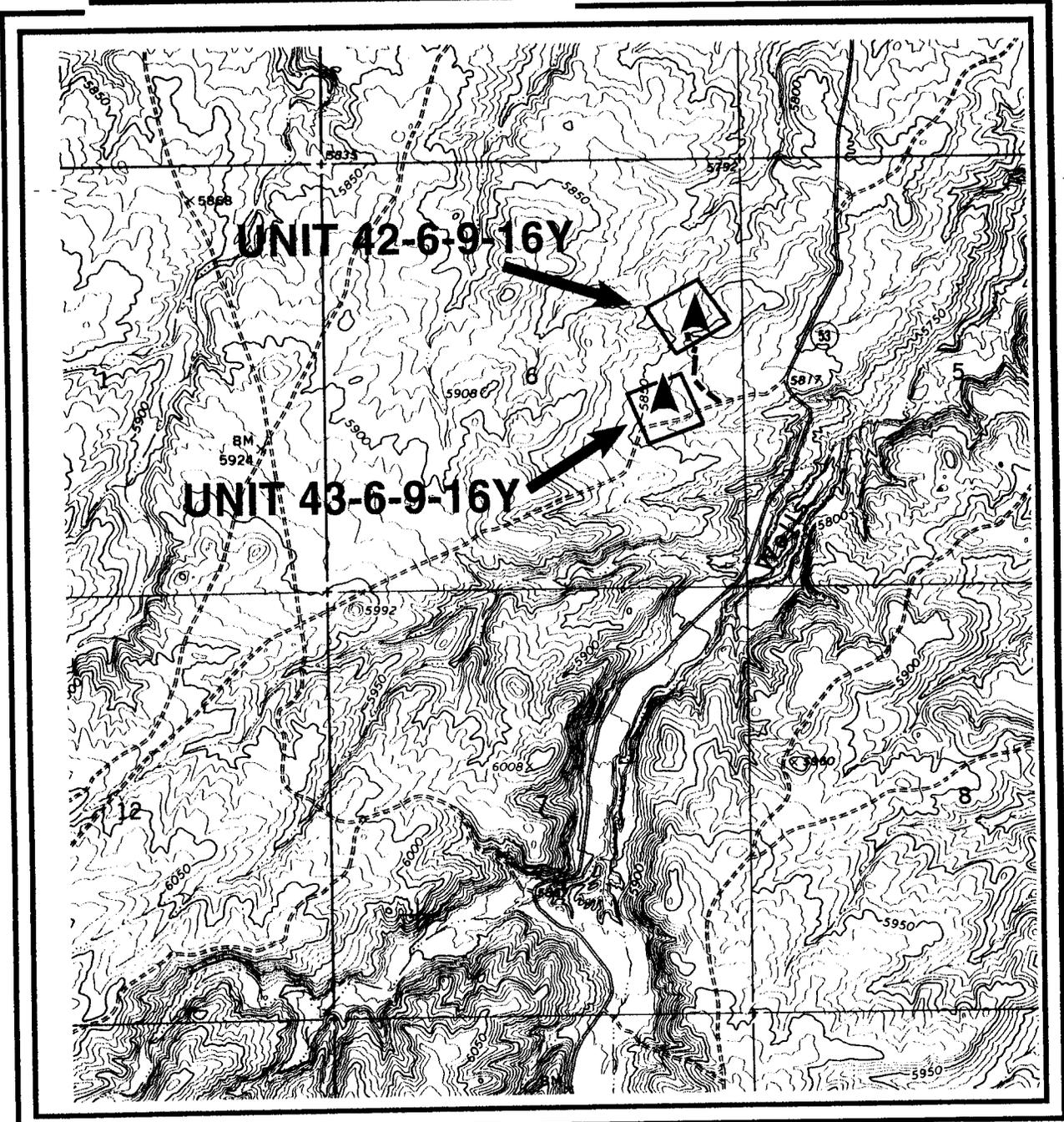


**TOWNSHIP: MULTIPLE  
RANGE: MULTIPLE  
MERIDIAN: SALT LAKE & UINTAH B. & M.**

**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.

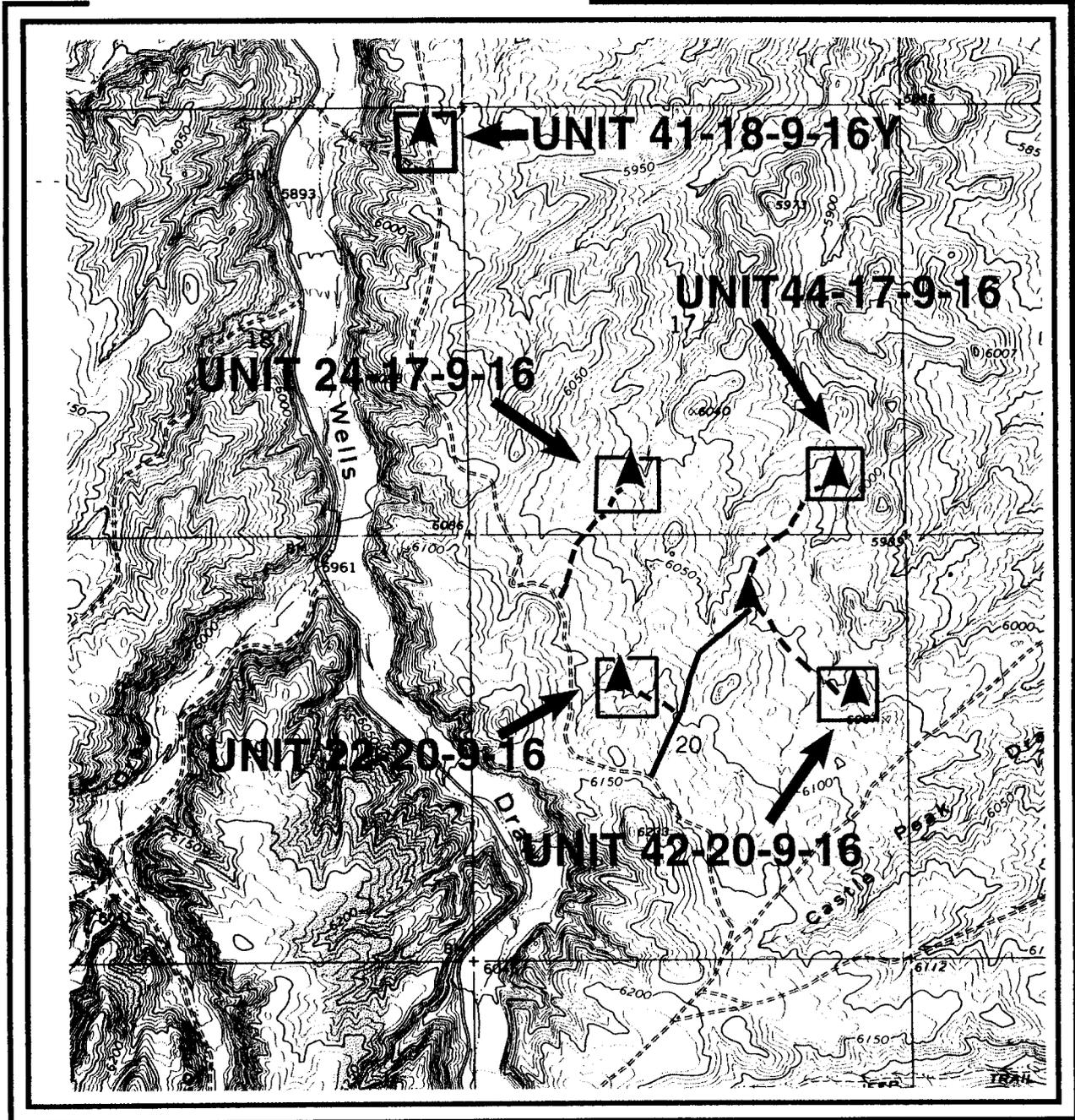
**LEGEND**

- 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 ▲

Access Route - - -

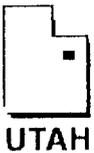
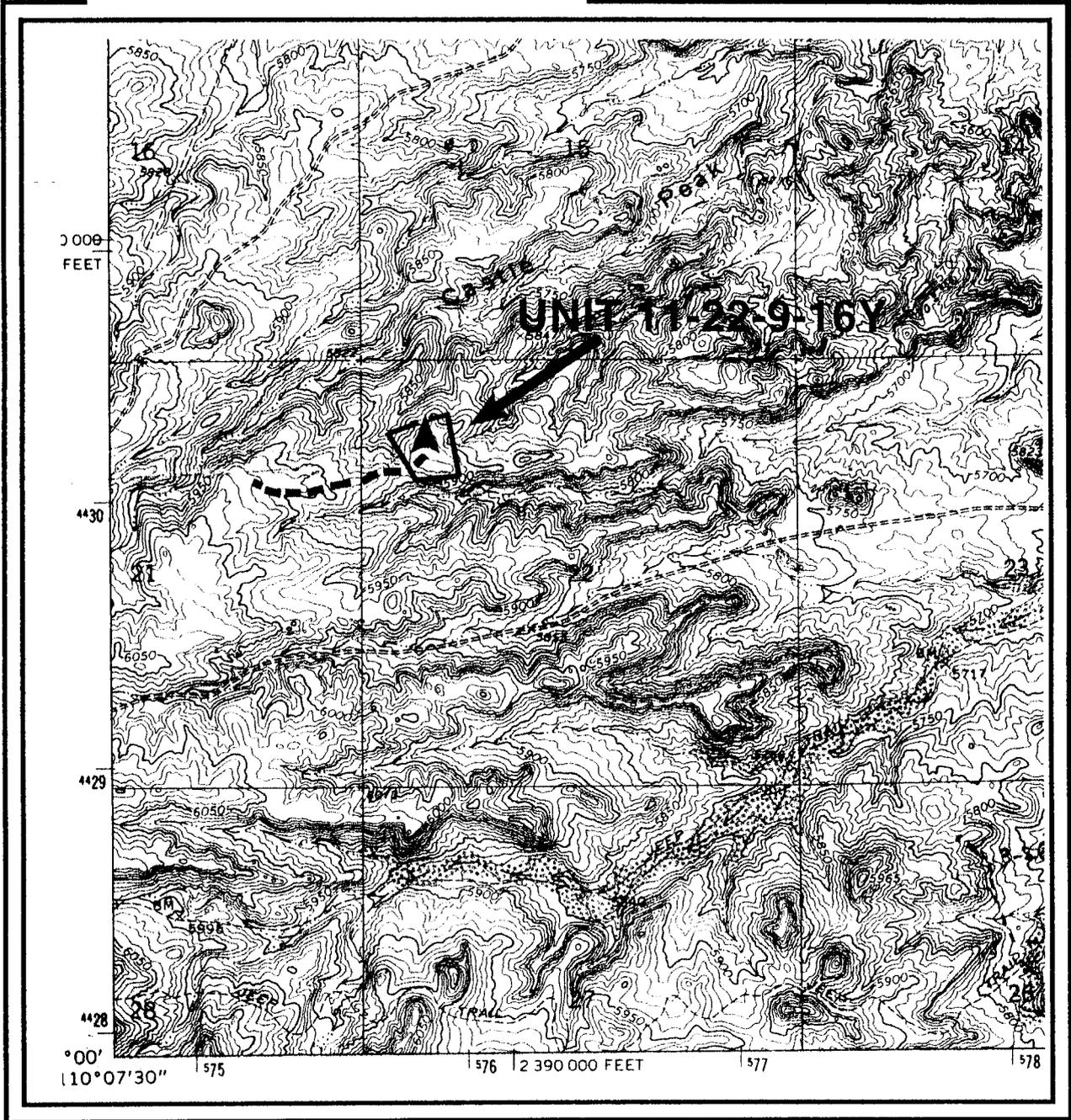
Survey Area □

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 - - -

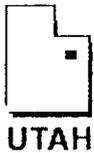
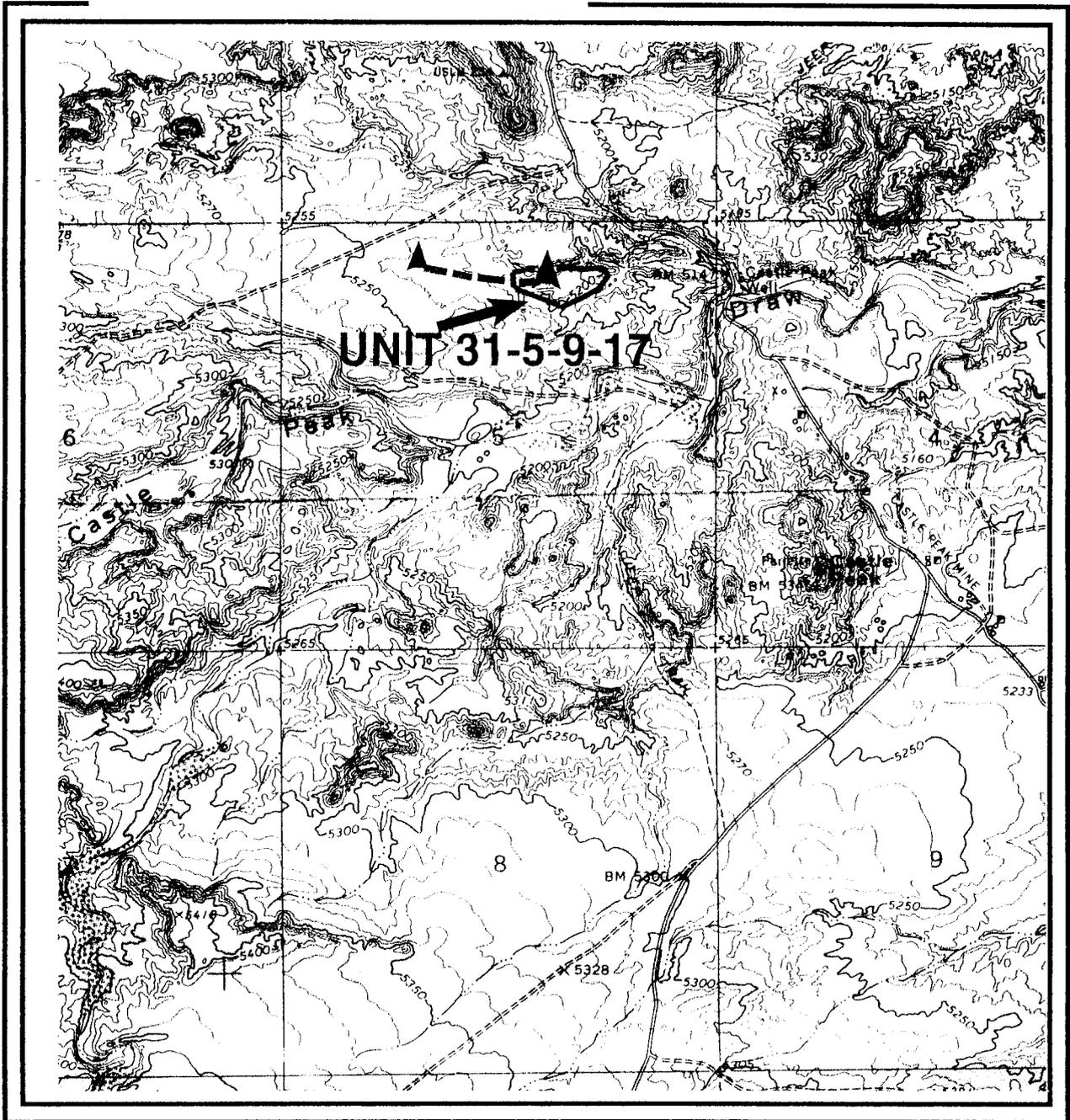
Survey Area □

Pipeline Corridor ↔

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



**PROJECT:** BLCR - 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 - - -

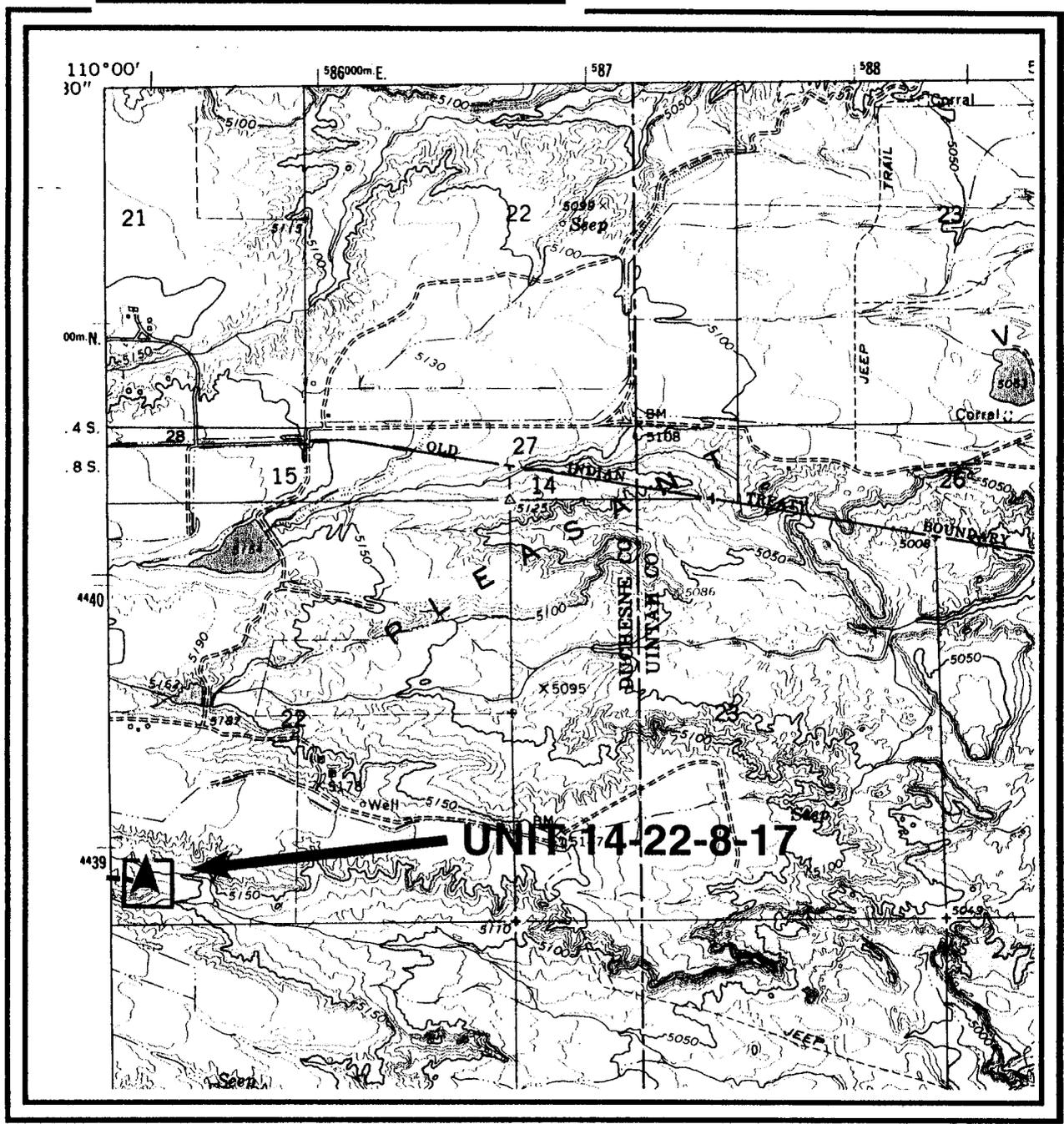
Survey Area □

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



**UNIT 14-22-8-17**



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

**LEGEND**

Well Location ▲

Access Route - - -

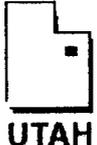
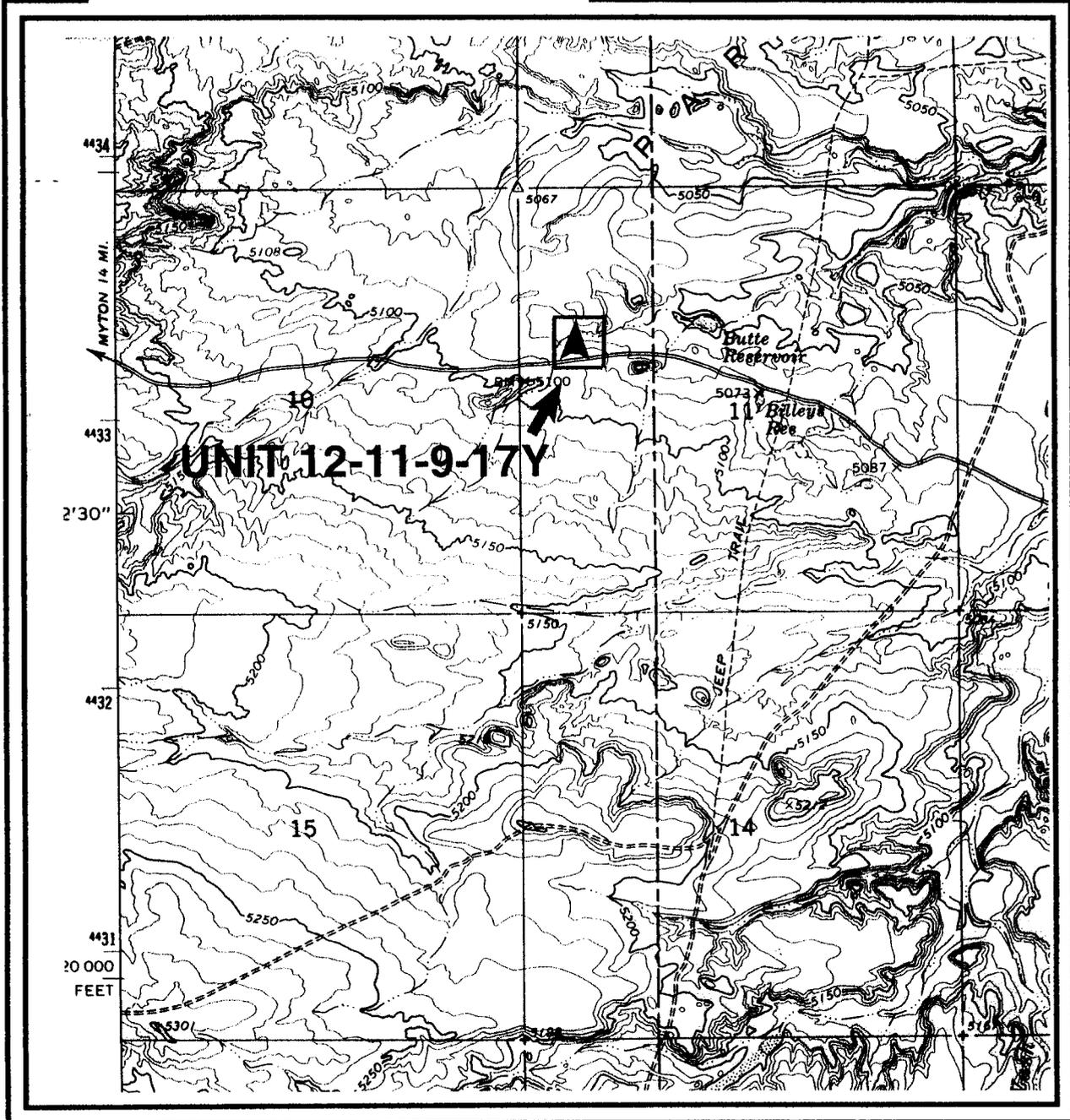
Survey Area □

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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Hauck, F. Richard and Glade Hadden

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- 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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- 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 Authorizatio 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 A E R C 4. Antiquities Permit No. UT-96-54937

5. Responsible Institution . . . . . A E R C BLCR - 96 - 2 Duchesne 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> ~~refrain~~ 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:

STATE OF UTAH, DIV OF OIL, GAS & MINERALS

Operator: <b>EQUITABLE RESOURCES</b>	Well Name: <b>MON FED 11-22-9-16Y</b>
Project ID: <b>43-013-31647</b>	Location: <b>SEC. 22 - T09S - R16E</b>

Design Parameters:

Mud weight ( 8.90 ppg) : 0.462 psi/ft  
 Shut in surface pressure : 2230 psi  
 Internal gradient (burst) : 0.071 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	5,700	5.500	15.50	K-55	ST&C	5,700	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	2635	4040	1.533	2635	4810	1.83	88.35	222	2.51 J

Prepared by : MATTHEWS, Salt Lake City, Utah  
 Date : 07-25-1996  
 Remarks :

Minimum segment length for the 5,700 foot well is 1,500 feet.  
 SICP is based on the ideal gas law, a gas gravity of 0.75, and a mean gas temperature of 119°F (Surface 74°F , BHT 154°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 2,635 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 25, 1996

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

Re: Monument Federal 11-22-9-16Y Well, 957' FNL, 832' FWL,  
NW NW, Sec. 22, 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 43-013-31647.

Sincerely,

R. J. Firth  
Associate Director

lwp

Enclosures

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



Operator: Equitable Resources Energy  
Well Name & Number: Monument Federal 11-22-9-16Y  
API Number: 43-013-31647  
Lease: U-64379  
Location: NW NW Sec. 22 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

**RECEIVED**  
AUG 1 9 1996  
DIV. OF OIL, GAS & MINING

**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: **NW NW 22-T9S-R16E**  
 At proposed prod. zone: **957' FNL, 832' F WL**

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

17. NO. OF ACRES ASSIGNED TO THIS WELL

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

19. PROPOSED DEPTH

20. ROTARY OR CABLE TOOLS  
 Rotary

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

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

5. LEASE DESIGNATION AND SERIAL NO.  
 U-64379

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.  
 #11-22-9-16Y

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

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

12. COUNTY OR PARISH  
 Duchesne

13. STATE  
 UTAH

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**  
APR 29 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)

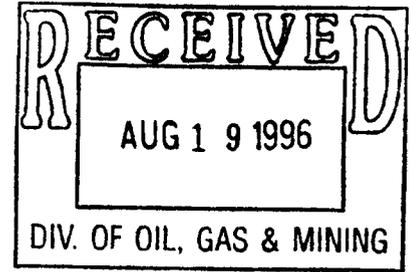
**NOTICE OF APPROVAL**

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
 APPROVED BY [Signature] TITLE Assistant Field Manager Mineral Resources DATE AUG 01 1996  
 CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

41080-6M-109

\*See Instructions On Reverse Side



CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Equitable Resources Energy Company

Well Name & Number: Monument Federal 11-22-9-16Y

API Number: 43-013-31647

Lease Number: U-64379

Location: NWNW Sec. 22 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 running the next casing string or requesting plugging orders**. 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 and oil shale resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the base of the Usable Water zone identified at  $\pm$  3032 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  $\pm$  2802 ft. and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

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

6. Notifications of Operations

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

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

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

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

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

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

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

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

A schematic facilities diagram as required by 43 CFR 3162.7-5 (b.9. d.), and shall be submitted to the appropriate District Office within sixty (60) 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 3162.7-5 (b. 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 on-lease 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 following initial installation and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

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

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

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

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

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

APD approval is valid until midnight March 31, 1996. At this time lease U-020255 will expire.

In the event after-hours approval or notification is necessary, please contact one of the following individuals:

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

Ed Forsman (801) 789-7077  
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, spend solvents, spilled chemicals, and waste acids
- Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste
- Refinery wastes
- Liquid and solid wastes generated by crude oil and tank bottom reclaimers
- Used equipment lubrication oils
- Waste compressor oil, filters, and blowdown
- Used hydraulic fluids
- Waste solvents
- Waste in transportation pipeline-related pits
- Caustic or acid cleaners
- Boiler cleaning wastes
- Boiler refractory bricks
- Incinerator ash
- Laboratory wastes
- Sanitary wastes
- Pesticide wastes
- Radioactive tracer wastes
- Drums, insulation and miscellaneous solids.

## SURFACE CONDITIONS OF APPROVAL

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

- whether the materials appear eligible for the National Register of Historic Places;
- the mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and
- a time frame for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

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

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.

All powerlines constructed on Bureau of Land Management Lands in areas utilized by bald and golden eagles will require Bureau of Land Management Approval.

No construction or earth moving activities will be allowed from February 1 through July 15 in order to avoid disturbing the nesting eagles during their nesting season.

Equitable Resources is required to use a multi-cylinder engine with a good muffler as part of their production facilities for the pumping unit on the well.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil & Gas Orders, the approved unit plan of operations, and any applicable Notices to Lessees. The operator is fully responsible for the actions of his subcontractors. A complete copy of the approved APD with any applicable ROW grants and Conditions of Approval included in the approval for the APD shall be on location during the construction of the location and drilling activities.

DIVISION OF OIL, GAS AND MINING

CONFIDENTIAL

SPUDDING INFORMATION

Name of Company: EQUITABLE RESOURCES

Well Name: MONUMENT FEDERAL 11-22-9-16Y

Api No. 43-013-31647

Section 22 Township 9S Range 16E County DUCHESNE

Drilling Contractor UNION

Rig #: 17

SPUDDED:

Date: 8/19/96

Time: \_\_\_\_\_

How: ROTARY

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

Reported by: D. INGRAM-DOGM

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

Date: 8/20/96 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-64379**

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

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

**SUBMIT IN TRIPLICATE**

1. Type of Well  
 Oil Well  Gas Well  Other

8. Well Name and No.  
**Monument Federal #11-22-9-16Y**

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

9. API Well No.  
**43-013-31647**

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

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

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

**NW NW Section 22, T9S, R16E  
957' FWL, 832' FWL**

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

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

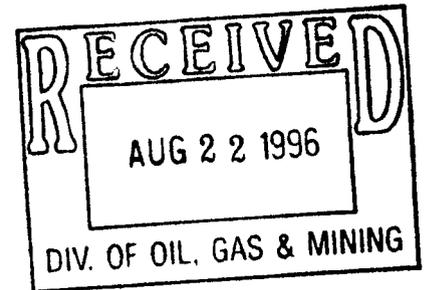
TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input 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 1 p.m. on 8/19/96.**

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 20, 1996

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

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

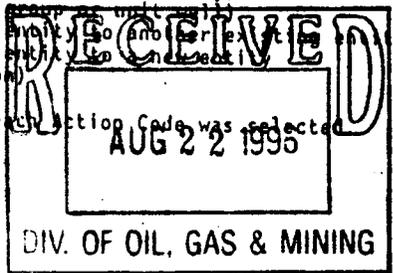
OPERATOR Equitable Resources Energy Company  
 ADDRESS 1601 Lewis Avenue  
Billings, MT 59102

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	11986	43-013-31647	Monument Federal #11-22-9-16Y	NW NW	22	9S	16E	Duchesne	8/19/96	8/19/96
WELL 1 COMMENTS: Spud of new well. <i>Entity added 8-28-96. Lec</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 ( )
  - C - Re-assign well from one existing entity to another
  - D - Re-assign well from one existing entity to another
  - E - Other (explain in comments section)

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



DATE: August 20, 1996

*Lobbie 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**

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-64379**

6. If Indian, Allottee or Tribe Name

n/a

7. If Unit or CA, Agreement Designation

n/a

8. Well Name and No.

**Monument Fed. #11-22-9-16Y**

9. API Well No.

**43-013-31647**

10. Field and Pool, or Exploratory Area

**Monument Butte/Grn River**

11. County or Parish, State

**Duchesne County, UTAH**

**SUBMIT IN TRIPLICATE**

**CONFIDENTIAL**

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)

**NW NW Section 22, T9S, R16E  
957' FNL, 832' FWL**

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

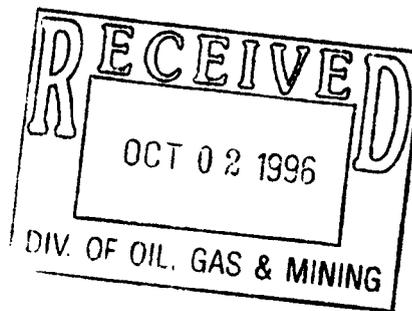
TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <b>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 9/26/96.**

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 **September 30, 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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

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

5. LEASE DESIGNATION AND SERIAL NO.

U-64379

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.

11-22-9-16Y

10. FIELD AND POOL, OR WILDCAT

MON. BUTTE/GREEN RIVER

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

NW NW SECTION 22, T9S, R16

12. COUNTY OR PARISH

Duchesne

13. STATE

UTAH

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. RESRV.  Other

**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 NW NW SECTION 22, T9S, R16E 957' FNL, & 832' FWL

At top prod. interval reported below

At total depth

14. PERMIT NO. 43-013-31647 DATE ISSUED 7-25-96

15. DATE SPUDDED 8-19-96 16. DATE T.D. REACHED 8-26-96 17. DATE COMPL. (Ready to prod.) 9-26-96 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 5917' GL 19. ELEV. CASINGHEAD n/a

20. TOTAL DEPTH, MD & TVD 5700' 21. PLUG, BACK T.D., MD & TVD 5614' 22. IF MULTIPLE COMPL., HOW MANY\* n/a 23. INTERVALS DRILLED BY → SFC-TD 24. PRODUCING INTERVAL(S) OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* 4057'-4884' Green River 25. WAS DIRECTIONAL SURVEY MADE no

26. TYPE ELECTRIC AND OTHER LOGS RUN LDT/CNTH DLL/GR MUD LOG, CBL & GR & CCL 8-29-96 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#	258.10' KB	12 1/4"	160 sxs "G" w/additives	none
5 1/2"	15.5#	5658.71' KB	7 7/8"	170 sxs "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"	4968.16' KB	n/a

31. PERFORATION RECORD (Interval, size and number)

4057'-66' (4 SPF)
4754'-61' (2 SPF)
4871'-78' (2 SPF)
4880'-84' (2 SPF)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
(SEE ATTACHMENT)	

**CONFIDENTIAL**

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
9-26-96	1 1/2" INSERT PUMP	PRODUCING

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
10-31-96	24	n/a	→	24	65	0	2700 G.R.

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
n/a	n/a	→	24	65	0	34

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

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 11-13-96

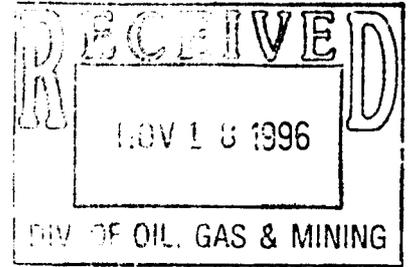
\*(See Instructions and Spaces for Additional Data on Reverse Side)

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 MARKI

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEP
			NO DST's run./	GREEN RIVER HORSE BENCH S.S. 2nd GARDEN GULCH YELLOW MARKER DOUGLAS CREEK 2nd DOUGLAS CREEK GREEN MARKER CARBONATE MARKER	1570' 2156' 3797' 4424' 4574' 4804' 4932' 5456'

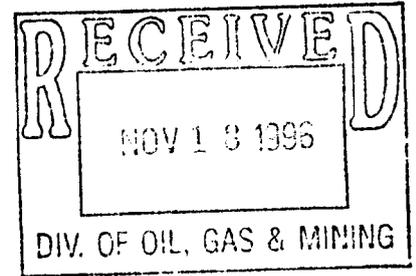
**RECEIVED**  
 NOV 13 1935  
 DIV. OF OIL, GAS & MINING



**Attachment to Completion Report  
Monument Federal #11-22-9-16Y  
NW NW Section 22, T9S, R16E  
Duchesne County, Utah**

<u>Depth Interval</u>	<u>Amount and Kind of Material Used</u>
4754'-4761'	Fracture with 80,100# 16/30 mesh sand with 24,402 gallons 2% KCL gelled water. Break down with 1,428 gallons 2% KCL water.
4871'-4884'	Fracture with 80,100# 16/30 mesh sand with 24,402 gallons 2% KCL gelled water. Break down with 1,596 gallons 2% KCL water.
4057'-4066'	Fracture with 39,000# 16/30 mesh sand with 14,532 gallons 2% KCL gelled water. Break down with 2,268 gallons 2% KCL water.

**EREC/Western Region  
DAILY OPERATING REPORT**



**MONUMENT FEDERAL #11-22-9-16Y**

**Location: NW NW Section 22, T9S, R16E  
Duchesne County, Utah**

---TIGHT HOLE---

**957' FNL, 832' FWL**

**PTD: 5,700' Formation: Green River**

**Monument Butte Field**

**API #43-013-31647 (7-25-96)**

**Elevations: unknown**

**Contractor: Union Drilling**

**Operator: EREC/Western Region**

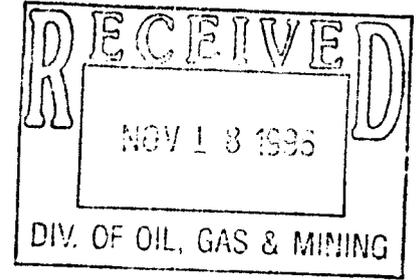
**Spud: August 19, 1996 @ 1:00 PM**

**Casing: 8-5/8", 24#, J-55 @ 258.1' KB**

**Tubing:**

- 08/20/96 TD: 280' (280') Day 1  
Present Operation: Wait on Cement  
MIRU, drill and set rat hole and conductor, drill 280' of 12-1/4" hole, ran 247' of 8-5/8",  
J-55, 24# csg as follows:
- |                  |            |
|------------------|------------|
| Shoe             | .90'       |
| Shoe jt          | 29.05'     |
| Baffle Plate     | 0.00'      |
| 6 jts csg        | 218.15'    |
| Total csg length | 248.10'    |
| Landing jt       | 10.00'     |
| Depth landed     | 258.10' KB |
- Cement csg w/ 160 sxs "G" + 2% CaCl + 1/4#/sx cello flake. Spud well @ 1:00 PM on  
8/19/96. Plug down @ 1:00 AM on 8/20/96. Circ. 5 bbls return cement to pit.  
DC: \$5,040 CC: \$5,040
- 08/21/96 TD: 1300' (1020') Day 2  
Present Operation: Drilling 7-7/8" hole  
NU, pressure test BOP stack, drilled plug & shoe, drilled 1020' of 7-7/8" hole w/air.  
DC: \$18,360 CC: \$23,400
- 08/22/96 TD: 2767' (1467') Day 3  
Present Operation: Drilling 7-7/8" hole  
Drilled 1467' of 7-7/8" hole w/air and ran three surveys.  
DC: \$26,406 CC: \$49,806
- 08/23/96 TD: 3756' (989') Day 4  
Present Operation: Drilling 7-7/8" hole  
Drilled 989' of 7-7/8" hole.  
DC: \$17,802 CC: \$67,608

**EREC/Western Region  
DAILY OPERATING REPORT**



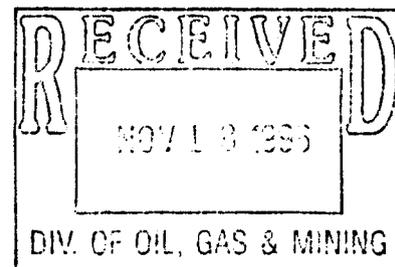
**MONUMENT FEDERAL #11-22-9-16Y**

**Location: NW NW Section 22, T9S, R16E  
Duchesne County, Utah**

---TIGHT HOLE---

- 08/24/96 TD: 4474' (718') Day 5  
MW 8.3 VIS 28  
Present Operation: Drilling 7-7/8" hole  
Made bit trip, picked up motot & drilled 718' of 7-7/8" hole w/fluid.  
DC: \$12,924 CC: \$80,532
- 08/25/96 TD: 5260' (786') Day 6  
MW 8.3 VIS 20  
Present Operation: Drilling 7-7/8" hole  
Drilled 786' of 7-7/8" hole w/fluid, ran one survey.  
DC: \$14,148 CC: \$94,680
- 08/26/96 TD: 5700' (440') Day 7  
Present Operation: Log Hole  
Drilled 440' of 7-7/8" hole to TD.  
DC: \$7,920 CC: \$102,600
- 08/27/96 TD: 5700' (0') Day 6  
Present Operation: RDMO  
Log well for 3 hrs. Run 5-1/2", 15.5#, J-55 csg as follows:
- |                  |             |
|------------------|-------------|
| Shoe             | .90'        |
| Shoe jt          | 43.24'      |
| Float Collar     | 1.10'       |
| 132 jts csg      | 5603.43'    |
| Landing jt       | 10.00'      |
| Total csg length | 5648.71'    |
| Depth landed     | 5658.71' KB |
| PBTD             | 5613.47' KB |
- Cement csg w/Lead = 170 sxs Super "G" + 3% salt + 2% get + 2#/sx Kolseal + 1/4#/sx Cello Flake. Tail = 370 sxs 50/50 poz + 2% gel + 1/4#/sx Cello Flake + 2#/sx Kolseal.  
Plug down @ 12:00 noon, release rig @ 4:00 PM.  
DC: \$10,000 CC: \$112,600

**EREC/Western Region**  
**DAILY OPERATING REPORT**



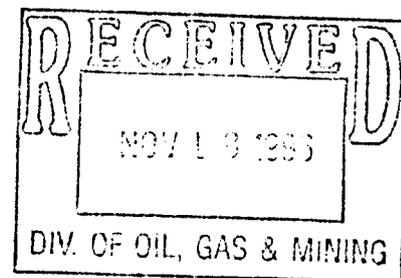
**MONUMENT FEDERAL #11-22-9-16Y**

**Location:** NW NW Section 22, T9S, R16E  
Duchesne County, Utah

---TIGHT HOLE---

- 09/04/96 Completion  
Dress up loc., set rig anchors, set rig pump & tanks. MIRU Basin well service rig.
- 09/05/96 Completion  
TIH w/4-3/4" bit, 5-1/2" csg scrapper & 180 jts 2-7/8" tbg. Tag PBSD @ 5614' KB. Circulate hole clean w/130 bbls 2% KCL wtr. TOOH w/tbg & tools. RU Schlumberger to run CBL & perf. Tun CBL from 5608' KB to surface w/1000 psi. TOC @ 1582' KB. Perf 4754' - 4761', 4871' - 4878', 4880' - 4884', 2 SPF. Tih w/TS RBP, retrieving tool, 2-3/8" x 6' sub, SN & 157 jts 2-7/8" tbg. Set BP @ 4935' KB, EOT @ 4693' KB, pkr @ 4701' KB. SWIFN.  
DC: \$8,704 CC: \$121,304
- 09/06/96 Completion  
Reset BP @ 4800' KB. EOT @ 4693' KB, pkr @ 4701' KB. RU BJ Services & break down 4754' - 4761' w/1428 gals 2% KCL wtr. ATP = 1900 psi, ATR = 3.0 bpm, ISIP = 1400 psi. Used 34 bbls wtr. Reset BP @ 4938' KB, EOT @ 4843' KB, pkr @ 4835' KB. Break down 4871' - 4878' & 4880' - 4884' w/1596 gals 2% KCL wtr. ATR = 1600 psi, ATR = 3.0 bpm, ISIP = 1300 psi. Used 38 bbls wtr. TOOH w/tbg, pkr & retrieving tool. SWIFN.  
DC: \$4,407 CC: \$13,111
- 09/07/96 Completion  
RU BJ Services & frac 4754' - 4884' w/24,402 gals 2% KCL wtr & 80,100 lbs 16/30 sand. ATP = 2200 psi, ATR = 35.4 bpm, ISIP = 2100 psi, 5 min = 1780 psi, 10 min = 1690 psi, 15 min = 1640 psi. Used 581 bbls wtr. RU Schlumberger to set HE BP & perf. Set BP @ 4110' KB. Perf 4057' - 4066', 4 SPF. Tih w/HD pkr & 127 jts tbg. Set pkr @ 3992' KB. Break down 4057' - 4066' w/2268 gals 2% KCL wtr. ATP = 2000 psi, ATR = 3.5 bpm, ISIP = 1400 psi. Used 54 bbls wtr. TOOH w/tbg & pkr. Frac 4057' - 4066' w/14,532 gals 2% KCL wtr & 39,000 lbs 16/30 sand. ATP = 2000 psi, ATR = 31.0 bpm, ISIP = 1600 psi, 5 min = 1400 psi, 10 min = 1290 psi, 15 min = 1230 psi, 30 min = 1130 psi. Used 346 bbls wtr. Start forced closure flow back, .5 bpm. Flow back 119 bbls wtr & trace of sand. TIH w/125 jts tbg & retrieving tool. SWIFN.  
DC: \$50,371 CC: \$63,482
- 09/08/96 Completion  
Bleed well down. Tag sand @ 4040' KB. Circulate down to BP @ 4110' KB. Retrieve HE BP. TOOH w/tbg & BP. TIH w/retrieving tool, 2-3/8" x 6' sub, HD pkr, SN, & 155 jts 2-7/8" tbg. Tag sand @ 4890' KB. Circulate down to BP @ 4935' KB. Set pkr @ 3992' KB. Made 14 swab runs. Recovered 9 bbls oil & 94 bbls wtr, no sand. Oil 20% last 3 runs. Fluid level @ 2000' last 7 runs. SWIFN.  
DC: \$1,460 CC: \$64,942

**EREC/Western Region  
DAILY OPERATING REPORT**



**MONUMENT FEDERAL #11-22-9-16Y**

**Location: NW NW Section 22, T9S, R16E  
Duchesne County, Utah**

**---TIGHT HOLE---**

09/09/96 Completion  
Fluid level @ 700'. Made 18 swab runs. Recovered 88 bbls oil & 49 bbls wtr, no sand, gas cut. Oil 80% last 10 runs. Release pkr, tag sand @ 4920' KB. Circulate down to BP @ 4935' KB. Release BP. TOOH w/tbg, pkr & BP. ND BOP, ND 5M well head, NU 3M well head. NU BOP. SWIFN.  
DC: \$1,836 CC: \$66,778

09/10/96 Completion  
TIH w/production string (tbg) as follows:

	<u>LENGTH</u>	<u>DEPTH KB</u>
1 - Notched-pinned collar	.40'	4968.16'
1 - jt 2-7/8" EUE M-50 8rd 6.5#	31.48'	4967.76'
1 - perf sub 2-7/8" x 4'	4.12'	4936.28'
1 - SN 2-7/8"	1.10'	4932.16'
30 - jts 2-7/8" EUE M-50 8rd 6.5#	938.30'	4931.06'
1 - tbg anchor 2-7/8" x 5-1/2" (TRICO)	2.82'	3992.76'
127 - jts 2-7/8" EUE J-55 8rd 6.5#	3979.94'	3989.94'
KB	10.00'	

ND BOP, ND 5M well head, NU 3M well head. Set tbg anchor w/13" 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 #1190)
- 1 - 7/8" x 2' Pony w/2-1/2" guides
- 1 - K-bar 1-1/2" x 25'
- 1 - Pony 7/8" x 2' w/2-1/2" guides
- 194 - 3/4" x 25' D-61 Plain
- 1 - Pony 3/4" x 8'
- 1 - Pony 3/4" x 4'
- 1 - Pony 3/4" x 2'
- 1 - Polish rod 1-1/4" x 22'

Press test DHP & tbg to 500 psi, OK. Used 4 bbls wtr. RDMO.

DC: \$26,531

CC: \$93,309

09/26/96 Completion  
Start well pumping. 8-1/2 SPM. 71" stroke.  
DC: \$29,589

CC: \$122,898

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-64379

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. 11-22-9-16Y

9. API Well No.

43-013-31647

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)  
NW NW Section 22, T9S, R16E  
957' FNL, 832' FWL

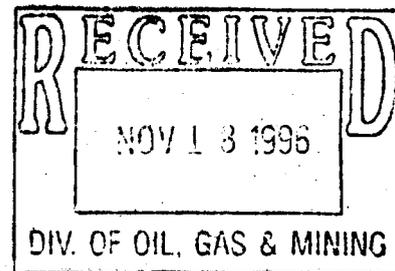
12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input 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>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 11-13-96

(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



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-64379

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. 11-22-9-16Y

9. API Well No.  
43-013-31647

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)  
NW NW Section 22, T9S, R16E  
957' FNL, 832' FWL

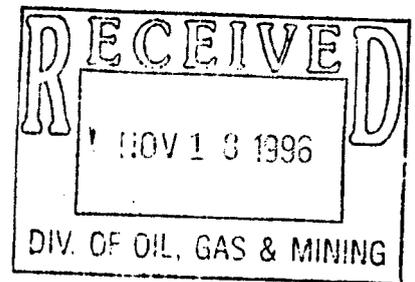
12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Site Security Diagram</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

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

Attached is the Site Security Diagram for this well.



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

Signed Molly Conrad Title Operations Secretary Date 10-13-96

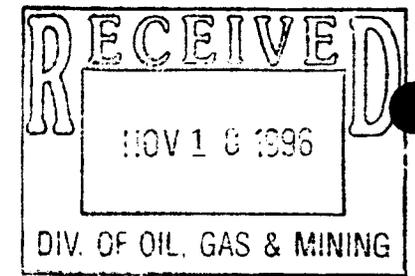
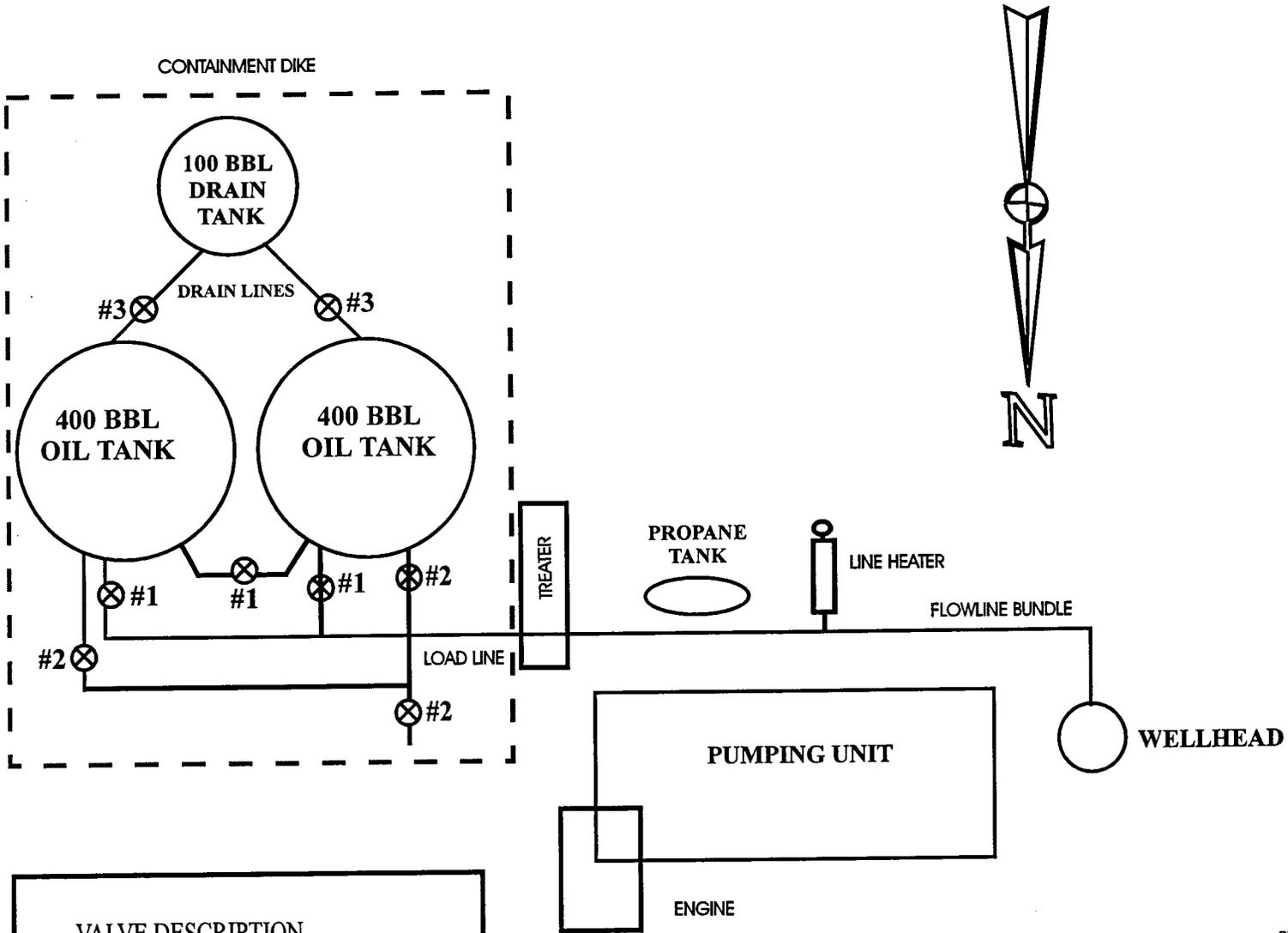
(This space for Federal or State office use)

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.

EQUITABLE RESOURCES ENERGY COMPANY  
 MONUMENT FEDERAL #11-22-9-16Y  
 PRODUCTION FACILITY DIAGRAM

MONUMENT FEDERAL #11-22-9-16Y  
 NW NW SEC.22, T9S, R16E  
 DUSCHESNE COUNTY, UTAH  
 LEASE #U-64379



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

DIAGRAM NOT TO SCALE

PLAN LOCATED AT:  
**EQUITABLE RESOURCES ENERGY COMPANY**  
 WESTERN REGION  
 1601 Lewis Avenue  
 Billings, MT 59102  
 (406) 259-7860  
 NOVEMBER 11, 1996

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

**SUBMIT IN TRIPLICATE**

1. Type of Well

Oil Well     Gas Well     Other

2. Name of Operator

Inland Production Company

3. Address and Telephone No.

475 - 17th Street, Suite 1500, Denver, CO 80202 (303) 292-0900

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

See Attached Exhibit

5. Lease Designation and Serial No.

See Attached

6. If Indian, Allottee or Tribe Name

See Attached

7. If Unit or CA, Agreement Designation

See Attached

8. Well Name and No.

See Attached

9. API Well No.

See Attached

10. Field and Pool, or Exploratory Area

See Attached

11. County or Parish, State

See Attached

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 Change of Operator  
 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.)\*

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 BLM Bond No. UT0056 issued by The Hartford Insurance Group.

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

Signed

*Chris A. Potter*

**CHRIS A. POTTER, ATTORNEY-IN-FACT**

Date

9/30/97

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

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.

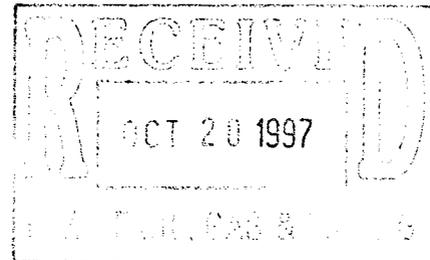
If you should have questions regarding this matter, please do not hesitate to contact me at the number listed below.

Sincerely,

INLAND PRODUCTION COMPANY

  
Patsy Barreau

/pb  
encls.





# United States Department of the Interior

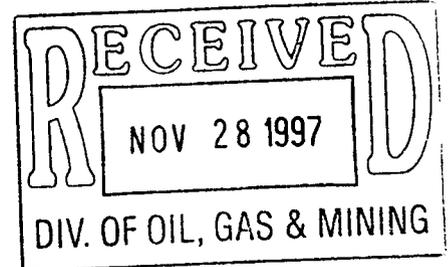
## BUREAU OF LAND MANAGEMENT

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

November 20, 1997



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

*43-013-31647*  
Re: Well No. Mon. Fed. 11-22-9-16Y  
NWNW, Sec. 22, T9S, R16E  
Lease U-64379  
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*  
Howard B. Cleavinger II  
Assistant Field Manager,  
Minerals Resources

cc: Division of Oil, Gas & Mining  
Equitable Resources Energy Company  
Yates Petro Corp

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	



# EQUITABLE RESOURCES ENERGY COMPANY

**WESTERN REGION**

(406) 259-7860 Telephone

(406) 245-1361 Fax

December 10, 1997

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

Dear Lisha:

RE: Equitable Sale of Utah Properties

Effective September 30, 1997, Equitable Resources Energy Company sold all of its Utah properties to Inland Production Company.

Please feel free to contact me if you require additional information.

Sincerely,

Molly Conrad  
Agent for Equitable Resources  
Energy Company

/mc



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

TO: Lisha  
St of Utah.

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

Pages Attached - Including Cover Sheet 2.

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

**OPERATOR CHANGE WORKSHEET**

Routing	
1-DEC ✓	6-VFC ✓
2-GLH ✓	7-KAS ✓
3-DES ✓	8-SI ✓
4-VLD ✓	9-FILE ✓
5-JRB ✓	

Attach all documentation received by the division regarding this change.  
Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (well sold)       Designation of Agent  
 Designation of Operator       Operator Name Change Only

The operator of the well(s) listed below has changed, effective: 9-30-97

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

WELL(S) attach additional page if needed:

Name: <b>**SEE ATTACHED**</b>	API: <u>43-013-31647</u>	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____

**OPERATOR CHANGE DOCUMENTATION**

- JEC 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)*
- JEC 2. (r649-8-10) Sundry or other legal documentation has been received from the NEW operator (Attach to this form). *(Rec'd 10-20-97)*
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is the company registered with the state? (yes/no) \_\_\_\_\_ If yes, show company file number: \_\_\_\_\_
- JEC 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.
- JEC 5. Changes have been entered in the Oil and Gas Information System (3270) for each well listed above. *(12-2-97)*
- JEC 6. Cardex file has been updated for each well listed above. *(12-3-97)*
- JEC 7. Well file labels have been updated for each well listed above. *(12-3-97)*
- JEC 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. *(12-3-97)*
- JEC 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**

- Jec 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  
Jec 1. (r649-3-1) The NEW operator of any fee lease well listed above has furnished a proper bond.
2. A copy of this form has been placed in the new and former operator's bond files.
3. The FORMER operator has requested a release of liability from their bond (yes/no)    , as of today's date    . If yes, division response was made to this request by letter dated    .

**LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY**

- N/A  
ΔTS 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  
12/5/97 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**

- Jec 1. All attachments to this form have been microfilmed. Today's date: 1.7.98.

**FILING**

1. Copies of all attachments to this form have been filed in each well file.
2. The original of this form, and the original attachments are now being filed in the Operator Change file.

**COMMENTS**

971202 Blm/Vernal Aprv. Nov. 10, 13 & 20, 1997.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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

## MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

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

UTAH ACCOUNT NUMBER: N9890

REPORT PERIOD (MONTH/YEAR): 9 / 97

AMENDED REPORT  (Highlight Changes)

Well Name API Number	Entity	Location	Producing Zone	Well Status	Days Oper	Production Volumes		
						OIL(BBL)	GAS(MCF)	WATER(BBL)
MONUMENT FEDERAL 41-18-9-16Y 4301331646	11941	09S 16E 18	GRRV			U74390		
MONUMENT FEDERAL 13-22-8-17Y 4301331583	11942	08S 17E 22	GRRV			U67845		
MONUMENT FEDERAL 42-6-9-16Y 4301331645	11947	09S 16E 6	GRRV			U74390		
MONUMENT FEDERAL 32-22-8-17 4301331586	11959	08S 17E 22	GRRV			U67845		
MONUMENT FEDERAL 43-6-9-16Y 4301331644	11960	09S 16E 6	GRRV			U74390		
MONUMENT FEDERAL 22-20-9-16 4301331681	11961	09S 16E 20	GRRV			U52018		
CRON MONUMENT FEDERAL 14-4 4301331666	11965	09S 16E 4	GRRV			U034217A		
MONUMENT FEDERAL 11-22-9-16Y 4301331647	11986	09S 16E 22	GRRV			U64379		
MONUMENT FEDERAL 31-5-9-17 4301331680	11987	09S 17E 5	GRRV			U74808		
MONUMENT FEDERAL 24-17-9-16 4301331682	11994	09S 16E 17	GRRV			U52018		
MONUMENT STATE 11-2-9-17CD 4301331685	11995	09S 17E 2	GRRV			ML45555		
MONUMENT STATE 32-2 4304732737	12000	09S 17E 2	GRRV			"		
MONUMENT FEDERAL 23-7-9-16Y 4301331694	12019	09S 16E 7	GRRV			UTU 74390		
<b>TOTALS</b>								

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

I hereby certify that this report is true and complete to the best of my knowledge. Date: \_\_\_\_\_  
 Name and Signature: \_\_\_\_\_ Telephone Number: \_\_\_\_\_



## 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



# 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

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		



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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

**SUBMIT IN TRIPLICATE - Other Instructions on reverse side**

1. Type of Well  
 Oil Well    Gas Well    Other

2. Name of Operator  
 NEWFIELD PRODUCTION COMPANY

3a. Address    Route 3 Box 3630  
 Myton, UT 84052

3b. Phone    (include are code)  
 435.646.3721

4. Location of Well    (Footage, Sec., T., R., M., or Survey Description)  
 957 FNL 832 FWL  
 NWNW Section 22 T9S R16E

5. Lease Serial No.  
 UTU-64379

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

8. Well Name and No.  
 MON FED 11-22-9-16 Y

9. API Well No.  
 4301331647

10. Field and Pool, or Exploratory Area  
 MONUMENT BUTTE

11. County or Parish, State  
 DUCHESNE, UT

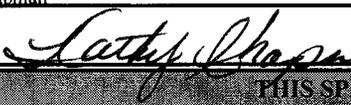
12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production(Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input checked="" type="checkbox"/> Temporarily Abandon	_____
	<input type="checkbox"/> Convert to	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	_____

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Newfield requests a change of status to TA this well. Newfield plans to Re-Complete this well in the near future in the following intervals.  
 Acidize and scale squeeze.

Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
 For Record Only

I hereby certify that the foregoing is true and correct (Printed/ Typed) Kathy Chapman	Title Office Manager
Signature 	Date 01/30/2008

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by _____	Title _____	Date _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		
Office _____		

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

**RECEIVED**

**FEB 06 2008**

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

<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-64379
<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 11-22-9-16Y
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY	<b>9. API NUMBER:</b> 43013316470000
<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> 0957 FNL 0832 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNW Section: 22 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>11/19/2013</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:  
 B-2 4872-4885 with in the current production formation (Green River).

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

**Date:** November 21, 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> 11/19/2013	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<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>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-64379
		<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 11-22-9-16Y
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>9. API NUMBER:</b> 43013316470000
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0957 FNL 0832 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNW Section: 22 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 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 type="text"/>
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 6/17/2014			
<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 06/16/2014. On 06/13/2014 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 06/17/2014 the casing was pressured up to 1394 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: \_\_\_\_\_

By: Lucy Chavez-Naupoto

NAME (PLEASE PRINT)

Lucy Chavez-Naupoto

PHONE NUMBER

435 646-4874

TITLE

Water Services Technician

SIGNATURE

N/A

DATE

6/25/2014

# Mechanical Integrity Test Casing or Annulus Pressure Test

Newfield Production Company  
Rt. 3 Box 3630  
Myton, UT 84052  
435-646-3721

Witness: \_\_\_\_\_ Date 6/17/14 Time 6:40 am pm

Test Conducted by: R. G. Bush

Others Present: \_\_\_\_\_

<b>Well:</b> Monument Field 11-22-9-16	<b>Field:</b> Monument + Butte
<b>Well Location:</b> Monument Butte 11-22-9-16 1000 NW/4th, Sec 22-T43, R16E Duchesne County Utah	<b>API No:</b> 4301331647

<u>Time</u>	<u>Casing Pressure</u>	
0 min	<u>1394</u>	psig
5	<u>1394</u>	psig
10	<u>1395</u>	psig
15	<u>1394</u>	psig
20	<u>1395</u>	psig
25	<u>1394</u>	psig
30 min	<u>1394</u>	psig
35	_____	psig
40	_____	psig
45	_____	psig
50	_____	psig
55	_____	psig
60 min	_____	psig

Tubing pressure: 0 psig

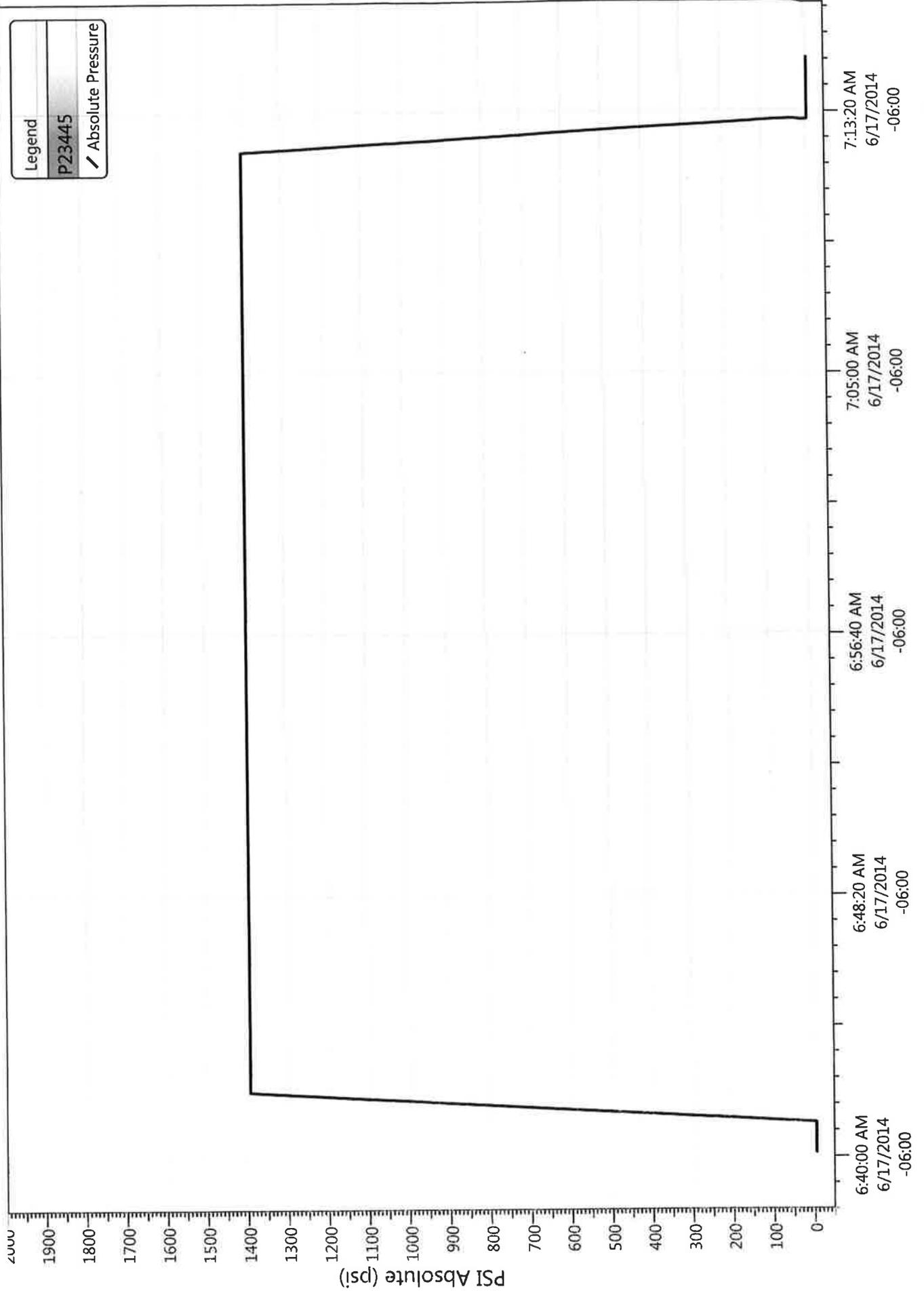
Result: **Pass** **Fail**

Signature of Witness: \_\_\_\_\_

Signature of Person Conducting Test: R. G. Bush

Monument Federal 11 -22-9-16 (con

6/17/2014 6:39:59 AM



Legend

P23445

✓ Absolute Pressure



Well Name: Mon 11-22-9-16

### Job Detail Summary Report

Primary Job Type Conversion	Job Start Date 6/12/2014	Job End Date 6/17/2014
--------------------------------	-----------------------------	---------------------------

Daily Operations		Start Time	End Time	Comment
Report Start Date 6/12/2014	Report End Date 6/12/2014	24hr Activity Summary MOVE RIG		
Start Time	17:00	19:00	MOVE RIG FROM LAMB 4-11-4-1W 20 MILES TO 11-22-9-16	
Report Start Date 6/13/2014	Report End Date 6/13/2014	24hr Activity Summary SPOT IN RIG, REMOVE HORSE HEAD, LD RODS, TOOH TBG		
Start Time	06:00	07:00	CREW TRAVEL & JSA	
Start Time	07:00	08:00	SPOT IN RIG UP	
Start Time	08:00	08:30	Remove horse head. change over to rod equip. pump 40bbbls down CSG with HO.	
Start Time	08:30	09:30	Unseat pump flush TBG with 30 bbbls @ 500psi	
Start Time	09:30	10:00	Soft seat pump remove flow tee hook up HO. Pressure test to 3000psi. Good test	
Start Time	10:00	13:30	POOH lay down rods. stop to flush 3 times 15 bbbls each. Strip on rod stripping table pooh w rods	
Start Time	13:30	14:30	Change over to TBG equip. ND well head release TAC. NU BOPS	
Start Time	14:30	19:00	POOH break & dope collars & tally 65 stds to derrick. Shut well in SDFN.	
Start Time	19:00	20:00	CREW TRAVEL	
Report Start Date 6/16/2014	Report End Date 6/16/2014	24hr Activity Summary POOH TBG, MU BHA, RD WORKFLOOR, ND BOP, NU B1 FLANGE		
Start Time	06:00	07:00	CREW TRAVEL & JSA	
Start Time	07:00	07:30	Check pressures TBG 0 psi CSG 50 psi. Bleed off well	
Start Time	07:30	08:30	POOH with TBG Lay down 30 JIs	
Start Time	08:30	10:00	M.U. BHA RIH with packer	
Start Time	10:00	10:30	Pump 15 bbl pad drop standing valve pressure test to 3000psi.	
Start Time	10:30	13:30	Pressure gain 300psi bleed back TBG pump back up to 3000psi. watch until no loss no gain good test	
Start Time	13:30	14:30	Rig up sandline fish standing valve	
Start Time	14:30	15:00	Rig down work floor ND BOPS. NU b1 flange	
Start Time	15:00	15:30	Rig up hot oiler pump 50bbbls packer fluid w/ johnson fresh	
Start Time	15:30	16:00	Set packer NU injection valve. pressure test CSG to 1400psi	
Start Time	16:00	18:30	Bleed off CSG tighten well head pump back to 1500psi. CSG loss 20psi every 30 min. leave pressure on CSG check in morning SDFN.	



Well Name: Mon 11-22-9-16

### Job Detail Summary Report

Start Time	18:30	End Time	19:30	Comment
Report Start Date	6/17/2014	Report End Date	6/17/2014	CREW TRAVEL
Start Time	06:40	End Time	07:10	Comment
Report Start Date	6/17/2014	Report End Date	6/17/2014	On 06/13/2014 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 06/17/2014 the casing was pressured up to 1394 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.

**NEWFIELD**

**Schematic**

**Well Name: Mon 11-22-9-16**

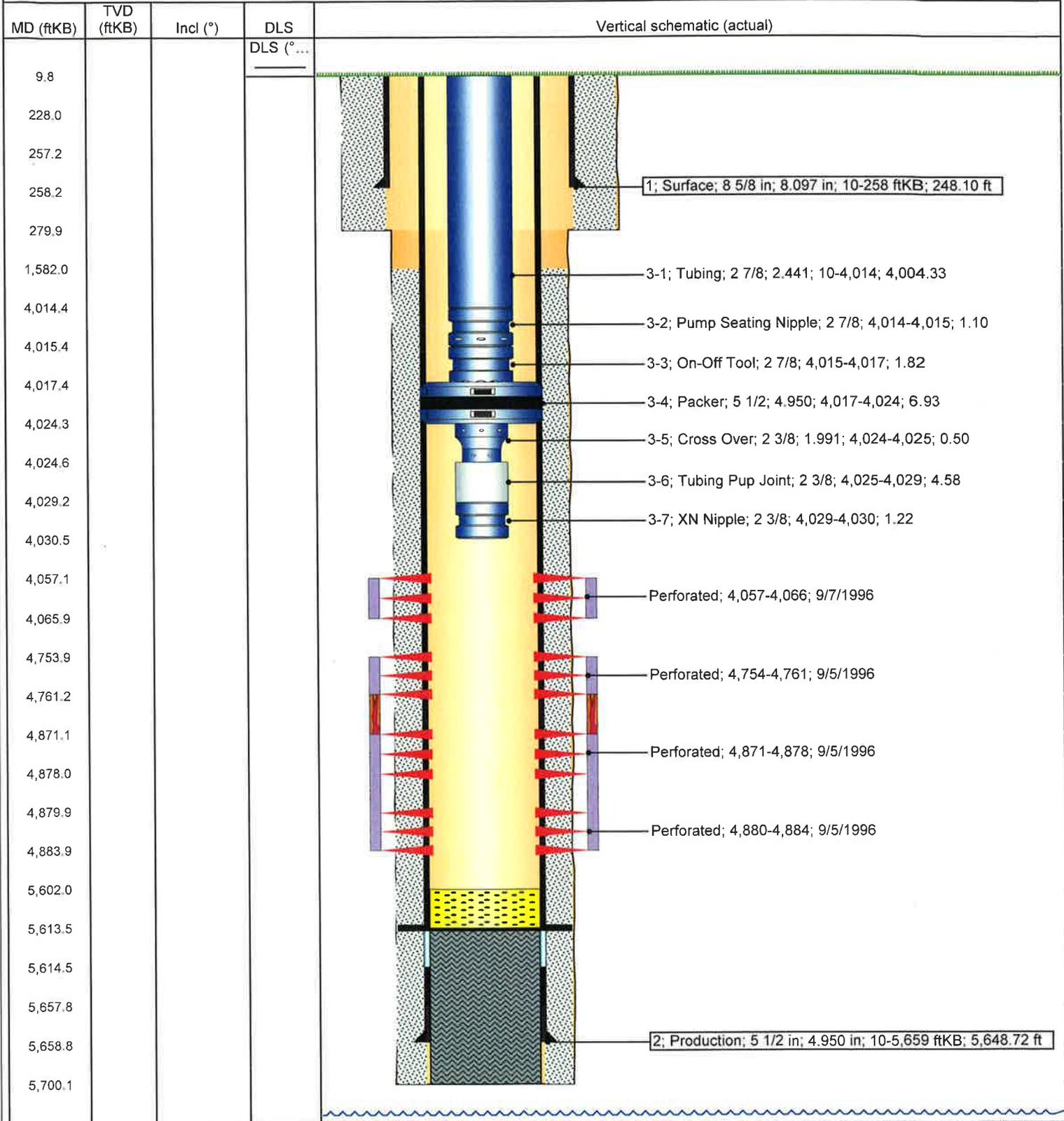
Surface Legal Location 22-9S-16E		API/UWI 43013316470000	Well RC 500151005	Lease	State/Province Utah	Field Name GMBU CTB6	County DUCHESNE
Spud Date 8/19/1996	Rig Release Date 8/27/1996	On Production Date 9/26/1996	Original KB Elevation (ft) 5,927	Ground Elevation (ft) 5,917	Total Depth All (TVD) (ftKB)	PBTD (All) (ftKB) Original Hole - 5,613.5	

**Most Recent Job**

Job Category Production / Workover	Primary Job Type Conversion	Secondary Job Type Basic	Job Start Date 6/12/2014	Job End Date 6/17/2014
---------------------------------------	--------------------------------	-----------------------------	-----------------------------	---------------------------

**TD: 5,700.0**

Vertical - Original Hole, 6/24/2014 8:22:18 AM



**NEWFIELD****Newfield Wellbore Diagram Data  
Mon 11-22-9-16**

Surface Legal Location 22-9S-16E		API/UWI 43013316470000		Lease	
County DUCHESNE		State/Province Utah		Field Name GMBU CTB6	
Well Start Date 8/19/1996		Spud Date 8/19/1996		Final Rig Release Date 8/27/1996	
Original KB Elevation (ft) 5,927		Ground Elevation (ft) 5,917		Total Depth (ftKB) 5,700.0	
				Total Depth All (TVD) (ftKB) PBTd (All) (ftKB) Original Hole - 5,613.5	

**Casing Strings**

Csg Des	Run Date	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	Set Depth (ftKB)
Surface	8/19/1996	8 5/8	8.097	24.00	J-55	258
Production	8/27/1996	5 1/2	4.950	15.50	J-55	5,659

**Cement****String: Surface, 258ftKB 8/19/1996**

Cementing Company		Top Depth (ftKB) 10.0	Bottom Depth (ftKB) 280.0	Full Return?	Vol Cement Ret (bbl)
Fluid Description +2% CaCl + 1/4#/sx Cello Flake		Fluid Type Lead	Amount (sacks) 160	Class G	Estimated Top (ftKB) 10.0

**String: Production, 5,659ftKB 8/27/1996**

Cementing Company		Top Depth (ftKB) 1,582.0	Bottom Depth (ftKB) 5,700.0	Full Return?	Vol Cement Ret (bbl)
Fluid Description + 3% Salt + 2% gel + 2#/sx Kolsel + 1/4#/sx Cello Flake		Fluid Type Lead	Amount (sacks) 170	Class G	Estimated Top (ftKB) 1,582.0
Fluid Description + 2% gel + 1/4#/sx Kolsel		Fluid Type Tail	Amount (sacks) 370	Class 50/50 Poz	Estimated Top (ftKB) 3,000.0

**Tubing Strings**

Tubing Description					Run Date	Set Depth (ftKB)			
Tubing					6/16/2014	4,030.5			
Item Des	Jts	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)	
Tubing	128	2 7/8	2.441	6.50	J-55	4,004.33	10.0	4,014.3	
Pump Seating Nipple	1	2 7/8				1.10	4,014.3	4,015.4	
On-Off Tool		2 7/8				1.82	4,015.4	4,017.3	
Packer		5 1/2	4.950			6.93	4,017.3	4,024.2	
Cross Over		2 3/8	1.991			0.50	4,024.2	4,024.7	
Tubing Pup Joint		2 3/8				4.58	4,024.7	4,029.3	
XN Nipple		2 3/8				1.22	4,029.3	4,030.5	

**Rod Strings**

Rod Description					Run Date	Set Depth (ftKB)				
Item Des	Jts	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)			

**Other In Hole**

Des	Top (ftKB)	Btm (ftKB)	Run Date	Pull Date
Fill	5,602	5,613	5/16/2008	

**Perforation Intervals**

Stage#	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Phasing (°)	Nom Hole Dia (in)	Date
2	GB4, Original Hole	4,057	4,066	4			9/7/1996
1	C, Original Hole	4,754	4,761	2			9/5/1996
1	B2, Original Hole	4,871	4,878	2			9/5/1996
1	B2, Original Hole	4,880	4,884	2			9/5/1996

**Stimulations & Treatments**

Stage#	ISIP (psi)	Frac Gradient (psi/ft)	Max Rate (bbl/min)	Max PSI (psi)	Total Clean Vol (bbl)	Total Slurry Vol (bbl)	Vol Recov (bbl)
1	2,100						
2	1,600						
3	1,657						
4	1,470						
5	2,010						

**Proppant**

Stage#	Total Prop Vol Pumped (lb)	Total Add Amount
1		Proppant White Sand 80100 lb
2		Proppant White Sand 39000 lb
3		
4		
5		

<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: UTU-64379
1. TYPE OF WELL Oil 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 11-22-9-16Y
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0957 FNL 0832 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 22 Township: 09.0S Range: 16.0E Meridian: S	9. API NUMBER: 43013316470000
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: 7/31/2014	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input checked="" type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input checked="" type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

The above reference well was put on injection at 8:15 AM on 07/31/2014.

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

Date: August 19, 2014

By: 

NAME (PLEASE PRINT) Lucy Chavez-Naupoto	PHONE NUMBER 435 646-4874	TITLE Water Services Technician
SIGNATURE N/A	DATE 8/1/2014	



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-418

**Operator:** Newfield Production Company  
**Well:** Monument Federal 11-22-9-16Y  
**Location:** Section 22, Township 9 South, Range 16 East  
**County:** Duchesne  
**API No.:** 43-013-31647  
**Well Type:** Enhanced Recovery (waterflood)

### Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on April 14, 2014.
2. Maximum Allowable Injection Pressure: 1,268 psig
3. Maximum Allowable Injection Rate: (restricted by pressure limitation)
4. Injection Interval: Green River Formation (3,911' – 5,614')
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

7/20/14  
Date

JR/MLR/js

cc: Bruce Suchomel, Environmental Protection Agency  
Bureau of Land Management, Verna  
SITLA  
Jill Loyle, Newfield Production Company, Denver  
Newfield Production Company, Myton  
Duchesne County  
Well File

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





**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

April 14, 2014

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

Subject: Greater Monument Butte Unit Well: Monument Federal 11-22-9-16Y, Section 22, Township 9 South, Range 16 East, SLBM, Duchesne County, Utah, API Well # 43-013-31647

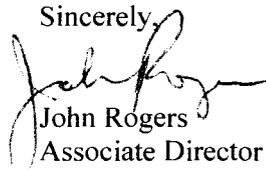
Newfield Production Company:

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 3,911 feet in the Monument Federal 11-22-9-16Y well.

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

Sincerely,

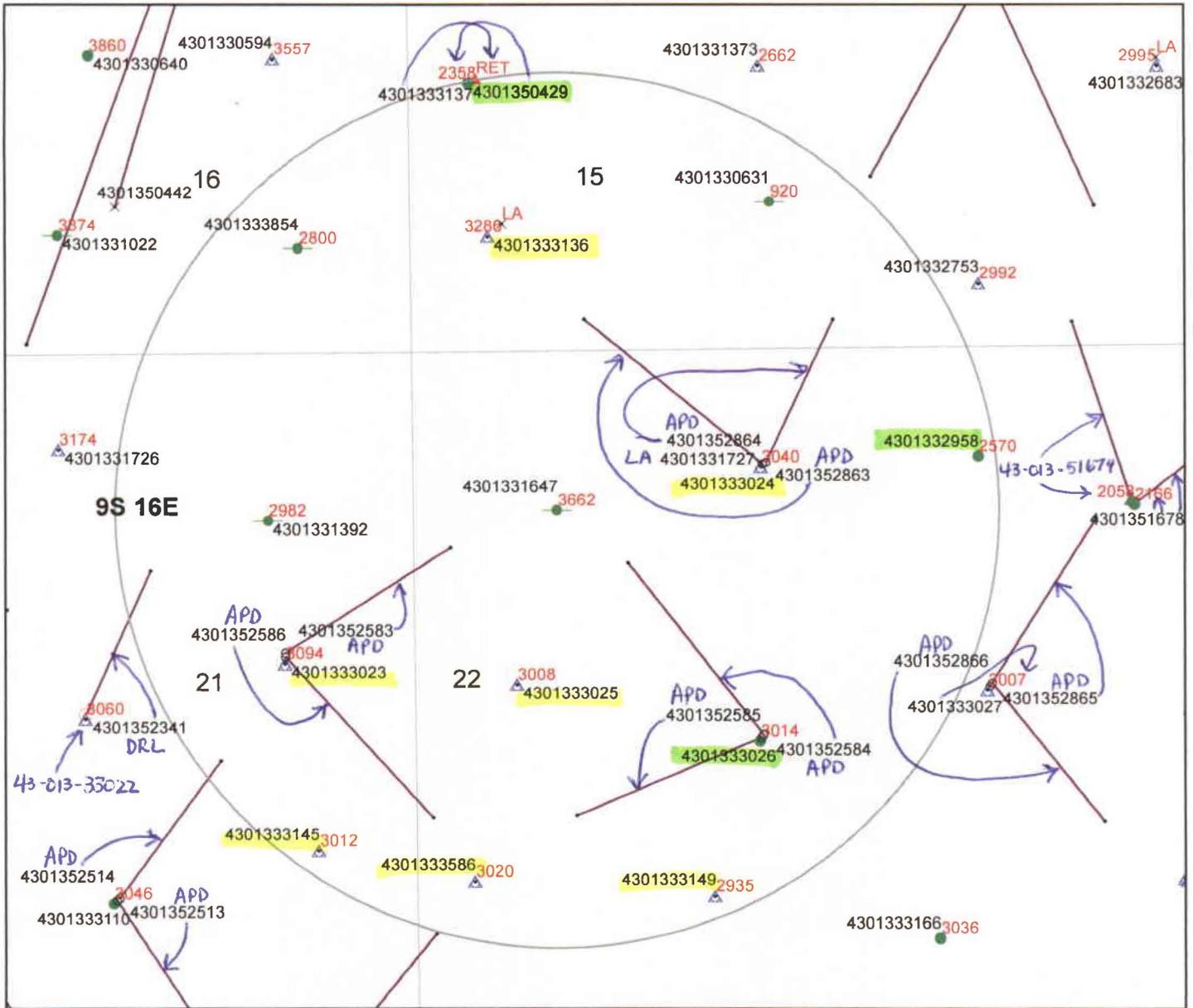
  
John Rogers  
Associate Director

JR/MLR/js

cc: Bruce Suchomel, Environmental Protection Agency  
Bureau of Land Management, Vernal  
SITLA  
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>OS</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 *in AOR*
- ▲ RET-Returned APD
- ⊙ SGW-Shut-in Gas Well
- SOW-Shut-in Oil Well
- ⊗ TA-Temp Abandoned
- TW-Test Well
- ⊙ WDW-Water Disposal Well
- ▲ WIW-Water Injection Well *in AOR*
- WSW-Water Supply Well

**Cement Bond Tops  
Monument Federal 11-22-9-16Y  
API #43-013-31647  
UIC-41813**



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

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

**Applicant:** Newfield Production Company      **Well:** Monument Federal 11-22-9-16Y

**Location:** 22/9S/16E      **API:** 43-013-31647

**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 and the State of Utah. The Federal Government and the State of Utah are the mineral owners 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 leaseholders 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 258 feet and has a cement top at the surface. A 5½ inch production casing is set at 5,659 feet. The cement bond log is somewhat problematic but appears to demonstrate adequate bond in this well up to about 3,662 feet or higher. A 2 7/8 inch tubing with a packer will be set at 4,007 feet. Higher perforations may be opened at a later date. A mechanical integrity test will be run on the well prior to injection. On the basis of surface locations, there are 3 producing wells, 7 injection wells, and 4 shut-in wells in the AOR. There is currently 1 directional well being drilled from a surface location outside the AOR to a bottom hole location inside the AOR. Finally, there is 1 approved surface location outside the AOR, from which a directional well will be drilled to a bottom hole location inside the AOR. All existing wells within the AOR 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 3,911 feet and 5,614 feet in the Green River Formation. Information submitted by Newfield indicates that the fracture gradient for the 11-22-9-16Y well is 0.70 psi/ft., which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 1,268 psig. The requested maximum pressure is 1,268 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 groundwater present should be adequately protected.

**Monument Federal 11-22-9-16**

**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: 4/11/2014

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

MEDIAOne

Deseret News

PROOF OF PUBLICATION

CUSTOMER'S COPY

CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	DATE
DIV OF OIL-GAS & MINING, Rose Nolton 1594 W NORTH TEMP #1210 P.O. BOX 145801 SALT LAKE CITY, UT 84114	900	

ACCOUNT NAME	
DIV OF OIL-GAS & MINING,	
TELEPHONE	ADORDER# / INVOICE #
8015385340	0000941195 /
SCHEDULE	
Start 02/22/2014	End 02/22/2014
CUST. REF. NO.	
Newfield Cause UIC-418	
CAPTION	
BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATU	
SIZE	
96 Lines	2.00 COLUMN
TIMES	RATE
3	
MISC. CHARGES	AD CHARGES
TOTAL COST	
327.56	

RECEIVED  
MAR 05 2014  
DIV OF OIL GAS & MINING

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-418

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 25 and 26, TOWNSHIP 9 SOUTH, RANGE 15 EAST, and SECTIONS 9, 13, 16, 17, 20, 22, and 23, 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 14-25-9-15 well located in SE/4 SW/4, Section 25, Township 9 South, Range 15 East  
API 43-013-32912  
Ashley Federal 16-25-9-15 well located in SE/4 SE/4, Section 25, Township 9 South, Range 15 East  
API 43-013-32951  
Ashley Federal 14-26-9-15 well located in SE/4 SW/4, Section 26, Township 9 South, Range 15 East  
API 43-013-32907  
Ashley Federal 16-26-9-15 well located in SE/4 SE/4, Section 26, Township 9 South, Range 15 East  
API 43-013-32913  
Federal 14-9-9-16 well located in SE/4 SW/4, Section 9, Township 9 South, Range 16 East  
API 43-013-33053  
South Wells Draw 16-9-9-16 well located in SE/4 SE/4, Section 9, Township 9 South, Range 16 East  
API 43-013-32044  
Federal 2-13-9-16 well located in NW/4 NE/4, Section 13, Township 9 South, Range 16 East  
API 43-013-32659  
Federal 8-13-9-16 well located in SE/4 NE/4, Section 13, Township 9 South, Range 16 East  
API 43-013-32655  
Federal 14-15-9-16 well located in SE/4 SW/4, Section 13, Township 9 South, Range 16 East  
API 43-013-32649  
State 16-1-0 well located in SW/4 SE/4, Section 16, Township 9 South, Range 16 East  
API 43-013-31022  
Federal 9-17-9-16 well located in NE/4 SE/4, Section 17, Township 9 South, Range 16 East  
API 43-013-33032  
Federal 10-20-9-16 well located in NW/4 SE/4, Section 20, Township 9 South, Range 16 East  
API 43-013-33108  
Monument Federal 11-22-9-16Y well located in NW/4 NW/4, Section 22, Township 9 South, Range 16 East  
API 43-013-31647  
Federal 7-23 well located in SW/4 NE/4, Section 23, Township 9 South, Range 16 East  
API 43-013-30662

The proceeding will be conducted in accordance with Utah Admin. R049-10, 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 intervenors should be prepared to demonstrate at the hearing how this matter affects their interests.

AFFIDAVIT OF PUBLICATION

AS NEWSPAPER AGENCY COMPANY, LLC dba MEDIAONE OF UTAH LEGAL BOOKER, I CERTIFY THAT BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET NEWS ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN UTAH, AND PUBLISHED IN SALT LAKE CITY, UTAH, NOTICE IS ALSO POSTED ON UTAHLEGALS.COM ON THE SAME DAY AS THE FIRST NEWSPAPER PUBLICATION IN UTAH ON UTAHLEGALS.COM INDEFINATELY. COMPLIES WITH UTAH DIGITAL SIGNATURE ACT UTAH CODE 46-2-101, 46-3-104.

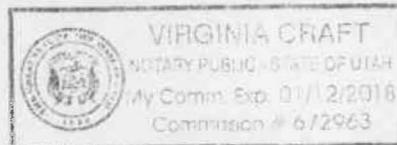
Dated this 18th day of February, 2014.  
STATE OF UTAH  
DIVISION OF OIL, GAS & MINING  
/s/  
Brad Hill  
Permitting Manager

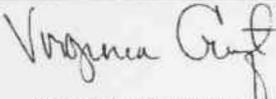
PUBLISHED ON Start 02/22/2014 End 02/22/2014

SIGNATURE 

DATE 2/25/2014

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



  
NOTARY SIGNATURE

2250/REB/GG/UC ADMIN/GF13/6131

# AFFIDAVIT OF PUBLICATION

County of Duchesne,  
STATE OF UTAH

I, Kevin Ashby on oath, say that I am the PUBLISHER of the Uintah Basin Standard, a weekly newspaper of general circulation, published at Roosevelt, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue such newspaper for 1 consecutive issues, and that the first publication was on the 25 day of February, 20 14, and that the last publication of such notice was in the issue of such newspaper dated the 25 day of February, 20 14, 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.

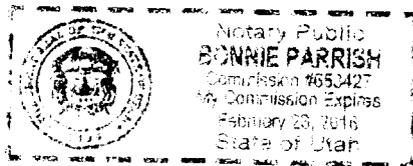
  
\_\_\_\_\_  
Publisher

Subscribed and sworn to before me on this

26 day of February, 20 14

by Kevin Ashby.

  
\_\_\_\_\_  
Notary Public



**BEFORE THE  
DIVISION  
OF OIL, GAS  
AND MINING,  
DEPART-  
MENT OF  
NATURAL  
RESOURCES,  
STATE OF  
UTAH,  
NOTICE OF  
AGENCY  
ACTION,  
CAUSE NO.  
UIC-418**

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 25 and 26, TOWNSHIP 9 SOUTH, RANGE 15 EAST, and SECTIONS 9, 13, 16, 17, 20, 22, and 23, 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, tele-

25-9-15 well located in SE/4 SE/4, Section 25, Township 9 South, Range 15 East API 43-013-32951 Ashley Federal 14-26-9-15 well located in SE/4 SW/4, Section 26, Township 9 South, Range 15 East API 43-013-32907 Ashley Federal 16-26-9-15 well located in SE/4 SE/4, Section 26, Township 9 South, Range 15 East API 43-013-32913 Federal 14-9-9-16 well located in SE/4 SW/4, Section 9, Township 9 South, Range 16 East API 43-013-33053 South Wells Draw 16-9-9-16 well located in SE/4 SE/4, Section 9, Township 9 South, Range 16 East API 43-013-32044 Federal 2-13-9-16 well located in NW/4 NE/4, Section 13, Township 9 South, Range 16 East API 43-013-32659 Federal 8-13-9-16 well located in SE/4 NE/4, Section 13, Township 9 South, Range 16 East API 43-013-32655 Federal 14-13-9-16 well located in SE/4 SW/4, Section 13, Township 9 South, Range 16 East API 43-013-32649 State 16-1-O well located in SW/4 SE/4, Section 16, Township 9 South, Range 16 East API 43-013-31022 Federal 9-17-9-16 well located in NE/4 SE/4, Section 17, Township 9 South, Range 16 East API 43-013-33032 Federal 10-20-9-16 well located in NW/4 SE/4, Section 20, Township 9 South, Range 16 East API 43-013-33108 Monument Federal 11-22-9-16Y well located in NW/4 NW/4, Section 22, Township

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 ad-  
ministrative procedur-  
al rules. Protestants  
and/or interveners  
should be prepared  
to demonstrate at  
the hearing how this  
matter affects their  
interests.

Dated this 18th day  
of February, 2014.

STATE OF UTAH  
DIVISION OF  
OIL, GAS & MIN-  
ING

/s/  
Brad Hill  
Permitting Man-  
ager

Published in the  
Utah Basin Stan-  
dard February 25, 2014.

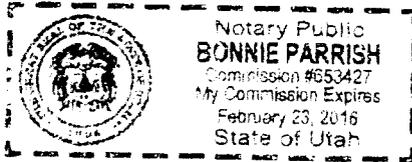
Formation will be  
used for water injec-  
tion. The maximum  
requested injection  
pressures and rates  
will be determined  
based on fracture  
gradient informa-  
tion submitted by  
Newfield Production  
Company.  
Any person  
desiring to object to  
the application or  
otherwise intervene  
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

26 day of February, 20 14

by Kevin Ashby.

*Bonnie Parrish*

Notary Public



IN SECTIONS 23  
 and 26, TOWNSHIP  
 9 SOUTH, RANGE  
 15 EAST, and  
 SECTIONS 9, 13,  
 16, 17, 20, 22, and  
 23, TOWNSHIP 9  
 SOUTH, RANGE 16  
 EAST, DUCHESNE  
 COUNTY, UTAH,  
 AS CLASS II INJEC-  
 TION WELLS.

THE STATE OF  
 UTAH TO ALL PER-  
 SONS INTERESTED  
 IN THE ABOVE  
 ENTITLED MAT-  
 TER.

Notice is hereby  
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 sion of Oil, Gas and  
 Mining (the "Divi-  
 sion") is commencing  
 an informal adjudi-  
 cative proceeding  
 to consider the ap-  
 plication of Newfield  
 Production Company,  
 1001 17th Street,  
 Suite 2000, Denver,  
 Colorado 80202, tele-  
 phone 303-893-0102,  
 for administrative  
 approval of the fol-  
 lowing wells located  
 in Duchesne County,  
 Utah, for conversion  
 to Class II injection  
 wells:

Greater Monument  
 Butte Unit:

Ashley Federal 14-  
 25-9-15 well located  
 in SE/4 SW/4, Sec-  
 tion 25, Township 9  
 South, Range 15 East  
 API 43-013-32912  
 Ashley Federal 16-

Range 16 East  
 API 43-013-32655  
 Federal 14-13-9-16  
 well located in SE/4  
 SW/4, Section 13,  
 Township 9 South,  
 Range 16 East  
 API 43-013-32649  
 State 16-1-O well  
 located in SW/4  
 SE/4, Section 16,  
 Township 9 South,  
 Range 16 East  
 API 43-013-31022  
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 API 43-013-33108  
 Monument Federal  
 11-22-9-16Y well lo-  
 cated in NW/4 NW/4,  
 Section 22, Township  
 9 South, Range 16  
 East  
 API 43-013-31647  
 Federal 7-23 well  
 located in SW/4  
 NE/4, Section 23,  
 Township 9 South,  
 Range 16 East  
 API 43-013-30662  
 The proceeding  
 will be conducted in  
 accordance with Utah  
 Admin. R649-10,  
 Administrative Proce-  
 dures.  
 Selected zones  
 in the Green River

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-418

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 25 and 26, TOWNSHIP 9 SOUTH, RANGE 15 EAST, and SECTIONS 9, 13, 16, 17, 20, 22, and 23, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

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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 14-25-9-15 well located in SE/4 SW/4, Section 25, Township 9 South, Range 15 East  
API 43-013-32912  
Ashley Federal 16-25-9-15 well located in SE/4 SE/4, Section 25, Township 9 South, Range 15 East  
API 43-013-32951  
Ashley Federal 14-26-9-15 well located in SE/4 SW/4, Section 26, Township 9 South, Range 15 East  
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API 43-013-32913  
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API 43-013-33053  
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Federal 7-23 well located in SW/4 NE/4, Section 23, Township 9 South, Range 16 East  
API 43-013-30662

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 18th day of February, 2014.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING



---

Brad Hill  
Permitting Manager

**Newfield Production Company**

**ASHLEY FEDERAL 14-25-9-15, ASHLEY FEDERAL 16-25-9-15,  
ASHLEY FEDERAL 14-26-9-15, ASHLEY FEDERAL 16-26-9-15,  
FEDERAL 14-9-9-16, SOUTH WELLS DRAW 16-9-9-16,  
FEDERAL 2-13-9-16, FEDERAL 8-13-9-16, FEDERAL 14-13-9-16,  
STATE 16-1-O, FEDERAL 9-17-9-16, FEDERAL 10-20-9-16,  
MONUMENT FEDERAL 11-22-9-16Y, FEDERAL 7-23.**

**Cause No. UIC-418**

Publication Notices were sent to the following:

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

SITLA  
675 E 500 S Ste 500  
Salt Lake City, UT 84102-2818

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

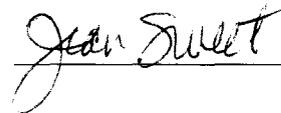
Duchesne County Planning  
P O Box 317  
Duchesne, UT 84021-0317

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

  
\_\_\_\_\_



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

February 20, 2014

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-418

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



Jean Sweet <jsweet@utah.gov>

---

**Re: Notice of Agency Action - Newfield Production Company Cause No. UIC-418**

---

**UB Standard Legals** <ubslegals@ubmedia.biz>  
To: Jean Sweet <jsweet@utah.gov>

Thu, Feb 20, 2014 at 3:52 PM

On 2/20/2014 9:52 AM, Jean Sweet wrote:

To Whom It May Concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: jsweet@utah.gov.

Please send proof of publication and billing to:

Division of Oil, Gas and Mining

PO Box 145801

Salt Lake City, UT 84114-5801

Sincerely,

—  
Jean Sweet  
Executive Secretary  
Utah Division of Oil, Gas and Mining  
801-538-5329

Received. It will be published Feb. 25.  
Thank you.  
Cindy



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

February 20, 2014

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-418

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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



**Order Confirmation for Ad #0000941195-01**

<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>\$327.56</b>	<b>Tear Sheets</b>	<b>Proofs</b>	<b>Affidavits</b>
<b>Payment Amt</b>	<b>\$0.00</b>			
<b>Amount Due</b>	<b>\$327.56</b>	0	0	1
<b>Payment Method</b>		<b>PO Number</b>	Newfield Cause UIC-4	
<b>Confirmation Notes:</b>				
<b>Text:</b>	Jean			

<b>Ad Type</b>	<b>Ad Size</b>	<b>Color</b>
Legal Liner	2.0 X 96 Li	<NONE>

<u>Product</u>	<u>Placement</u>	<u>Position</u>
Salt Lake Tribune::	Legal Liner Notice - 0998	998-Other Legal Notices
<b>Scheduled Date(s):</b>	2/22/2014	
<u>Product</u>	<u>Placement</u>	<u>Position</u>
Deseret News::	Legal Liner Notice - 0998	998-Other Legal Notices
<b>Scheduled Date(s):</b>	2/22/2014	
<u>Product</u>	<u>Placement</u>	<u>Position</u>
utahlegals.com::	utahlegals.com	utahlegals.com
<b>Scheduled Date(s):</b>	2/22/2014	

**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-418**

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 25 and 26, TOWNSHIP 9 SOUTH, RANGE 15 EAST, and SECTIONS 9, 15, 16, 17, 20, 22, and 23, TOWNSHIP 9 SOUTH, RANGE 16 EAST, JUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

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- Greater Monument Butte Unit:
- Astley Federal 14-25-9-15 well located in SE 4 SW 4, Section 25, Township 9 South, Range 15 East  
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API 43-013-32659
  - Federal 9-13-9-16 well located in SE 4 NE 4, Section 13, Township 9 South, Range 16 East  
API 43-013-32655
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API 43-013-32649
  - Shore 16-1-10 well located in SW 4 SE 4, Section 16, Township 9 South, Range 16 East  
API 43-013-31022
  - Federal 9-17-9-16 well located in NE 4 SE 4, Section 17, Township 9 South, Range 16 East  
API 43-013-33032
  - Federal 10-20-9-16 well located in NW 4 SE 4, Section 20, Township 9 South, Range 16 East  
API 43-013-33108
  - Monument Federal 11-22-9-16Y well located in NW 4 NW 4, Section 22, Township 9 South, Range 16 East  
API 43-013-31647
  - Federal 7-23 well located in SW 4 NE 4, Section 23, Township 9 South, Range 16 East  
API 43-013-30662

The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

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Dated this 18th day of February, 2014.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING  
s  
Brad Hill  
Permitting Manager

941195

LPAJXP

**NEWFIELD**



**RECEIVED**

FEB 10 2014

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

**Newfield Exploration Company**

1001 17th Street | Suite 2000

Denver, Colorado 80202

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

February 7, 2014

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 #11-22-9-16Y  
Monument Butte Field, Lease #UTU-64379  
Section 22-Township 9S-Range 16E  
Duchesne County, Utah

Dear Mr. Reinbold:

Newfield Production Company herein requests approval to convert the Monument Federal #11-22-9-16Y 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,

  
Jill L. Loyle  
Regulatory Associate

**NEWFIELD PRODUCTION COMPANY**  
**APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL**  
**MONUMENT FEDERAL #11-22-9-16Y**  
**MONUMENT BUTTE FIELD (GREEN RIVER) FIELD**  
**LEASE #UTU-64379**  
**FEBRUARY 7, 2014**

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# Monument Federal #11-22

Spud Date:

Put on Production: 9/26/1996

GL: 5917' KB: 5927'

## Proposed Injection Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8 5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 jts. (248.10')

DEPTH LANDED: 258.10' KB

HOLE SIZE: 12 1/4"

CEMENT DATA: 160sxs Class "G" mixed cmt, est 5 bbls cmt to surf.

### PRODUCTION CASING

CSG SIZE: 5 1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 145 jts. (5648.71')

DEPTH LANDED: 5658.71' KB

HOLE SIZE: 7 7/8"

CEMENT DATA: 325 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ mix.

CEMENT TOP AT: 474'

### TUBING

SIZE/GRADE/WT.: 2 7/8" / J-55 / 6.5#

NO. OF JOINTS: 155 jts (4848.93')

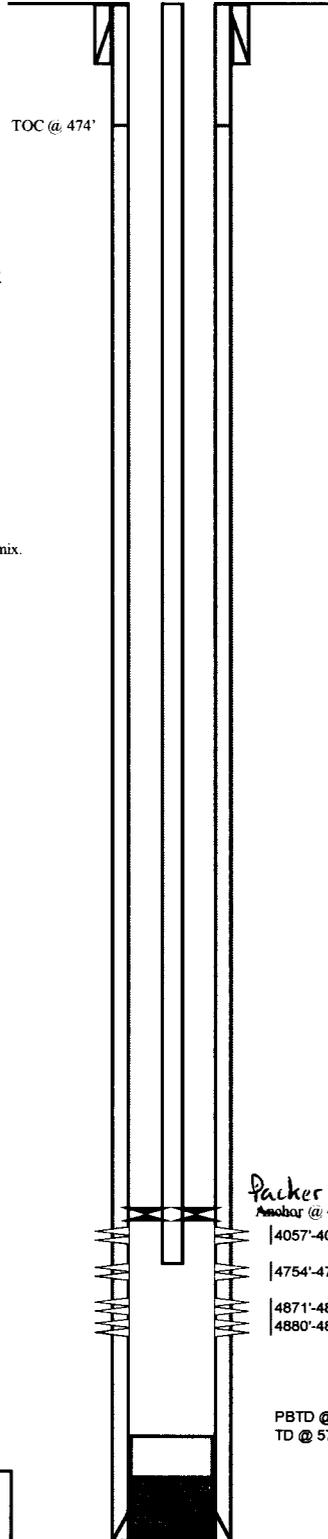
NO. OF JOINTS: 2jts (62.78)

SEATING NIPPLE: 2 7/8" (1.10')

SN LANDED AT: 4924.51' KB

NO. OF JOINTS: 1jts (31.45)

TOTAL STRING LENGTH: EOT @ 4957.51' w/ 12' KB



### ACID JOB /BREAKDOWN

9/6/96 4754'-4761' BJ Services: 1428 gal 2% KCL  
4871'-4878' water w/ 28 ball sealers. Balled  
4880'-4884' off. ATP= 1900 psi, ATR= 3.0 bpm,  
ISIP= 1400 psi.

9/6/96 4871'-4878' BJ Services: 1596 gal 2% KCL  
4880'-4884' water w/ 44 ball sealers. Balled  
off. ATP= 1600 psi, ATR= 3.0 bpm,  
ISIP= 1300 psi.

9/7/96 4057'-4066' BJ Services: 2268 gal 2% KCL  
water w/ 72 ball sealers. Ball  
action but no ball off. ATP= 2000 psi,  
ATR= 3.5 bpm, ISIP=1400 psi.

### FRAC JOB

9/7/96 4754'-4761' BJ Services: 24,402 gal 2%  
4871'-4878' KCL water w/ 80,100# 16/30  
4880'-4884' sand. ATP= 2200 psi, ATR=  
35.4 bpm, ISIP= 2100 psi,  
5 min=1780 psi, 10 min= 1690 psi,  
15 min= 1640 psi.

9/7/96 4057'-4066' BJ Services: 14,532 gal 2%  
KCL water w/ 39,000# 16/30  
sand. ATP= 2000 psi, ATR= 31.0 bpm,  
ISIP= 1600 psi, 5 min= 1400 psi,  
10 min= 1290 psi, 15 min= 1230 psi,  
30 min= 1130 psi.

### PERFORATION RECORD

Date	Company	Depth Range	SPF
9/5/96	Schlumberger	4754'-4761'	2 SPF
		4871'-4878'	2 SPF
		4880'-4884'	2 SPF
9/7/96	Schlumberger	4057'-4066'	4 SPF

3-20-08

Workover. Updated rod and tubing detail.

Packer  
Anobar @ 4007'

4057'-4066'

4754'-4761'

4871'-4878'

4880'-4884'

PBTD @ 5614' KB

TD @ 5700' KB

**NEWFIELD**



**Monument Federal 11-22-9-16Y**

957' FNL & 832' FWL

NW/NW Section 22-T9S-R16E

Duchesne Co, Utah

API #43-013-31647; Lease #UTU-64379

## **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 #11-22-9-16Y 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 #11-22-9-16Y well, the proposed injection zone is from Garden Gulch to Castle Peak (3911' - 5614'). The confining strata directly above and below the injection zones are the Garden Gulch and the top of the Wasatch Formation or TD, whichever is shallower. The Garden Gulch Marker top is at 3587' and the TD is at 5700'.

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

The referenced log for the Monument Federal #11-22-9-16Y 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-64379) 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 258' KB, and 5-1/2", 15.5# casing run from surface to 5659' 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.

**2.8 The proposed average and maximum injection pressures.**

The proposed average injection pressure will be approximately 1100 psig and the maximum injection pressure will not exceed 1268 psig.

**2.9 Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.**

The minimum fracture gradient for the Monument Federal #11-22-9-16Y, for existing perforations (4057' - 4878') calculates at 0.70 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 1268 psig. We may add additional perforations between 3587' and 5700'. See Attachments G and G-1.

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

In the Monument Federal #11-22-9-16Y, the proposed injection zone (3911' - 5614') 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.

**2.11 A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter the improper intervals.**

See Attachments E through E-12.

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

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

See Attachment C.

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

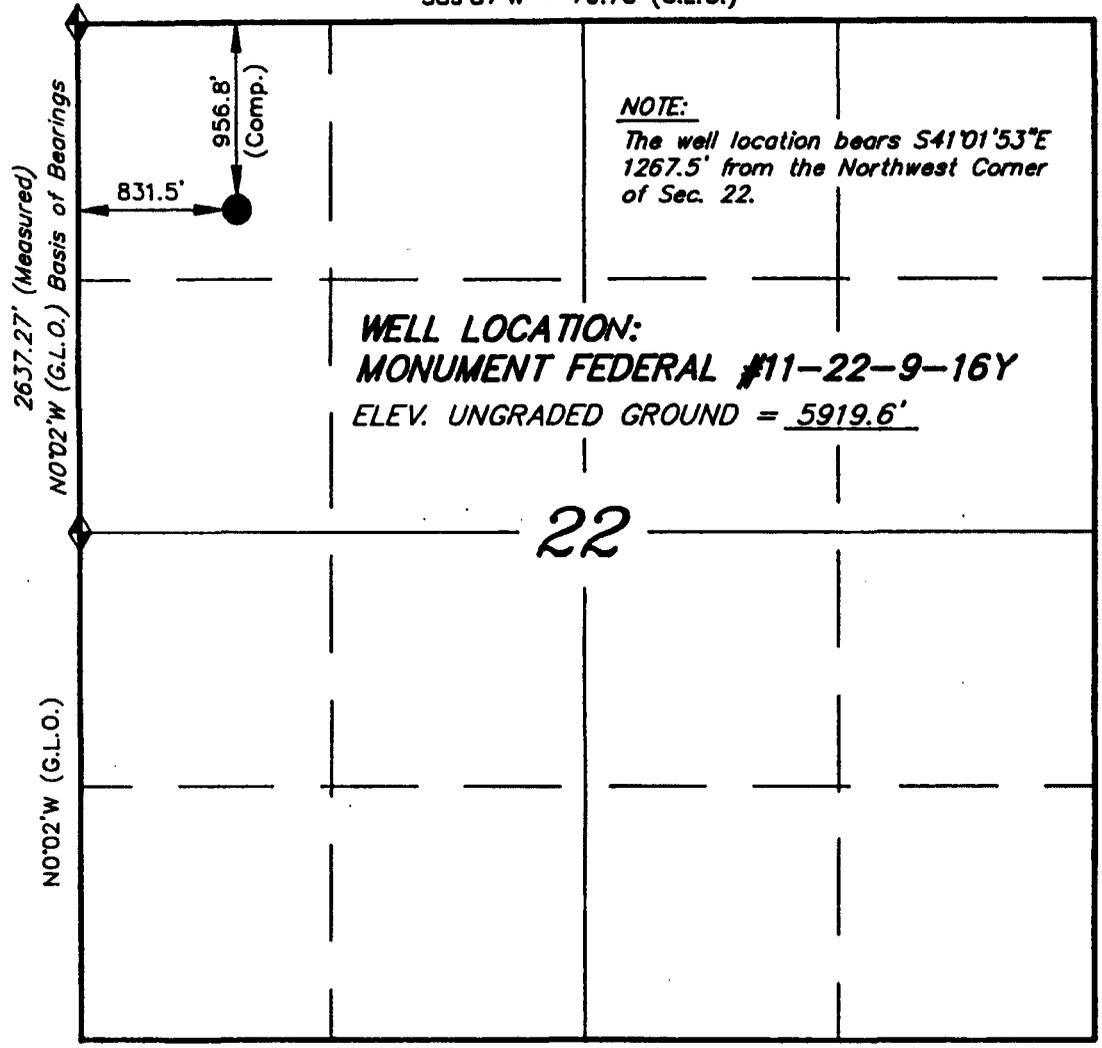
Newfield Production Company will supply any requested information to the Board or Division.



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

EQUITABLE RESOURCES ENERGY CO.

S89°57'W - 79.76 (G.L.O.)



NOTE:  
The well location bears S41°01'53"E 1267.5' from the Northwest Corner of Sec. 22.

**WELL LOCATION:**  
**MONUMENT FEDERAL #11-22-9-16Y**  
ELEV. UNGRADED GROUND = 5919.6'

22

WELL LOCATION, MONUMENT FEDERAL #11-22-9-16Y, LOCATED AS SHOWN IN THE NW 1/4 NW 1/4 OF SECTION 22, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES ON 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.  
REGISTERED LAND SURVEYOR  
REGISTRATION No. 144102  
STATE OF UTAH

S89°58'W - 79.82 (G.L.O.)

◆ = SECTION CORNERS LOCATED

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

<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 & WNDY
NOTES:	FILE #

**EXHIBIT B**

<b>#</b>	<b>Legal Description</b>	<b>Lessor &amp; Expiration</b>	<b>Lessee &amp; Operating Rights</b>	<b>Surface Owner</b>
1	T9S-R16E SLM Section 16: ALL	State of Utah ML 16532 HBP	QEP Energy Company El Paso E&P Company, LP Isramco Resources Inc Brave River Production Santa Fe Snyder Corporation Santa Fe Snyder Corporation Oxy USA Inc MYCO Industries Inc ABO Petroleum Corporation Yates Petroleum Corporation Newfield RMI LLC Newfield Production Company	State of Utah
2	T9S-R16E SLM Section 10: S2SE Section 15: E2,E2W2	USA UTU-017985 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

4	T9S-R16E SLM Section 21: S2 Section 22: NENE, S2 Section 23: SWSW Section 24: SESE Section 26: NENE Section 27: All Section 28: All	USA UTU-74392 HBP	Newfield Production Company Newfield RMI LLC ABO Petroleum Corp MYCO Industries Inc OXY Y-1 Company Yates Petroleum Corp	USA
5	T9S-R16E SLM Section 15: W2W2	USA UTU-79834 HBP	Newfield Production Company Newfield RMI LLC	USA

ATTACHMENT C

CERTIFICATION FOR SURFACE OWNER NOTIFICATION

RE: Application for Approval of Class II Injection Well  
Monument Federal #11-22-9-16Y

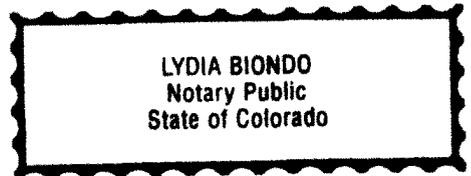
I hereby certify that a copy of the injection application has been provided to all surface owners within a one-half mile radius of the proposed injection well.

Signed: Jill L. Loyle  
Newfield Production Company  
Jill L. Loyle  
Regulatory Associate

Sworn to and subscribed before me this 7<sup>th</sup> day of February, 2014.

Notary Public in and for the State of Colorado: Lydia Biondo

My Commission Expires: 12/31/15



## Monument Federal #11-22

Spud Date:

Put on Production: 9/26/1996

GL: 5917' KB: 5927'

Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8 5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 jts. (248.10')

DEPTH LANDED: 258.10' KB

HOLE SIZE: 12 1/4"

CEMENT DATA: 160sxs Class "G" mixed cmt, est 5 bbls cmt to surf.

### PRODUCTION CASING

CSG SIZE: 5 1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 145 jts. (5648.71')

DEPTH LANDED: 5658.71' KB

HOLE SIZE: 7 7/8"

CEMENT DATA: 325 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ mix.

CEMENT TOP AT: 474'

### TUBING

SIZE/GRADE/WT.: 2 7/8" / J-55 / 6.5#

NO. OF JOINTS: 155 jts (4848.93')

NO. OF JOINTS: 2jts (62.78)

SEATING NIPPLE: 2 7/8" (1.10')

SN LANDED AT: 4924.51' KB

NO. OF JOINTS: 1jts (31.45)

TOTAL STRING LENGTH: EOT @ 4957.51' w/ 12' KB

TBG ANCHOR: 2-7/8" X 5-1/2" (3992.76' KB)

### SUCKER RODS

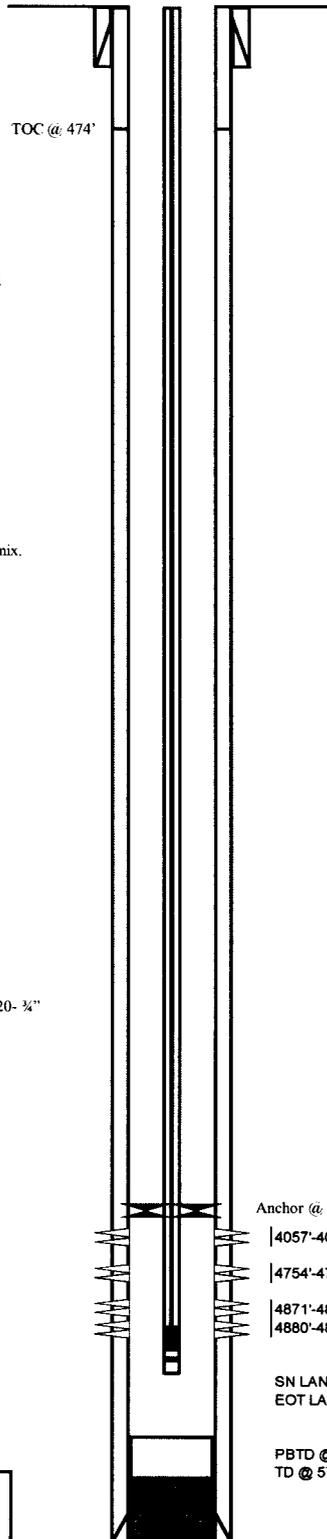
POLISHED ROD: 1-1/4" x 22' SM

SUCKER RODS: 2-2', 1-4', 6', 8' X 3/4" pony rods, 170- 3/4" plain rods, 20- 3/4" guided rods, 6- 1 1/2" weight rods.

PUMP SIZE: 2-1/2" x 1-1/2" x 14 1/2' RHAC w/SM plunger

STROKE LENGTH: 74"

PUMP SPEED, SPM: 5 SPM



### ACID JOB /BREAKDOWN

9/6/96 4754'-4761' BJ Services: 1428 gal 2% KCL  
4871'-4878' water w/ 28 ball sealers. Balled  
4880'-4884' off. ATP= 1900 psi, ATR= 3.0 bpm,  
ISIP= 1400 psi.

9/6/96 4871'-4878' BJ Services: 1596 gal 2% KCL  
4880'-4884' water w/ 44 ball sealers. Balled  
off. ATP= 1600 psi, ATR= 3.0 bpm,  
ISIP= 1300 psi.

9/7/96 4057'-4066' BJ Services: 2268 gal 2% KCL  
water w/ 72 ball sealers. Ball  
action but no ball off. ATP= 2000 psi,  
ATR= 3.5 bpm, ISIP=1400 psi.

### FRAC JOB

9/7/96 4754'-4761' BJ Services: 24,402 gal 2%  
4871'-4878' KCL water w/ 80,100# 16/30  
4880'-4884' sand. ATP= 2200 psi, ATR=  
35.4 bpm, ISIP= 2100 psi,  
5 min=1780 psi, 10 min= 1690 psi,  
15 min= 1640 psi.

9/7/96 4057'-4066' BJ Services: 14,532 gal 2%  
KCL water w/ 39,000# 16/30  
sand. ATP= 2000 psi, ATR= 31.0 bpm,  
ISIP= 1600 psi, 5 min= 1400 psi,  
10 min= 1290 psi, 15 min= 1230 psi,  
30 min= 1130 psi.

### PERFORATION RECORD

Date	Company	Depth Range	SPF
9/5/96	Schlumberger	4754'-4761'	2 SPF
		4871'-4878'	2 SPF
		4880'-4884'	2 SPF
9/7/96	Schlumberger	4057'-4066'	4 SPF

3-20-08

Workover. Updated rod and tubing detail.

Anchor @ 3993' KB

4057'-4066'

4754'-4761'

4871'-4878'

4880'-4884'

SN LANDED @ 4925' KB

EOT LANDED @ 4958' KB

PBTD @ 5614' KB

TD @ 5700' KB

**NEWFIELD**

**Monument Federal 11-22-9-16Y**

957' FNL & 832' FWL

NW/NW Section 22-T9S-R16E

Duchesne Co, Utah

API #43-013-31647; Lease #UTU-64379

**NEWFIELD**



**Schematic**

43-013-33023

**Well Name: Federal 8-21-9-16**

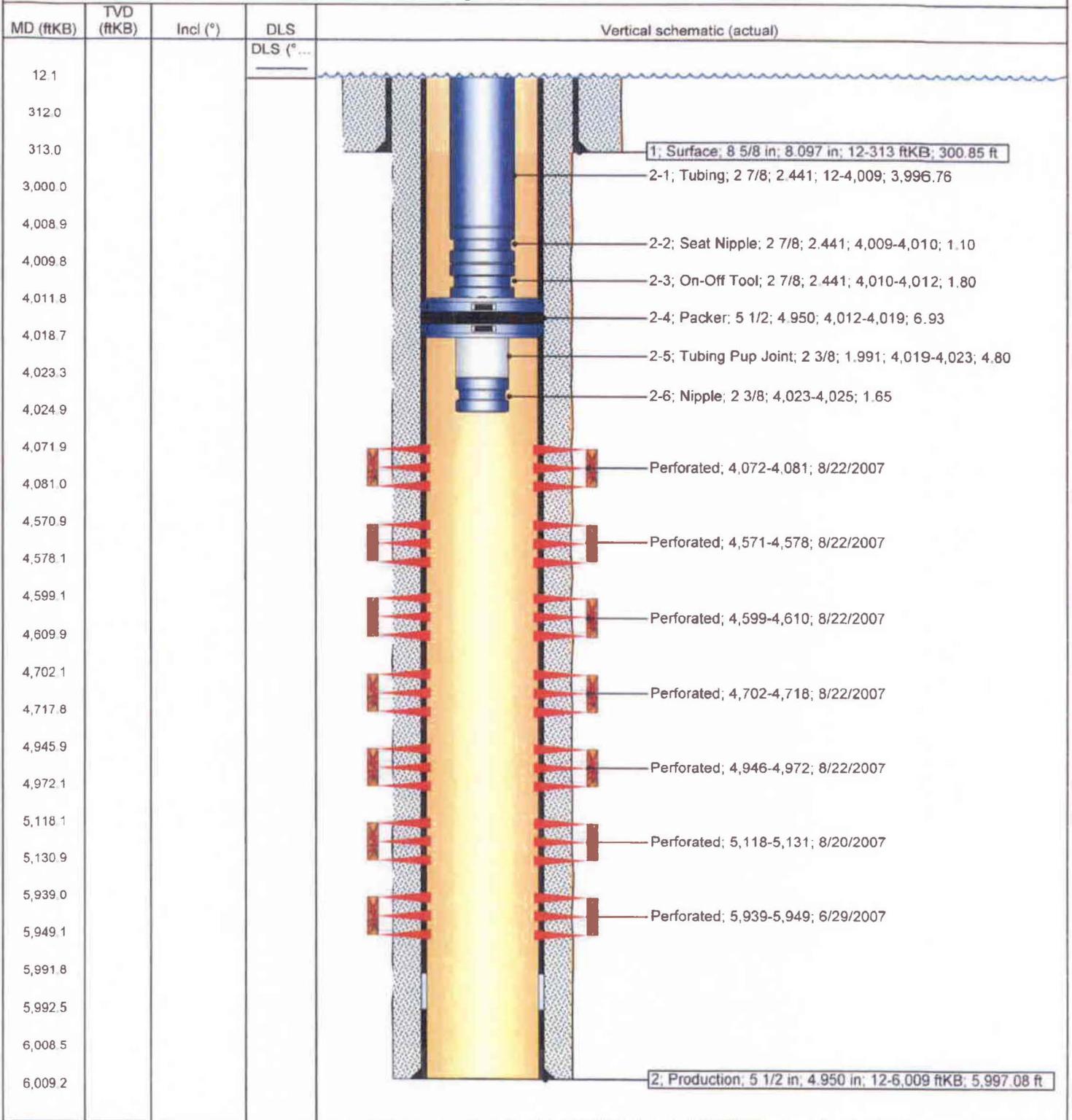
Surface Legal Location 21-9S-16E		API/UWI 43013330230000	Well RC 500154753	Lease	State/Province Utah	Field Name GMBU CT B6	County DUCHESNE
Spud Date	Rig Release Date	On Production Date 7/9/2007	Original KB Elevation (ft) 12	Ground Elevation (ft)	Total Depth All (TVD) (ftKB)	PBTD (All) (ftKB)	

**Most Recent Job**

Job Category Production / Workover	Primary Job Type Conversion	Secondary Job Type Basic	Job Start Date 3/5/2014	Job End Date
---------------------------------------	--------------------------------	-----------------------------	----------------------------	--------------

**TD: 6,009.1**

Vertical - Original Hole, 3/10/2014 8:06:17 AM



## Federal 5-22-9-16

Spud Date: 3-18-08  
 Put on Production: 5-9-08  
 GL: 5918' KB: 5930'

### Injection Wellbore Diagram

#### SURFACE CASING

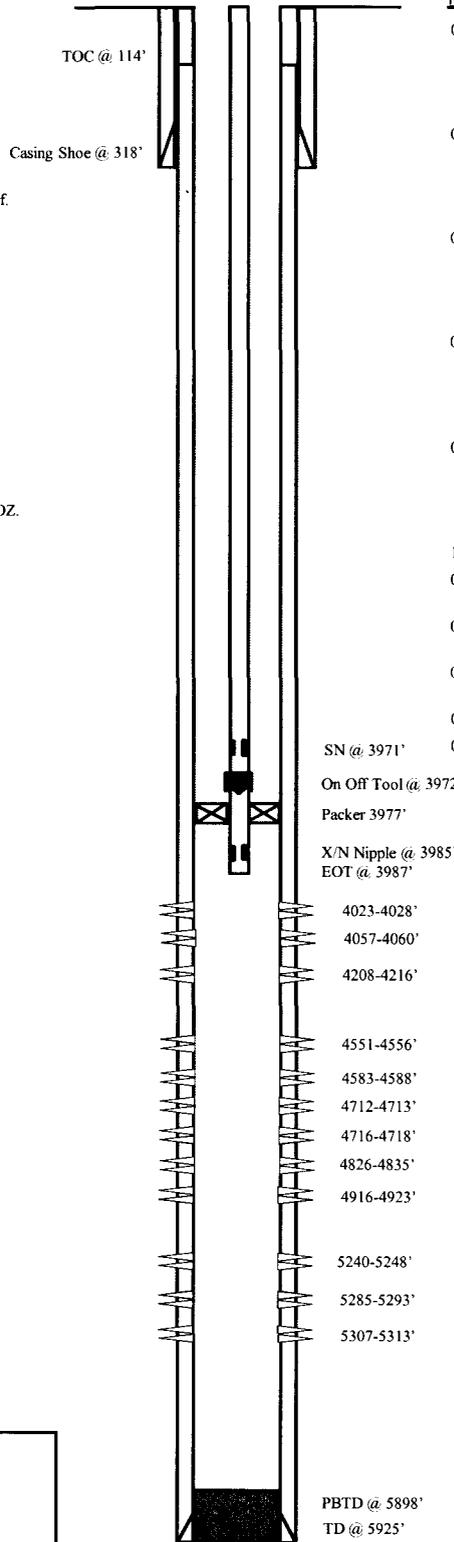
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (307.89')  
 DEPTH LANDED: 317.89'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, circ. 8 bbls to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 141 jts (5922.15')  
 DEPTH LANDED: 5920.15'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II & 400 sxs 50/50 POZ.  
 CEMENT TOP AT: 114' per CBL 4/29/08

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 126 jts (3959.1')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 3971.1' KB  
 ON/OFF TOOL AT: 3972.2'  
 PACKER CE AT: 3977.15'  
 TBG PUP 2-3/8" AT: 3980.9'  
 X/N NIPPLE AT: 3985.1'  
 TOTAL STRING LENGTH: EOT @ 3987'



#### FRAC JOB

05-06-08	5307-5313'	<b>RU BJ &amp; frac LODC sds as follows:</b> 99,254# 20/40 sand in 750 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2444 w/ ave rate of 28.6 bpm w/ 8 ppg of sand. ISIP was 2669. Actual Flush: 4746 gal.
05-06-08	4916-4923'	<b>RU BJ &amp; frac stage #2 as follows:</b> 19,006# 20/40 sand in 304 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2172 w/ ave rate of 23.4 bpm w/ 6.5 ppg of sand. ISIP was 2395. Actual Flush: 4452 gal.
05-06-08	4826-4835'	<b>RU BJ &amp; frac stage #3 as follows:</b> 29,485# 20/40 sand in 377 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 1724 w/ ave rate of 23.4 bpm w/ 6.5 ppg of sand. ISIP was 1676. Actual Flush: 4326 gal.
05-06-08	4551-4556'	<b>RU BJ &amp; frac stage #4 as follows:</b> 19,618# 20/40 sand in 297 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 1788 w/ ave rate of 23.2 bpm w/ 6.5 ppg of sand. ISIP was 1868. Actual Flush: 4074 gal.
05-06-08	4208-4216'	<b>RU BJ &amp; frac stage #5 as follows:</b> 24,768# 20/40 sand in 330 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2518 w/ ave rate of 23.2 bpm w/ 6.5 ppg of sand. ISIP was 2984. Actual Flush: 4116 gal.
10/7/09		Tubing Leak. Updated rod & tubing details.
09/12/12	4712-4718'	<b>Frac C sands as follows:</b> 10839# 20/40 sand in 126 bbls of Lightning 17 frac fluid.
09/13/12	4057-4060'	<b>Frac GB6 sands as follows:</b> 18889 # 20/40 sand in 192 bbls of Lightning 17 frac fluid.
09/13/12	4023-4026'	<b>Frac GB4 sands as follows:</b> 20651# 20/40 sand in 182 bbls of Lightning 17 frac fluid.
09/14/12		<b>Convert to Injection Well</b>
09/18/12		<b>Conversion MIT Finalized</b> - update tbg detail

#### PERFORATION RECORD

Date	Depth Range	Number of Holes	Notes
04-24-08	5307-5313'	4	JSPF 24 holes
04-30-08	5285-5293'	4	JSPF 32 holes
04-30-08	5240-5248'	4	JSPF 32 holes
04-30-08	4916-4923'	4	JSPF 28 holes
04-30-08	4826-4835'	4	JSPF 36 holes
04-30-08	4583-4588'	4	JSPF 20 holes
04-30-08	4551-4556'	4	JSPF 20 holes
04-30-08	4208-4216'	4	JSPF 32 holes
09-12-12	4716-4718'	3	JSPF 6 holes
09-12-12	4712-4713'	3	JSPF 3 holes
09-12-12	4057-4060'	3	JSPF 9 holes
09-12-12	4023-4026'	3	JSPF 9 holes

**NEWFIELD**



**Federal 5-22-9-16**  
 1989' FNL & 613' FWL  
 SW/NW Section 22-T9S-R16E  
 Duchesne Co, Utah  
 API # 43-013-33025; Lease # UTU-64379

PBD @ 5898'  
 TD @ 5925'

Spud Date: 4/28/2009  
 Put on Production: 7/22/2009  
 GL: 5966' KB: 5978'

## Federal 12-22-9-16

### Injection Wellbore Diagram

#### SURFACE CASING

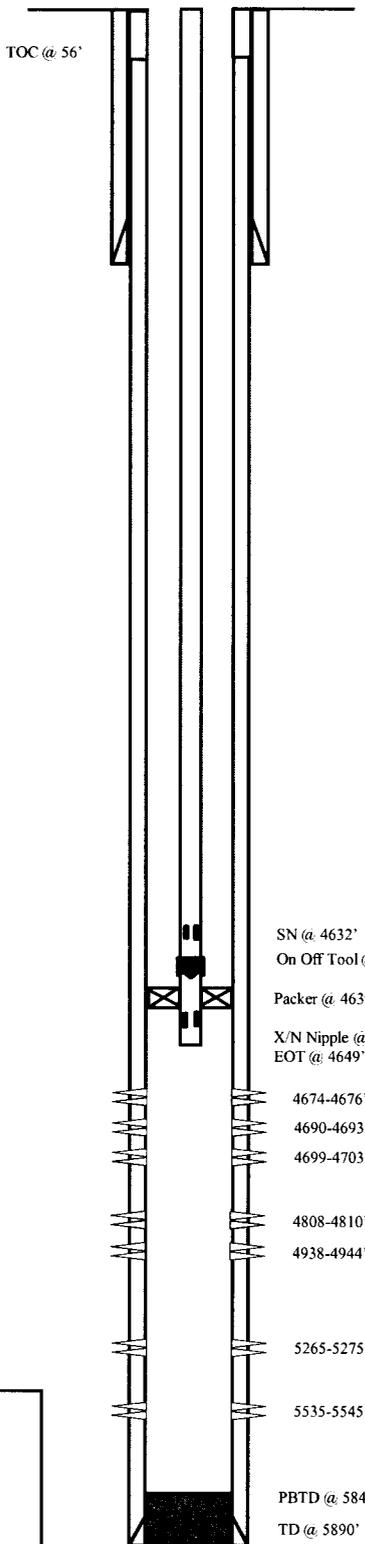
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 8 jts (313.85')  
 HOLE SIZE: 12-1/4"  
 DEPTH LANDED: 325.7' KB  
 CEMENT DATA: 160 sxs Class 'G', circ. 4 bbls to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 149 jts (5868.64')  
 HOLE SIZE: 7 7/8"  
 DEPTH LANDED: 5881.89'  
 CEMENT DATA: 275 sxs Prem. Lite and 401 sxs 50/50 POZ  
 CEMENT TOP AT: 56' per CBL 7/14/09

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 167 jts (4619.9')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4631.9' KB  
 ON/OFF TOOL AT: 4633'  
 ARROW #1 PACKER CE AT: 4639.1'  
 XO 2-3/8 x 2-7/8 J-55 AT: 4642.8'  
 TBG PUP 2-3/8 J-55 AT: 4643.3'  
 X/N NIPPLE AT: 4647.4'  
 TOTAL STRING LENGTH: EOT @ 4649.03'



#### FRAC JOB

7-23-09 5535-5545' **Frac CP3 sands as follows:**  
 Frac with 34,344# 20/40 sand in 249 bbls of Lightning 17 fluid.  
 7-23-09 5265-5275' **Frac LODC sands as follows:**  
 Frac with 65,879# 20/40 sand in 147 bbls of Lightning 17 fluid.  
 7-23-09 4808-4944' **Frac A3 & B2 sands as follows:**  
 Frac with 34,625# 20/40 sand in 285 bbls of Lightning 17 fluid.  
 7-23-09 4674-4703' **Frac C sands as follows:**  
 Frac with 34344# 20/40 sand in 249 bbls of Lightning 17 fluid.  
 03/16/2011 **Tubing Leak.** Rod & tubing detail updated.  
 12/18/13 **Convert to Injection Well**  
 12/20/13 **Conversion MIT Finalized** -update tbg detail

#### PERFORATION RECORD

5535-5545'	3 JSPF	30 holes
5265-5275'	3 JSPF	30 holes
4938-4944'	3 JSPF	18 holes
4808-4810'	3 JSPF	6 holes
4699-4703'	3 JSPF	12 holes
4690-4693'	3 JSPF	9 holes
4674-4676'	3 JSPF	6 holes

**NEWFIELD**

**Federal 12-22-9-16**

2113' FSL & 349' FWL NW/SW  
 Section 22-T9S-R16E  
 Duchesne Co, Utah  
 API # 43-013-33586; Lease # UTU-74392

## Federal 6-22-9-16

Spud Date: 3-13-08  
Put on Production: 5-6-08

GL: 5913' KB: 5925'

### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts (290.93')  
DEPTH LANDED: 302.78' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 141 jts (5933.60')  
DEPTH LANDED: 5904' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
CEMENT TOP AT: 196'

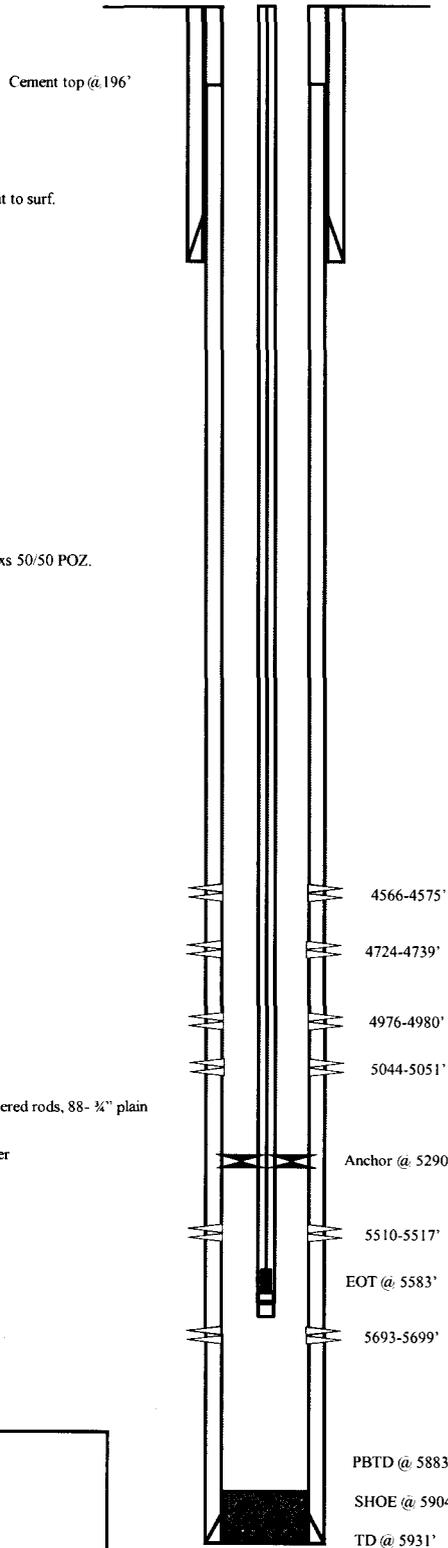
### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 168 jts (5278.14')  
TUBING ANCHOR: 5290.14' KB  
NO. OF JOINTS: 2 jts (63.11')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5356.05' KB  
NO. OF JOINTS: 1 jts (31.47')  
TOTAL STRING LENGTH: EOT @ 5583.08' KB

### SUCKER RODS

POLISHED ROD: 1-1/2" x 26' SM  
SUCKER RODS: 2'-6", 8" x 3/4" pony rods, 99- 3/4" scraper rods, 88- 3/4" plain rods, 20- 3/4" scraper rods, 6- 1 1/2" weight rods.  
PUMP SIZE: 2-1/2" x 1-1/2" x 16' RHAC w/SM plunger  
STROKE LENGTH: 86"  
PUMP SPEED, SPM: 5 SPM

### Wellbore Diagram



Initial Production: BOPD,  
MCFD, BWPD

### FRAC JOB

04-30-08	5693-5699'	<b>Frac CP4 sands as follows:</b> 16361# 20/40 sand in 302 bbls Lightning 17 frac fluid. Treated @ avg press of 2441 psi w/avg rate of 23.2 BPM. ISIP 2055 psi. Calc flush: 5691 gal. Actual flush: 5250 gal.
04-30-08	5510-5517'	<b>Frac CP2 sands as follows:</b> 15257# 20/40 sand in 279 bbls Lightning 17 frac fluid. Treated @ avg press of 2046 psi w/avg rate of 23.2 BPM. ISIP 1762 psi. Calc flush: 5508 gal. Actual flush: 4998 gal.
04-30-08	4976-5051'	<b>Frac A3, &amp; A1 sands as follows:</b> 14997# 20/40 sand in 235 bbls Lightning 17 frac fluid. Treated @ avg press of 2158 psi w/avg rate of 23.2 BPM. ISIP 1884 psi. Calc flush: 4974 gal. Actual flush: 4494 gal.
4-30-08	4724-4739'	<b>Frac C sands as follows:</b> 115315# 20/40 sand in 825 bbls Lightning 17 frac fluid. Treated @ avg press of 1876 w/ avg rate of 23.2 BPM. ISIP 2044 psi. Calc flush: 4722 gal. Actual flush: 4242 gal.
04-30-08	4566-4575'	<b>Frac D1 sands as follows:</b> 40206# 20/40 sand in 394 bbls Lightning 17 frac fluid. Treated @ avg press of 1832 w/ avg rate of 23.2 BPM. ISIP 1850 psi. Calc flush: 4564 gal. Actual flush: 4452 gal.

### PERFORATION RECORD

04-24-08	5693-5699'	4 JSPF	24 holes
04-30-08	5510-5517'	4 JSPF	28 holes
04-30-08	5044-5051'	4 JSPF	28 holes
04-30-08	4976-4980'	4 JSPF	16 holes
04-30-08	4724-4739'	4 JSPF	60 holes
04-30-08	4566-4575'	4 JSPF	36 holes

**NEWFIELD**



**Federal 6-22-9-16**

2340' FNL & 2060' FWL

SE/NW Section 22-T9S-R16E

Duchesne Co, Utah

API # 43-013-33026; Lease # UTU-34379

## Federal 11A-22-9-16

Spud Date: 5-15-07  
 Put on Production: 7-18-07  
 GL: 5867' KB: 5879'

### Injection Wellbore Diagram

#### SURFACE CASING

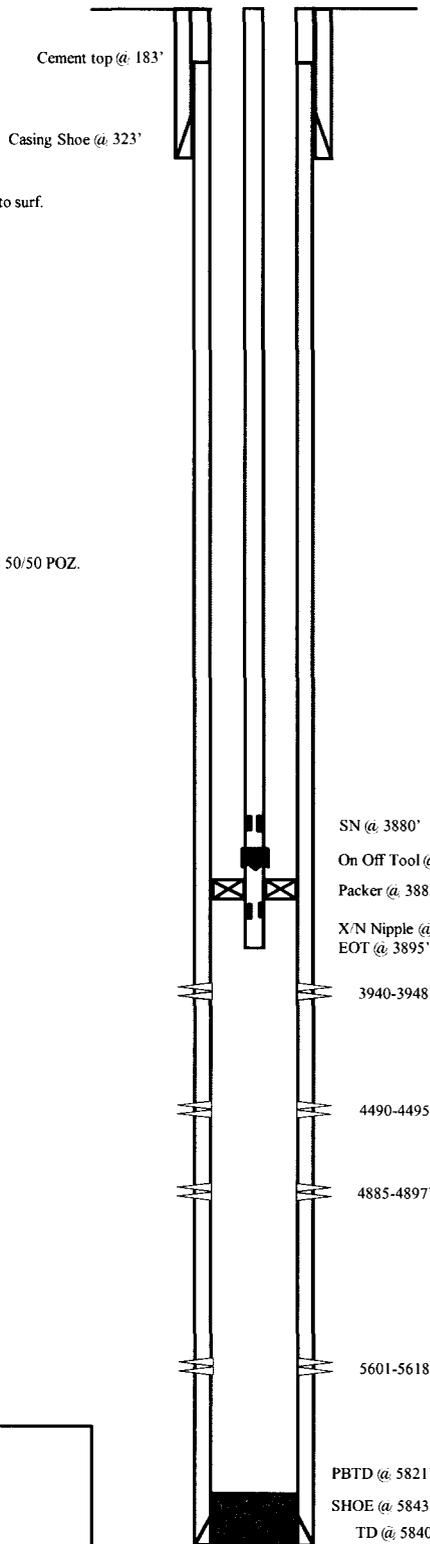
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jnts (311.35')  
 DEPTH LANDED: 323.2' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 3 bbls cmt to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 134 jnts (5829.37')  
 DEPTH LANDED: 5842.62' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TO SURFACE: 183'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 124 jnts (3867.6')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 3879.6' KB  
 ON/OFF TOOL AT: 3880.7'  
 ARROW #1 PACKER CE AT: 3885'  
 XO 2-3/8 x 2-7/8 J-55 AT: 3889.5'  
 TBG PUP 2-3/8 J-55 AT: 3890'  
 X/N NIPPLE AT: 3894.1'  
 TOTAL STRING LENGTH: EOT @ 3895.5'



#### FRAC JOB

7-9-07 5601-5618' **Frac CP5 sands as follows:**  
 50556# 20/40 sand in 495 bbls Lightning 17 frac fluid. Treated @ avg press of 1972 psi w/avg rate of 24.8 BPM. ISIP 2200 psi. Calc flush: 5599 gal. Actual flush: 5082 gal.

7-11-07 4885-4897' **Frac A1 sands as follows:**  
 70631# 20/40 sand in 616 bbls Lightning 17 frac fluid. Treated @ avg press of 1959 psi w/avg rate of 24.8 BPM. ISIP 2160 psi. Calc flush: 4883 gal. Actual flush: 4410 gal.

7-13-07 4490-4495' **Frac D1 sands as follows:**  
 20088# 20/40 sand in 310 bbls Lightning 17 frac fluid. Treated @ avg press of 1769 psi w/avg rate of 24.8 BPM. ISIP 1908 psi. Calc flush: 4489 gal. Actual flush: 3990 gal.

7-13-07 3940-3948' **Frac GB4 sands as follows:**  
 42107# 20/40 sand in 394 bbls Lightning 17 frac fluid. 24.8BPM. ISIP 1470psi. Calc flush: 3938 gal. Actual flush: 3906 gal.

06/25/08 **Workover.** Rod & Tubing detail updated.  
 1/18/2010 **Tubing leak.** Updated rod and tubing detail.  
 11/16/12 **Convert to Injection Well**  
 11/20/12 **Conversion MIT Finalized** - update tbg detail

#### PERFORATION RECORD

7-9-07	5601-5618'	4 JSPF	68 holes
7-18-07	4885-4897'	4 JSPF	48 holes
7-11-07	4490-4495'	4 JSPF	20 holes
7-13-07	3940-3948'	4 JSPF	32 holes

**NEWFIELD**

**Federal 11A-22-9-16**

2007' FSL & 1783' FWL  
 NE/SW Section 22-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33149; Lease #UTU-74392

## FEDERAL 2-22-9-16

Spud Date: 05/23/07  
 Put on Production: 07/03/07  
 GL: 5860' KB: 5872'

### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (302.90')  
 DEPTH LANDED: 314.75' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, cir 6 bbls to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 136 jts. (5894.51')  
 DEPTH LANDED: 5893.76' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 425 sxs 50/50 POZ.  
 CEMENT TOP: 57' per CBL 6/25/07

#### TUBING (GI 4/9/12)

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 178 jts. (5519.9')  
 TUBING ANCHOR: 5531.9'  
 NO. OF JOINTS: 1 jts (31.40')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5566.10'  
 NO. OF JOINTS: 1 jt. (29.80')  
 PBGA: 3-1/2" (5.4')  
 NO. OF JOINTS: 3 jts (94.7')  
 PBGA: 2-7/8" (0.7')  
 TOTAL STRING LENGTH: EOT @ 5698'

#### SUCKER RODS (GI 4/9/12)

POLISHED ROD: 1-1/2" x 22' polish rod  
 SUCKER RODS: 131 x 3/4" guided rods(4per), 47 x 3/4" sucker rods, 37 x 3/4" guided rods(4per), 6 x 1-1/2" Sinker bars, 6 x 1" Stabilizer rod  
 PUMP SIZE: 2-1/2" x 1-1/4" x 12' x 16' RHAC  
 STROKE LENGTH: 86"  
 PUMP SPEED, SPM: 5  
 PUMPING UNIT: Weatherford C-228-213-86

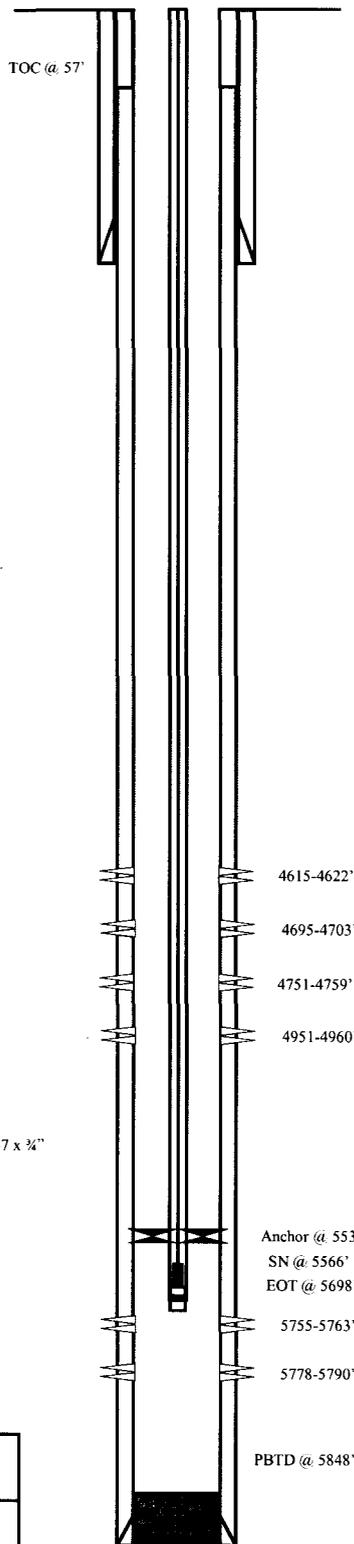
#### FRAC JOB

06/27/07 5755-5790' **Frac CP5 sands as follows:**  
 60101# 20/40 sand in 501 bbls Lightning 17 frac fluid. Treated @ avg press of 1583 psi w/avg rate of 24.7 BPM. ISIP 1950 psi. Calc flush: 5753 gal. Actual flush: 5166 gal.

06/27/07 4951-4960' **Frac A.5 sands as follows:**  
 39988# 20/40 sand in 382 bbls Lightning 17 frac fluid. Treated @ avg press of 2087 psi w/avg rate of 24.7 BPM. ISIP 2525 psi. Calc flush: 4898 gal. Actual flush: 4360 gal.

06/27/07 4695-4759' **Frac D3 & C sands as follows:**  
 57108# 20/40 sand in 466 bbls Lightning 17 frac fluid. Treated @ avg press of 2290 psi w/avg rate of 24.7 BPM. ISIP 3228 psi. Calc flush: 4693 gal. Actual flush: 4158 gal.

06/29/07 4615-4622' **Frac D1 sands as follows:**  
 9646# 20/40 sand in 210 bbls Lightning 17 frac fluid. Treated @ avg press of 2799 psi w/avg rate of 24.7 BPM. ISIP 1928 psi. Calc flush: 4613 gal. Actual flush: 4536 gal.



#### PERFORATION RECORD

Date	Interval	JSPF	Holes
06/25/07	5778-5790'	4 JSPF	48 holes
06/25/07	5755-5763'	4 JSPF	32 holes
06/27/07	4951-4960'	4 JSPF	36 holes
06/27/07	4751-4759'	4 JSPF	32 holes
06/27/07	4695-4703'	4 JSPF	32 holes
06/27/07	4615-4622'	4 JSPF	28 holes

**NEWFIELD**

**FEDERAL 2-22-9-16**

645'FNL & 1878' FEL

NW/NE Section 22-T9S-R16E

Duchesne Co. Utah

API #43-013-32958; Lease # UTU-64379

## Federal 3-22-9-16

Spud Date: 5-31-07  
 Put on Production: 7-4-07  
 GL: 5866' KB: 5878'

### Injection Wellbore Diagram

#### SURFACE CASING

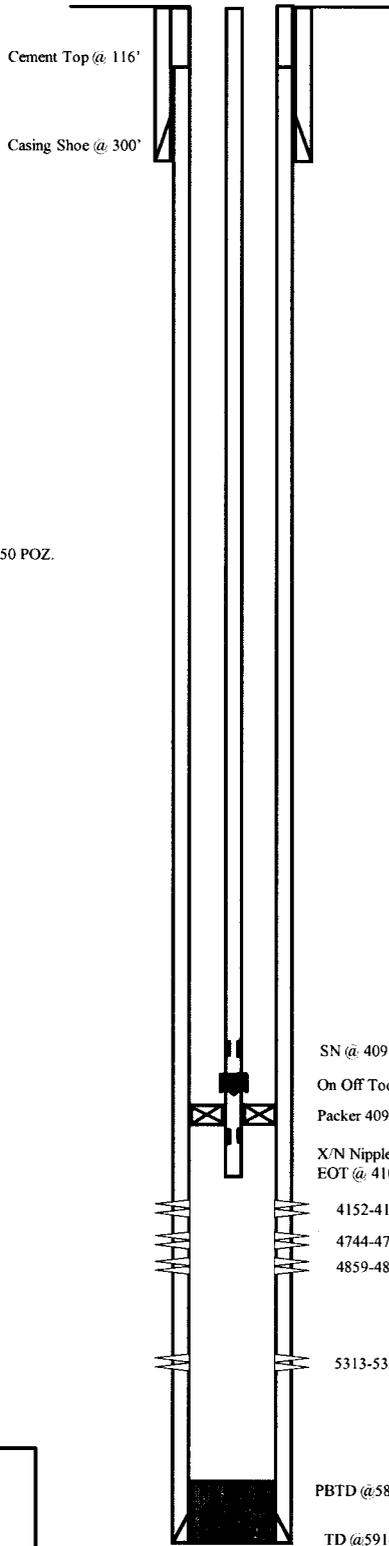
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (287.98')  
 DEPTH LANDED: 299.83' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: To surface with 160 sxs Class "G" cmt

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 145 jts. (6357.47')  
 DEPTH LANDED: 5910.55' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 425 sx 50/50 POZ.  
 CEMENT TOP: 116'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 131 jts (4079.2')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4091.2' KB  
 ON/OFF TOOL AT: 4092.3'  
 ARROW #1 PACKER CE AT: 4097'  
 XO 2-3/8 x 2-7/8 J-55 AT: 4101.0'  
 TBG PUP 2-3/8 J-55 AT: 4101.5'  
 X/N NIPPLE AT: 4105.7'  
 TOTAL STRING LENGTH: EOT @ 4107'



#### FRAC JOB

6/29/07	5313-5320'	<b>RU BJ &amp; frac LODC sds as follows:</b> 40,796# 20/40 sand in 411 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 3412 w/ ave rate of 22.2 bpm w/ 6.5 ppg of sand. ISIP was 3327. Actual flush: 4830 gals.
6/29/07	4859-4867	<b>RU BJ &amp; frac stage #2 as follows:</b> 34,536#s of 20/40 sand in 354 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 3900 w/ ave rate of 22.1 bpm w/ 6.5 ppg of sand. ISIP was 4200. Actual flush: 2646 gals.
6/29/07	4744-4754	<b>RU BJ &amp; frac stage #3 as follows:</b> 34,902#s of 20/40 sand in 390 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2527 w/ ave rate of 27.6 bpm w/ 6.5 ppg of sand. 1144 bbls EWTR. ISIP was 1925. Actual flush: 4242 gals.
6/29/07	4152-4158	<b>RU BJ &amp; frac stage #4 as follows:</b> 44,919#s of 20/40 sand in 372 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2360 w/ ave rate of 24.7 bpm w/ 8 ppg of sand. 1517 bbls EWTR. ISIP was 1900. Actual flush: 5996 gals.
12/21/09		<b>Parted Rods.</b> Rod & Tubing updated.
09/27/12		<b>Convert to Injection Well</b>
09/27/12		<b>Conversion MIT Finalized</b> - update tbg detail

#### PERFORATION RECORD

06/29/07	5313-5320'	4 JSPF	28 holes
06/29/07	4859-4867'	4 JSPF	32 holes
06/29/07	4744-4754'	4 JSPF	40 holes
06/29/07	4152-4158'	4 JSPF	24 holes



**NEWFIELD**

Federal 3-22-9-16  
 683' FNL & 2079' FWL (NE/NW)  
 Section 22, T9S, R16E  
 Duchesne Co, Utah  
 API #43-013-33024; Lease # UTU-64379

## Federal 13-15-9-16

Spud Date: 5-21-07  
 Put on Production: 6-25-07  
 GL: 5840' KB: 5858'

### Injection Wellbore Diagram

#### SURFACE CASING

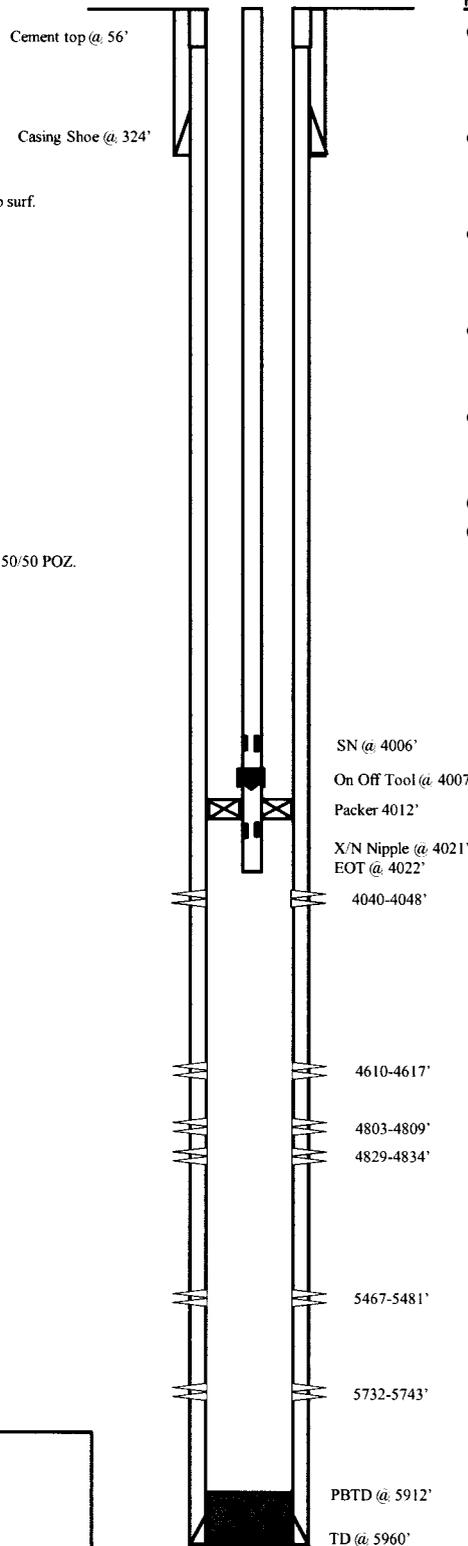
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jnts (312.81')  
 DEPTH LANDED: 323.71' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 1bbls cmt to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 135 jnts (5899.55')  
 DEPTH LANDED: 5944.14' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
 CEMENT TOP AT: 56'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 128 jnts (3994.3')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4006.3' KB  
 ON/OFF TOOL AT: 4007.4'  
 SEAL NIPPLE AT: 4008.9'  
 ARROW #1 PACKER CE AT: 4012.5'  
 XO 2-3/8 x 2-7/8 J-55 AT: 4016.2'  
 TBG PUP 2-3/8 J-55 AT: 4016.7'  
 X/N NIPPLE AT: 4020.7'  
 TOTAL STRING LENGTH: EOT @ 4022'



#### FRAC JOB

6-19-07	5732-5743'	<b>Frac CP5 sands as follows:</b> 40000# 20/40 sand in 406 bbls Lightning 17 frac fluid. Treated @ avg press of 1700 psi w/avg rate of 22.2 BPM. ISIP 1980 psi. Calc flush: 5730 gal. Actual flush: 5145 gal.
6-19-07	5467-5481'	<b>Frac CP1 sands as follows:</b> 50251# 20/40 sand in 432 bbls Lightning 17 frac fluid. Treated @ avg press of 1294 psi w/avg rate of 23.3 BPM. ISIP 1690 psi. Calc flush: 5465 gal. Actual flush: 4872 gal.
6-19-07	4829-4809'	<b>Frac B1 &amp; B.5 sands as follows:</b> 14309# 20/40 sand in 248 bbls Lightning 17 frac fluid. Treated @ avg press of 1801 psi w/avg rate of 23.4 BPM. ISIP 1810 psi. Calc flush: 4827 gal. Actual flush: 4221 gal.
6-19-07	4610-4617'	<b>Frac D1 sands as follows:</b> 25018# 20/40 sand in 338 bbls Lightning 17 frac fluid. 21.8 BPM. ISIP 1990 psi. Calc flush: 4608 gal. Actual flush: 4011 gal.
6-19-07	4040-4048'	<b>Frac GB4 sands as follows:</b> 28952# 20/40 sand in 294 bbls Lightning 17 frac fluid. 24.7 BPM. ISIP 1723 psi. Calc flush: 4038 gal. Actual flush: 3948 gal.
09/22/12		<b>Convert to Injection Well</b>
09/25/12		<b>Conversion MIT Finalized</b> - update tbg detail

#### PERFORATION RECORD

6-13-07	5732-5743'	4 JSPF	36 holes
6-19-07	5467-5481'	4 JSPF	56 holes
6-19-07	4829-4834'	4 JSPF	20 holes
6-19-07	4803-4809'	4 JSPF	20 holes
6-19-07	4610-4617'	4 JSPF	28 holes
6-19-07	4040-4048'	4 JSPF	32 holes

**NEWFIELD**

**Federal 13-15-9-16**

717' FSL & 469' FWL

SW/SW Section 15-T9S-R16E

Duchesne Co, Utah

API #43-013-33136; Lease #UTU-39713

Well Name: Federal 12-15-9-16

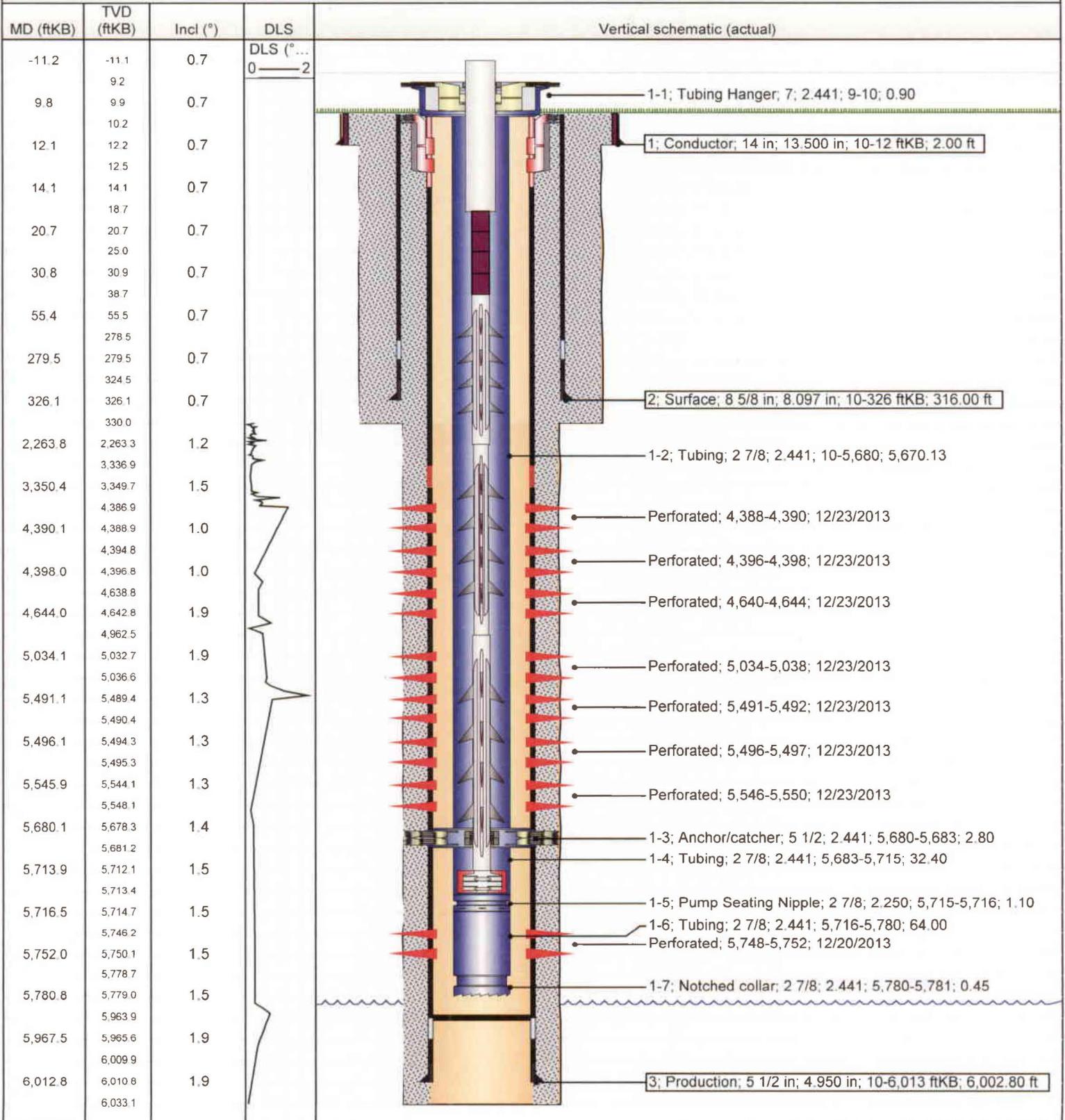
Surface Legal Location NWSW 1639 FSL 362 FWL Sec 15 T9S R16E			API/UWI 43013504290000	Well RC 500162753	Lease UTU79834	State/Province Utah	Field Name GMBU CTB5	County Duchesne
Spud Date 11/21/2013	Rig Release Date 12/6/2013	On Production Date 1/3/2014	Original KB Elevation (ft) 5,845	Ground Elevation (ft) 5,835	Total Depth All (TVD) (ftKB) Original Hole - 6,033.0		PBTD (All) (ftKB) Original Hole - 5,965.9	

Most Recent Job

Job Category Initial Completion	Primary Job Type Fracture Treatment	Secondary Job Type P&P	Job Start Date 12/20/2013	Job End Date 1/3/2014
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TD: 6,035.0

Vertical - Original Hole, 1/15/2014 3:17:13 PM



## Balcron Federal #41-21y

Wellbore Diagram

Elev.GR - 5953.5' GL  
Elev.KB - 5966' (13' KB)

### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 250'  
DEPTH LANDED: 258' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 15 sks class "G"

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 6004.02'  
DEPTH LANDED: 5999' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 165 sks thrifty lite. Tailed  
w/ 275 sks 50-50 POZ.

CEMENT TOP AT: 2980' KB

### TUBING

SIZE/GRADE/WT.: 2-7/8" 8rd EUE / J-55 / 6.5#  
NO. OF JOINTS: 144 jts  
TUBING ANCHOR: 2-7/8"x5-1/2"  
NO. OF JOINTS: 21 Jts  
SEATING NIPPLE: 2-7/8"x1.10'  
PERFORATED SUB: 2-7/8"x3.20'  
MUD ANCHOR: 2-7/8"x31.82'  
STRING LENGTH:  
SN LANDED AT:

### SUCKER RODS

POLISHED ROD: 1-1/4"x22' SM  
SUCKER RODS:  
2-3/4"x4' Pony  
1-3/4"x8' Pony  
195-3/4"x25' Plain  
6-1"x25' EL w/2.5 guides  
TOTAL STRING LENGTH: 5061'

PUMP NUMBER: Trico #1193  
PUMP SIZE: 2-1/2"x1-1/2"x16' RWAC

STROKE LENGTH: 58 inches  
PUMP SPEED, SPM: 6.5 SPM  
PUMPING UNIT SIZE:  
PUMPING UNIT:  
PRIME MOVER:

### ACID JOB /BREAKDOWN

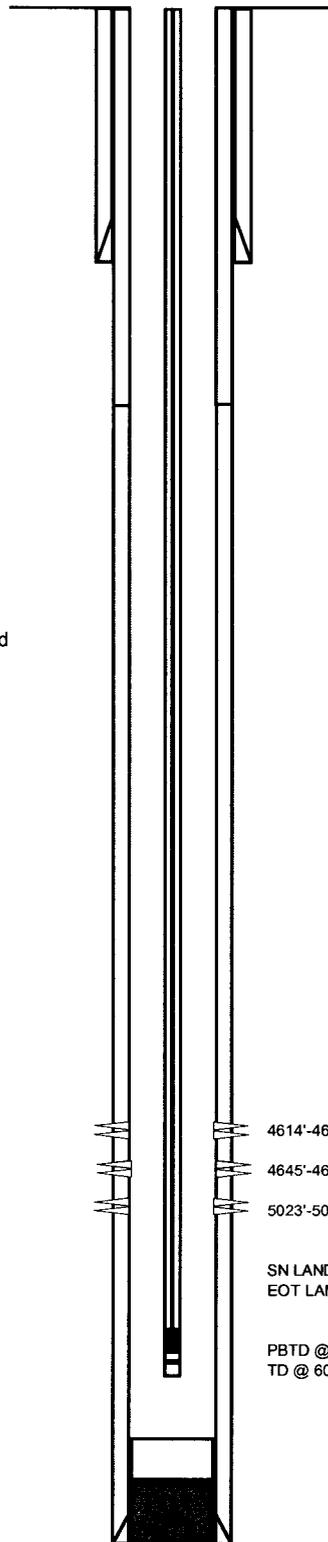
8/24/93	5023'-5036'	Halliburton: ATP=2500 psi, ATR=2.5 bpm, ISIP=1950 psi.
8/28/96	4645'-4650' 4614'-4624'	Halliburton: ATR=6.5 bpm, ATP=2650 psi.

### FRAC JOB

8/25/93	5023'-5036'	No vols or quantities in report. Max. Rate=36 bpm, max. Press.=3200 psi, ATP=2470 psi, ISIP=2084 psi, 5 min=1770 psi, 10 min= 1723 psi, 15 min=1672 psi.
8/28/96	4645'-4650' 4614'-4624'	Halliburton: No vols or quantities in report. Max. Rate=35 bpm, ISIP=1972 psi, 5 min= 1791 psi, 10 min=1679 psi, 15 min=1607 psi.

### PERFORATION RECORD

8/23/93	Cutter	5023'-5036'	2 SPF
8/27/93	Schlumberger	4645'-4650' 4614'-4624'	1 SPF 1 SPF



4614'-4624'  
4645'-4650'  
5023'-5036'

SN LANDED @5061' KB  
EOT LANDED @ 5098' KB

PBTD @ 5950' KB  
TD @ 6000' ' KB

**NEWFIELD**



**Balcron Federal #41-21y**

Monument Butte

Lease #U-64379

NE NE Section 21, T9S, R16E

970.2' FNL, 893.8 FEL

Duchesne County, Utah

API # 43-013-31392

## Castle Peak #24-15-9-16

Spud Date: 6/19/82  
 Put on Production: 8/30/12  
 GL: 5770' KB: 5783'

### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: K-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (261')  
 DEPTH LANDED: 274'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 200 sxs Type II cmt. Returns to surface.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: K-55  
 WEIGHT: 15.5#  
 LENGTH: 138 jts. (5870.46')  
 DEPTH LANDED: 5867'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 325 sxs Dowell HiLift & 475 sxs 10-0 PFC.  
 CEMENT TOP: 920' per CBL 7/17/82

#### TUBING (KS 8/25/10)

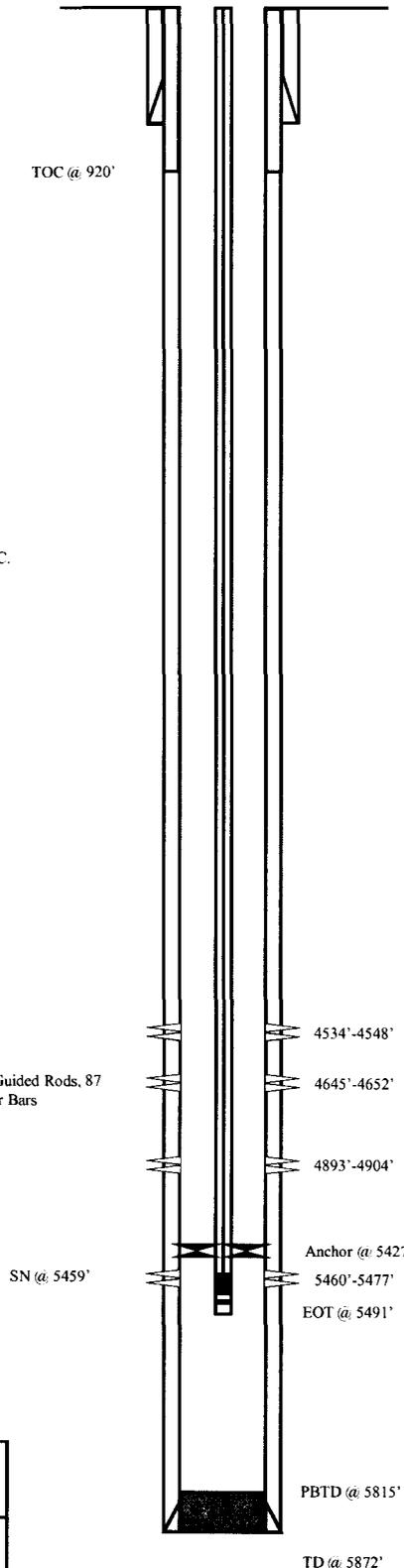
SIZE/GRADE/WT.: 2-3/8" / J-55 / 4.7#  
 NO. OF JOINTS: 181 jts (5413.8')  
 TUBING ANCHOR: 5426.8'  
 NO. OF JOINTS: 1 jt (29.5')  
 SEATING NIPPLE: 2-3/8" (1.10')  
 SN LANDED AT: 5459.1'  
 NO. OF JOINTS: 1 jt (30.1')  
 NOTCHED COLLAR: 2-3/8" (0.5')  
 TOTAL STRING LENGTH: EOT @ 5491'

#### SUCKER RODS (KS 8/28/10)

POLISHED ROD: 1-1/4" x 16' Polished Rods  
 SUCKER RODS: 2 x 2', 4', 6' x 3/4" Pony Rods, 85 x 3/4" 4per Guided Rods, 87 x 3/4" Sucker Rods, 41 x 3/4" 4per Guided Rods, 4 x 1-1/2" Sinker Bars  
 PUMP SIZE: 2" x 1-1/4" x 12' x 16' RHAC  
 STROKE LENGTH: 62"  
 PUMP SPEED, SPM: 3.7  
 PUMPING UNIT: LUFKIN C-160D-173-74

#### FRAC JOB

7/19/82	5460'-5477'	<b>Frac zone as follows:</b> 30,500# 20/40 + 6,000# 10-20 sand in 643 bbls Ver 140 fluid. Treated @ avg press of 1650 psi w/avg rate of 15 BPM. ISIP 1620 psi.
8/09/82	4893'-4904'	<b>Frac zone as follows:</b> 19,500# 20/40 + 6,000# 10-20 sand in 560 bbls Ver 140 fluid. Treated @ avg press of 2000 psi w/avg rate of 10 BPM. ISIP 2120 psi.
8/21/82	4534'-4652'	<b>Frac zone as follows:</b> 44,500# 20/40 + 12,000# 10-20 sand in 905 bbls Ver 140 fluid. Treated @ avg press of 2600 psi w/avg rate of 15 BPM. ISIP 1920 psi.
11/6/01		Tbg leak. Update rod and tubing details.
11/20/01		Pump change. Update rod details.
5-31-05		Pump change. Update rod details.
8/18/09		Tubing Leak. Updated rod & tubing detail.
8/26/2010		Parted rods. Updated rod and tubing detail.



#### PERFORATION RECORD

4534'-4548'	2 JSPF	28 holes
4645'-4652'	2 JSPF	14 holes
4893'-4904'	2 JSPF	22 holes
5460'-5477'	2 JSPF	34 holes



**Castle Peak #24-15-9-16**  
 659' FSL & 1980' FWL  
 SESW Section 15-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-30631; Lease #U-74805

## State 16-16-9-16

Spud Date: 05-03-08  
 Put on Production: 05-12-08  
 GL: 5879' KB: 5891'

### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7jts (305.64')  
 DEPTH LANDED: 316'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: To Surface with 160 sx Class 'G' cmt

#### PRODUCTION CASING

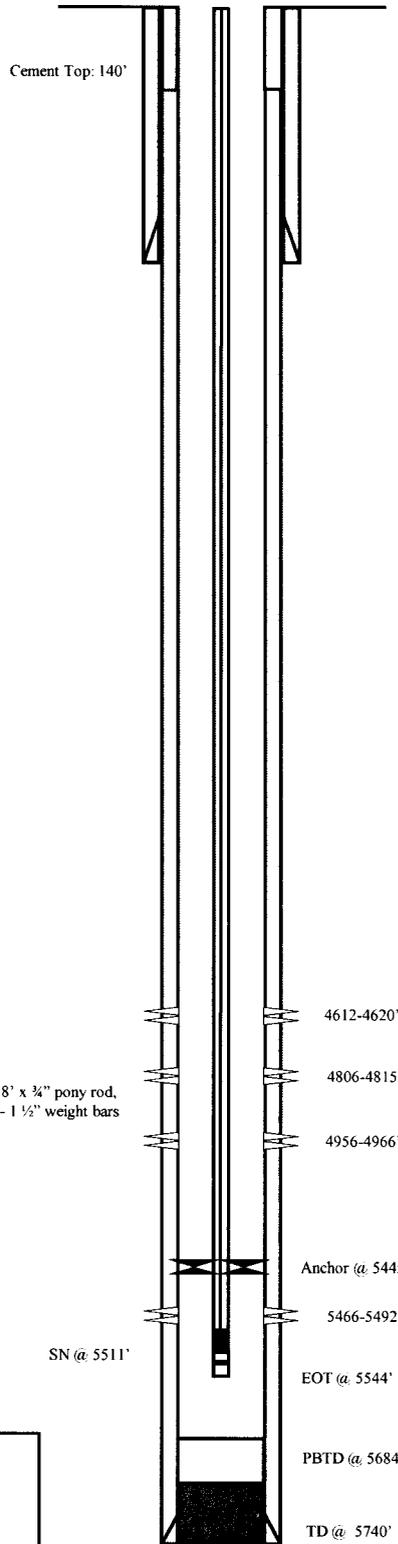
CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 139jts  
 HOLE SIZE: 7-7/8"  
 DEPTH LANDED: 5732'  
 CEMENT DATA: 275 sx Premlite II and 400 sx 50/50 Poz  
 CEMENT TOP AT: 140'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55  
 NO. OF JOINTS: 173 jts (5432.6')  
 TUBING ANCHOR: 5444.6'kb  
 NO. OF JOINTS: 2jts (63.0')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5510.4'kb  
 NO. OF JOINTS: 1 jt. (31.3')  
 TOTAL STRING LENGTH: EOT @ 5543'

#### SUCKER RODS

POLISHED ROD: 1-1/2" x 26'  
 SUCKER RODS: 1-2' x 3/4" pony rod, 1-6' x 3/4" pony rod, 1-8' x 3/4" pony rod, 98- 3/4" guided rods, 43- 3/4" sucker rods, 71- 3/4" guided rods, 6- 1 1/2" weight bars  
 PUMP SIZE: CDI 2 1/2" x 1 1/2" x 17' RHAC  
 STROKE LENGTH: 86"  
 PUMP SPEED, SPM: 5



#### FRAC JOB

6-16-08 5466-5492' **RU BJ & frac CPI sds as follows:**  
 56,437# 20/40 sand in 509 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 1203 w/ ave rate of 23.5 bpm w/ 8 ppg of sand. ISIP was 1603. Actual Flush: 5006 gals.

6-16-08 4956-4966' **RU BJ & frac stage #2 as follows:**  
 47,866# 20/40 sand in 458 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2113 w/ ave rate of 23.3 bpm w/ 8 ppg of sand. ISIP was 2460. Actual Flush: 4523 gals.

6-16-08 4806-4815' **RU BJ & frac stage #3 as follows:**  
 19,736# 20/40 sand in 307 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 1699 w/ ave rate of 23.2 bpm w/ 6 ppg of sand. ISIP was 1822. Actual Flush: 4347 gals.

6-16-08 4612-4620' **RU BJ & frac stage #4 as follows:**  
 16,608# 20/40 sand in 290 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 1953 w/ ave rate of 23.4 bpm w/ 6 ppg of sand. 1699 bbls EWTR. ISIP was 1888. Actual Flush: 4615 gals.

7/28/08 Pump Change. Updated rod & tubing details.

3-13-09 Tubing Leak. Updated r & t details.

10/19/09 Pump Change. Updated rod & tubing detail.

6/17/2010 Tubing leak. Updated rod and tubing detail.

#### PERFORATION RECORD

4612-4620'	4 JSPF	32 holes
4806-4815'	4 JSPF	36 holes
4956-4966'	4 JSPF	40 holes
5466-5492'	4 JSPF	104 holes

**NEWFIELD**

State 16-16-9-16  
 658' FSL & 664' FEL  
 SE/SE Section 16 T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33854; Lease # Utah State ML-16532

Spud Date: 07/31/09  
 Put on Production: 09/02/09  
 GL: 5970' KB: 5982'

# Federal 9-21-9-16

## Injection Wellbore Diagram

### SURFACE CASING

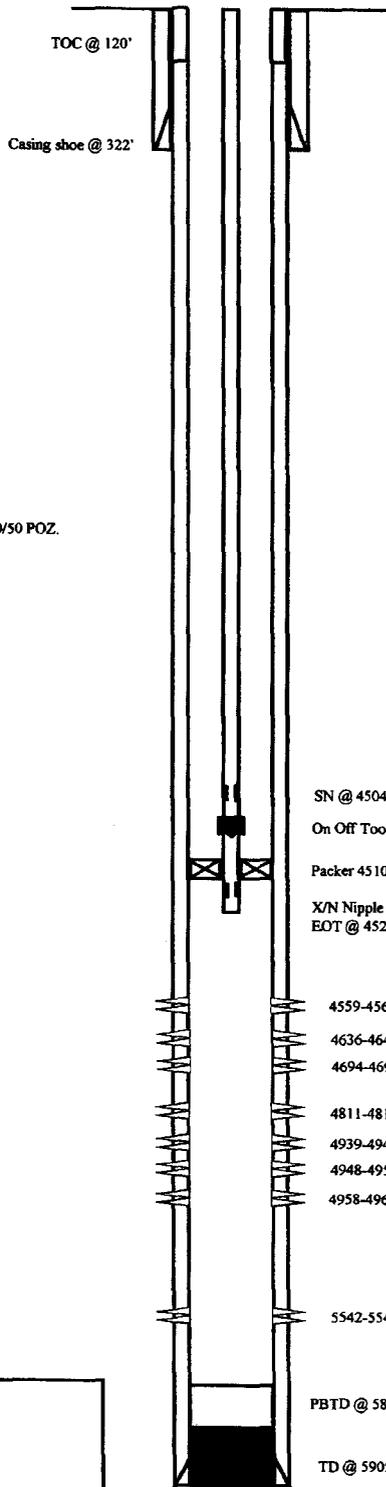
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 6 jts. (264')  
 DEPTH LANDED: 322'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 140 jts. (5836')  
 HOLE SIZE: 7-7/8"  
 DEPTH LANDED: 5887.85'  
 CEMENT DATA: 260 sk Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP AT: 120'

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 141 jts (4492.4')  
 SEATING NIPPLE: 2-7/8" (1.1')  
 SN LANDED AT: 4504.4' KB  
 ON/OFF TOOL AT 4505.5'  
 PACKER 5-1/2" AT: 4510'  
 XO AT: 4513'  
 TBG PUP 2-3/8" AT: 4514.4'  
 X/N NIPPLE AT: 4518.6'  
 TOTAL STRING LENGTH: EOT @ 4520'



### FRAC JOB

9-2-09 5542-5548' Frac CP3 sands as follows: Frac with 15136# 20/40 sand in 122 bbls Lightning 17 fluid.  
 9-2-09 4939-4964' Frac A3 sands as follows: Frac with 115669# 20/40 sand in 698 bbls Lightning 17 fluid.  
 9-2-09 4811-4817' Frac B2 sands as follows: Frac with 25293# 20/40 sand in 204 bbls Lightning 17 fluid.  
 9-2-09 4559-4699' Frac C, D1, & D3 sands as follows: Frac with 111451# 20/40 sand in 635 bbls Lightning 17 fluid.  
 11/25/10 Pump Change. Rod & tubing updated.  
 3/30/11 Tubing leak. Rod & tubing detail updated.  
 09/12/12 Convert to Injection Well  
 09/14/12 Conversion MIT Finalized - update tbg detail

### PERFORATION RECORD

5542-5548'	3 JSPF	18 holes
4958-4964'	3 JSPF	18 holes
4948-4950'	3 JSPF	6 holes
4939-4941'	3 JSPF	6 holes
4811-4817'	3 JSPF	18 holes
4694-4699'	3 JSPF	15 holes
4636-4640'	3 JSPF	12 holes
4559-4561'	3 JSPF	6 holes

**NEWFIELD**

Federal 9-21-9-16  
 2303' FSL & 582' FEL  
 NE/SE Section 21-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33145; Lease #UTU-74392

Units of Measurement: **Standard**

**Water Analysis Report**

Production Company: **NEWFIELD PRODUCTION**  
Well Name: **Mon 11-22-9-16**  
Sample Point: **Well**  
Sample Date: **11/4/2013**  
Sample ID: **WA-262502**

Sales Rep: **Michael McBride**  
Lab Tech: **Gary Winegar**

Scaling potential predicted using ScaleSoftPitzer from  
Brine Chemistry Consortium (Rice University)

Sample Specifics		Analysis @ Properties in Sample Specifics			
Test Date:	11/12/2013	Cations		Anions	
		mg/L		mg/L	
System Temperature 1 (°F):	120	Sodium (Na):	8283.00	Chloride (Cl):	6000.00
System Pressure 1 (psig):	60	Potassium (K):	59.00	Sulfate (SO4):	99.00
System Temperature 2 (°F):	210	Magnesium (Mg):	14.00	Bicarbonate (HCO3):	1683.00
System Pressure 2 (psig):	60	Calcium (Ca):	22.00	Carbonate (CO3):	
Calculated Density (g/ml):	1.010	Strontium (Sr):	8.00	Acetic Acid (CH3COO)	
pH:	7.70	Barium (Ba):	1.60	Propionic Acid (C2H5COO)	
Calculated TDS (mg/L):	16201.88	Iron (Fe):	6.20	Butanoic Acid (C3H7COO)	
CO2 in Gas (%):		Zinc (Zn):	0.30	Isobutyric Acid ((CH3)2CHCOO)	
Dissolved CO2 (mg/L):	0.00	Lead (Pb):	0.02	Fluoride (F):	
H2S in Gas (%):		Ammonia NH3:		Bromine (Br):	
H2S in Water (mg/L):	0.00	Manganese (Mn):	0.08	Silica (SiO2):	25.68

**Notes:**

**B=68 Al=.13 LI=19**

(PTB = Pounds per Thousand Barrels)

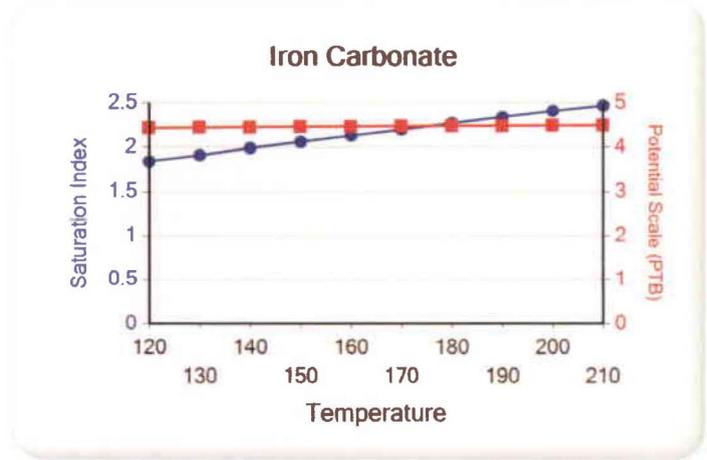
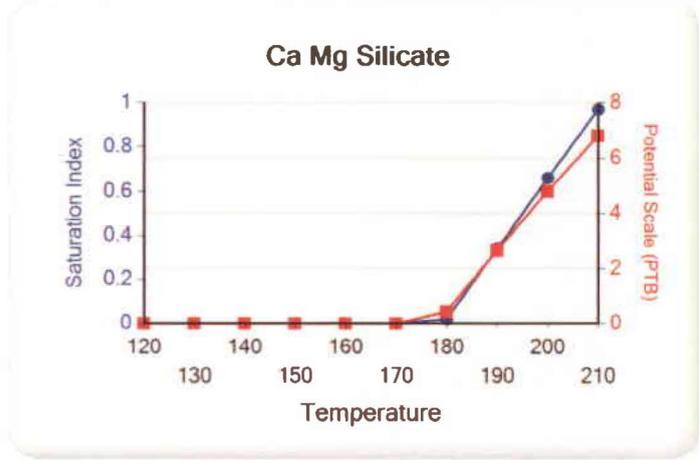
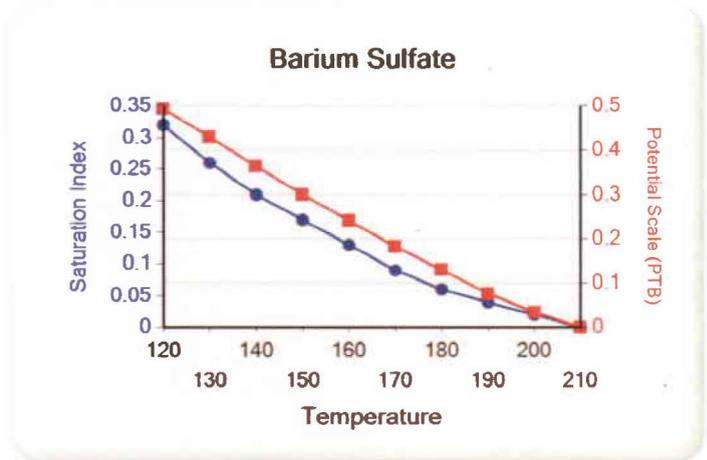
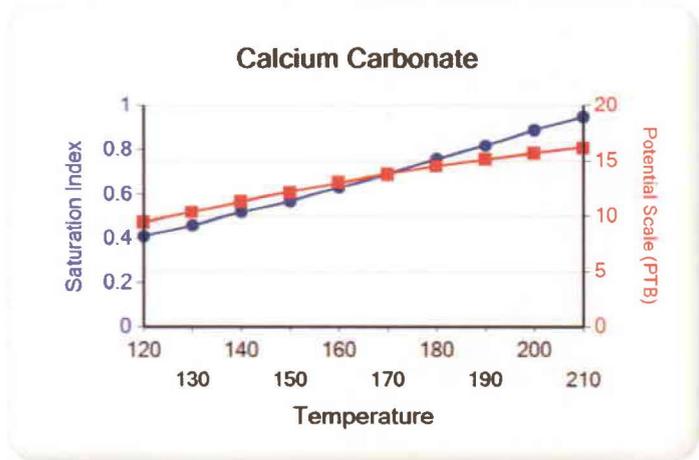
Temp (°F)	PSI	Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO4·2H2O		Celestite SrSO4		Halite NaCl		Zinc Sulfide	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
210.00	60.00	0.95	16.22	0.00	0.00	0.00	0.00	2.47	4.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	60.00	0.89	15.71	0.02	0.04	0.00	0.00	2.41	4.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
190.00	60.00	0.82	15.14	0.04	0.08	0.00	0.00	2.34	4.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.00	60.00	0.76	14.51	0.06	0.13	0.00	0.00	2.27	4.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.00	60.00	0.69	13.81	0.09	0.18	0.00	0.00	2.20	4.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.00	60.00	0.63	13.05	0.13	0.24	0.00	0.00	2.13	4.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.00	60.00	0.57	12.23	0.17	0.30	0.00	0.00	2.06	4.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.00	60.00	0.52	11.35	0.21	0.36	0.00	0.00	1.99	4.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.00	60.00	0.46	10.42	0.26	0.43	0.00	0.00	1.91	4.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.00	60.00	0.41	9.46	0.32	0.49	0.00	0.00	1.84	4.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Water Analysis Report

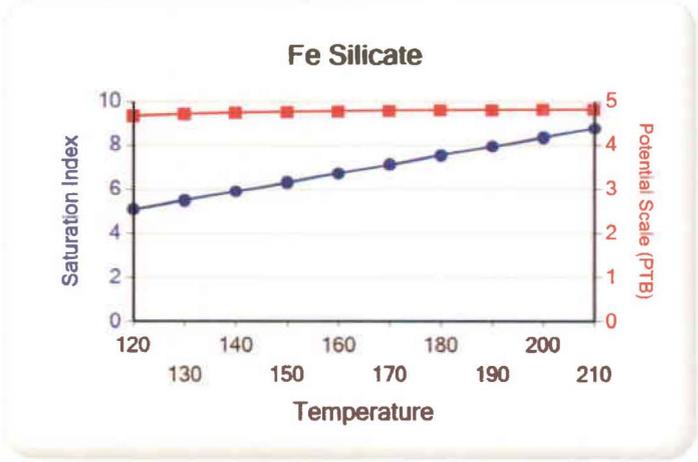
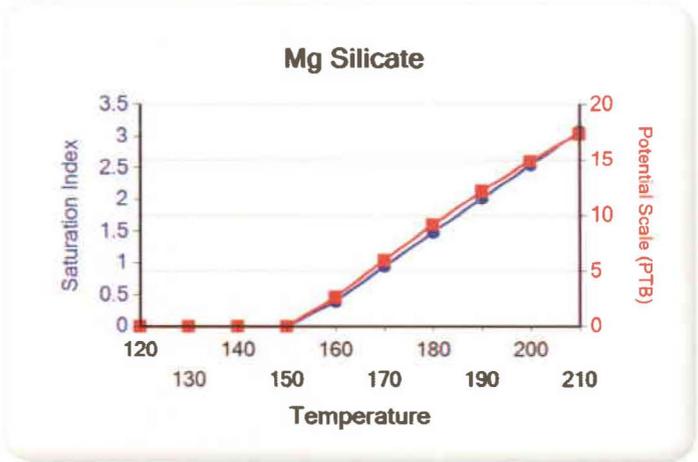
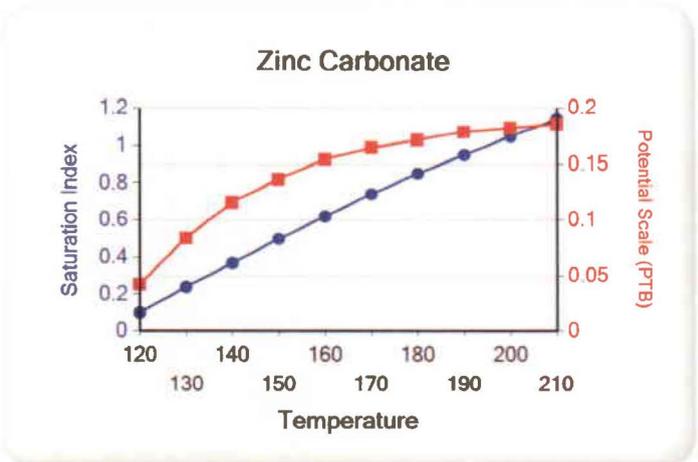
Temp (°F)	PSI	Hemihydrate CaSO4·0.5H2O		Anhydrate CaSO4		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
210.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.14	0.19	0.00	0.00	3.07	17.37	0.97	6.80	8.76	4.81
200.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05	0.18	0.00	0.00	2.55	14.93	0.66	4.80	8.35	4.81
190.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.95	0.18	0.00	0.00	2.02	12.18	0.34	2.66	7.95	4.81
180.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85	0.17	0.00	0.00	1.49	9.17	0.02	0.43	7.54	4.80
170.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.74	0.16	0.00	0.00	0.95	5.96	0.00	0.00	7.13	4.79
160.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.15	0.00	0.00	0.40	2.64	0.00	0.00	6.72	4.78
150.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.14	0.00	0.00	0.00	0.00	0.00	0.00	6.31	4.76
140.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.12	0.00	0.00	0.00	0.00	0.00	0.00	5.90	4.74
130.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.08	0.00	0.00	0.00	0.00	0.00	0.00	5.49	4.71
120.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.04	0.00	0.00	0.00	0.00	0.00	0.00	5.09	4.67

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

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



Water Analysis Report



Units of Measurement: **Standard**

## Water Analysis Report

Production Company: **NEWFIELD PRODUCTION**  
 Well Name: **WELLS DRAW INJ FACILITY**  
 Sample Point: **Commingled After Filter**  
 Sample Date: **11/18/2013**  
 Sample ID: **WA-259493**

Sales Rep: **Jacob Bird**  
 Lab Tech: **Gary Winegar**

Scaling potential predicted using ScaleSoftPitzer from  
 Brine Chemistry Consortium (Rice University)

Sample Specifics		Analysis @ Properties in Sample Specifics			
Test Date: 11/26/2013		Cations mg/L		Anions mg/L	
System Temperature 1 (°F):	120	Sodium (Na):	141.00	Chloride (Cl):	1000.00
System Pressure 1 (psig):	2000	Potassium (K):	39.00	Sulfate (SO4):	41.00
System Temperature 2 (°F):	210	Magnesium (Mg):	24.00	Bicarbonate (HCO3):	1122.00
System Pressure 2 (psig):	2000	Calcium (Ca):	41.00	Carbonate (CO3):	
Calculated Density (g/ml):	0.999	Strontium (Sr):	0.70	Acetic Acid (CH3COO)	
pH:	6.50	Barium (Ba):	0.00	Propionic Acid (C2H5COO)	
Calculated TDS (mg/L):	2413.76	Iron (Fe):	0.11	Butanoic Acid (C3H7COO)	
CO2 in Gas (%):		Zinc (Zn):	0.03	Isobutyric Acid ((CH3)2CHCOO)	
Dissolved CO2 (mg/L):	24.00	Lead (Pb):	0.00	Fluoride (F):	
H2S in Gas (%):		Ammonia NH3:		Bromine (Br):	
H2S in Water (mg/L):	0.00	Manganese (Mn):	0.00	Silica (SiO2):	4.92

Notes:  
**B=.4 A=.18 Li=0**

(PTB = Pounds per Thousand Barrels)

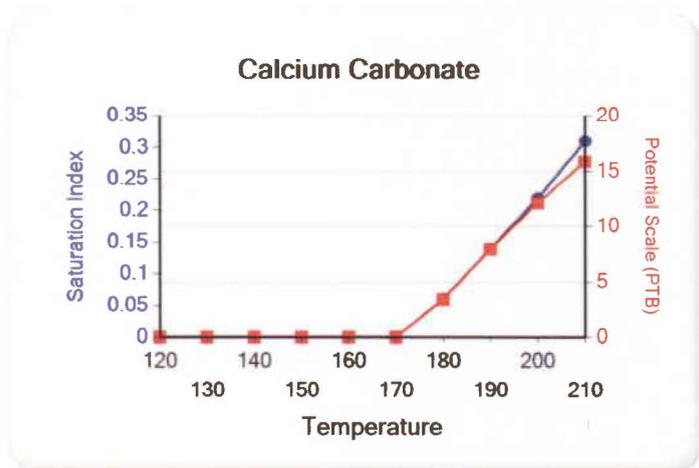
Temp (°F)	PSI	Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO4·2H2O		Celestite SrSO4		Halite NaCl		Zinc Sulfide	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
210.00	2000.00	0.31	15.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	2000.00	0.22	12.10	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	2000.00	0.14	7.94	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	2000.00	0.06	3.37	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	2000.00	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	2000.00	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	2000.00	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	2000.00	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	2000.00	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	2000.00	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

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	2000.00	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	2000.00	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	2000.00	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	2000.00	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	2000.00	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	2000.00	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	2000.00	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	2000.00	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	2000.00	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	2000.00	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

These scales have positive scaling potential under final temperature and pressure:



**Attachment "G"**

**Monument Federal #11-22-9-16  
Proposed Maximum Injection Pressure**

Frac Interval (feet)		Avg. Depth (feet)	ISIP (psi)	Calculated Frac Gradient (psi/ft)	Pmax
Top	Bottom				
4754	4761	4758	1400	0.73	1369
4871	4878	4875	1300	0.70	1268 ←
4057	4066	4062	1400	0.78	1374
				<b>Minimum</b>	<u><u>1268</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.

**EREC/Western Region  
DAILY OPERATING REPORT**

**MONUMENT FEDERAL #11-22-9-16Y**

**Location: NW NW Section 22, T9S, R16E  
Duchesne County, Utah**

---TIGHT HOLE---

- 09/04/96 Completion  
Dress up loc., set rig anchors, set rig pump & tanks. MIRU Basin well service rig.
- 09/05/96 Completion  
TIH w/4-3/4" bit, 5-1/2" csg scrapper & 180 jts 2-7/8" tbg. Tag PBSD @ 5614' KB. Circulate hole clean w/130 bbls 2% KCL wtr. TOO H w/tbg & tools. RU Schlumberger to run CBL & perf. Tun CBL from 5608' KB to surface w/1000 psi. TOC @ 1582' KB. Perf 4754' - 4761', 4871' - 4878', 4880' - 4884', 2 SPF. Tih w/TS RBP, retrieving tool, 2-3/8" x 6' sub, SN & 157 jts 2-7/8" tbg. Set BP @ 4935' KB, EOT @ 4693' KB, pkr @ 4701' KB. SWIFN.  
DC: \$8,704 CC: \$121,304
- 09/06/96 Completion  
Reset BP @ 4800' KB. EOT @ 4693' KB, pkr @ 4701' KB. RU BJ Services & break down 4754' - 4761' w/1428 gals 2% KCL wtr. ATP = 1900 psi, ATR = 3.0 bpm, ISIP = 1400 psi. Used 34 bbls wtr. Reset BP @ 4938' KB, EOT @ 4843' KB, pkr @ 4835' KB. Break down 4871' - 4878' & 4880' - 4884' w/1596 gals 2% KCL wtr. ATR = 1600 psi, ATR = 3.0 bpm, ISIP = 1300 psi. Used 38 bbls wtr. TOO H w/tbg, pkr & retrieving tool. SWIFN.  
DC: \$4,407 CC: \$13,111
- 09/07/96 Completion  
RU BJ Services & frac 4754' - 4884' w/24,402 gals 2% KCL wtr & 80,100 lbs 16/30 sand. ATP = 2200 psi, ATR = 35.4 bpm, ISIP = 2100 psi, 5 min = 1780 psi, 10 min = 1690 psi, 15 min = 1640 psi. Used 581 bbls wtr. RU Schlumberger to set HE BP & perf. Set BP @ 4110' KB. Perf 4057' - 4066', 4 SPF. Tih w/HD pkr & 127 jts tbg. Set pkr @ 3992' KB. Break down 4057' - 4066' w/2268 gals 2% KCL wtr. ATP = 2000 psi, ATR = 3.5 bpm, ISIP = 1400 psi. Used 54 bbls wtr. TOO H w/tbg & pkr. Frac 4057' - 4066' w/14,532 gals 2% KCL wtr & 39,000 lbs 16/30 sand. ATP = 2000 psi, ATR = 31.0 bpm, ISIP = 1600 psi, 5 min = 1400 psi, 10 min = 1290 psi, 15 min = 1230 psi, 30 min = 1130 psi. Used 346 bbls wtr. Start forced closure flow back, .5 bpm. Flow back 119 bbls wtr & trace of sand. TIH w/125 jts tbg & retrieving tool. SWIFN.  
DC: \$50,371 CC: \$63,482
- 09/08/96 Completion  
Bleed well down. Tag sand @ 4040' KB. Circulate down to BP @ 4110' KB. Retrieve HE BP. TOO H w/tbg & BP. TIH w/retrieving tool, 2-3/8" x 6' sub, HD pkr, SN, & 155 jts 2-7/8" tbg. Tag sand @ 4890' KB. Circulate down to BP @ 4935' KB. Set pkr @ 3992' KB. Made 14 swab runs. Recovered 9 bbls oil & 94 bbls wtr, no sand. Oil 20% last 3 runs. Fluid level @ 2000' last 7 runs. SWIFN.  
DC: \$1,460 CC: \$64,942

EREC/Western Region  
DAILY OPERATING REPORT

MONUMENT FEDERAL #11-22-9-16Y

Location: NW NW Section 22, T9S, R16E  
Duchesne County, Utah

---TIGHT HOLE---

09/09/96 Completion  
Fluid level @ 700'. Made 18 swab runs. Recovered 88 bbls oil & 49 bbls wtr, no sand, gas cut. Oil 80% last 10 runs. Release pkr, tag sand @ 4920' KB. Circulate down to BP @ 4935' KB. Release BP. TOO H w/tbg, pkr & BP. ND BOP, ND 5M well head, NU 3M well head. NU BOP. SWIFN.  
DC: \$1,836 CC: \$66,778

09/10/96 Completion  
TIH w/production string (tbg) as follows:

	<u>LENGTH</u>	<u>DEPTH KB</u>
1 - Notched-pinned collar	.40'	4968.16'
1 - jt 2-7/8" EUE M-50 8rd 6.5#	31.48'	4967.76'
1 - perf sub 2-7/8" x 4'	4.12'	4936.28'
1 - SN 2-7/8"	1.10'	4932.16'
30 - jts 2-7/8" EUE M-50 8rd 6.5#	938.30'	4931.06'
1 - tbg anchor 2-7/8" x 5-1/2" (TRICO)	2.82'	3992.76'
127 - jts 2-7/8" EUE J-55 8rd 6.5#	3979.94'	3989.94'
KB	10.00'	

ND BOP, ND 5M well head, NU 3M well head. Set tbg anchor w/13" 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 #1190)
- 1 - 7/8" x 2' Pony w/2-1/2" guides
- 1 - K-bar 1-1/2" x 25'
- 1 - Pony 7/8" x 2' w/2-1/2" guides
- 194 - 3/4" x 25' D-61 Plain
- 1 - Pony 3/4" x 8'
- 1 - Pony 3/4" x 4'
- 1 - Pony 3/4" x 2'
- 1 - Polish rod 1-1/4" x 22'

Press test DHP & tbg to 500 psi, OK. Used 4 bbls wtr. RDMO.

DC: \$26,531

CC: \$93,309

09/26/96 Completion  
Start well pumping. 8-1/2 SPM. 71" stroke.  
DC: \$29,589

CC: \$122,898

## ATTACHMENT H

### WORK PROCEDURE FOR PLUGGING AND ABANDONMENT

1. Set CIBP @ 4007'
2. Plug #1 Set 100' plug on top of CIBP using 12 sx Class "G" cement
3. Plug #2 173' balance plug using 20 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 14 sx Class "G" cement 60' above Uinta/Green River and extending 60' below
5. Perforate 4 JSPF @ 308'
6. Plug #4 Circulate 105 sx Class "G" cement down 5 1/2" and up the 5 1/2" x 8 5/8" annulus

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

## Monument Federal #11-22

Spud Date:

Put on Production: 9/26/1996

GL: 5917' KB: 5927'

### Proposed P & A Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8 5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 jts. (248.10')

DEPTH LANDED: 258.10' KB

HOLE SIZE: 12 1/4"

CEMENT DATA: 160sxs Class "G" mixed cmt, est 5 bbls cmt to surf.

#### PRODUCTION CASING

CSG SIZE: 5 1/2"

GRADE: J-55

WEIGHT: 15.5#

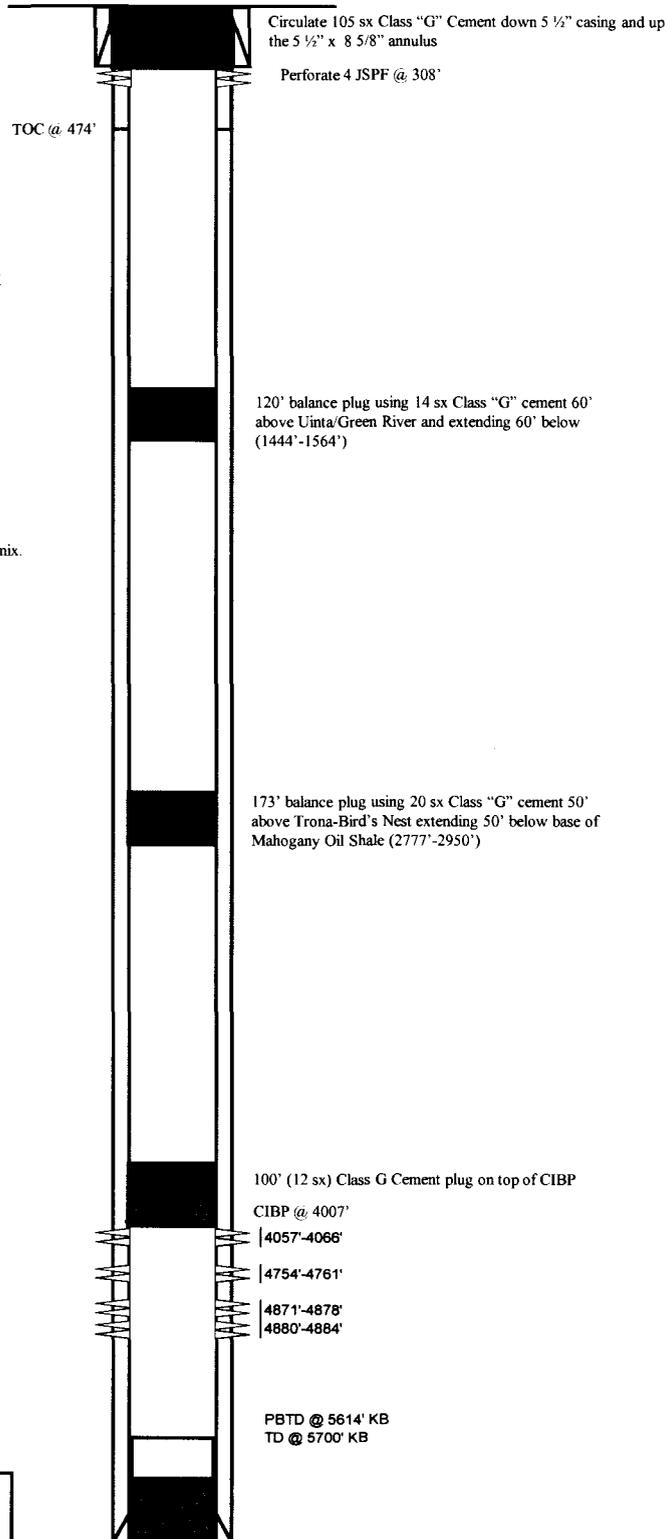
LENGTH: 145 jts. (5648.71')

DEPTH LANDED: 5658.71' KB

HOLE SIZE: 7 7/8"

CEMENT DATA: 325 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ mix.

CEMENT TOP AT: 474'




<p><b>Monument Federal 11-22-9-16Y</b>          957' FNL &amp; 832' FWL          NW/NW Section 22-T9S-R16E          Duchesne Co, Utah          API #43-013-31647; Lease #UTU-64379</p>