

**NEWFIELD**



February 10, 2006

State of Utah  
Division of Oil, Gas & Mining  
Attn: Diana Whitney  
1594 West North Temple - Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

RE: Applications for Permit to Drill: 7-8-9-16, 8-8-9-16, 9-8-9-16, 10-8-9-16, 15-8-9-16, and 16-8-9-16.

Dear Diana:

Enclosed find APD's on the above referenced wells. The proposed 9-8-9-16 and 16-8-9-16 are Exception Locations. Our Land Department will send you the required Exception Location Letters. If you have any questions, feel free to give either Shon Mckinnon or myself a call.

Sincerely,

A handwritten signature in black ink that reads "Mandie Crozier". The signature is written in a cursive, flowing style.

Mandie Crozier  
Regulatory Specialist

mc  
enclosures

**RECEIVED**

**FEB 15 2006**

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

5. Lease Serial No.  
UTU-79833

6. If Indian, Allottee or Tribe Name  
N/A

7. If Unit or CA Agreement, Name and No.  
N/A

8. Lease Name and Well No.  
Federal 8-8-9-16

1a. Type of Work:  DRILL  REENTER

1b. Type of Well:  Oil Well  Gas Well  Other  Single Zone  Multiple Zone

2. Name of Operator  
Newfield Production Company

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

3b. Phone No. (include area code)  
(435) 646-3721

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*  
At surface SE/NE 2102' FNL 536' FEL 573782 x 40.046850  
At proposed prod. zone 4433105 y -110.135067

14. Distance in miles and direction from nearest town or post office\*  
Approximatley 15.1 miles southwest of Myton, Utah

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 538' f/lse, NA' f/unit

16. No. of Acres in lease  
440.00

17. Spacing Unit dedicated to this well  
40 Acres

18. Distance from proposed location\* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1312'

19. Proposed Depth  
6230'

20. BLM/BIA Bond No. on file  
UTB000192

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
5862' GL

22. Approximate date work will start\*  
2nd Quarter 2006

23. Estimated duration  
Approximately seven (7) days from spud to rig release.

12. County or Parish  
Duchesne

13. State  
UT

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification.
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature *Mandie Crozier* Name (Printed/Typed) Mandie Crozier Date 2/10/06

Title Regulatory Specialist

Approved by Signature *Bradley G. Hill* Name (Printed/Typed) BRADLEY G. HILL Date 02-21-06

Title Office ENVIRONMENTAL MANAGER

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

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 or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

Federal Approval of this  
Action is Necessary

RECEIVED

FEB 15 2006

DIV. OF OIL, GAS & MINING

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

## NEWFIELD PRODUCTION COMPANY

WELL LOCATION, 9 MILE 8-8-9-16,  
 LOCATED AS SHOWN IN THE SE 1/4 NE  
 1/4 OF SECTION 8, T9S, R16E, S.L.B.&M.  
 DUCHESNE COUNTY, UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAN WAS  
 PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
 MADE BY ME OR UNDER MY SUPERVISION AND THAT  
 THE SAME ARE TRUE AND CORRECT TO THE BEST OF  
 MY KNOWLEDGE AND BELIEF. No. 189377

*Stacy W. Stewart*  
 STACY W. STEWART  
 REGISTERED LAND SURVEYOR  
 REGISTRATION No. 189377  
 STATE OF UTAH

**TRI STATE LAND SURVEYING & CONSULTING**  
 180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
 (435) 781-2501

DATE SURVEYED: 1-23-06	SURVEYED BY: C.M.
DATE DRAWN: 1-27-06	DRAWN BY: M.W.
REVISED:	SCALE: 1" = 1000'

N89°54'W - 80.06 (G.L.O.)

2648.63' (Measured)

N89°39'W G.L.O. (Basis of Bearings)

N89°49'36"W - 2644.66' (Meas.)

1910  
Brass Cap

1910  
Brass Cap

1910  
Brass Cap

N00°05'56"E - 2642.17' (Meas.)

N00°04'27"W - 2640.60' (Meas.)

Brass  
Cap

2102'

200'

536'

DRILLING  
WINDOW

1910  
Brass Cap

8

**WELL LOCATION:**

**9 MILE 8-8-9-16**

ELEV. UNGRADED GROUND = 5861.9'

N00°03'W (G.L.O.)

N00°03'W (G.L.O.)

N00°09'30"E - 2645.55' (Meas.)

1910  
Brass Cap

Brass  
Cap

1910  
Brass Cap

N89°49'24"W - 2640.94' (Meas.)

N89°43'27"W - 2643.21' (Meas.)

N89°50'W - 80.02 (G.L.O.)

◆ = SECTION CORNERS LOCATED

BASIS OF ELEV;

U.S.G.S. 7-1/2 min QUAD (MYTON SW)

**9 MILE 8-8-9-16**

(Surface Location) NAD 83

LATITUDE = 40° 02' 48.74"

LONGITUDE = 110° 08' 08.52"

NEWFIELD PRODUCTION COMPANY  
FEDERAL #8-8-9-16  
SE/NE SECTION 8, T9S, R16E  
DUCHESNE COUNTY, UTAH

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. GEOLOGIC SURFACE FORMATION:

Uinta formation of Upper Eocene Age

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Uinta	0' – 2740'
Green River	2740'
Wasatch	6230'

3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:

Green River Formation 2740' – 6230' - Oil

4. PROPOSED CASING PROGRAM

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

Please refer to the Monument Butte Field SOP. See Exhibit "C".

6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:

Please refer to the Monument Butte Field SOP.

7. AUXILIARY SAFETY EQUIPMENT TO BE USED:

Please refer to the Monument Butte Field SOP.

8. TESTING, LOGGING AND CORING PROGRAMS:

Please refer to the Monument Butte Field SOP.

9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

The anticipated maximum bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered.

10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

Please refer to the Monument Butte Field SOP.

NEWFIELD PRODUCTION COMPANY  
FEDERAL #8-8-9-16  
SE/NE SECTION 8, T9S, R16E  
DUCHESNE COUNTY, UTAH

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. EXISTING ROADS

See attached Topographic Map "A"

To reach Newfield Production Company well location site Federal #8-8-9-16 located in the SE 1/4 NE 1/4 Section 8, T9S, R16E, Uintah County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.6 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southwesterly - 10.9 miles  $\pm$  to its junction with an existing road to the southeast; proceed southeasterly - 0.4 miles  $\pm$  to its junction with an existing road to the north; proceed northeasterly - 1.7 miles  $\pm$  to its junction with the beginning of the proposed access road; proceed southwesterly along the proposed access road - 2,610'  $\pm$  to the proposed well location.

2. PLANNED ACCESS ROAD

See Topographic Map "B" for the location of the proposed access road.

3. LOCATION OF EXISTING WELLS

Refer to Exhibit "B".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

All permanent surface equipment will be painted Carlsbad Canyon.  
Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

5. LOCATION AND TYPE OF WATER SUPPLY

Please refer to the Monument Butte Field SOP. See Exhibit "A".

6. SOURCE OF CONSTRUCTION MATERIALS

Please refer to the Monument Butte Field SOP.

7. METHODS FOR HANDLING WASTE DISPOSAL

Please refer to the Monument Butte Field SOP.

8. ANCILLARY FACILITIES

Please refer to the Monument Butte Field SOP.

9. WELL SITE LAYOUT

See attached Location Layout Diagram.

10. PLANS FOR RESTORATION OF SURFACE

Please refer to the Monument Butte Field SOP.

11. SURFACE OWNERSHIP - Bureau Of Land Management

12. OTHER ADDITIONAL INFORMATION

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. Archaeological Report #1030-01, 4/23/98. Paleontological Resource Survey prepared by, Wade E. Miller, 11/10/05. See attached report cover pages, Exhibit "D".

For the Federal #8-8-9-16 Newfield Production Company requests 2,610' of disturbed area be granted in Lease UTU-79833 to allow for construction of the proposed access road. **Refer to Topographic Map "B"**. The proposed access road will be an 18' crown road (9' either side of the centerline) with drainage ditches along either side of the proposed road whether it is deemed necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area. The maximum grade will be less than 8%. There will be no culverts required along this access road. There will be barrow ditches and turnouts as needed along this road. There are no fences encountered along this proposed road. There will be no new gates or cattle guards required. All construction material for this access road will be borrowed material accumulated during construction of the access road.

Newfield Production Company requests 2,610' of disturbed area be granted in Lease UTU-79833 to allow for construction of the proposed gas lines. It is proposed that the disturbed area will be 50' wide to allow for construction of a buried 6" gas gathering line, and a buried 3" poly fuel gas line. Both lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

**Water Disposal**

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

**Threatened, Endangered, And Other Sensitive Species**

**Golden Eagle:** Lease Notice Only.

**Sage Grouse:** If new construction or surface disturbing activities are scheduled to occur between March 1 and June 30, detailed surveys of the area within 0.5 mile of the proposed location must be conducted to detect the presence of sage grouse. All surveys must be conducted in accordance with the survey protocols outlined in the most recent USFWS Survey Protocol. Surveys must be completed prior to initiating new construction or surface disturbing activities. In the event that this well becomes a producing well, it must be equipped with a multi-cylinder engine or hospital muffler to reduce noise levels.

**Reserve Pit Liner**

A 12 mil liner with felt is required. Please refer to the Monument Butte Field SOP.

**Location and Reserve Pit Reclamation**

Please refer to the Monument Butte Field SOP.

The following seed mixture will be used on the topsoil stockpile, to the recontoured surface of the reserve pit, and for final reclamation: (All poundages are in pure live seed)

Crested Wheatgrass	<i>Agropyron Cristatum</i>	4 lbs/acre
Needle and Threadgrass	<i>Stipa Comata</i>	4 lbs/acre
Indian Ricegrass	<i>Oryzopsis Hymenoides</i>	4 lbs/acre

**Details of the On-Site Inspection**

The proposed Federal #8-8-9-16 was on-sited on 11/3/05. The following were present; Shon Mckinnon (Newfeild Production), Melissa Hawk (Bureau of Land Management), and Amy Torres (Bureau of Landmanagement). Weather conditions were clear and ground cover was 100% open.

**13. LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION**

Representative

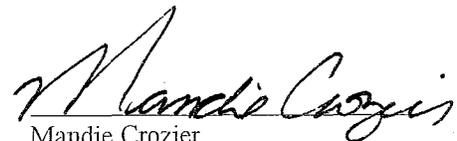
Name: Shon Mckinnon  
Address: Route #3 Box 3630  
Myton, UT 84052  
Telephone: (435) 646-3721

Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #8-8-9-16 SE/NE Section 8, Township 9S, Range 16E: Lease UTU-79833 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4488944.

I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

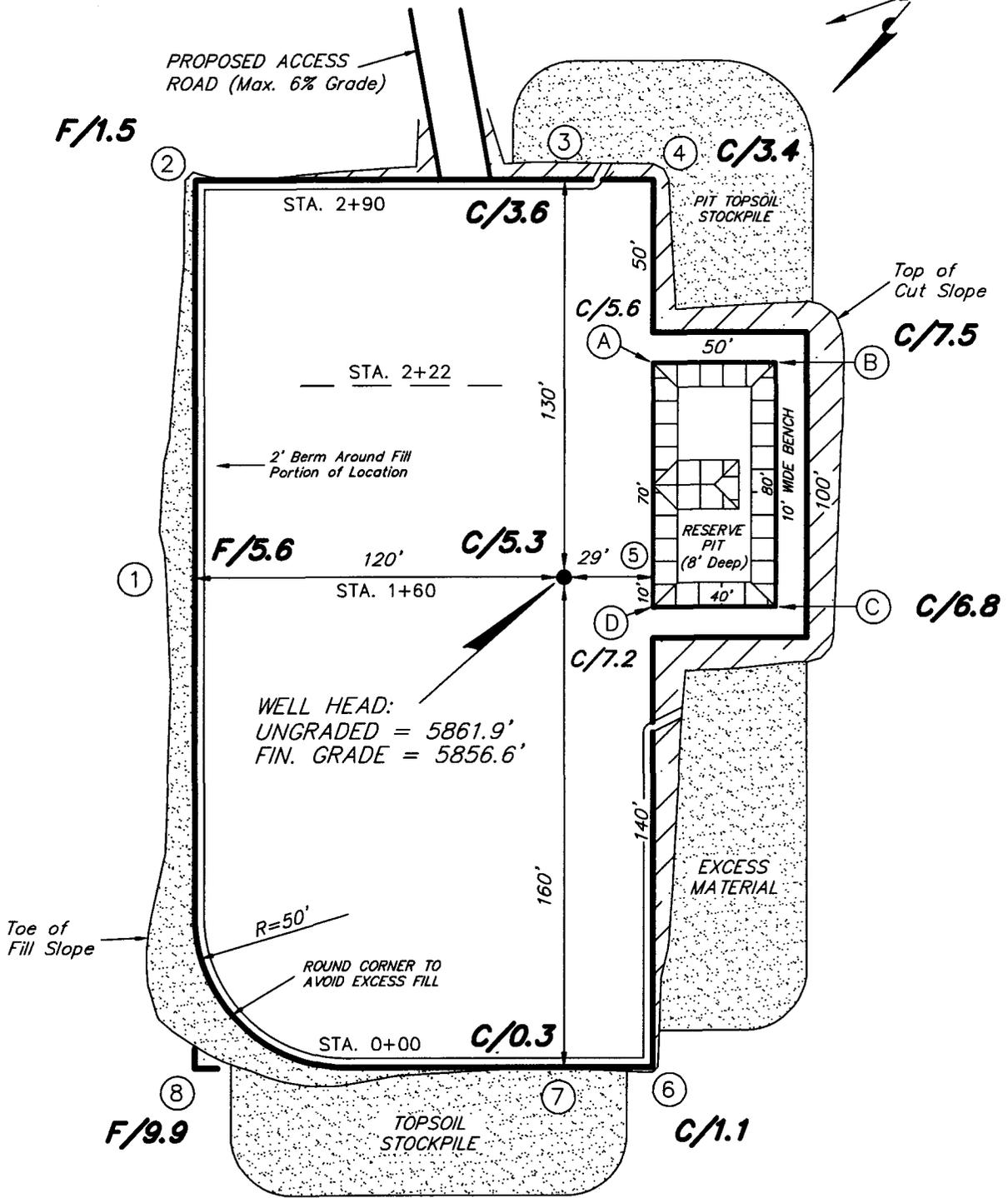
\_\_\_\_\_  
2/10/06  
Date

  
Mandie Crozier  
Regulatory Specialist  
Newfield Production Company

# NEWFIELD PRODUCTION COMPANY

9 MILE 8-8-9-16

Section 8, T9S, R16E, S.L.B.&M.



**REFERENCE POINTS**  
 210' NORTHWESTERLY = 5855.0'  
 260' NORTHWESTERLY = 5853.3'

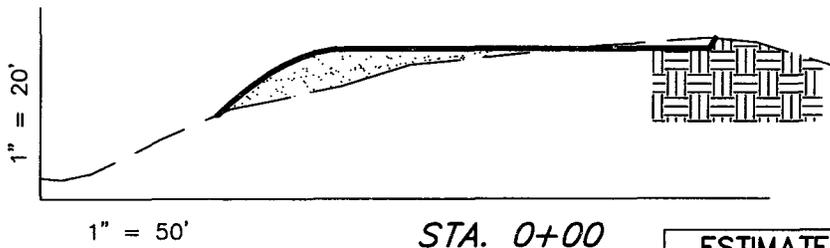
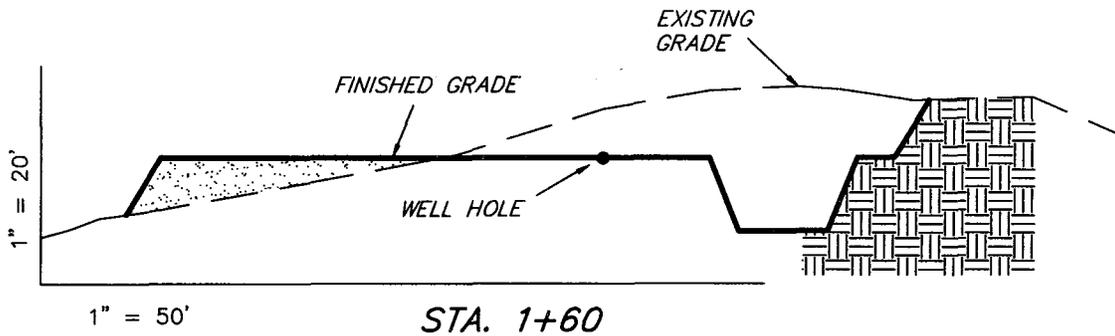
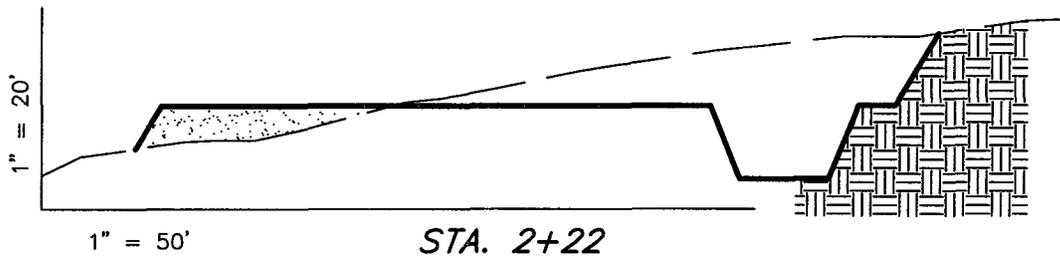
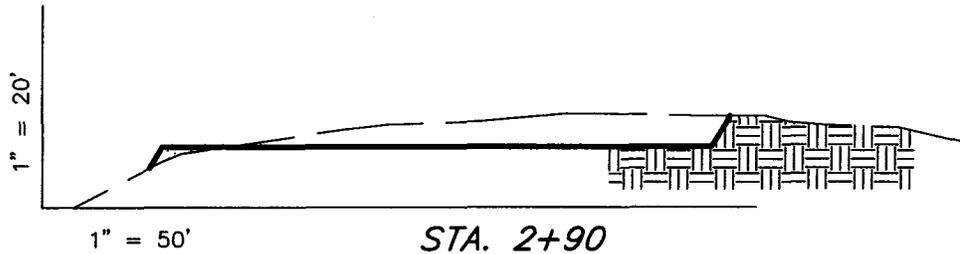
SURVEYED BY: C.M.	SCALE: 1" = 50'
DRAWN BY: M.W.	DATE: 1-27-06

**Tri State** (435) 781-2501  
 Land Surveying, Inc.  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS

### 9 MILE 8-8-9-16



NOTE:  
UNLESS OTHERWISE NOTED  
ALL CUT/FILL SLOPES ARE  
AT 1.5:1

ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)				
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	3,450	3,455	Topsoil is not included in Pad Cut	5
PIT	640	0		640
TOTALS	4,090	3,455	1,010	645

SURVEYED BY: C.M.

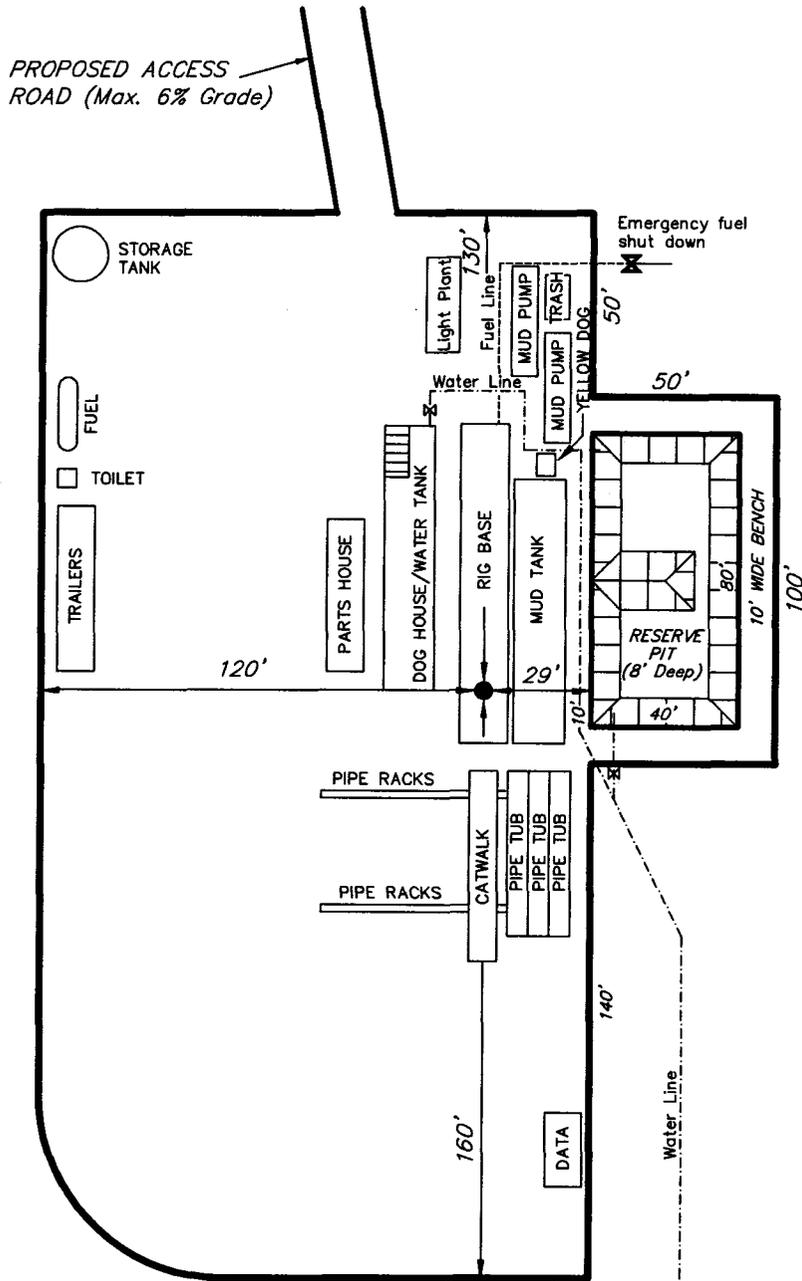
SCALE: 1" = 50'

DRAWN BY: M.W.

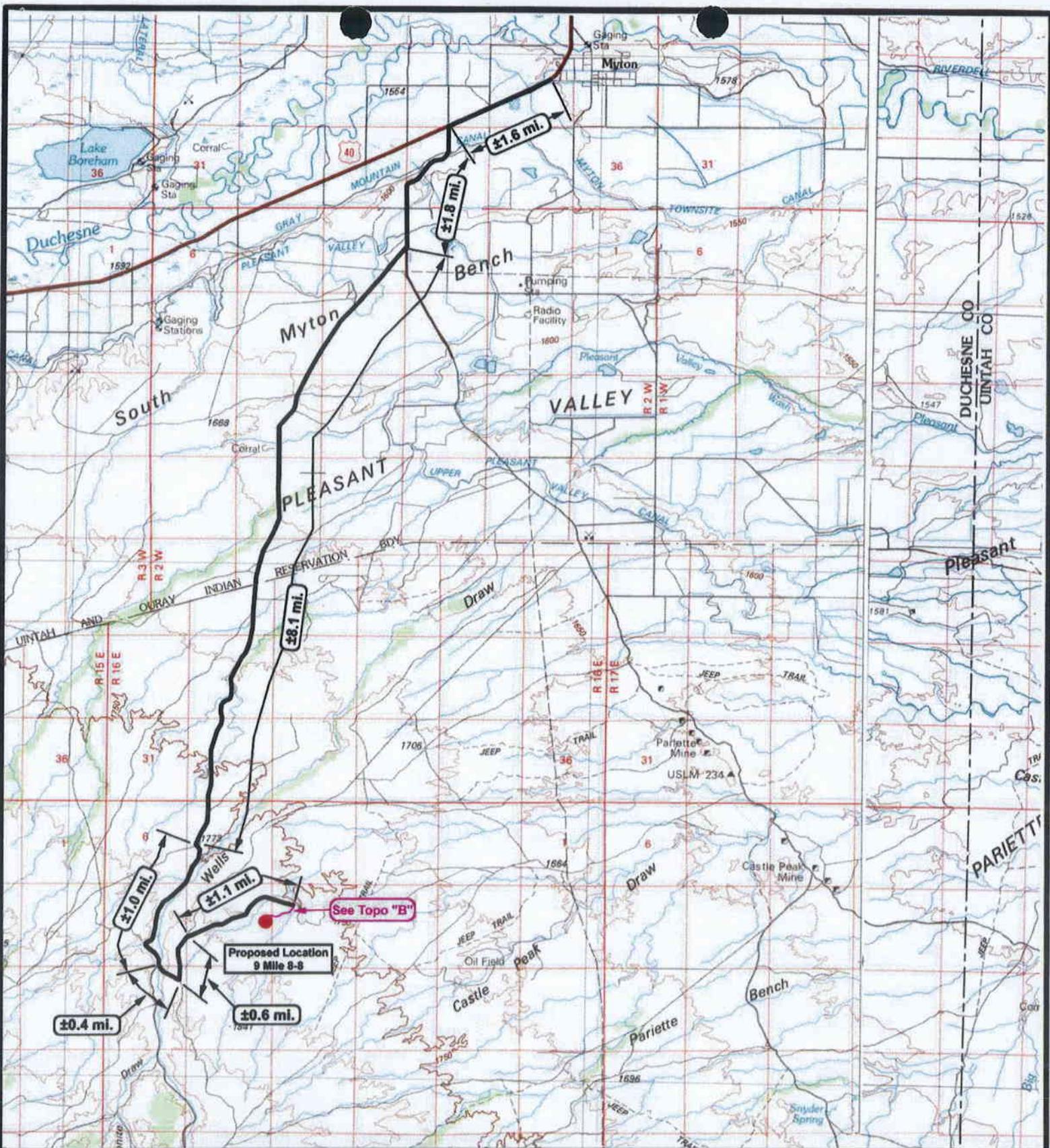
DATE: 1-27-06

**Tri State** (435) 781-2501  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

**NEWFIELD PRODUCTION COMPANY**  
**TYPICAL RIG LAYOUT**  
**9 MILE 8-8-9-16**



SURVEYED BY: C.M.	SCALE: 1" = 50'	<b>Tri State</b> Land Surveying, Inc. 180 NORTH VERNAL AVE. VERNAL, UTAH 84078 (435) 781-2501
DRAWN BY: M.W.	DATE: 1-27-06	



**NEWFIELD**  
Exploration Company

**9 Mile 8-8-9-16**  
**SEC. 8, T9S, R16E, S.L.B.&M.**



*Tri-State*  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

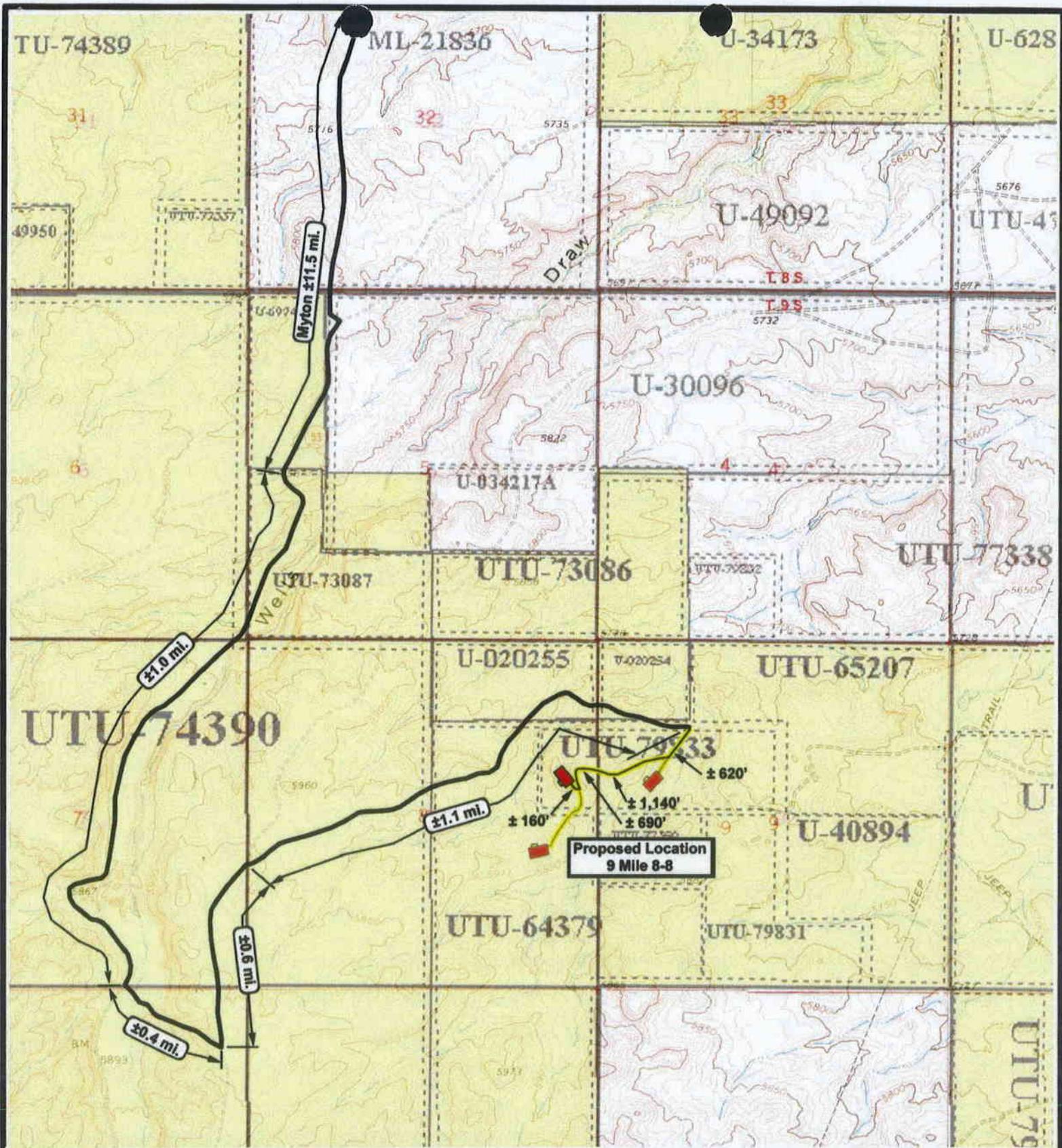
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DRAWN BY: mw  
DATE: 01-27-2006

**Legend**

- Existing Road
- Proposed Access

TOPOGRAPHIC MAP

**"A"**



**NEWFIELD**  
Exploration Company

**9 Mile 8-8-9-16**  
**SEC. 8, T9S, R16E, S.L.B.&M.**



**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

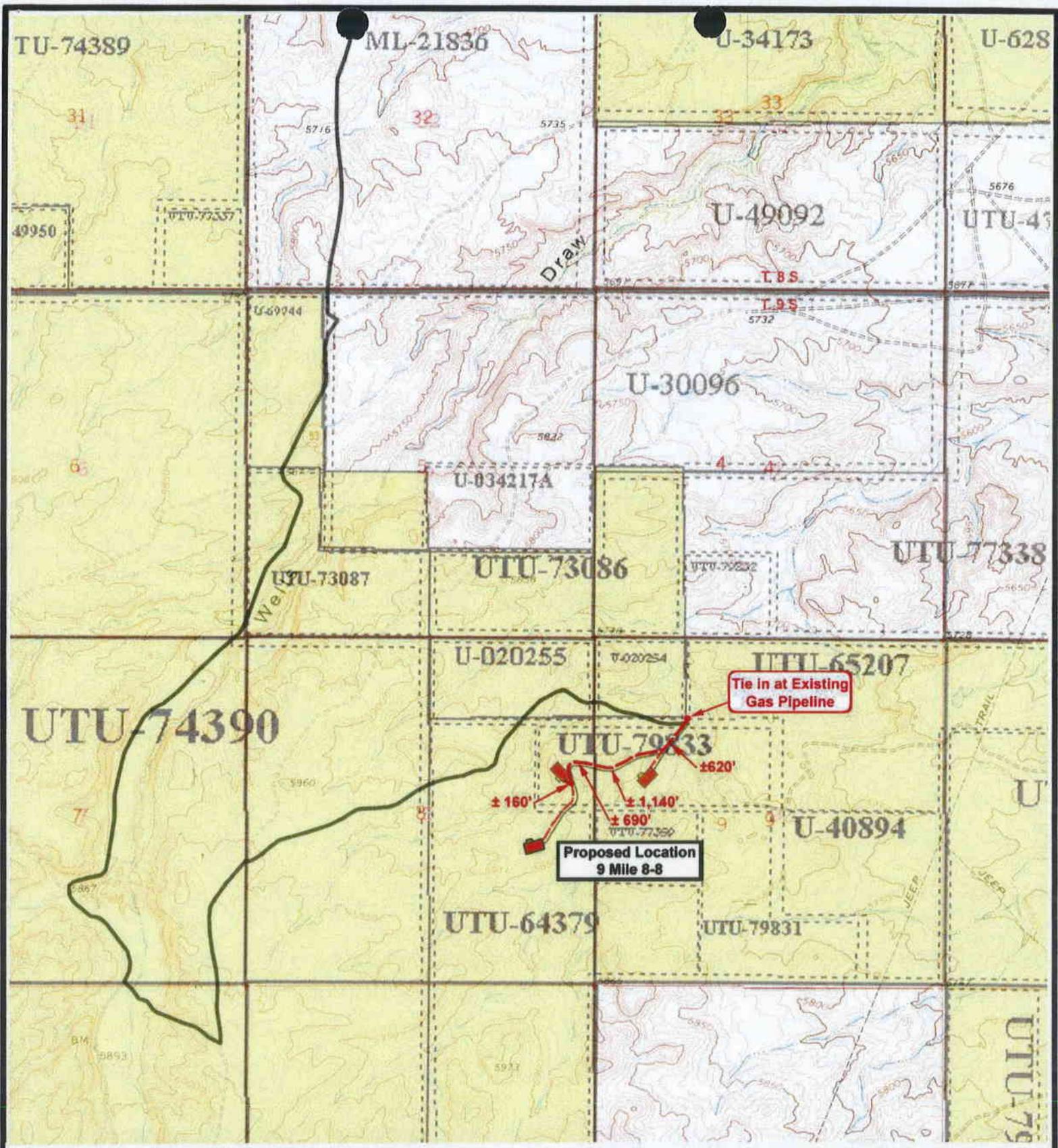
SCALE: 1" = 2,000'  
DRAWN BY: mw  
DATE: 01-27-2006

**Legend**

Existing Road  
Proposed Access

**TOPOGRAPHIC MAP**

**"B"**



**NEWFIELD**  
Exploration Company

**9 Mile 8-8-9-16**  
**SEC. 8, T9S, R16E, S.L.B.&M.**



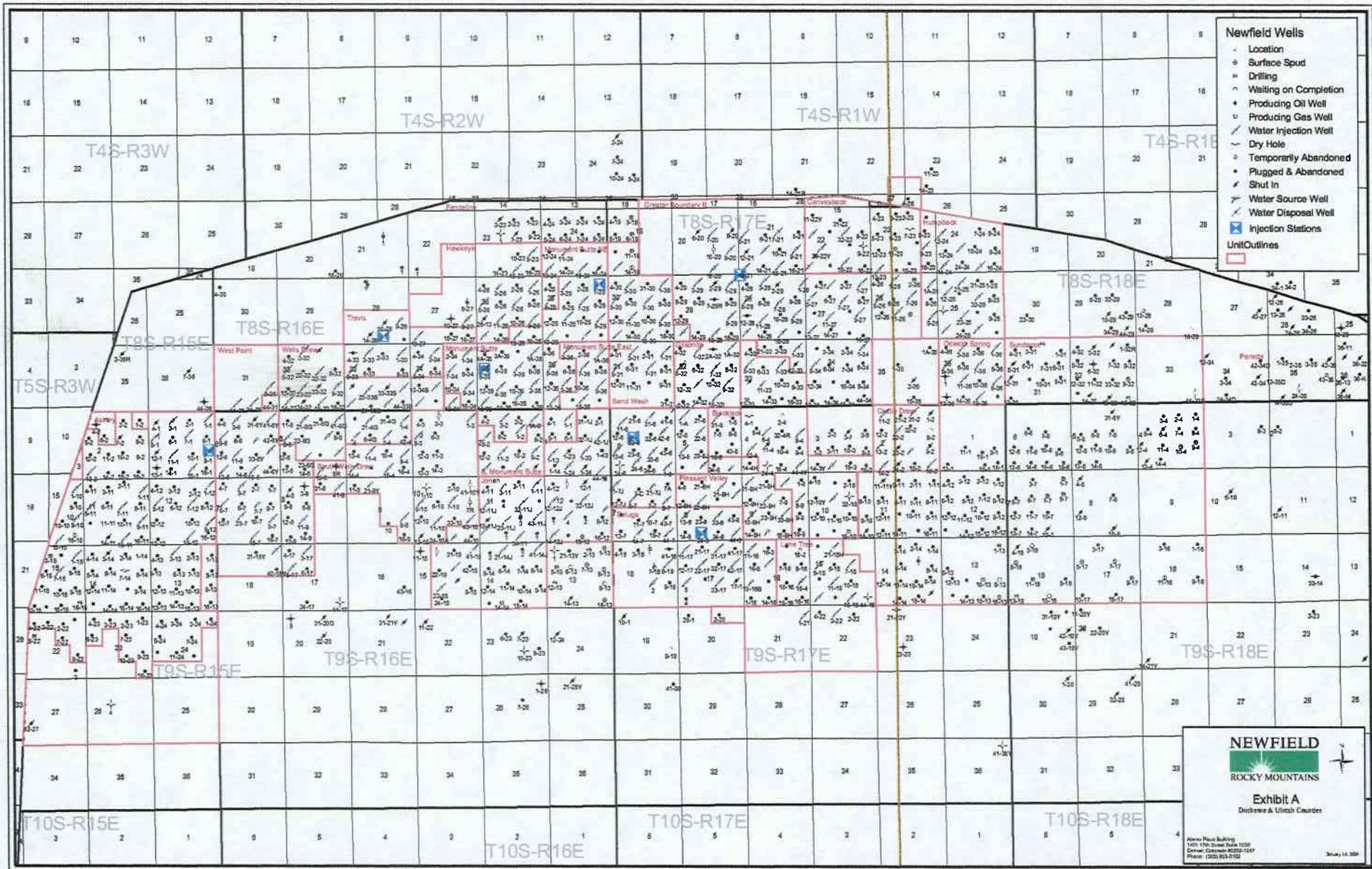
**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

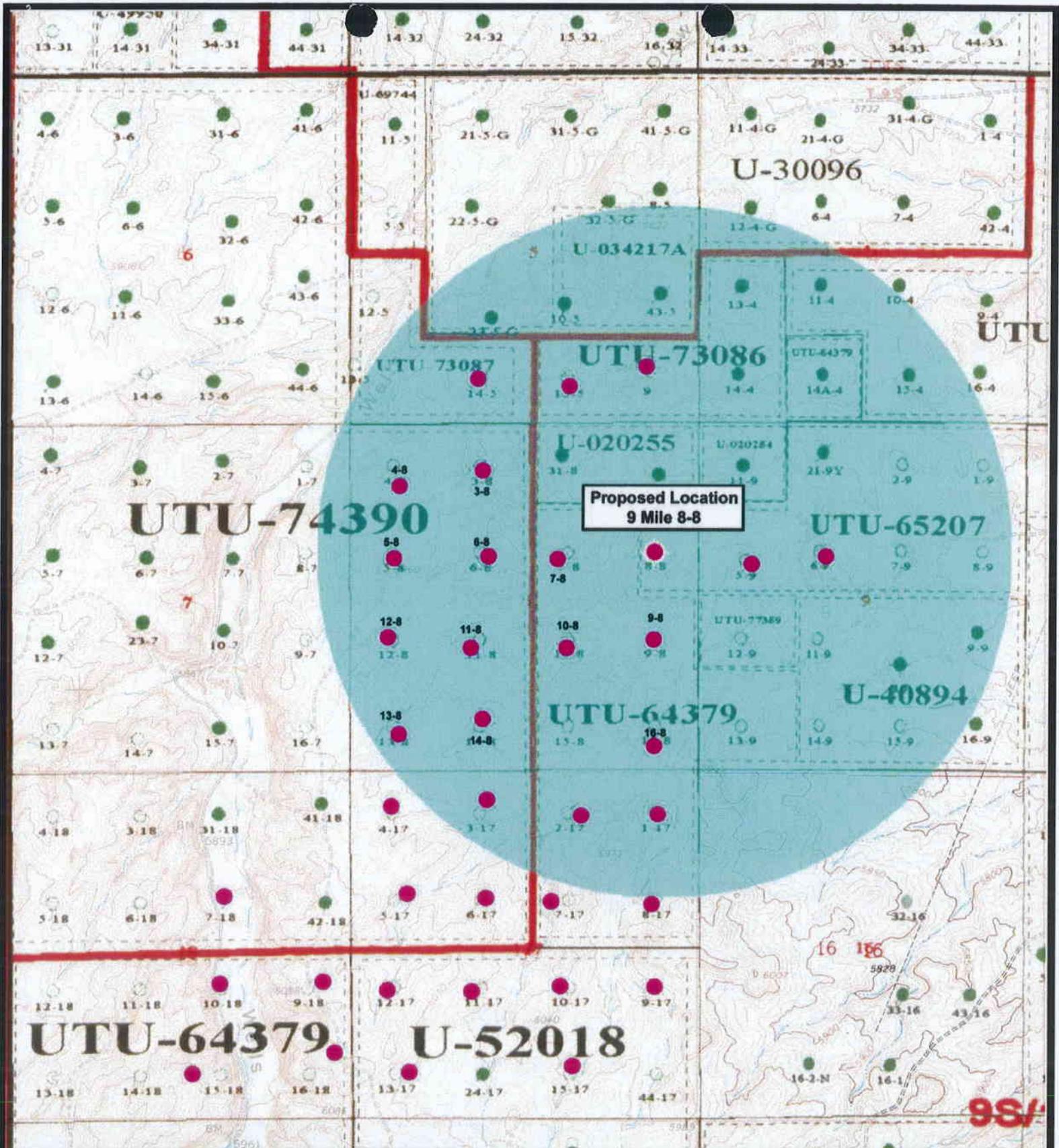
SCALE: 1" = 2,000'  
DRAWN BY: mw  
DATE: 01-27-2006

**Legend**

- Roads
- Proposed Gas Line

**TOPOGRAPHIC MAP**  
**"C"**





**Proposed Location  
9 Mile 8-8**



**NEWFIELD**  
Exploration Company

**9 Mile 8-8-9-16**  
**SEC. 8, T9S, R16E, S.L.B.&M.**




**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'  
DRAWN BY: mw  
DATE: 01-27-2006

**Legend**

- Well Locations
- One-Mile Radius

**Exhibit "B"**

# 2-M SYSTEM

Blowout Prevention Equipment Systems

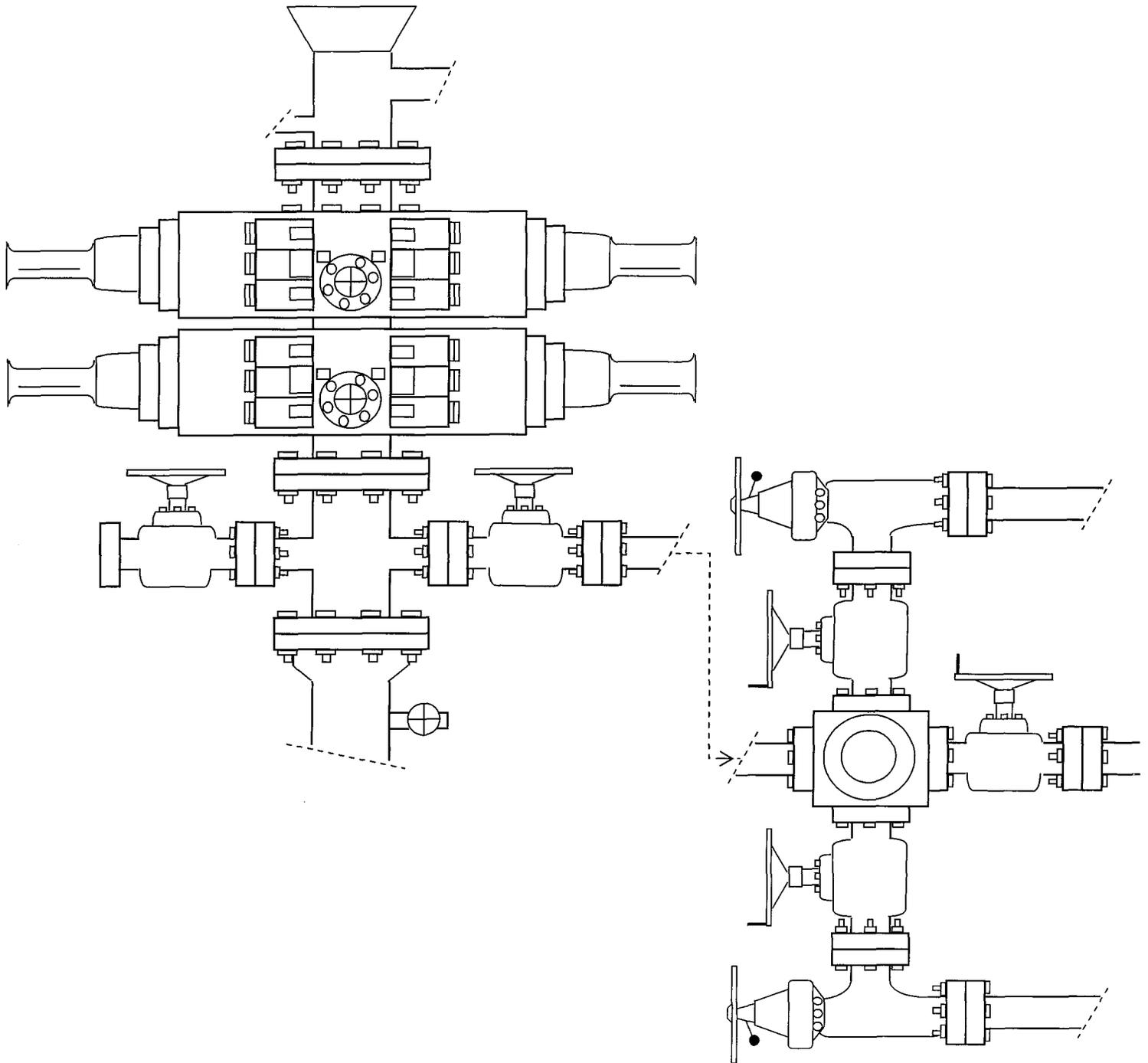


EXHIBIT C

A CULTURAL RESOURCE SURVEY OF THE SOUTH WELLS DRAW UNIT,

DUCHESNE COUNTY, UTAH

by

Ann Polk  
and  
Danielle Diamond

Prepared for:

Inland Production Company  
P.O. Box 790233  
Vernal, Utah 84079-0233

Prepared by:

Sagebrush Consultants, L.L.C.  
3670 Quincy Avenue, Suite 203  
Ogden, Utah 84403

Under Authority of Cultural Resources Use Permit No. 97-UT-54630

and

Utah State Antiquities Permit No. U-97-SJ-0780b.

Archaeological Report No. 1030-01

April 23, 1998

NEWFIELD PRODUCTION COMPANY

PALEONTOLOGICAL FIELD SURVEY OF PROPOSED  
PRODUCTION DEVELOPMENT AREAS,  
DUCHESNE COUNTY, UTAH

Section 8, T 9 S, R 16 E [SW 1/4 & SE 1/4, NE 1/4; and SE 1/4]; Section 17, T 9 S, R 16 E [NE 1/4; NE 1/4, NW 1/4 & SW 1/4, SE 1/4; NE 1/4, NW 1/4, & SW 1/4, SW 1/4]; Section 19, T 9 S, R 16 E [entire section]; Section 20, T 9 S, R 16 E [excluding NW 1/4, NE 1/4; and NW 1/4 & SE 1/4, NW 1/4]; Section 21, T 9 S, R 16 E [excluding NE 1/4 & NW 1/4, NE 1/4]

REPORT OF SURVEY

Prepared for:

Newfield Production Company

Prepared by:

Wade E. Miller  
Consulting Paleontologist  
November 10, 2005

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 02/15/2006

API NO. ASSIGNED: 43-013-33057

WELL NAME: FEDERAL 8-8-9-16  
 OPERATOR: NEWFIELD PRODUCTION ( N2695 )  
 CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

SENE 08 090S 160E  
 SURFACE: 2102 FNL 0536 FEL  
 BOTTOM: 2102 FNL 0536 FEL  
 COUNTY: DUCHESNE  
 LATITUDE: 40.04685 LONGITUDE: -110.1351  
 UTM SURF EASTINGS: 573782 NORTHINGS: 4433105  
 FIELD NAME: MONUMENT BUTTE ( 105 )

INSPECT LOCATN BY: / /		
<b>Tech Review</b>	<b>Initials</b>	<b>Date</b>
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: UTU-79833  
 SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

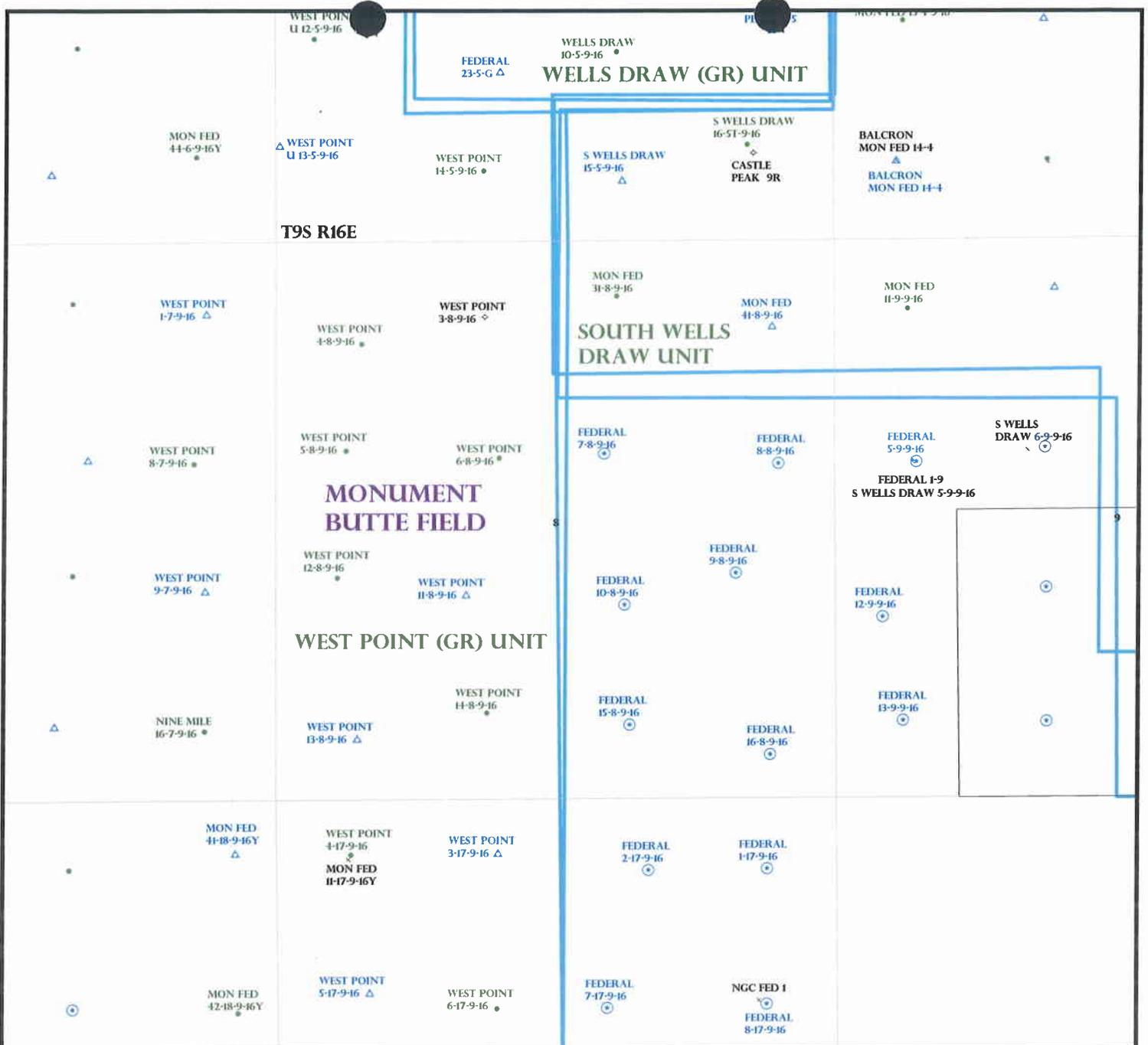
- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. UTB000192 )
- N Potash (Y/N)
- N Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. MUNICIPAL )
- N RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- N/A Fee Surf Agreement (Y/N)
- N/A Intent to Commingle (Y/N)

LOCATION AND SITING:

- \_\_\_\_\_ R649-2-3.
- Unit: \_\_\_\_\_
- R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- \_\_\_\_\_ R649-3-3. Exception
- \_\_\_\_\_ Drilling Unit  
Board Cause No: \_\_\_\_\_  
Eff Date: \_\_\_\_\_  
Siting: \_\_\_\_\_
- \_\_\_\_\_ R649-3-11. Directional Drill

COMMENTS: See Separate File

STIPULATIONS: 1- Fed. Approval  
2- Spacing Strip



OPERATOR: NEWFIELD PROD CO (N2695)

SEC: 8 T. 9S R. 16E

FIELD: MONUMENT BUTTE (105)

COUNTY: DUCHESNE

SPACING: R649-3-2 / GENERAL SITING

**Field Status**

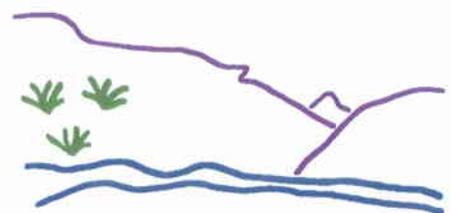
ABANDONED
ACTIVE
COMBINED
INACTIVE
PROPOSED
STORAGE
TERMINATED

**Unit Status**

EXPLORATORY
GAS STORAGE
NF PP OIL
NF SECONDARY
PENDING
PI OIL
PP GAS
PP GEOTHERML
PP OIL
SECONDARY
TERMINATED

**Wells Status**

- ★ GAS INJECTION
- ★ GAS STORAGE
- × LOCATION ABANDONED
- NEW LOCATION
- ⊗ PLUGGED & ABANDONED
- ★ PRODUCING GAS
- PRODUCING OIL
- ★ SHUT-IN GAS
- SHUT-IN OIL
- ⊗ TEMP. ABANDONED
- TEST WELL
- △ WATER INJECTION
- WATER SUPPLY
- ⊗ WATER DISPOSAL
- DRILLING



Utah Oil Gas and Mining



PREPARED BY: DIANA WHITNEY  
DATE: 17-FEBRUARY-2006



**State of Utah**

**Department of  
Natural Resources**

**MICHAEL R. STYLER**  
*Executive Director*

**Division of  
Oil, Gas & Mining**

**JOHN R. BAZA**  
*Division Director*

**JON M. HUNTSMAN, JR.**  
*Governor*

**GARY R. HERBERT**  
*Lieutenant Governor*

February 21, 2006

Newfield Production Company  
Rt. #3, Box 3630  
Myton, UT 84052

Re: Federal 8-8-9-16 Well, 2102' FNL, 536' FEL, SE NE, Sec. 8, T. 9 South,  
R. 16 East, 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 43-013-33057.

Sincerely,

**Gil Hunt**  
Associate Director

pab  
Enclosures

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

Operator: Newfield Production Company  
Well Name & Number Federal 8-8-9-16  
API Number: 43-013-33057  
Lease: UTU-79833

Location: SE NE                      Sec. 8                      T. 9 South                      R. 16 East

### 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 of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

3. Reporting Requirements

All required reports, forms and submittals will 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.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

RECEIVED

FEB 15 2006

Form 3160-3  
(September 2001)

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

BLM VERNAL, UTAH

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.	UTU-79833
6. If Indian, Allottee or Tribe Name	N/A
7. If Unit or CA Agreement, Name and No.	N/A
8. Lease Name and Well No.	Federal 8-8-9-16
9. APL Well No.	43-013-33057
10. Field and Pool, or Exploratory	Monument Butte
11. Sec., T., R., M., or Blk. and Survey or Area	SE/NE Sec. 8, T9S R16E
12. County or Parish	Duchesne
13. State	UT

1a. Type of Work:  DRILL  REENTER

1b. Type of Well:  Oil Well  Gas Well  Other  Single Zone  Multiple Zone

2. Name of Operator  
Newfield Production Company

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

3b. Phone No. (include area code)  
(435) 646-3721

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)  
At surface SE/NE 2102' FNL 536' FEL  
At proposed prod. zone

14. Distance in miles and direction from nearest town or post office\*  
Approximatley 15.1 miles southwest of Myton, Utah

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 538' f/lse, NA' f/unit

16. No. of Acres in lease  
440.00

17. Spacing Unit dedicated to this well  
40 Acres

18. Distance from proposed location\* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1312'

19. Proposed Depth  
6230'

20. BLM/BIA Bond No. on file  
UTB000192

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
5862' GL

22. Approximate date work will start\*  
2nd Quarter 2006

23. Estimated duration  
Approximately seven (7) days from spud to rig release.

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification.
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature: *Mandie Crozier*  
Name (Printed/Typed): Mandie Crozier  
Date: 2/10/06  
Title: Regulatory Specialist

Approved by (Signature): *Jerry Kewola*  
Name (Printed/Typed): Jerry Kewola  
Date: 12-13-2006  
Title: Assistant Field Manager  
Office: Lands & Mineral Resources

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

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 or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

NOTICE OF APPROVAL

RECEIVED

DEC 21 2006

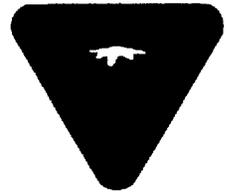
DIV. OF OIL, GAS & MINING

075X50105A





UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE  
170 South 500 East VERNAL, UT 84078 (435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company: Newfield Production Company Location: SENE, Sec 8, T9S, R16E  
Well No: Federal 8-8-9-16 Lease No: UTU-79833  
API No: 43-013-33057 Agreement: N/A

Petroleum Engineer:	Matt Baker	Office: 435-781-4490	Cell: 435-828-4470
Petroleum Engineer:	Michael Lee	Office: 435-781-4432	Cell: 435-828-7875
Petroleum Engineer:	Roger Hall	Office: 435-781-4470	
Supervisory Petroleum Technician:	Jamie Sparger	Office: 435-781-4502	Cell: 435-828-3913
Environmental Scientist:	Paul Buhler	Office: 435-781-4475	Cell: 435-828-4029
Environmental Scientist:	Karl Wright	Office: 435-781-4484	
Natural Resource Specialist:	Holly Villa	Office: 435-781-4404	
Natural Resource Specialist:	Melissa Hawk	Office: 435-781-4476	
Natural Resource Specialist:	Scott Ackerman	Office: 435-781-4437	
<b>After Hours Contact Number:</b>	<b>435-781-4513</b>	<b>Fax:</b> 435-781-4410	

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a one-year period. An additional year extension may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

- Location Construction (Notify Environmental Scientist) - Forty-Eight (48) hours prior to construction of location and access roads.
- Location Completion (Notify Environmental Scientist) - Prior to moving on the drilling rig.
- Spud Notice (Notify Michael Lee) - Twenty-Four (24) hours prior to spudding the well.
- Casing String & Cementing (Notify Jamie Sparger) - Twenty-Four (24) hours prior to running casing and cementing all casing strings.
- BOP & Related Equipment Tests (Notify Jamie Sparger) - Twenty-Four (24) hours prior to initiating pressure tests.
- First Production Notice (Notify Michael Lee) - Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

***SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)***

1. This well is being approved in accordance with Washington Instruction Memorandum 2005-247 and Section 390 (Category 3) of the Energy Policy Act which establishes statutory categorical exclusions (CX) under the National Environmental Policy Act (NEPA). Category 3 states that an oil or gas well can be drilled within a developed field for which an approved land use plan or any environmental document prepared pursuant to NEPA analyzed drilling as a reasonably foreseeable activity, so long as such plan or document was approved within five (5) years prior to the date of spudding the well. This well is covered under the *Final Environmental Impact Statement and Record of Decision Castle Peak and Eightmile Flat Oil and Gas Exploration Project Newfield Rocky Mountains Inc.*, signed November 21, 2005. If the well has not been spudded by November 21, 2010, a new environmental document will have to be prepared prior to the approval of the APD.
2. All applicable local, state, and/or federal laws, regulations, and/or statutes must be complied with.
3. Construction related traffic shall be restricted to approved routes. Cross-country vehicle travel will not be allowed.
4. The proposed action is in Sage Grouse nesting habitat. According to the 43 CFR 3101.1-2, surface disturbing activities and drilling may be prohibited during the year to minimize adverse impacts to nesting raptors. During the period of **March 1<sup>st</sup> through June 30<sup>th</sup>**, no new drilling or surface disturbing activities will be allowed. If a request for an exception to this limitation is desired, the request must be made in writing to the Vernal Field Office Manager two weeks prior to the anticipated construction, and approved prior to drilling or surface disturbing activities.
5. No drilling or surface disturbing activities are allowed 600' or less from live water.
6. If additional erosion occurs during the life of this project, more culverts, low water crossings, berms, wing ditches or etc. will be needed to control the erosion.
7. The reserve pit will be lined with a 16 ml or greater liner prior to spudding.
8. No vehicle travel, construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support vehicles and/or construction equipment. If such equipment creates ruts in excess of four inches deep, the soil shall be deemed too wet to adequately support construction equipment.
9. The liner is to be cut 5 feet below ground or at the level of the cuttings, whichever is deeper and the excess liner material is to be disposed of at an authorized disposal site.
10. When the reserve pit contains fluids or toxic substances, the operator must ensure that animals do not ingest or become entrapped in pit fluids.
11. Prevent fill and stock piles from entering drainages.



### ***DOWNHOLE CONDITIONS OF APPROVAL***

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

#### **SITE SPECIFIC DOWNHOLE CONDITIONS OF APPROVAL**

1. None

#### **DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

1. There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well. Any changes in operation must have prior approval from the BLM, Vernal Field Office Petroleum Engineers.
2. The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
3. **Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.**
4. Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.

All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.

BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.

Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.

No aggressive/fresh hard-banded drill pipe shall be used within casing.

5. The lessee/operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled and analyzed (a copy of the analyses to be submitted to the BLM Field Office in Vernal, Utah).
6. All oil and gas shows shall be adequately tested for commercial possibilities, reported, and protected.

7. The lessee/operator must report encounters of all non oil & gas mineral resources (such as gilsonite, tar sands, oil shale, etc.) to Peter Sokolosky or another geologist of the Vernal Field Office in writing within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
8. No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM, Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM, Vernal Field Office shall be obtained and notification given before resumption of operations.
9. Chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.

Any change in the program shall be approved by the BLM, Vernal Field Office. "Sundry Notices and Reports on Wells" (Form BLM 3160-5) shall be filed for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan pursuant to Onshore Oil & Gas Order No. 1 of 43 CFR 3164.1 and prior approval by the BLM, Vernal Field Office.

In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.

10. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

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

**Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Wellologs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**

11. All off-lease storage, off-lease measurement, or commingling on-lease or off-lease shall have prior written approval from the BLM, Vernal Field Office.

All measurement points shall be identified as point of sales or allocation for royalty determination prior to the installation of facilities.

12. Oil and gas meters shall be calibrated in place prior to any deliveries. The Field Office Petroleum Engineers 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 shall be submitted to the BLM, Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement.
13. A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM, Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
14. This APD is approved subject to the requirement that, should the well be successfully completed for production, the BLM, Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - a. Operator name, address, and telephone number.
  - b. Well name and number.
  - c. Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - d. Date well was placed in a producing status (date of first production for which royalty will be paid).
  - e. The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - f. The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.

- g. Unit agreement and / or participating area name and number, if applicable.
  - h. Communitization agreement number, if applicable.
15. Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from Field Office Petroleum Engineers.
  16. All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production
  17. Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
  18. Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

# DIVISION OF OIL, GAS AND MINING

## **SPUDDING INFORMATION**

Name of Company: NEWFIELD PRODUCTION COMPANY

Well Name: FEDERAL 8-8-9-16

Api No: 43-013-33057 Lease Type: FEDERAL

Section 08 Township 09S Range 16E County DUCHESNE

Drilling Contractor NDSI RIG # NS#1

### **SPUDDED:**

Date 01/25/07

Time 9:00 AM

How DRY

**Drilling will Commence:** \_\_\_\_\_

Reported by DON BASTIAN

Telephone # (435) 823-6012

Date 01/25/2007 Signed CHD



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.

5. Lease Serial No.  
USA UTU-79833

6. If Indian, Allottee or Tribe Name.

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

8. Well Name and No.  
FEDERAL 8-8-9-16

9. API Well No.  
4301333057

10. Field and Pool, or Exploratory Area  
MONUMENT BUTTE

11. County or Parish, State  
DUCHESNE, UT

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 area code)  
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
2102 FNL 536 FEL  
SENE Section 8 T9S R16E

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input 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 checked="" 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 checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Spud Notice
	<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 recompleat 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 recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 1/25/07 MIRU NDSI NS # 1. Spud well @ 9:00 AM. Drill 320' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24 # csgn. Set @ 323.22 KB On 1/31/07 cement with 160 sks of class "G" w/ 3% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cf/ sk yeild. Returned 5 bbls cement to pit. WOC.

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Alvin Nielsen  
Signature *Alvin Nielsen*

Title  
Drilling Foreman

Date  
02/01/2007

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

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

Office \_\_\_\_\_

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

(Instructions on reverse)

FEB 06 2007

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8 CASING SET AT 323.22

LAST CASING 8 5/8" set @ 323.22  
 DATUM 12' KB  
 DATUM TO CUT OFF CASING \_\_\_\_\_  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER 320' LOGGER \_\_\_\_\_  
 HOLE SIZE 12 1/4

OPERATOR Newfield Production Company  
 WELL Federal 8-8-9-16  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # NDSI NS # 1

LOG OF CASING STRING:								
PIECES	OD	ITEM - MAKE - DESCRIPTION		WT / FT	GRD	THREAD	CONDT	LENGTH
		Shoe Joint 44.61'						
		WHI - 92 csg head				8rd	A	0.95
7	8 5/8"	Maverick ST&C csg		24#	J-55	8rd	A	311.37
		<b>GUIDE</b> shoe				8rd	A	0.9
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING				313.22
TOTAL LENGTH OF STRING		313.22	7	LESS CUT OFF PIECE				2
LESS NON CSG. ITEMS		1.85		PLUS DATUM TO T/CUT OFF CSG				12
PLUS FULL JTS. LEFT OUT		0		CASING SET DEPTH				<b>323.22</b>
TOTAL		311.37	7	} COMPARE				
TOTAL CSG. DEL. (W/O THRDS)		311.37	7					
TIMING		1ST STAGE						
BEGIN RUN CSG.	Spud	1/25/2007	9:00 AM	GOOD CIRC THRU JOB				YES
CSG. IN HOLE		1/25/2007	2:30 PM	Bbls CMT CIRC TO SURFACE				5
BEGIN CIRC		1/31/2007	2:39 PM	RECIPROCATED PIPE FOR				N/A
BEGIN PUMP CMT		1/31/2007	2:51 PM					
BEGIN DSPL. CMT		1/31/2007	3:04 PM	BUMPED PLUG TO				375 PSI
PLUG DOWN		1/31/2007	3:12 PM					
CEMENT USED		CEMENT COMPANY- <b>B. J.</b>						
STAGE	# SX	CEMENT TYPE & ADDITIVES						
1	160	Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield						
CENTRALIZER & SCRATCHER PLACEMENT		SHOW MAKE & SPACING						
Centralizers - Middle first, top second & third for 3								

COMPANY REPRESENTATIVE Alvin Nielsen DATE 1/31/2007

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**  
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FEDERAL 8-8-9-16

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4301333057

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MONUMENT BUTTE

11. County or Parish, State  
DUCHESNE, UT

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)  
2102 FNL 536 FEL  
SENE Section 8 T9S R16E

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

TYPE OF SUBMISSION	TYPE OF ACTION				
<input 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 checked="" 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 checked="" type="checkbox"/> Other _____	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Weekly Status Report _____	
	<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 recomplate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 3/31/07 MIRU NDSI Rig # 1. Set all equipment. Pressure test Kelly, TIW, Choke manifold, & Bop's to 2,000 psi. Test 8.625 csgn to 1,500 psi. Vernal BLM field, & Roosevelt DOGM office was notified of test. PU BHA and tag cement @ 280'. Drill out cement & shoe. Drill a 7.875 hole with fresh water to a depth of 6205'. Lay down drill string & BHA. Open hole log w/ Dig/SP/GR log's TD to surface. PU & TIH with Guide shoe, shoe jt, float collar, 144 jt's of 5.5 J-55, 15.5# csgn. Set @ 6203' / KB. Cement with 300 sks cement mixed @ 11.0 ppg & 3.43 yld. Then 450 sks cement mixed @ 14.4 ppg & 1.24 yld. Returned 5 bbls of cement to reserve pit. Nipple down Bop's. Drop slips @ 96,000 #'s tension. Release rig @ 3:30 AM on 3/5/07.

RECEIVED

APR 12 2007

DIV. OF OIL, GAS & MINING

I hereby certify that the foregoing is true and correct (Printed/ Typed)  
Justin Crum  
Signature *Justin Crum*

Title  
Drilling Foreman

Date  
04/09/2007

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

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

Office \_\_\_\_\_

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

(Instructions on reverse)

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

5 1/2" CASING SET AT 6203.19

LAST CASING 8 5/8" SET AT 323'  
 DATUM 12  
 DATUM TO CUT OFF CASING 12  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER 6200' LOGGER 6207'  
 HOLE SIZE 7 7/8"

Flt cllr @ 6146.96'  
 OPERATOR Newfield Production Company  
 WELL Federal 8-8-9-16  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # NDSI Rig # 1

LOG OF CASING STRING:							
PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		Landing Jt					14
		Short jt @ 4001' 6.00'					
143	5 1/2"	ETC LT & C casing	15.5#	J-55	8rd	A	6145.37
							0.6
1	5 1/2"	ETC LT&C csg	15.5#	J-55	8rd	A	44.57
		<b>GUIDE</b> shoe			8rd	A	0.65
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			6205.19
TOTAL LENGTH OF STRING		6205.14	144	LESS CUT OFF PIECE			14
LESS NON CSG. ITEMS		15.25		PLUS DATUM TO T/CUT OFF CSG			12
PLUS FULL JTS. LEFT OUT		258.39	6	CASING SET DEPTH			<b>6203.19</b>
TOTAL		<b>6448.28</b>	150	} COMPARE			
TOTAL CSG. DEL. (W/O THRDS)		6448.28	150				
TIMING		1ST STAGE	2nd STAGE	GOOD CIRC THRU JOB			Yes
BEGIN RUN CSG.		3/4/2007	5:00 PM	Bbls CMT CIRC TO SURFACE			4
CSG. IN HOLE		3/4/2007	8:00 PM	RECIPROCATED PIPE FOR _____ THRU _____ FT STROKE			
BEGIN CIRC		3/4/2007	8:00 PM	DID BACK PRES. VALVE HOLD ?			Yes
BEGIN PUMP CMT		3/4/2007	9:06 PM	BUMPED PLUG TO _____ 1800 _____ PSI			
BEGIN DSPL. CMT		3/4/2007	10:06 PM				
PLUG DOWN		3/4/2007	10:35 AM				
CEMENT USED				CEMENT COMPANY-			<b>B. J.</b>
STAGE	# SX	CEMENT TYPE & ADDITIVES					
1	300	Premlite II w/ 10% gel + 3% KCL, 3#/s /sk CSE + 2# sk/kolseal + 1/2#/s/sk Cello Flake					
		mixed @ 11.0 ppg W / 3.43 cf/sk yield					
2	450	50/50 poz W/ 2% Gel + 3% KCL, .5%EC1, 1/4# sk C.F. 2% gel. 3% SM mixed @ 14.4 ppg W/ 1.24 YLD					
CENTRALIZER & SCRATCHER PLACEMENT			SHOW MAKE & SPACING				
Centralizers - Middle first, top second & third. Then every third collar for a total of 20.							

COMPANY REPRESENTATIVE Justin Crum DATE 3/5/2007

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.

5. Lease Serial No.  
USA UTU-79833

6. If Indian, Allottee or Tribe Name.

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

8. Well Name and No.  
FEDERAL 8-8-9-16

9. API Well No.  
4301333057

10. Field and Pool, or Exploratory Area  
MONUMENT BUTTE

11. County or Parish, State  
DUCHESNE, UT

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)  
2102 FNL 536 FEL  
SENE Section 8 T9S R16E

12. CHECK APPROPRIATE BOX(ES) TO INIDICATE 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 type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to	<input type="checkbox"/> Plug Back	<input checked="" 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 recomplate 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.)

Formation water is produced to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

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) Mandie Crozier	Title Regulatory Specialist
Signature <i>Mandie Crozier</i>	Date 05/03/2007

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

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

(Instructions on reverse)

**RECEIVED**

MAY 10 2007

DIV. OF OIL, GAS & MINING

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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
USA UTU-79833

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER

8. WELL NAME and NUMBER:  
FEDERAL 8-8-9-16

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:  
4301333057

3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 PHONE NUMBER 435.646.3721

10. FIELD AND POOL, OR WILDCAT:  
MONUMENT BUTTE

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: 2102 FNL 536 FEL

COUNTY: DUCHESNE

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SENE, 8, T9S, R16E

STATE: UT

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: 05/29/2007	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Weekly Status Report
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
The above subject well was completed on 05/01/07, attached is a daily completion status report.

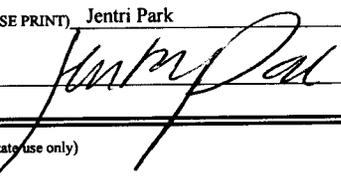
**RECEIVED**

**JUN 01 2007**

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

NAME (PLEASE PRINT) Jentri Park

TITLE Production Clerk

SIGNATURE 

DATE 05/29/2007

(This space for State use only)

**Daily Activity Report**

Format For Sundry

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

2/1/2007 To 6/30/2007

**4/18/2007 Day: 1****Completion**

Rigless on 4/17/2007 - Install 5M frac head. NU 6" 5M Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 6123' & cement top @ 94'. Perforate stage #1. CP1 sds @ 5718- 35' w/ 3 1/8" Slick guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 68 shots. 147 BWTR. SIFN.

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**4/24/2007 Day: 2****Completion**

Rigless on 4/23/2007 - RU BJ Services "Ram Head" frac flange. RU BJ & frac CP1 sds, stage #1 down casing w/ 80,674#'s of 20/40 sand in 619 bbls of Lightning 17 frac fluid. Open well w/ 0 psi on casing. Perfs broke down @ 3154 psi. Treated @ ave pressure of 2351 w/ ave rate of 24.8 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2148. 766 bbls EWTR. Leave pressure on well. RU Perforators LLC WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" composite (6K) flow through frac plug & 15' perf gun. Set plug @ 5375'. Perforate A1 sds @ 5252-67' w/ 3-1/8" Slick Guns (19 gram, .49"HE, 120°) w/ 4 spf for total of 60 shots. SIFN.

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**4/25/2007 Day: 3****Completion**

Rigless on 4/24/2007 - RU BJ & frac A1 sds, stage #2 down casing w/ 80,738#'s of 20/40 sand in 608 bbls of Lightning 17 frac fluid. Open well w/ 1040 psi on casing. Perfs broke down @ 3551 psi. Treated @ ave pressure of 1873 w/ ave rate of 23.9 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2166. 1374 bbls EWTR. Leave pressure on well. RU WLT. RIH w/ solid frac plug & 17' perf guns. Set plug @ 5180'. Perforate B1 sds @ 5060-77' w/ 4 spf for total of 68 shots. RU BJ & frac stage #3 w/ 75,928#'s of 20/40 sand in 549 bbls of Lightning 17 frac fluid. Open well w/ 280 psi on casing. Perfs broke down @ 3340 psi. Treated @ ave pressure of 1782 w/ ave rate of 24.5 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2088. 1923 bbls EWTR. Leave pressure on well. RU WLT. RIH w/ solid frac plug & 10', 11' perf guns. Set plug @ 4980'. Perforate D2 sds @ 4867-77', D1 sd @ 4814-25' w/ 4 spf for total of 88 shots ( 2 runs due to miss fired gun). RU BJ & frac stage #4 w/ 151,956#'s of 20/40 sand in 1015 bbls of Lightning 17 frac fluid. Open well w/ 240 psi on casing. Perfs broke down @ 3249 psi. Treated @ ave pressure of 1787 w/ ave rate of 25.1 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2055. 2938 bbls EWTR. Leave pressure on well. RU WLT. RIH w/ flow through frac plug & 8' perf gun. Set plug @ 4440'. Perforate GB6 sds @ 4328-36' w/ 4 spf for total of 32 shots. RU BJ & frac stage #5 w/ 40,746#'s of 20/40 sand in 378 bbls of Lightning 17 frac fluid. Open well w/ 1893 psi on casing. Perfs broke down @ 4150 psi. Treated @ ave pressure of 1820 w/ ave rate of 25.1 bpm w/ 8 ppg of sand. ISIP was 1819. 3316 bbls EWTR. RD BJ & WLT. Flow well back. Well flowed for 7 hours & died w/ 520 bbls rec'd. SIFN.

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**4/27/2007 Day: 4****Completion**

Western #3 on 4/26/2007 - Bleed off well to pit. ND Cameron BOP & 5m frac head.

NU 3m production head & Schafer BOP. RIH w/ 4 3/4" chomp bit, bit sub & 2 7/8" tbg. to 4418'. RU pump & lines. Circulate well clean. SWIFN.

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**4/28/2007 Day: 5**

**Completion**

Western #3 on 4/27/2007 - Bleed off well. Cont. RIH w/ tbg. Tag plug @ 4440' RU powerswivel & pump. DU CBP in 15 min. Cont. RIH w/ tbg. Tag fill @ 4881'. C/O to CBP @ 4980' (99' of fill). DU CBP in 15 min. Cont. RIH w/ tbg. Tag fill @ 5087'. C/O to CBP @ 5180' (93' of fill). DU CBP in 20 min. Cont. RIH w/ tbg. Tag fill @ 5292'. C/O to CBP @ 5375' (83' of fill). Cont. RIH w/ tbg. Tag fill @ 5995'. C/O to PBDT @ 6157' (162' of fill). Circulate well clean. Pull up to 6100'. RU swab. SFL @ surface. Made 7 runs. Recovered 65 bbls water. No show of oil or gas. EFL @ 1000'. SWIFN.

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**5/1/2007 Day: 6**

**Completion**

Western #3 on 4/30/2007 - Cont. swabbing. SFL @ 200'. Made 7 runs. Well started to flow. Recovered 75 bbls. Good show of gas. Ending oil cut @ approx 30%. RU pump to tbg. Pump 10 bbls water down tbg. RIH w/ tbg. Tag PBDT @ 6157' (no fill). Circulate well clean. POOH w/ tbg. LD BHA. RIH w/ 2 7/8" notched collar, 2 jts 2 7/8" tbg., PSN, 2 jts 2 7/8" tbg., 5 1/2" TAC & 182 jts 2 7/8" tbg. ND BOP. Set TAC @ 5684' w/ 16,000# tension. NU wellhead. Flush tbg. w/ 60 bbls water. X-over for rods. RIH w/ CDI 2 1/2" x 1 1/2" x 16' x 19' RHAC pump, 6- 1 1/2" weight bars, 10- 3/4" guided rods, 114- 3/4" slick rods. SWIFN.

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**5/2/2007 Day: 7**

**Completion**

Western #3 on 5/1/2007 - Cont. RIH w/ rods. Seat pump. Fill tbg. w/ 3 bbls water. Stroke test to 800 psi. RU pumping unit. Hang off rods. Adjust tag. RD. Adjust clutch on pumping unit. Put well on production @ 12:00 p.m. 120" stroke length, 5 spm. Final Report.

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**Pertinent Files: Go to File List**

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG\***

1a. TYPE OF WORK  
 OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

1b. TYPE OF WELL  
 NEW WELL  WORK OVER  DEEPEN  PLUG BACK  DIFF RESVR.  Other \_\_\_\_\_

5. LEASE DESIGNATION AND SERIAL NO.  
**UTU-79833**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
**NA**

7. UNIT AGREEMENT NAME  
**Federal**

8. FARM OR LEASE NAME, WELL NO.  
**Federal 8-8-9-16**

2. NAME OF OPERATOR  
**Newfield Exploration Company**

3. ADDRESS AND TELEPHONE NO.  
**1401 17th St. Suite 1000 Denver, CO 80202**

9. WELL NO.  
**43-013-33057**

10. FIELD AND POOL OR WILDCAT OR AREA  
**Monument Butte**

4. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements. \*)  
 At Surface **2102' FNL & 536' FEL (SE/NE) Sec. 8, T9S, R16E**  
 At top prod. Interval reported below

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
**Sec. 8, T9S, R16E**

At total depth

14. API NO. **43-013-33057** DATE ISSUED **02/27/06**

12. COUNTY OR PARISH **Duchesne** 13. STATE **UT**

15. DATE SPUDDED **01/25/07** 16. DATE T.D. REACHED **04/03/07** 17. DATE COMPL. (Ready to prod.) **05/01/07** 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* **5862' GL** 19. ELEV. CASINGHEAD **5874' KB**

20. TOTAL DEPTH, MD & TVD **6200'** 21. PLUG BACK T.D., MD & TVD **6157'** 22. IF MULTIPLE COMPL., HOW MANY\* \_\_\_\_\_ 23. INTERVALS DRILLED BY **----->** ROTARY TOOLS **X** CABLE TOOLS \_\_\_\_\_

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)\*  
**Green River 4328'-5735'**

25. WAS DIRECTIONAL SURVEY MADE  
**No**

26. TYPE ELECTRIC AND OTHER LOGS RUN  
**Dual Induction Guard, SP, Compensated Density, Compensated Neutron, GR, Caliper, Cement Bond Log**

27. WAS WELL CORED  
**No**

**CASING RECORD (Report all strings set in well)**

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8-5/8" - J-55	24#	323'	12-1/4"	To surface with 160 sx Class "G" cmt	
5-1/2" - J-55	15.5#	6203'	7-7/8"	300 sx Premlite II and 450 sx 50/50 Poz	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	EOT @ 5818'	TA @ 5684'

30. TUBING RECORD

31. PERFORATION RECORD (Interval, size and number)

INTERVAL	SIZE	SPF/NUMBER	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
(CP1) 5718'-5835'	.49"	4/68	5718'-5835'	Frac w/ 80,674# 20/40 sand in 619 bbls fluid
(A1) 5252'-5267'	.49"	4/60	5252'-5267'	Frac w/ 80,738# 20/40 sand in 608 bbls fluid
(B1) 5060'-5077'	.43"	4/68	5060'-5077'	Frac w/ 75,928# 20/40s and in 549 bbls fluid
(D1&2) 4867'-77', 4814'-25'	.43"	4/84	4814'-4877'	Frac w/ 151,956# 20/40 sand in 1015 bbls fluid
(GB6) 4328'-4336'	.43"	4/32	4328'-4336'	Frac w/ 40,746# 20/40 sand in 378 bbls fluid

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

33.\* **PRODUCTION**

DATE FIRST PRODUCTION **05/01/07** PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump) **2-1/2" x 1-1/2" x 16' x19' RHAC SM Plunger Pump** WELL STATUS (Producing or shut-in) **PRODUCING**

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL--BBL.	GAS--MCF.	WATER--BBL.	GAS-OIL RATIO
30 day ave			----->	296	106	18	358

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL--BBL.	GAS--MCF.	WATER--BBL.	OIL GRAVITY-API (CORR.)
		----->				<b>RECEIVED</b>

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) **Sold & Used for Fuel** TEST WITNESSED BY **JUN 01 2007**

35. LIST OF ATTACHMENTS \_\_\_\_\_ **DIV. OF OIL, GAS & MINING**

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

SIGNED *Jentri Park* TITLE **Production Clerk** DATE **5/29/2007**

JP

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

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

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
			Well Name Federal 8-8-9-16	Garden Gulch Mkr	3778'	
				Garden Gulch 1	3994'	
				Garden Gulch 2	4106'	
				Point 3 Mkr	4366'	
				X Mkr	4632'	
				Y-Mkr	4666'	
				Douglas Creek Mkr	4781'	
				BiCarbonate Mkr	4982'	
				B Limestone Mkr	5132'	
				Castle Peak	5659'	
				Basal Carbonate	6100'	
				Total Depth (LOGGERS	6208'	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9  <b>5.LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-79833
<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> FEDERAL 8-8-9-16
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY	<b>9. API NUMBER:</b> 43013330570000
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052	<b>PHONE NUMBER:</b> 435 646-4825 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2102 FNL 0536 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENE Section: 08 Township: 09.0S Range: 16.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE  <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"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 9/26/2013	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input checked="" type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input checked="" type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input 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 subject well has been converted from a producing oil well to an injection well on 09/24/2013. On 09/25/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 09/26/2013 the casing was pressured up to 1375 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 300 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:** October 24, 2013

**By:** 

<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/7/2013	

# Casing or Annulus Pressure Test

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

Witness: \_\_\_\_\_ Date 9/24/13 Time 9:00 am pm  
Test Conducted by: Riley Bely  
Others Present: \_\_\_\_\_

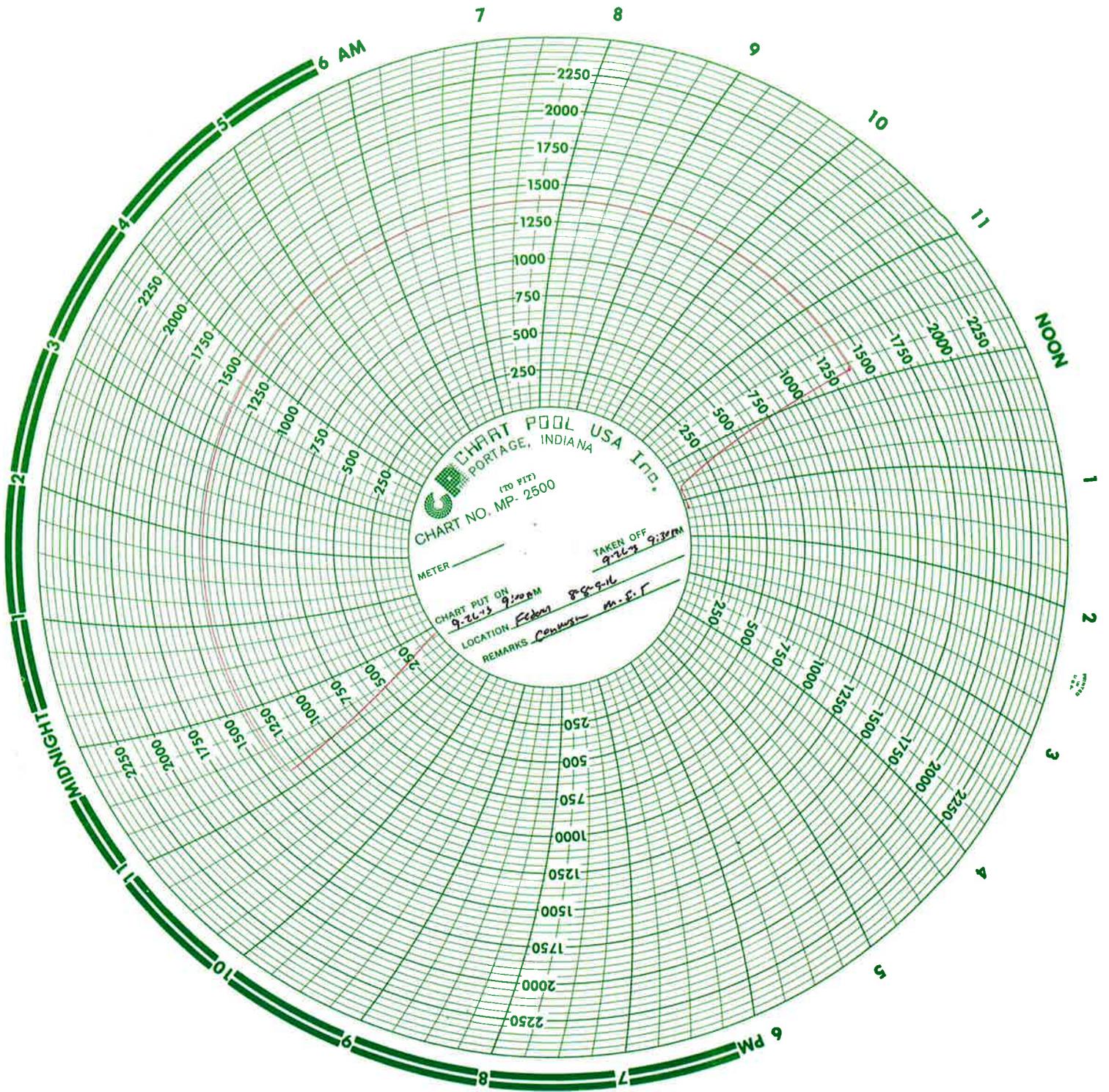
Well: Federal 8-8-9-16 Field: Monument B-H  
Well Location: Federal 8-8-9-16 API No: 4301333057

<u>Time</u>	<u>Casing Pressure</u>	
0 min	<u>1375</u>	psig
5	<u>1375</u>	psig
10	<u>1375</u>	psig
15	<u>1375</u>	psig
20	<u>1375</u>	psig
25	<u>1375</u>	psig
30 min	<u>1375</u>	psig
35	_____	psig
40	_____	psig
45	_____	psig
50	_____	psig
55	_____	psig
60 min	_____	psig

Tubing pressure: 300 psig

Result: Pass Fail

Signature of Witness: \_\_\_\_\_  
Signature of Person Conducting Test: Riley Bely



**Daily Activity Report**

**Format For Sundry**  
**FEDERAL 8-8-9-16**  
**7/1/2013 To 11/30/2013**

**9/23/2013 Day: 1****Conversion**

Wild Cat #2 on 9/23/2013 - UNSEATED PUMP FLUSHED TBG W/ 40 BBLS @250DEG LD RODS OUT OF HOLE SIWFN - 5:30AM TO 7:00AM CREW TRAVEL 7:00AM TO 7:15AM JSA SAFETY MEETING 7:15AM TO 10:00AM TIH 1-MOUSE TRAP ROD FISHING TOOL, 211 RODS FLUSHED CSG W/ 60 BBLS @250DEG 10:00AM TO 12:00PM WORKED FISHING TOOL TO GRAB ONTO FISH FISHED SUCCESSFULLY 12:00PM TO 4:00PM UNSEATED PUMP FLUSHED TBG W/ 40 BBLS @250DEG LD RODS OUT OF HOLE SIWFN 4:00PM TO 5:30PM CREW TRAVEL - 5:30AM TO 7:00AM CREW TRAVEL 7:00AM TO 7:15AM JSA SAFETY MEETING 7:15AM TO 10:00AM TIH 1-MOUSE TRAP ROD FISHING TOOL, 211 RODS FLUSHED CSG W/ 60 BBLS @250DEG 10:00AM TO 12:00PM WORKED FISHING TOOL TO GRAB ONTO FISH FISHED SUCCESSFULLY 12:00PM TO 4:00PM UNSEATED PUMP FLUSHED TBG W/ 40 BBLS @250DEG LD RODS OUT OF HOLE SIWFN 4:00PM TO 5:30PM CREW TRAVEL **Finalized**

**Daily Cost:** \$0**Cumulative Cost:** \$16,950

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**9/24/2013 Day: 2****Conversion**

Wild Cat #2 on 9/24/2013 - PT TBG TO 3K PSI HELD 100% FOR 30 MIN GOOD TEST 6:00PM TO 8:00PM RIH W/ SANDLINE TO RETRIEVE STANDING VALVE, PARTED SANDLINE POOH W/ STANDING VALVE - 5:30AM TO 7:00AM CREW TRAVEL 7:00AM TO 7:15AM JSA SAFETY MEETING 7:15AM TO 12:00AM TOOH BREAKING AND RE-DOPING EVERY CONNECTION 136 JTS 12:00PM TO 1:30PM LD 50 JTS, 1-TAC, 1-SN, NC 1:30PM TO 4:00PM TIH PKR INJECTION ASSEMBLY 136 JTS TBG 4:00PM TO 6:00PM PT TBG TO 3K PSI HELD 100% FOR 30 MIN GOOD TEST 6:00PM TO 8:00PM RIH W/ SANDLINE TO RETRIEVE STANDING VALVE, PARTED SANDLINE POOH W/ STANDING VALVE 8:00PM TO 9:30PM CREW TRAVEL - 5:30AM TO 7:00AM CREW TRAVEL 7:00AM TO 7:15AM JSA SAFETY MEETING 7:15AM TO 12:00AM TOOH BREAKING AND RE-DOPING EVERY CONNECTION 136 JTS 12:00PM TO 1:30PM LD 50 JTS, 1-TAC, 1-SN, NC 1:30PM TO 4:00PM TIH PKR INJECTION ASSEMBLY 136 JTS TBG 4:00PM TO 6:00PM PT TBG TO 3K PSI HELD 100% FOR 30 MIN GOOD TEST 6:00PM TO 8:00PM RIH W/ SANDLINE TO RETRIEVE STANDING VALVE, PARTED SANDLINE POOH W/ STANDING VALVE 8:00PM TO 9:30PM CREW TRAVEL **Finalized**

**Daily Cost:** \$0**Cumulative Cost:** \$25,516

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**9/25/2013 Day: 3****Conversion**

Wild Cat #2 on 9/25/2013 - TOOH 80 JTS FOUND CRIMPED JT LD PICKED UP NEW JT TBG TOOH 55 JTS RETRIEVED STANDING VAVLE AND SANDLINE TOOLS - 5:30AM TO 7:00AM CREW TRAVEL 7:00AM TO 7:15AM JSA SAFETY MEETING 7:15AM TO 8:00AM REPAIRED SANDLINE 8:00AM TO 12:00PM TOOH 80 JTS FOUND CRIMPED JT LD PICKED UP NEW JT TBG TOOH 55 JTS RETRIEVED STANDING VAVLE AND SANDLINE TOOLS 12:00PM TO 3:00PM TIH 135 JTS TBG PUMPED 3:00PM TO 5:00PM PUMPED 10 BBLS DROPPED SV CHASED W/ 25 BBLS PT TBG TO 3K PSI HELD 100% FOR 30 MIN GOOD TEST RIH W/ SL RETRIEVED SV 5:00PM TO 6:00PM RU RIG FLOOR ND BOPS NU INJECTION WELL HEAD CIRCULATED 50 BBLS OF PKR FLUID 6:00PM TO 7:00PM SET PKR PT CSG TO 1400 PSI HELD 100% FOR 30 MIN GOOD TEST 7:00PM TO 8:30PM RD RIG MOSL PRE-INSPECTED RIG FOR ROADING 8:30PM TO 10:00PM CREW TRAVEL - 5:30AM TO 7:00AM CREW TRAVEL 7:00AM TO 7:15AM

JSA SAFETY MEETING 7:15AM TO 8:00AM REPAIRED SANDLINE 8:00AM TO 12:00PM TOOH  
80 JTS FOUND CRIMPED JT LD PICKED UP NEW JT TBG TOOH 55 JTS RETRIEVED STANDING  
VAVLE AND SANDLINE TOOLS 12:00PM TO 3:00PM TIH 135 JTS TBG PUMPED 3:00PM TO  
5:00PM PUMPED 10 BBLS DROPPED SV CHASED W/ 25 BBLS PT TBG TO 3K PSI HELD 100%  
FOR 30 MIN GOOD TEST RIH W/ SL RETRIEVED SV 5:00PM TO 6:00PM RU RIG FLOOR ND  
BOPS NU INJECTION WELL HEAD CIRCULATED 50 BBLS OF PKR FLUID 6:00PM TO 7:00PM  
SET PKR PT CSG TO 1400 PSI HELD 100% FOR 30 MIN GOOD TEST 7:00PM TO 8:30PM RD  
RIG MOSL PRE-INSPECTED RIG FOR ROADING 8:30PM TO 10:00PM CREW TRAVEL

**Daily Cost:** \$0

**Cumulative Cost:** \$34,139

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**10/2/2013 Day: 4**

**Conversion**

Rigless on 10/2/2013 - Conduct initial MIT - On 09/25/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 09/26/2013 the casing was pressured up to 1375 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 300 psig during the test. There was not a State representative available to witness the test. - On 09/25/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 09/26/2013 the casing was pressured up to 1375 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 300 psig during the test. There was not a State representative available to witness the test. **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$59,851

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**Pertinent Files: Go to File List**

# Federal 8-8-9-16

Spud Date: 1-25-07  
 Put on Production: 5-1-07  
 GL: 5862' KB: 5874'

## Injection Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (311.37')  
 DEPTH LANDED: 323.22' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf:

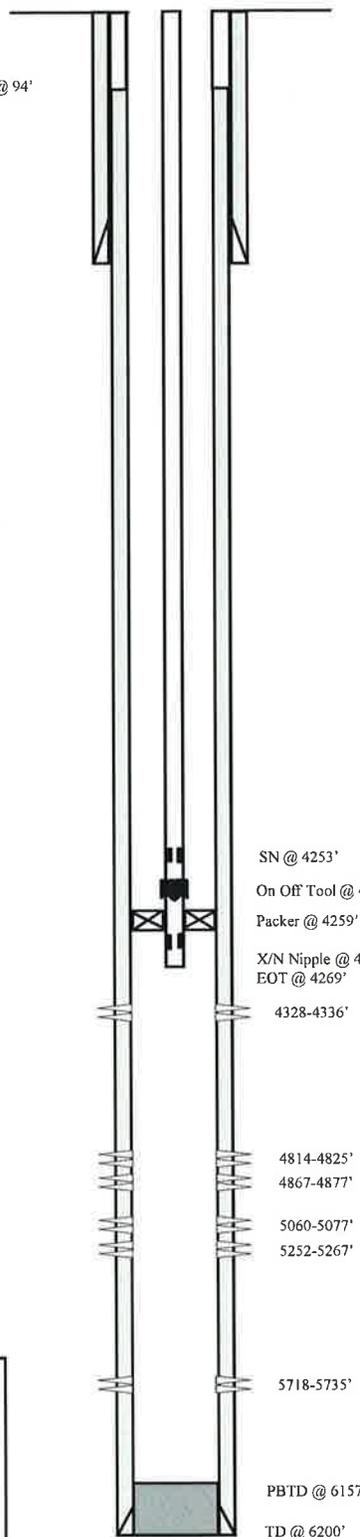
### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 144 jts. (6189.94')  
 DEPTH LANDED: 6203.19' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem, Lite II mixed & 450 sxs 50/50 POZ,  
 CEMENT TOP AT: 94'

### TUBING

SIZE/GRADE/WT: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 136 jts (4243')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4253' KB  
 ON/OFF TOOL AT: 4254.1'  
 ARROW #1 PACKER CE AT: 4259.3'  
 XO 2-3/8 x 2-7/8 J-55 AT: 4262.9'  
 TBG PUP 2-3/8 J-55 AT: 4263.4'  
 X/N NIPPLE AT: 4267.5'  
 TOTAL STRING LENGTH: EOT @ 4269.34'

Cement top @ 94'



### FRAC JOB

04-23-07 5718-5735' **Frac CP1 sands as follows:**  
 80674# 20/40 sand in 619 bbls Lightning 17 frac fluid. Treated @ avg press of 2351 psi w/avg rate of 24.8 BPM. ISIP 2148 psi. Calc flush: 5716 gal. Actual flush: 5208 gal.

04-24-07 5252-5267' **Frac a1 sands as follows:**  
 80738# 20/40 sand in 608 bbls Lightning 17 frac fluid. Treated @ avg press of 1873 psi w/avg rate of 23.9 BPM. ISIP 2166 psi. Calc flush: 5250 gal. Actual flush: 4788 gal.

04-24-07 5060-5077' **Frac B1 sands as follows:**  
 75928# 20/40 sand in 549 bbls Lightning 17 frac fluid. Treated @ avg press of 1782 psi w/avg rate of 24.5 BPM. ISIP 2088 psi. Calc flush: 5058 gal. Actual flush: 4578 gal.

04-24-07 4814-4877' **Frac D2, & D1 sands as follows:**  
 151956# 20/40 sand in 1015 bbls Lightning 17 frac fluid. Treated @ avg press of 1787 w/ avg rate of 25.1 BPM. ISIP 2055 psi. Calc flush: 4812 gal. Actual flush: 4326 gal.

04-24-07 4328-4336' **Frac GB6 sands as follows:**  
 40746# 20/40 sand in 378 bbls Lightning 17 frac fluid. Treated @ avg press of 1820 w/ avg rate of 25.1 BPM. ISIP 1819 psi. Calc flush: 4326 gal. Actual flush: 4242 gal.

09/24/13 **Convert to Injection Well**  
 09/26/13 **Conversion MIT Finalized -update tbg detail**

### PERFORATION RECORD

Date	Interval	Spacing	Holes
04-17-07	5718-5735'	4 JSPF	68 holes
04-23-07	5252-5267'	4 JSPF	60 holes
04-24-07	5060-5077'	4 JSPF	68 holes
04-24-07	4867-4877'	4 JSPF	40 holes
04-24-07	4814-4825'	4 JSPF	44 holes
04-24-07	4328-4336'	4 JSPF	32 holes

**NEWFIELD**

**Federal 8-8-9-16**  
 2102' FNL & 536' FEL  
 SE/NE Section 8-T9S-R16E  
 Duchesne Co, Utah  
 API # 43-013-33057; Lease # UTU-79833

<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.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-79833
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>1. TYPE OF WELL</b> Water Injection Well		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>8. WELL NAME and NUMBER:</b> FEDERAL 8-8-9-16
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>9. API NUMBER:</b> 43013330570000
<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> 2102 FNL 0536 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENE Section: 08 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"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/5/2013	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input checked="" type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input checked="" type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input 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 9:15 AM on  
11/05/2013.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
November 06, 2013**

<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 11/5/2013	

**NEWFIELD**



**Newfield Exploration Company**

1001 17th Street | Suite 2000

Denver, Colorado 80202

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

May 8, 2013

**RECEIVED**

**MAY 09 2013**

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

Mr. Mark Reinbold  
State of Utah  
Division of Oil, Gas and Mining  
1594 W North Temple  
Salt Lake City, Utah 84114-5801

RE: Permit Application for Water Injection Well  
Federal #8-8-9-16  
Monument Butte Field, Lease #UTU-79833  
Section 8-Township 9S-Range 16E  
Duchesne County, Utah

Dear Mr. Reinbold:

Newfield Production Company herein requests approval to convert the Federal #8-8-9-16 from a producing oil well to a water injection well in the Monument Butte (Green River) Field.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Eric Sundberg".

Eric Sundberg  
Environmental Manager

**NEWFIELD PRODUCTION COMPANY**  
**APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL**  
**FEDERAL #8-8-9-16**  
**MONUMENT BUTTE FIELD (GREEN RIVER) FIELD**  
**LEASE #UTU-79833**  
**MAY 8, 2013**

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STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR INJECTION WELL - UIC FORM 1

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

Well Name and number: Federal #8-8-9-16  
Field or Unit name: Monument Butte (Green River) Lease No. UTU-79833  
Well Location: QQ SENE section 8 township 9S range 16E county Duchesne

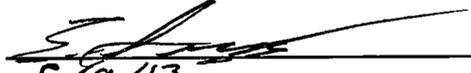
Is this application for expansion of an existing project? . . . . . Yes [ X ] No [ ]  
Will the proposed well be used for: Enhanced Recovery? . . . . . Yes [ X ] No [ ]  
Disposal? . . . . . Yes [ ] No [ X ]  
Storage? . . . . . Yes [ ] No [ X ]  
Is this application for a new well to be drilled? . . . . . Yes [ ] No [ X ]  
If this application is for an existing well,  
has a casing test been performed on the well? . . . . . Yes [ ] No [ X ]  
Date of test: \_\_\_\_\_  
API number: 43-013-33057

Proposed injection interval: from 4104 to 6157  
Proposed maximum injection: rate 500 bpd pressure 1719 psig  
Proposed injection zone contains [ x ] oil, [ ] gas, and/or [ ] fresh water within 1/2  
mile of the well.

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

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

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

Name: Eric Sundberg Signature   
Title Environmental Manager Date 5/9/13  
Phone No. (303) 893-0102

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

Comments:

# Federal 8-8-9-16

Spud Date: 1-25-07  
 Put on Production: 5-1-07  
 GL: 5862' KB: 5874'

Initial Production: BOPD,  
 MCFD, BWPD

## Proposed Injection Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (311.37')  
 DEPTH LANDED: 323.22' 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: 144 jts (6189.94')  
 DEPTH LANDED: 6203.19' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
 CEMENT TOP AT: 94'

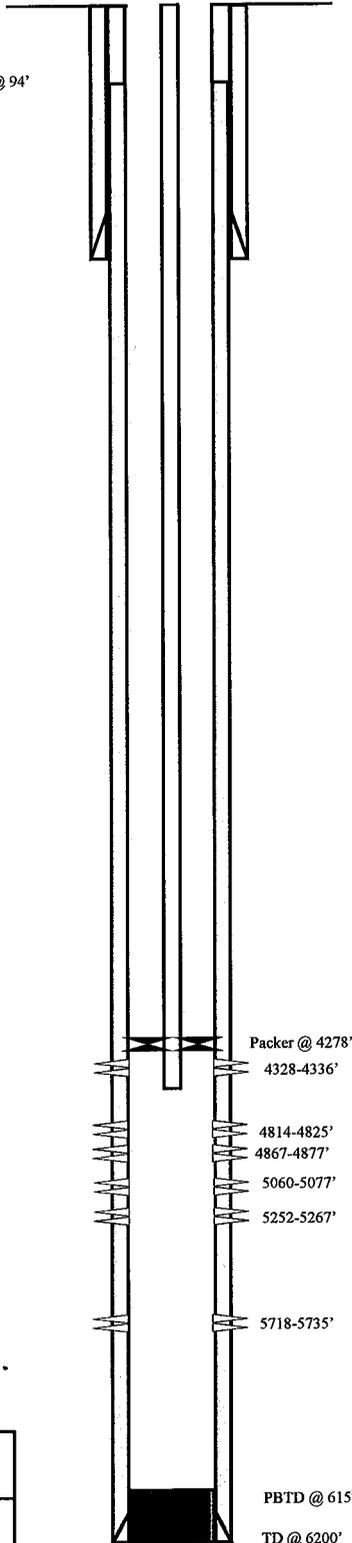
### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 192 jts (6066.48')  
 TUBING ANCHOR: 5684.32' KB  
 NO. OF JOINTS: 1 jts (31.64')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5751.67' KB  
 NO. OF JOINTS: 2 jts (63.14')  
 TOTAL STRING LENGTH: EOT @ 5817.80' KB

### FRAC JOB

04-23-07	5718-5735'	<b>Frac CP1 sands as follows:</b> 80674# 20/40 sand in 619 bbls Lightning 17 frac fluid. Treated @ avg press of 2351 psi w/avg rate of 24.8 BPM. ISIP 2148 psi. Calc flush: 5716 gal. Actual flush: 5208 gal.
04-24-07	5252-5267'	<b>Frac a1 sands as follows:</b> 80738# 20/40 sand in 608 bbls Lightning 17 frac fluid. Treated @ avg press of 1873 psi w/avg rate of 23.9 BPM. ISIP 2166 psi. Calc flush: 5250 gal. Actual flush: 4788 gal.
04-24-07	5060-5077'	<b>Frac B1 sands as follows:</b> 75928# 20/40 sand in 549 bbls Lightning 17 frac fluid. Treated @ avg press of 1782 psi w/avg rate of 24.5 BPM. ISIP 2088 psi. Calc flush: 5058 gal. Actual flush: 4578 gal.
04-24-07	4814-4877'	<b>Frac D2, &amp; D1 sands as follows:</b> 151956# 20/40 sand in 1015 bbls Lightning 17 frac fluid. Treated @ avg press of 1787 w/ avg rate of 25.1 BPM. ISIP 2055 psi. Calc flush: 4812 gal. Actual flush: 4326 gal.
04-24-07	4328-4336'	<b>Frac GB6 sands as follows:</b> 40746# 20/40 sand in 378 bbls Lightning 17 frac fluid. Treated @ avg press of 1820 w/ avg rate of 25.1 BPM. ISIP 1819 psi. Calc flush: 4326 gal. Actual flush: 4242 gal.

Cement top @ 94'



### PERFORATION RECORD

04-17-07	5718-5735'	4 JSPPF	68 holes
04-23-07	5252-5267'	4 JSPPF	60 holes
04-24-07	5060-5077'	4 JSPPF	68 holes
04-24-07	4867-4877'	4 JSPPF	40 holes
04-24-07	4814-4825'	4 JSPPF	44 holes
04-24-07	4328-4336'	4 JSPPF	32 holes

**NEWFIELD**

**Federal 8-8-9-16**

2102' FNL & 536' FEL

SE/NE Section 8-T9S-R16E

Duchesne Co, Utah

API # 43-013-33057; Lease # UTU-79833

## 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 Federal #8-8-9-16 from a producing oil well to a water injection well in Monument Butte (Green River) Field.
  
  - 2.4 A description of the pools from which the identified wells are producing or have produced.**

The proposed injection well will inject into the Green River Formation.
  
  - 2.5 The names, description and depth of the pool or pools to be affected.**

The injection zone is in the Green River Formation. For the Federal #8-8-9-16 well, the proposed injection zone is from Garden Gulch to Basal Carbonate (4104' - 6157'). The confining strata directly above and below the injection zones are the Garden Gulch and the top of the Wasatch Formation or TD, which ever is shallower. The Garden Gulch Marker top is at 3777' and the TD is at 6200'.
  
  - 2.6 A copy of a log of a representative well completed in the pool.**

The referenced log for the Federal #8-8-9-16 is on file with the Utah Division of Oil, Gas and Mining.

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

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

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

See Attachment B.

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

See Attachment C.

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

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

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

This proposed injection well is on a Federal lease (Lease #UTU-79833) 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 323' KB, and 5-1/2", 15.5# casing run from surface to 6203' KB. A casing integrity test will be conducted at the time of conversion. See Attachment E.
  - 2.6 **A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.**

The primary type and source of fluid to be used for injection will be culinary water commingled with produced water. The estimated average rate of injection will be 300 BPD, and the estimated maximum rate of injection will be 500 BPD.
  - 2.7 **Standard laboratory analysis of the fluid to be injected, the fluid in the formation into which the fluid is being injected, and the compatibility of the fluids.**

See Attachment F.

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

The proposed average injection pressure will be approximately 1100 psig and the maximum injection pressure will not exceed 1719 psig.

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

The minimum fracture gradient for the Federal #8-8-9-16, for existing perforations (4328' - 5735') calculates at 0.85 psig/ft. The maximum injection pressures will be limited so as not to exceed this gradient. A step rate test will be performed periodically to ensure we are below parting pressure. The proposed maximum injection pressure is 1719 psig. We may add additional perforations between 3777' and 6200'. See Attachments G and G-1.

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

In the Federal #8-8-9-16, the proposed injection zone (4104' - 6157') is in the Garden Gulch to the Basal Carbonate of the Green River Formation. The reservoir is a very fine-grained sandstone with minor imbedded shale streaks. The estimated porosity is 13%. The members are composed of porous and permeable lenticular calcareous sandstone and low porosity carbonates and calcareous shale. The porous and lenticular sandstone varies in thickness from 0-31' and is confined to the Monument Butte Federal Field. Outside the Monument Butte Federal Field, the sandstone is composed of tight, very fine, silty, calcareous sandstone, less than 3' thick. The stratum confining the injection zone is composed of tight, moderately calcareous, sandy lacustrine shale. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

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

See Attachments E through E-17.

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

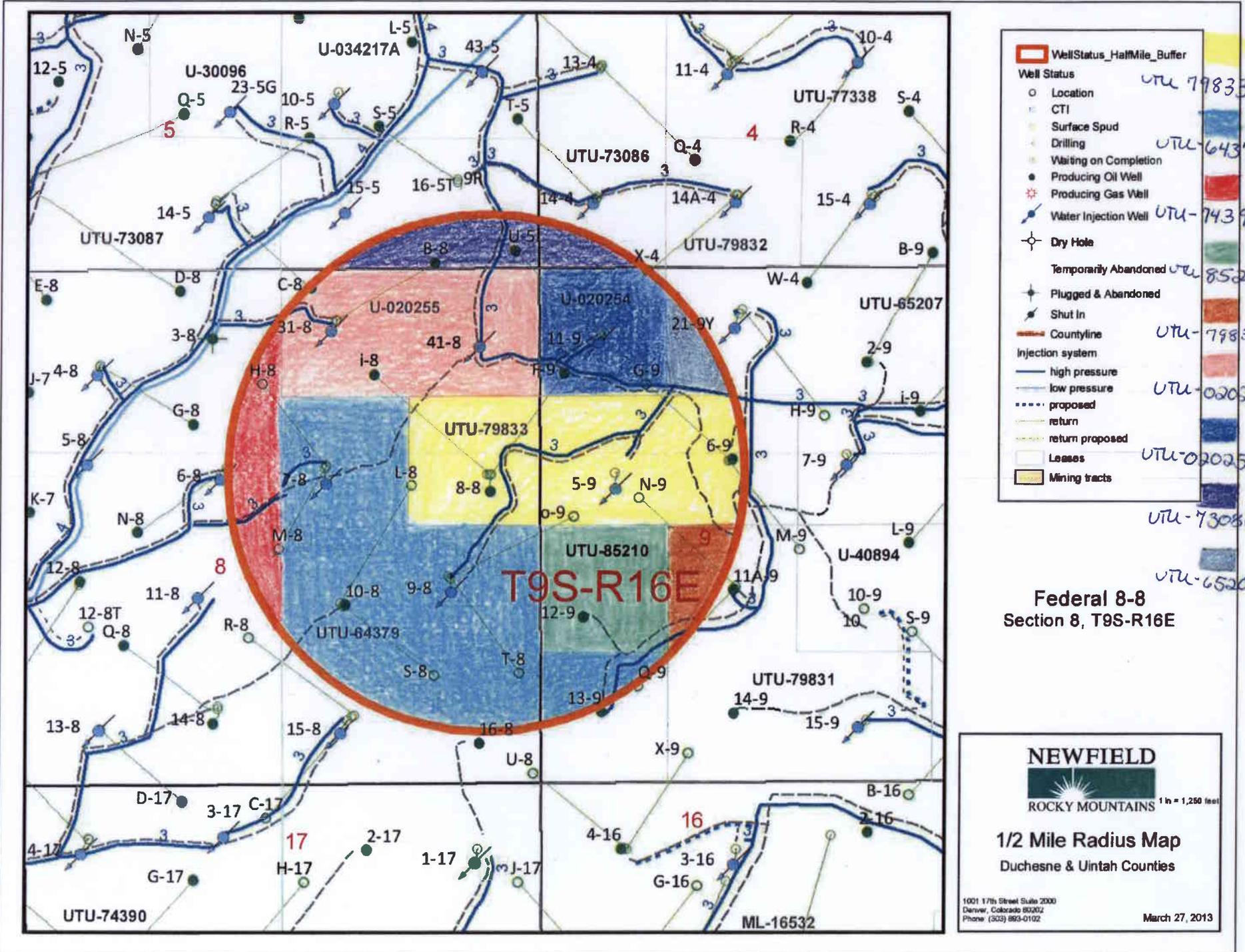
**2.11 An affidavit certifying that a copy of the application has been provided to all operators or owners, and surface owners within a one-half mile radius of the proposed injection well.**

See Attachment C.

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

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

# Attachment A



UTU-79833

UTU-64379

UTU-74390

UTU-85210

UTU-79831

UTU-02025

UTU-020254

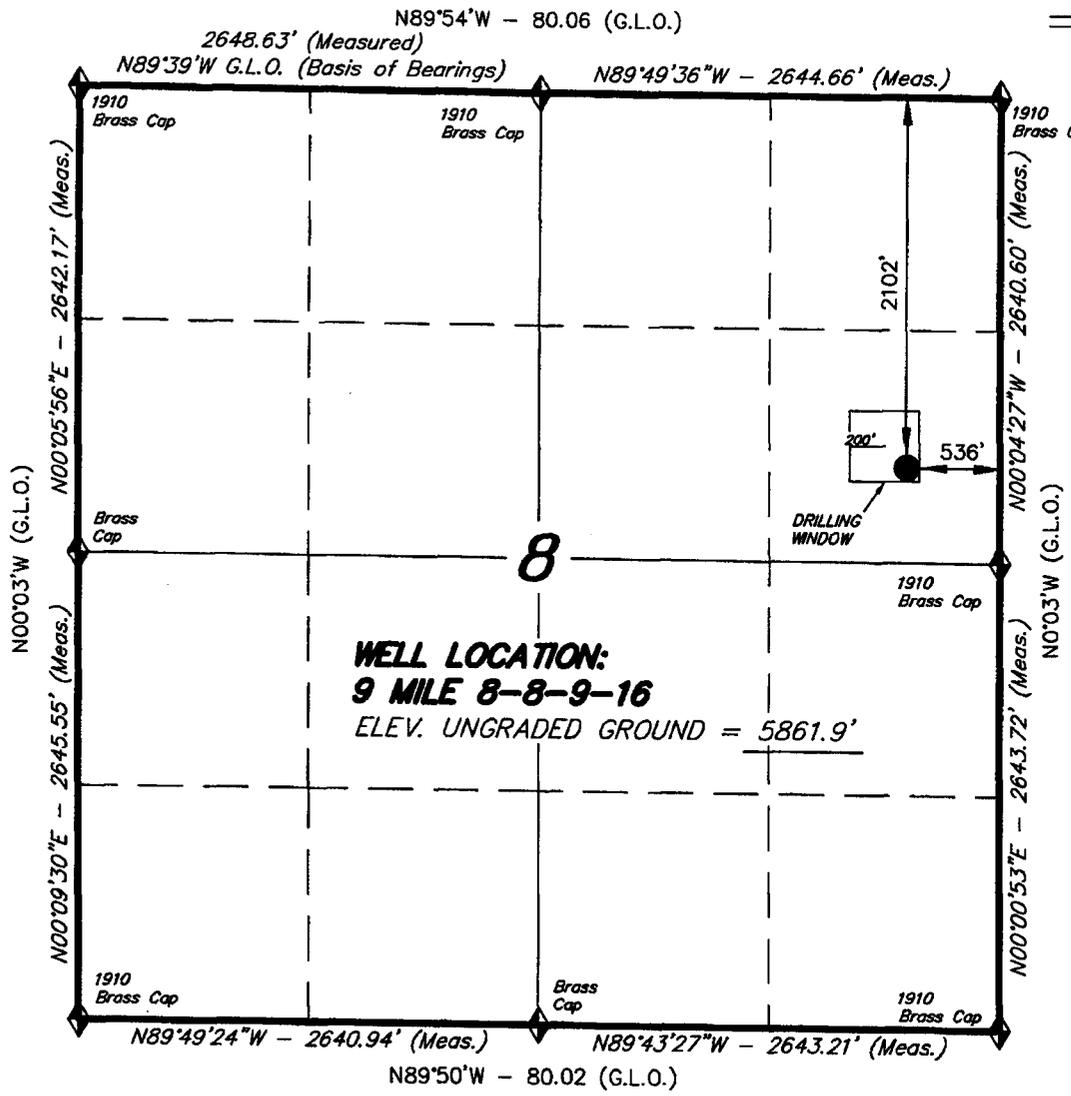
UTU-73086

UTU-65207

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

### NEWFIELD PRODUCTION COMPANY

WELL LOCATION, 9 MILE 8-8-9-16,  
 LOCATED AS SHOWN IN THE SE 1/4 NE  
 1/4 OF SECTION 8, T9S, R16E, S.L.B.&M.  
 DUCHESNE COUNTY, UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS  
 PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
 MADE BY ME OR UNDER MY SUPERVISION AND THAT  
 THE SAME ARE TRUE AND CORRECT TO THE BEST OF  
 MY KNOWLEDGE AND BELIEF. No.189377

*Stacy W. Stewart*  
**STACY W. STEWART**  
 REGISTERED LAND SURVEYOR  
 REGISTRATION No. 189377  
 STATE OF UTAH

◆ = SECTION CORNERS LOCATED

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

**9 MILE 8-8-9-16**  
 (Surface Location) NAD 83  
 LATITUDE = 40° 02' 48.74"  
 LONGITUDE = 110° 08' 08.52"

<b>TRI STATE LAND SURVEYING &amp; CONSULTING</b>	
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078 (435) 781-2501	
DATE SURVEYED: 1-23-06	SURVEYED BY: C.M.
DATE DRAWN: 1-27-06	DRAWN BY: M.W.
REVISED:	SCALE: 1" = 1000'

**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 8: SENE Section 9: S2NW	USA UTU-79833 HBP	Newfield Production Company Newfield RMI LLC ABO Petroleum Corp MYCO Industries Inc OXY Y-1 Corp Yates Petroleum Corp	USA
2	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
3	T9S-R16E SLM Section 6: All Section 7: All Section 8: W2 Section 17: NW Section 18: NE, E2NW, LOTS 1, 2	USA UTU-74390 HBP	Newfield Production Company Newfield RMI LLC ABO Petroleum Corp MYCO Industries Inc OXY Y-1 Corp Yates Petroleum Corp	USA
4	T9S-R16E SLM Section 9: NWSW	USA UTU-85210 HBP	Newfield Production Company	USA
5	T9S-R16E SLM Section 9: E2SW, SWSE	USA UTU-79831 HBP	Newfield Production Company Newfield RMI LLC	USA

6	T9S-R16E SLM Section 8: N2NE	USA UTU- 020255 HBP	Newfield Production Company Newfield RMI LLC	USA
7	T9S-R16E SLM Section 9: NWNW	USA UTU- 020254 HBP	Newfield Production Company Newfield RMI LLC	USA
8	T9S-R16E SLM Section 4: W2SW Section 5: S2SE	USA UTU-73086 HBP	Newfield Production Company Newfield RMI LLC	USA
9	T9S-R16E SLM Section 9: NE, NENW Section 10: N2NW	USA UTU-65207 HBP	Newfield Production Company Newfield RMI LLC ABO Petroleum Corp MYCO Industries Inc OXY Y-1 Corp Yates Petroleum Corp	USA

ATTACHMENT C

CERTIFICATION FOR SURFACE OWNER NOTIFICATION

RE: Application for Approval of Class II Injection Well  
Federal #8-8-9-16

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

Signed: \_\_\_\_\_

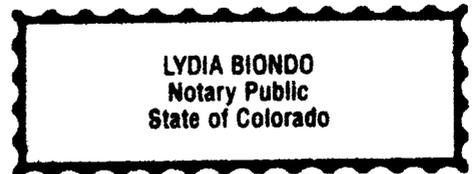
  
Newfield Production Company  
Eric Sundberg  
Environmental Manager

Sworn to and subscribed before me this 8<sup>th</sup> day of May, 2013.

Notary Public in and for the State of Colorado: \_\_\_\_\_



My Commission Expires: 12/31/15



## Federal 8-8-9-16

Spud Date: 1-25-07  
Put on Production: 5-1-07

GL: 5862' KB: 5874'

### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts (311.37')  
DEPTH LANDED: 323.22' 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: I-55  
WEIGHT: 15.5#  
LENGTH: 144 jts (6189.94')  
DEPTH LANDED: 6203.19' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
CEMENT TOP AT: 94'

### TUBING

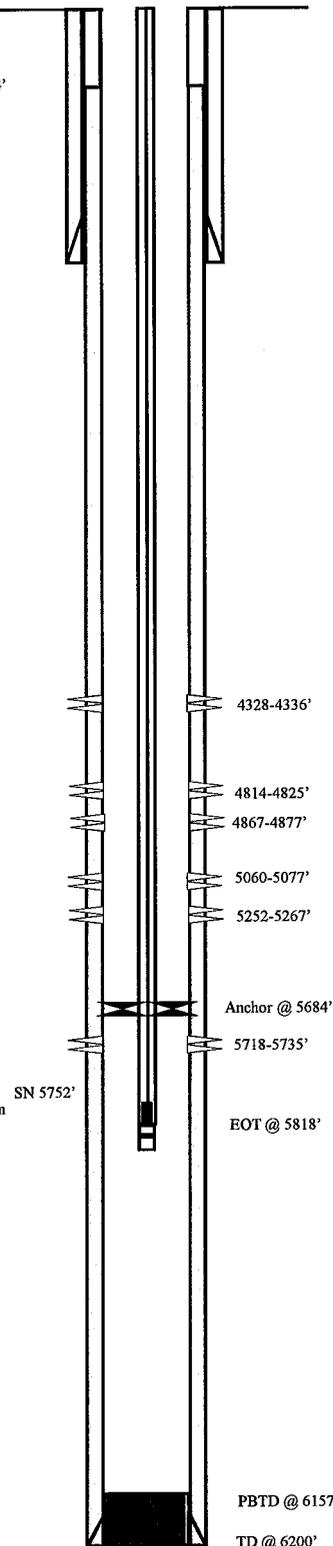
SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 192 jts (6066.48')  
TUBING ANCHOR: 5684.32' KB  
NO. OF JOINTS: 1 jts (31.64')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5751.67' KB  
NO. OF JOINTS: 2 jts (63.14')  
TOTAL STRING LENGTH: EOT @ 5817.80' KB

### SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM  
SUCKER RODS: 1-2' X 3/4" pony rods, 99- 3/4" guided rods, 129- 3/4" plain rods, 10- 3/4" guided rods, 6- 1 1/2" weighted rods.  
PUMP SIZE: 2-1/2" x 1-1/2" x 14.5' RHAC w/SM plunger  
STROKE LENGTH: 86"  
PUMP SPEED, SPM: 5 SPM

### Wellbore Diagram

Cement top @ 94'



### FRAC JOB

04-23-07	5718-5735'	<b>Frac CP1 sands as follows:</b> 80674# 20/40 sand in 619 bbls Lightning 17 frac fluid. Treated @ avg press of 2351 psi w/avg rate of 24.8 BPM. ISIP 2148 psi. Calc flush: 5716 gal. Actual flush: 5208 gal.
04-24-07	5252-5267'	<b>Frac a1 sands as follows:</b> 80738# 20/40 sand in 608 bbls Lightning 17 frac fluid. Treated @ avg press of 1873 psi w/avg rate of 23.9 BPM. ISIP 2166 psi. Calc flush: 5250 gal. Actual flush: 4788 gal.
04-24-07	5060-5077'	<b>Frac B1 sands as follows:</b> 75928# 20/40 sand in 549 bbls Lightning 17 frac fluid. Treated @ avg press of 1782 psi w/avg rate of 24.5 BPM. ISIP 2088 psi. Calc flush: 5058 gal. Actual flush: 4578 gal.
04-24-07	4814-4877'	<b>Frac D2, &amp; D1 sands as follows:</b> 151956# 20/40 sand in 1015 bbls Lightning 17 frac fluid. Treated @ avg press of 1787 w/ avg rate of 25.1 BPM. ISIP 2055 psi. Calc flush: 4812 gal. Actual flush: 4326 gal.
04-24-07	4328-4336'	<b>Frac GB6 sands as follows:</b> 40746# 20/40 sand in 378 bbls Lightning 17 frac fluid. Treated @ avg press of 1820 w/ avg rate of 25.1 BPM. ISIP 1819 psi. Calc flush: 4326 gal. Actual flush: 4242 gal.

### PERFORATION RECORD

04-17-07	5718-5735'	4 JSPF	68 holes
04-23-07	5252-5267'	4 JSPF	60 holes
04-24-07	5060-5077'	4 JSPF	68 holes
04-24-07	4867-4877'	4 JSPF	40 holes
04-24-07	4814-4825'	4 JSPF	44 holes
04-24-07	4328-4336'	4 JSPF	32 holes

**NEWFIELD**



**Federal 8-8-9-16**

2102' FNL & 536' FEL  
SE/NE Section 8-T9S-R16E  
Duchesne Co, Utah

API # 43-013-33057; Lease # UTU-79833

## Federal 5-9-9-16

Spud Date: 3-19-07  
 Put on Production: 5-02-07  
 GL: 5789' KB: 5801'

### Injection Wellbore Diagram

#### SURFACE CASING

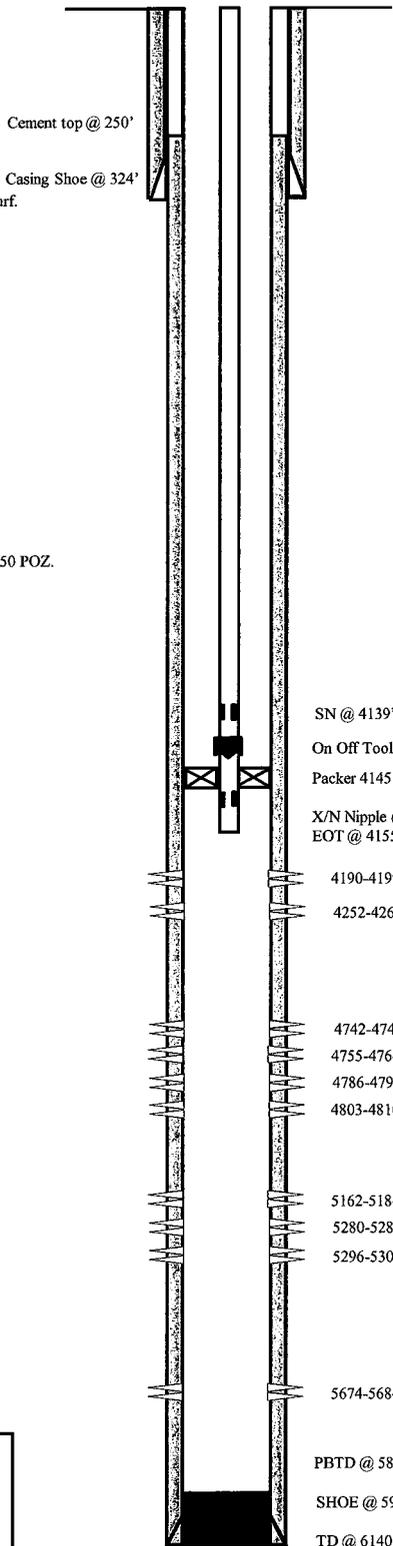
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (313.01')  
 DEPTH LANDED: 323.52' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 4 bbls cmt to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 136 jts. (5912.60')  
 DEPTH LANDED: 5910.85' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
 CEMENT TOP AT: 250'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 TBG PUP 2-7/8 N-80 AT: 10'  
 NO. OF JOINTS: 134 jts (4116.7')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4138.7' KB  
 ON/OFF TOOL AT: 4139.8'  
 ARROW #1 PACKER CE AT: 4144.87'  
 XO 2-3/8 x 2-7/8 J-55 AT: 4148.5'  
 TBG PUP 2-7/8 N-80 AT: 4149.1'  
 X/N NIPPLE AT: 4153.1'  
 TOTAL STRING LENGTH: EOT @ 4155'



#### FRAC JOB

04-30-07	5674-5684'	<b>Frac CPI sands as follows:</b> 20595# 20/40 sand in 297 bbls Lightning 17 frac fluid. Treated @ avg press of 2284 psi w/avg rate of 25 BPM. ISIP 2085 psi. Calc flush: 5672 gal. Actual flush: 5208 gal.
04-30-07	5280-5301'	<b>Frac A3 sands as follows:</b> 65451# 20/40 sand in 520 bbls Lightning 17 frac fluid. Treated @ avg press of 2089 psi w/avg rate of 25 BPM. ISIP 2339 psi. Calc flush: 5278 gal. Actual flush: 4830 gal.
04-30-07	5162-5184'	<b>Frac A 1 sands as follows:</b> 110232# 20/40 sand in 778 bbls Lightning 17 frac fluid. Treated @ avg press of 1947 psi w/avg rate of 24.4 BPM. ISIP 2305 psi. Calc flush: 5160 gal. Actual flush: 4704 gal.
04-30-07	4742-4810'	<b>Frac D2, D1 sands as follows:</b> 139780# 20/40 sand in 952 bbls Lightning 17 frac fluid. Treated @ avg press of 1881 w/ avg rate of 25 BPM. ISIP 2123 psi. Calc flush: 4740 gal. Actual flush: 4242 gal.
04-30-07	4190-4262'	<b>Frac GB6, &amp; GB4 sands as follows:</b> 8970# 20/40 sand in 218 bbls Lightning 17 frac fluid. Treated @ avg press of 1715 w/ avg rate of 25 BPM. ISIP 1647 psi. Calc flush: 4189 gal. Actual flush: 4074 gal.
7/1/08		<b>Pump change.</b> Updated rod and tubing detail.
8/10/09		<b>Pump Change.</b> Updated rod & tubing details.
4/1/10		<b>Parted rods.</b> Updated rod and tubing detail.
5/27/2010		<b>Pump change.</b> Updated rod and tubing detail.
7/21/11		<b>Parted rods.</b> Updated rod & tubing detail.
10/29/12		<b>Convert to Injection Well</b>
10/30/12		<b>Conversion MIT Finalized</b> - update tbg detail

#### PERFORATION RECORD

04-24-07	5674-5684'	4 JSPF	40 holes
04-30-07	5296-5301'	4 JSPF	20 holes
04-30-07	5280-5288'	4 JSPF	32 holes
04-30-07	5162-5184'	4 JSPF	88 holes
04-30-07	4803-4810'	4 JSPF	28 holes
04-30-07	4786-4794'	4 JSPF	32 holes
04-30-07	4755-4764'	4 JSPF	36 holes
04-30-07	4742-4746'	4 JSPF	16 holes
04-30-07	4252-4262'	4 JSPF	40 holes
04-30-07	4190-4199'	4 JSPF	36 holes



**Federal 5-9-9-16**  
 2096' FNL & 770' FWL  
 SW/NW Section 9-T9S-R16E  
 Duchesne Co, Utah  
 API # 43-013-32916; Lease # UTU-79833

## FEDERAL 6-9-9-16

Spud Date: 02/19/07  
 Put on Production: 03/28/07  
 GL: 5782' KB: 5794'

Initial Production: BOPD,  
 MCFD, BWPD

### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (311.37')  
 DEPTH LANDED: 323.87' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 4 bbls cmt to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 138 jts. (6098.92')  
 DEPTH LANDED: 6112.17' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 182 jts (5733.5')  
 TUBING ANCHOR: 5745.5' KB  
 NO. OF JOINTS: 1 jts (31.5')  
 SEATING NIPPLE: 2-7/8" (1.1')  
 SN LANDED AT: 5779.8' KB  
 NO. OF JOINTS: 2 jts (63.2')  
 TOTAL STRING LENGTH: EOT @ 5845' KB

#### SUCKER RODS

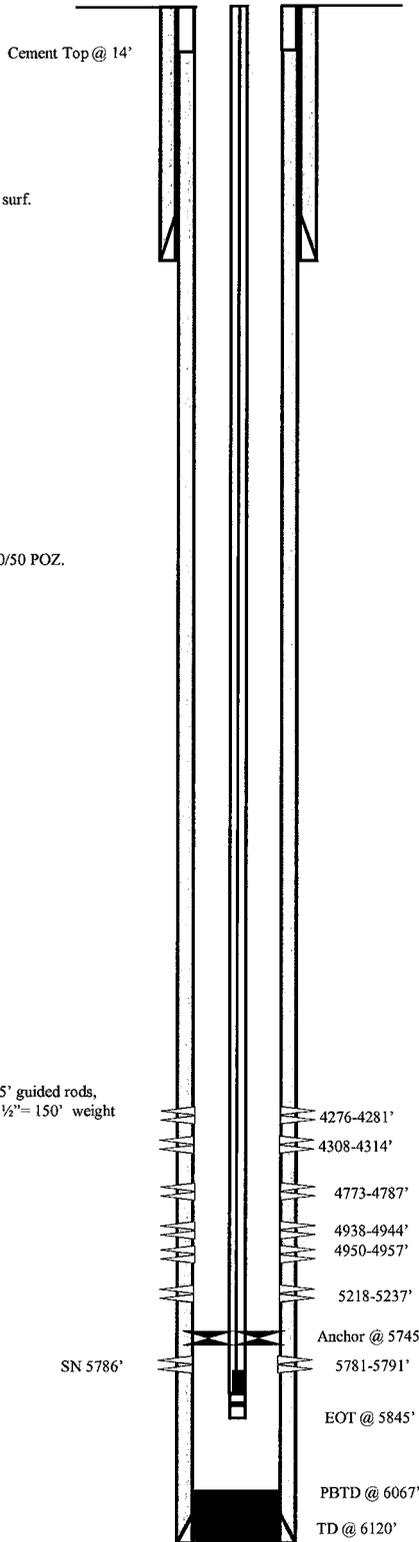
POLISHED ROD: 1-1/2" x 22' SM polished rods  
 SUCKER RODS: 1-2' & 1-8' x 3/4" pony rods, 97-3/4" = 2425' guided rods,  
 79-3/4" = 1975' sucker rods, 46-3/4" guided rods = 1150', 6-1 1/2" = 150' weight  
 rods. 1 - 1" x 4' Stabilizer Rod  
 PUMP SIZE: CDI 2-1/2" x 1-1/4" x 12' x 16' CDI Pump  
 STROKE LENGTH: 86"  
 PUMP SPEED, 5 SPM:

#### FRAC JOB

03/21/07	6221-6229'	<b>Frac CP3 sands as follows:</b> 14389# 20/40 sand in 290 bbls Lightning 17 frac fluid. Treated @ avg press of 1940 psi w/avg rate of 25 BPM. ISIP 1775 psi. Calc flush: 6219 gal. Actual flush: 5250 gal.
03/21/07	5218-5237'	<b>Frac A1 sands as follows:</b> 80163# 20/40 sand in 599 bbls Lightning 17 frac fluid. Treated @ avg press of 1785 psi w/avg rate of 25 BPM. ISIP 2150 psi. Calc flush: 5216 gal. Actual flush: 4704 gal.
03/22/07	4938-4957'	<b>Frac C sands as follows:</b> 44913# 20/40 sand in 407 bbls Lightning 17 frac fluid. Treated @ avg press of 1737 psi w/avg rate of 25 BPM. ISIP 1940 psi. Calc flush: 4936 gal. Actual flush: 4410 gal.
03/22/07	4773-4787'	<b>Frac D1 sands as follows:</b> 85267# 20/40 sand in 613 bbls Lightning 17 frac fluid. Treated @ avg press of 1663 psi w/avg rate of 25.1 BPM. ISIP 2055 psi. Calc flush: 4771 gal. Actual flush: 2055 gal.
03/22/07	4314-4276'	<b>Frac GB6 &amp; GB4 sands as follows:</b> 23837# 20/40 sand in 276 bbls Lightning 17 frac fluid. Treated @ avg press of 2018 psi w/avg rate of 25 BPM. ISIP 2304 psi. Calc flush: 4312 gal. Actual flush: 4200 gal.
01/03/2012		Pump Change. Updated rod & Tubing detail.
01/30/2012		Parted rods. Updated rod & tubing detail.
3/9/12		Parted rods: Updated rod & tubing detail

#### PERFORATION RECORD

03/19/07	5781-5791'	4 JSPF	40 holes
03/21/07	5218-5237'	4 JSPF	76 holes
03/21/07	4950-4957'	4 JSPF	28 holes
03/21/07	4938-4944'	4 JSPF	24 holes
03/22/07	4773-4787'	4 JSPF	56 holes
03/24/07	4308-4314'	4 JSPF	24 holes
03/22/07	4276-4281'	4 JSPF	20 holes





**FEDERAL 6-9-9-16**

1969' FNL & 1994' FWL

SE/NW Section 9-T9S-R16E

Duchesne Co, Utah

API #43-013-32957; Lease # UTU-79833

## Federal 12-9-9-16

Spud Date: 07/26/2009  
 Put on Production: 08/28/2009  
 GL: 5827' KB: 5839'

Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (300')  
 DEPTH LANDED: 312'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 210 sxs Class "G" cmt.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 155 jts (6039')  
 HOLE SIZE: 7-7/8"  
 DEPTH LANDED: 6093.01'  
 CEMENT DATA: 265 sk Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP AT: 40'

### TUBING

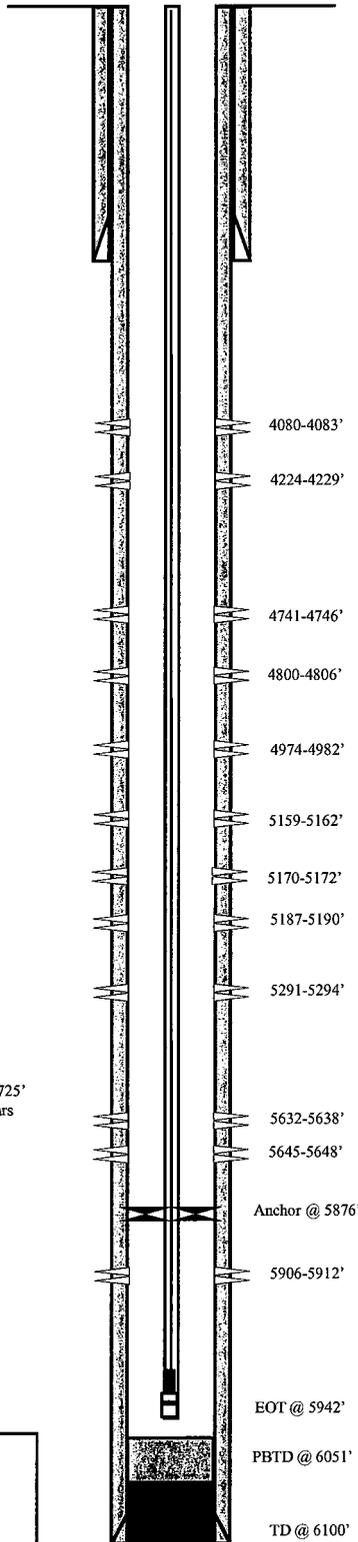
SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 185 jts (5832.3')  
 TUBING ANCHOR: 5876'  
 NO. OF JOINTS: 1 jts (31.5')  
 SEATING NIPPLE: 2-7/8" (1.1')  
 SN LANDED AT: 5879.7' KB  
 NO. OF JOINTS: 2 jts (62')  
 TOTAL STRING LENGTH: EOT @ 5941.75'

### SUCKER RODS

POLISHED ROD: 1-1/2" x 26'  
 SUCKER RODS: 100 - 3/4" = 2500' 4 per guided rods, 109 - 3/4" = 2725' sucker rod, 20 - 3/4" = 500' 4 per guided rods, 6-1 1/2" = 150' weight bars  
 PUMP SIZE: 2 1/2" x 1 1/2" x 16' x 20' RHAC pump  
 STROKE LENGTH: 120  
 PUMP SPEED, SPM 5

### FRAC JOB

08-31-09	5906 - 5912'	Frac CP4 sands as follows: Frac with 15001# 20/40 sand in 125 bbls Lightning 17 fluid.
08-31-09	5632 - 5648'	Frac CP1 sands as follows: Frac with 71037# 20/40 sand in 426 bbls Lightning 17 fluid.
08-31-09	5159 - 5294'	Frac A3 & LODC sands as follows: Frac with 116748# 20/40 sand in 700 bbls Lightning 17 fluid.
08-31-09	4974 - 4982'	Frac B1 sands as follows: Frac with 50899# 20/40 sand in 307 bbls Lightning 17 fluid.
08-31-09	4741 - 4806'	Frac D1 & D2 sands as follows: Frac with 136468# 20/40 sand in 834 bbls Lightning 17 fluid.
08-31-09	4080 - 4229'	Frac GB4 & GB2 sands as follows: Frac with 43808# 20/40 sand in 291 bbls Lightning 17 fluid.
10-28-09		Tubing Leak. Updated rod & tubing details.
10-09-10		Pump Change. Rod & tubing updated.
5/26/11		Tubing Leak. Updated rod and tubing detail.



### PERFORATION RECORD

5906 - 5912'	3 JSPF	18 holes
5645 - 5648'	3 JSPF	9 holes
5632 - 5638'	3 JSPF	18 holes
5291 - 5294'	3 JSPF	9 holes
5187 - 5190'	3 JSPF	9 holes
5170 - 5172'	3 JSPF	6 holes
5159 - 5162'	3 JSPF	9 holes
4974 - 4982'	3 JSPF	24 holes
4800 - 4806'	3 JSPF	18 holes
4741 - 4746'	3 JSPF	15 holes
4224 - 4229'	3 JSPF	15 holes
4080 - 4083'	3 JSPF	9 holes

**NEWFIELD**



**Federal 12-9-9-16**  
 1710' FSL & 443' FWL NW/SW  
 Section 9-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33969; Lease #UTU-85210

## FEDERAL 13-9-9-16

Spud Date: 04/21/07  
 Put on Production: 5/31/07  
 GL: 5878' KB: 5890'

Initial Production: 63 BOPD,  
 11 MCFD, 56 BWPD

### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (313.03')  
 DEPTH LANDED: 323.03' 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: 137 jts. (6018.39')  
 DEPTH LANDED: 6014.39' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
 TOP OF CEMENT: Surface

#### TUBING

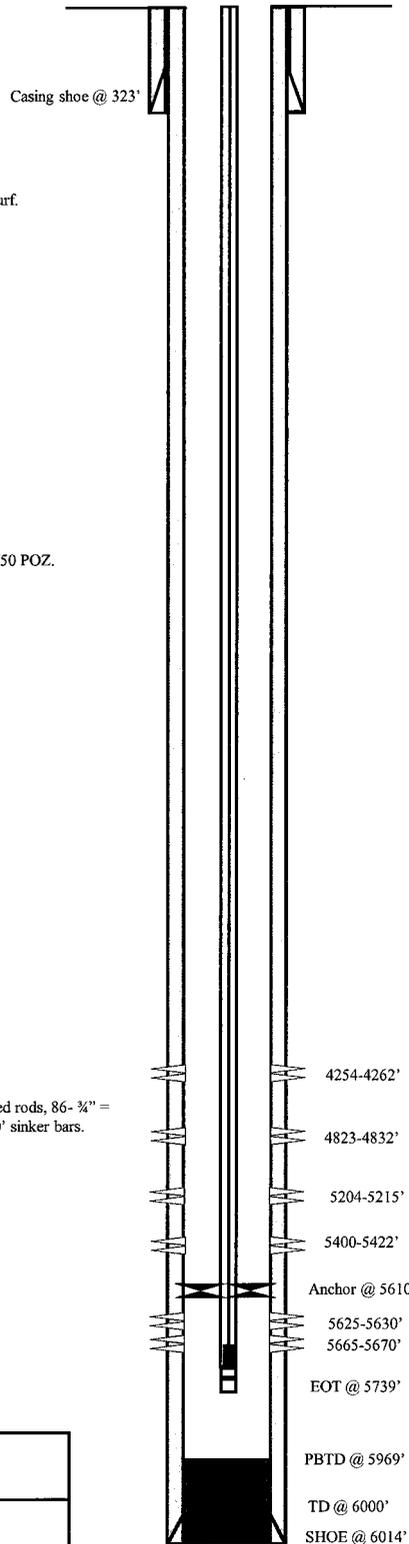
SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 179 jts (5597.6')  
 TUBING ANCHOR: 5609.6' KB  
 NO. OF JOINTS: 2 jts (62.6')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5675.0' KB  
 NO. OF JOINTS: 2 jts (62.7')  
 TOTAL STRING LENGTH: EOT @ 5739' KB

#### SUCKER RODS

POLISHED ROD: 1-1/2" x 26' SM polished rods  
 SUCKER RODS: 1 x 3/8" = 4' pony rod, 89- 3/8" = 2250' guided rods, 86- 3/8" = 2150' sucker rods, 44- 3/8" = 1100' guided rods, 6- 1 1/2" = 150' sinker bars.  
 PUMP SIZE: CDI 2-1/2" x 1-1/4" x 16' x 20' RHAC  
 STROKE LENGTH: 102"  
 PUMP SPEED, SPM: 5

#### FRAC JOB

05/25/07	5625-5670'	<b>Frac CP.5 &amp; CP2 sands as follows:</b> 14942# 20/40 sand in 271 bbls Lightning 17 frac fluid. Treated @ avg press of 2299 psi w/avg rate of 24.6 BPM. ISIP 2063 psi. Calc flush: 5623 gal. Actual flush: 5120 gal.
05/25/07	5400-5422'	<b>Frac LODC sands as follows:</b> 138714# 20/40 sand in 970 bbls Lightning 17 frac fluid. Treated @ avg press of 2903 psi w/avg rate of 24.7 BPM. ISIP 3560 psi. Calc flush: 5398 gal. Actual flush: 4893 gal.
05/25/07	5204-5215'	<b>Frac A3 sands as follows:</b> 55148# 20/40 sand in 467 bbls Lightning 17 frac fluid. Treated @ avg press of 2274 psi w/avg rate of 24.6 BPM. ISIP 2052 psi. Calc flush: 5202 gal. Actual flush: 4696 gal.
05/25/07	4823-4832'	<b>Frac D2 sands as follows:</b> 50506# 20/40 sand in 419 bbls Lightning 17 frac fluid. Treated @ avg press of 1952 psi w/avg rate of 24.7 BPM. ISIP 2034 psi. Calc flush: 4821 gal. Actual flush: 4284 gal
05/25/07	4254-4262'	<b>Frac GB4 sands as follows:</b> 13089# 20/40 sand in 202 bbls Lightning 17 frac fluid. Treated @ avg press of 1894 psi w/avg rate of 24.5 BPM. ISIP 1700 psi. Calc flush: 4252 gal. Actual flush: 4200 gal
2/24/09		Tubing Leak. Updated r & t details.
1/29/10		Tubing Leak. Updated rod and tubing detail.
8/1/2010		Parted rods. Updated rod and tubing detail.
11/24/2010		Parted rods. Updated rod and tubing detail.
5/20/11		Tubing leak. Updated rod and tubing detail.



#### PERFORATION RECORD

05/14/07	5665-5670'	4 JSPF	20 holes
05/14/07	5625-5630'	4 JSPF	20 holes
05/25/07	5400-5422'	4 JSPF	88 holes
05/25/07	5204-5215'	4 JSPF	44 holes
05/25/07	4823-4832'	4 JSPF	36 holes
05/25/07	4254-4262'	4 JSPF	32 holes



**FEDERAL 13-9-9-16**  
 734' FSL & 625' FWL  
 SW/SW Section 9-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33052; Lease # UTU-64379

## FEDERAL 10-8-9-16

Spud Date: 1/10/07  
Put on Production: 03/20/07

GL: 5883' KB: 5895'

### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (291.07')  
DEPTH LANDED: 302.92' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt, est 4 bbls cmt to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 140 jts. (6164.87')  
DEPTH LANDED: 6178.12' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
CEMENT TOP: 48'

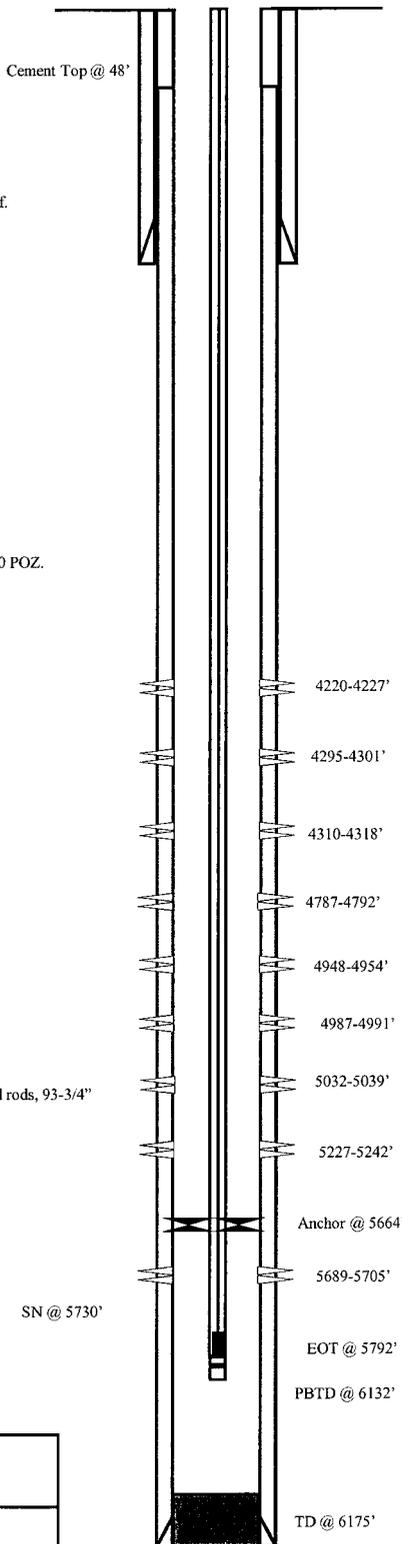
### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55  
NO. OF JOINTS: 181 jts (5652')  
TUBING ANCHOR: 5664'  
NO. OF JOINTS: 2 jts (63.2')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5730'  
NO. OF JOINTS: 2 jts (60.4')  
TOTAL STRING LENGTH: EOT @ 5792'

### SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM  
SUCKER RODS: 1-2', 1-4', 1-8' x 3/4" ponies, 99-3/4" scraped rods, 93-3/4" plain rods, 30-3/4" scraped rods 6-1 1/2" weight rods.  
PUMP SIZE: CDI 2-1/2" x 1-1/2" x 16' RHAC w/ sm Plunger  
STROKE LENGTH: 86"  
PUMP SPEED, 5 SPM

### Wellbore Diagram



Initial Production: BOPD,  
MCFD, BWPD

### FRAC JOB

Date	Depth Range	Description
03/14/07	5689-5705'	<b>Frac C1 sands as follows:</b> 70351# 20/40 sand in 534 bbls Lightning 17 frac fluid. Treated @ avg press of 1715 psi w/avg rate of 25.3 BPM. ISIP 1865 psi. Calc flush: 5687 gal. Actual flush: 5166 gal.
02/26/07	5227-5242'	<b>Frac A1 sands as follows:</b> 70779# 20/40 sand in 576 bbls Lightning 17 frac fluid. Treated @ avg press of 1820 psi w/avg rate of 25.3 BPM. ISIP 2700 psi. Calc flush: 5225 gal. Actual flush: 4746 gal.
03/15/07	5039-4948'	<b>Frac C &amp; B1 sands as follows:</b> 60243# 20/40 sand in 479 bbls Lightning 17 frac fluid. Treated @ avg press of 1637 psi w/avg rate of 25.2 BPM. ISIP 1750 psi. Calc flush: 5037 gal. Actual flush: 4444 gal.
03/15/07	4787-4792'	<b>Frac D1 sands as follows:</b> 14960# 20/40 sand in 232 bbls Lightning 17 frac fluid. Treated @ avg press of 1909 psi w/avg rate of 25.3 BPM. ISIP 1740 psi. Calc flush: 4785 gal. Actual flush: 4240 gal.
03/15/07	4318-4295'	<b>Frac GB6 sands as follows:</b> 40023# 20/40 sand in 358 bbls Lightning 17 frac fluid. Treated @ avg press of 1617 psi w/avg rate of 14.7 BPM. ISIP 2025 psi. Calc flush: 4316 gal. Actual flush: 3822 gal.
03/01/07	4220-4227'	<b>Frac GB4 sands as follows:</b> 23024# 20/40 sand in 251 bbls Lightning 17 frac fluid. Treated @ avg press of 2030 psi w/avg rate of 25.2 BPM. ISIP 2030 psi. Calc flush: 4218 gal. Actual flush: 4116 gal.
11-30-07		Pump Change. Updated rod & tubing details.
2/22/08		Pump change. Updated rod & tubing details.
3/23/09		Pump change. Updated r & t details.
10/8/09		Parted rods. Updated rod & tubing details.
1/23/2010		Tubing Leak. Update rod and tubing details.

### PERFORATION RECORD

Date	Depth Range	Tool	Holes
03/07/07	5689-5705'	4 JSPF	64 holes
03/14/07	5227-5242'	4 JSPF	60 holes
03/14/07	5032-5039'	4 JSPF	28 holes
03/14/07	4987-4991'	4 JSPF	16 holes
03/14/07	4948-4954'	4 JSPF	24 holes
03/14/07	4787-4792'	4 JSPF	20 holes
03/15/07	4310-4318'	4 JSPF	32 holes
03/15/07	4295-4301'	4 JSPF	24 holes
03/15/07	4220-4227'	4 JSPF	28 holes



**FEDERAL 10-8-9-16**

1837'FSL & 1994' FEL

NW/SE Section 8-T9S-R16E

Duchesne Co, Utah

API #43-013-33059; Lease # UTU-64379

Spud Date: 3-14-07  
 Put on Production: 4-23-07  
 GL: 5892' KB: 5904'

## Federal 9-8-9-16

### Injection Wellbore Diagram

#### SURFACE CASING

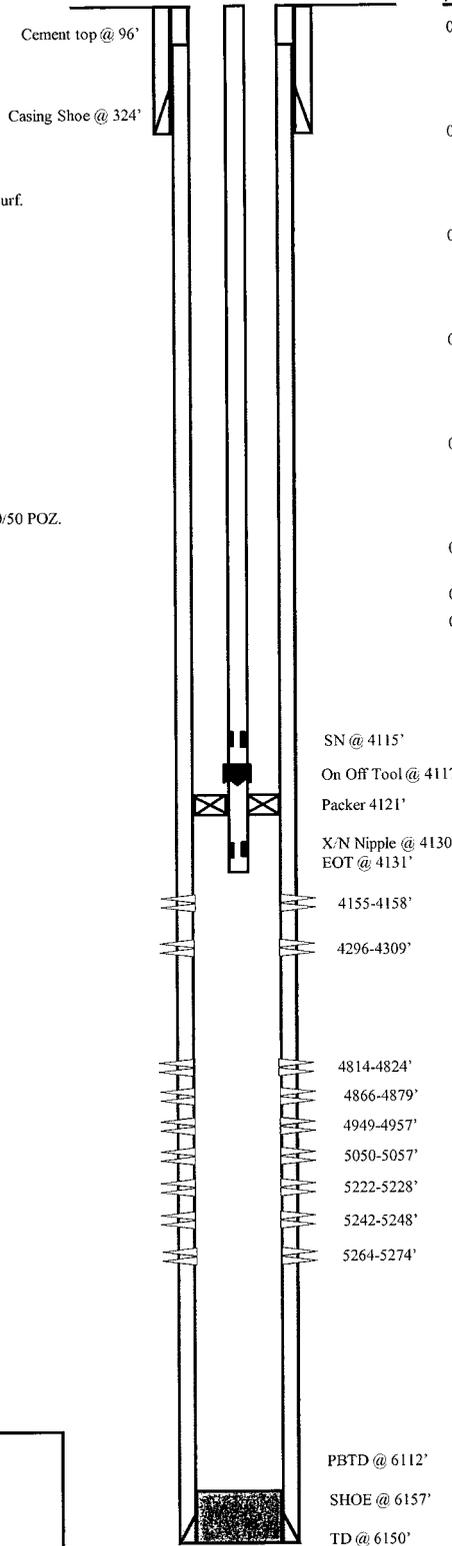
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (312.93')  
 DEPTH LANDED: 323.83' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 139 jts. (6053.57')  
 DEPTH LANDED: 6157.35' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 325 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
 CEMENT TOP AT: 96'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 153 jts (4103.5')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4115.5' KB  
 ON/OFF TOOL AT: 4116.6'  
 PACKER CE @ 4121.39'  
 XO 2-3/8 x 2-7/8 AT: 4125.0'  
 TBG SUB AT: 4125.6  
 X/N NIPPLE 2-3/8 / 4.7# J-55 AT: 4129.7'  
 TOTAL STRING LENGTH: EOT @ 4131' KB



#### FRAC JOB

04-19-07	5222-5274'	<b>Frac A3, &amp; A1 sands as follows:</b> 100620# 20/40 sand in 712 bbls Lightning 17 frac fluid. Treated @ avg press of 1866 psi w/avg rate of 25.2 BPM. ISIP 2198 psi. Calc flush: 5220 gal. Actual flush: 4746 gal.
04-19-07	5050-5057'	<b>Frac B1 sands as follows:</b> 24901# 20/40 sand in 341 bbls Lightning 17 frac fluid. Treated @ avg press of 1844 psi w/avg rate of 25.6 BPM. ISIP 1903 psi. Calc flush: 5048 gal. Actual flush: 4578 gal.
04-19-07	4949-4957'	<b>Frac C sands as follows:</b> 15025# 20/40 sand in 268 bbls Lightning 17 frac fluid. Treated @ avg press of 2058 psi w/avg rate of 25.5 BPM. ISIP 3687 psi. Calc flush: 4947 gal. Actual flush: 4494 gal.
04-19-07	4814-4879'	<b>Frac D2, &amp; D1 sands as follows:</b> 140271# 20/40 sand in 940 bbls Lightning 17 frac fluid. Treated @ avg press of 1825 w/ avg rate of 25.5 BPM. ISIP 2118 psi. Calc flush: 4812 gal. Actual flush: 4326 gal.
04-20-07	4296-4309'	<b>Frac GB4 sands as follows:</b> 75560# 20/40 sand in 560 bbls Lightning 17 frac fluid. Treated @ avg press of 1672 w/ avg rate of 25.4 BPM. ISIP 1958 psi. Calc flush: 4294 gal. Actual flush: 4200 gal.
09/12/12	4155-4158'	<b>Frac GB2 sands as follows:</b> 10170# 20/40 sand in 107 bbls Lightning 17 frac fluid.
09/13/12		<b>Convert to Injection Well</b>
09/14/12		<b>Conversion MIT Finalized</b> - update tbg detail

#### PERFORATION RECORD

Date	Interval	JSPF	Holes
04-13-07	5264-5274'	4 JSPF	40 holes
04-13-07	5242-5248'	4 JSPF	24 holes
04-13-07	5222-5228'	4 JSPF	24 holes
04-19-07	5050-5057'	4 JSPF	28 holes
04-19-07	4949-4957'	4 JSPF	32 holes
04-19-07	4866-4879'	4 JSPF	52 holes
04-19-07	4814-4824'	4 JSPF	40 holes
04-19-07	4296-4309'	4 JSPF	52 holes
09-11-12	4155-4158'	3 JSPF	9 holes



**Federal 9-8-9-16**  
 2136' FSL & 944' FEL  
 NE/SE Section 8-T9S-R16E  
 Duchesne Co, Utah  
 API # 43-013-33058; Lease # UTU-64379

## Federal 7-8-9-16

Spud Date: 1-16-07  
 Put on Production: 3-28-07  
 GL: 5889' KB: 5901'

### Injection Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (311.5')  
 DEPTH LANDED: 323.35' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt. est 4 bbls cmt to surf.

#### PRODUCTION CASING

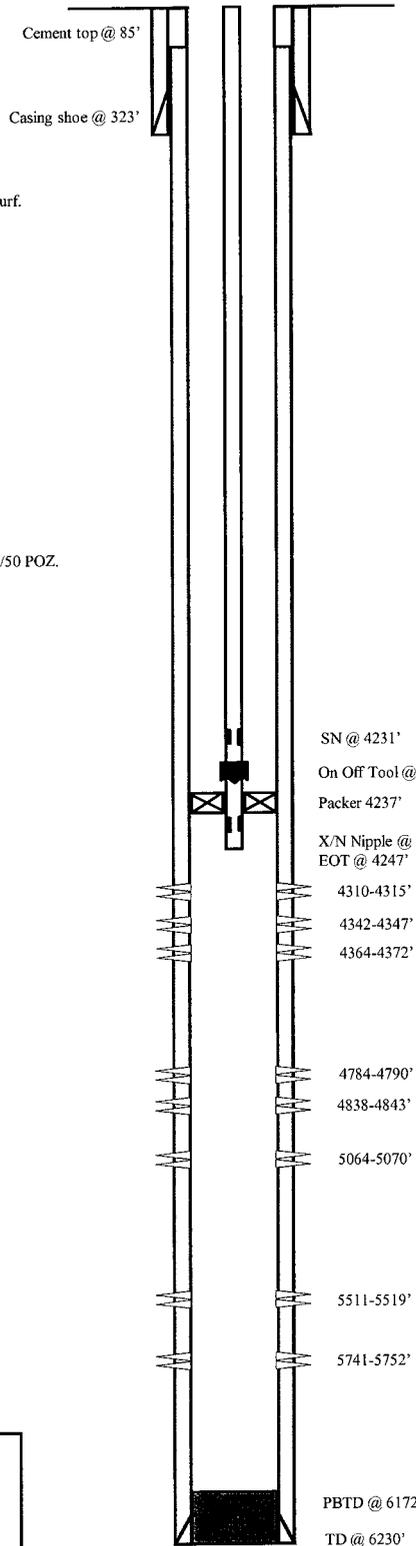
CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 141 jts. (6204.07')  
 DEPTH LANDED: 6217.32' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
 CEMENT TOP AT: 85'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 134 jts (4218.8')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4230.8' KB  
 ON/OFF TOOL AT: 4231.9'  
 SEAL NIPPLE AT: 4233.3  
 ARROW #1 PACKER CE AT: 4236.93'  
 XO 2-3/8 x 2-7/8 J-55 AT: 4240.6'  
 TBG PUP 2-3/8 J-55 AT: 4241.1'  
 X/N NIPPLE AT: 4245.1'  
 TOTAL STRING LENGTH: EOT @ 4247'

#### FRAC JOB

04-19-07	5741-5752'	<b>Frac CP1 sands as follows:</b> 14783# 20/40 sand in 265 bbls Lightning 17 frac fluid. Treated @ avg press of 1736 psi w/avg rate of 25.2 BPM. ISIP 1660 psi. Calc flush: 5739 gal. Actual flush: 5208 gal.
04-19-07	5860-5870'	<b>Frac LODC sands as follows:</b> 35135# 20/40 sand in 375 bbls Lightning 17 frac fluid. Treated @ avg press of 2009 psi w/avg rate of 25.2 BPM. ISIP 2220 psi. Calc flush: 5858 gal. Actual flush: 5006 gal.
04-19-07	5064-5070'	<b>Frac B1 sands as follows:</b> 19832# 20/40 sand in 300 bbls Lightning 17 frac fluid. Treated @ avg press of 1820 psi w/avg rate of 25.5 BPM. ISIP 1850 psi. Calc flush: 5062 gal. Actual flush: 4553 gal.
04-19-07	4784-4843'	<b>Frac DS3 sands as follows:</b> 29693# 20/40 sand in 360 bbls Lightning 17 frac fluid. Treated @ avg press of 2140 w/ avg rate of 25.4 BPM. ISIP 1980 psi. Calc flush: 4782 gal. Actual flush: 4242 gal.
04-19-07	4310-4372'	<b>Frac GB6, &amp; GB4 sands as follows:</b> 71931# 20/40 sand in 538 bbls Lightning 17 frac fluid. Treated @ avg press of 2566 w/ avg rate of 25.6 BPM. ISIP 1840 psi. Calc flush: 4308 gal. Actual flush: 4246 gal.
09/27/12		<b>Convert to Injection Well</b>
09/28/12		<b>Conversion MIT Finalized</b> – update tbg detail



#### PERFORATION RECORD

Date	Interval	Tool	Holes
04-16-07	5741-5752'	4 JSPF	44 holes
04-19-07	5511-5519'	4 JSPF	32 holes
04-19-07	5064-5070'	4 JSPF	24 holes
04-19-07	4838-4843'	4 JSPF	20 holes
04-19-07	4784-4790'	4 JSPF	24 holes
04-19-07	4364-4372'	4 JSPF	32 holes
04-19-07	4342-4347'	4 JSPF	20 holes
04-19-07	4310-4315'	4 JSPF	20 holes



**Federal 7-8-9-16**  
 2003' FNL & 2179' FEL  
 SW/NE Section 8-T9S-R16E  
 Duchesne Co, Utah  
 API # 43-013-33056; Lease # UTU-64379

## South Wells Draw U-5-9-16

Spud Date: 3/26/2009  
 Put on Production: 6/4/2009  
 GL: 5758' KB: 5770'

### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 8 jts (312')  
 DEPTH LANDED: 324' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sx class 'G' cmt

#### PRODUCTION CASING

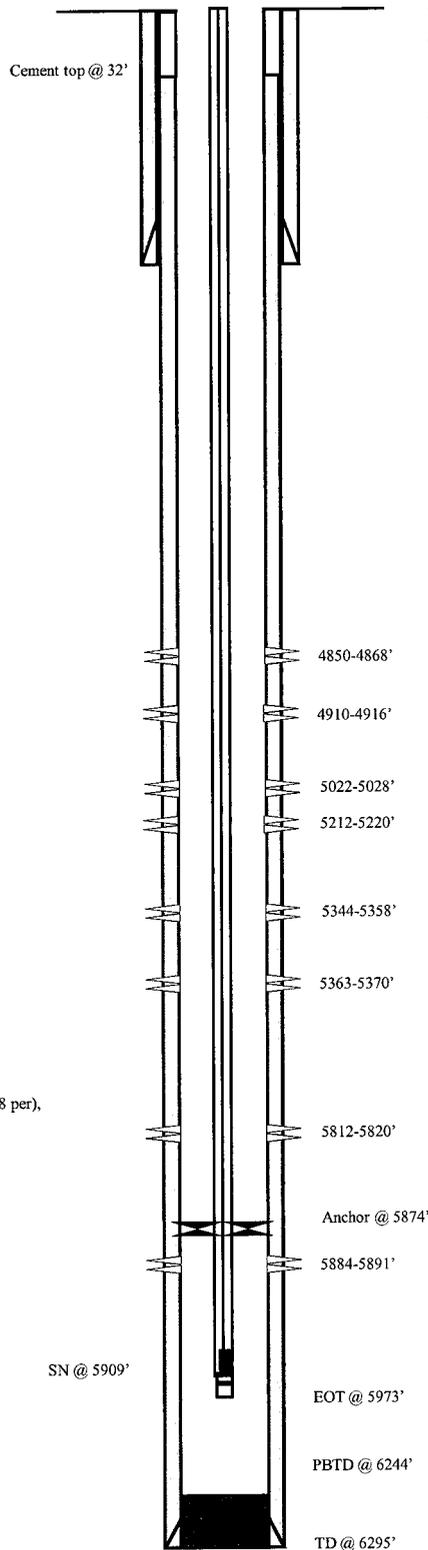
CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 154 jts (6273')  
 HOLE SIZE: 7-7/8"  
 DEPTH LANDED: 6286.08'  
 CEMENT DATA: 300 sx Prem. Lite and 400 sx 50/50 poz  
 CEMENT TOP AT: 32'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 188 jts (5862')  
 TUBING ANCHOR: 5874' KB  
 NO. OF JOINTS: 1 jts (31.6')  
 SEATING NIPPLE: 2-7/8" (1.1')  
 SN LANDED AT: 5909' KB  
 NO. OF JOINTS: 2 jts (63.0')  
 TOTAL STRING LENGTH: EOT @ 5973'

#### SUCKER RODS

POLISHED ROD: 1 1/2" x 30'  
 SUCKER RODS: 1 - 2' x 7/8" pony rod, 231 - 7/8" guide rod (8 per),  
 4 - 1 1/2" weight bars.  
 PUMP SIZE: 2 1/2" x 1 3/4" x 20' RHAC  
 STROKE LENGTH: 120"  
 PUMP SPEED, SPM: 4



#### FRAC JOB

Date	Job ID	Description
6-5-09	5884-5891'	<b>Frac CP2 sands as follows:</b> Frac with 19,931# 20/40 sand in 340 total bbls inc Lightning 17 fluid.
6-5-09	5812-5820'	<b>Frac CP1 sands as follows:</b> Frac with 24,805# 20/40 sand in 207 bbls of Lightning 17 fluid.
6-5-09	5344-5370'	<b>Frac A1 sands as follows:</b> Frac with 71,697# 20/40 sand in 620 total bbls inc Lightning 17 fluid.
6-5-09	5212-5220'	<b>Frac B2 sands as follows:</b> Frac with 24,698# 20/40 sand in 207 bbls of Lightning 17 fluid.
6-5-09	5022-5028'	<b>Frac D3 sands as follows:</b> Frac with 25,367# 20/40 sand in 165 bbls of Lightning 17 fluid.
6-5-09	4850-4916'	<b>Frac D1 &amp; DS3 sands as follows:</b> Frac with 97,338# 20/40 sand in 597 bbls of Lightning 17 fluid.

#### PERFORATION RECORD

Depth Range	Tool	Holes
5884-5891'	4 JSPF	28 holes
5812-5820'	4 JSPF	32 holes
5363-5370'	4 JSPF	28 holes
5344-5358'	4 JSPF	56 holes
5212-5220'	4 JSPF	32 holes
5022-5028'	4 JSPF	24 holes
4910-4916'	4 JSPF	24 holes
4850-4868'	4 JSPF	72 holes



**S Wells Draw U-5-9-16**  
 697' FNL & 647' FWL NW/NW  
 Section 9-T9S-R16E  
 Duchesne Co, Utah  
 API # 43-013-33981; Lease # UTU-73086

## South Wells Draw X-4-9-16

Spud Date: 4/2/2009  
 Put on Production: 6/1/2009  
 GL: 5715' KB: 5727'

### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 8 jts (313')  
 DEPTH LANDED: 325' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sx class 'G' cmt

#### PRODUCTION CASING

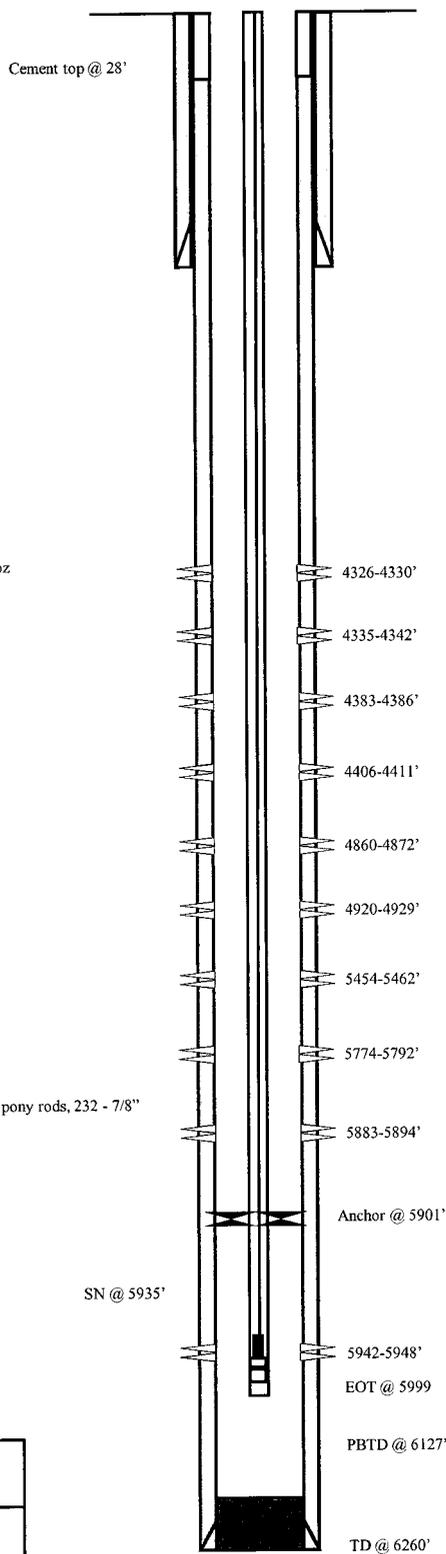
CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 169 jts (6172')  
 HOLE SIZE: 7-7/8"  
 DEPTH LANDED: 6222.70'  
 CEMENT DATA: 280 sx Prem. Lite and 400 sx 50/50 poz  
 CEMENT TOP AT: 28'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 190 jts (5889')  
 TUBING ANCHOR: 5901' KB  
 NO. OF JOINTS: 1 jt (30.9')  
 SEATING NIPPLE: 2-7/8" (1.1')  
 SN LANDED AT: 5935' KB  
 NO. OF JOINTS: 2 jts (62.4')  
 TOTAL STRING LENGTH: EOT @ 5999'

#### SUCKER RODS

POLISHED ROD: 1 1/2" x 26"  
 SUCKER RODS: 1 - 2' x 7/8"; 1 - 4' x 7/8"; 1 - 8' x 7/8" pony rods, 232 - 7/8" guided rods (8 per), 4-1 1/2" weight bars  
 PUMP SIZE: 2 1/2" x 1 3/4" x 20' RHAC rod pump  
 STROKE LENGTH: 144"  
 PUMP SPEED, SPM: 5



#### FRAC JOB

6-10-09	5883-5948'	<b>Frac CP3 &amp; CP4 sands as follows:</b> Frac with 29,550# of 20/40 sand in 249 bbls of Lightning 17 fluid.
6-10-09	5774-5792'	<b>Frac CP2 sands as follows:</b> Frac with 65,152# 20/40 sand in 395 bbls of Lightning 17 fluid.
6-10-09	5454-5462'	<b>Frac LODC sands as follows:</b> Frac with 30,549# 20/40 sand in 244 bbls of Lightning 17 fluid.
6-10-09	4860-4929'	<b>Frac D1 &amp; D2 sands as follows:</b> Frac with 55,172# 20/40 sand in 341 bbls of Lightning 17 fluid.
6-10-09	4326-4411'	<b>Frac GB2 &amp; GB4 sands as follows:</b> Frac with 55,292# 20/40 sand in 346 bbls of Lightning 17 fluid.

#### PERFORATION RECORD

5942-5948'	4 JSPF	24 holes
5883-5894'	4 JSPF	44 holes
5774-5792'	4 JSPF	72 holes
5454-5462'	4 JSPF	32 holes
4920-4929'	4 JSPF	36 holes
4860-4872'	4 JSPF	48 holes
4406-4411'	4 JSPF	20 holes
4383-4386'	4 JSPF	12 holes
4335-4342'	4 JSPF	28 holes
4326-4330'	4 JSPF	16 holes



**South Wells Draw X-4-9-16**  
 730' FSL & 2044' FWL SE/SW  
 Section 4-T9S-R16E  
 Duchesne Co, Utah  
 API # 43-013-33880; Lease # UTU- 64379

## SWD Fed #B-8-9-16

Spud Date: 06/11/08  
 Put on Production: 10/13/08  
 GL: 5852' KB: 5864'

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (312.79')  
 DEPTH LANDED: 324.64'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 1- 160, sxs Class "G" cmt, est 9 bbls cmt to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 137 jts (6316.75')  
 DEPTH LANDED: 6330'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 350 sx Premlite II and 450 sx 50/50 Poz  
 CEMENT TOP AT: 38'

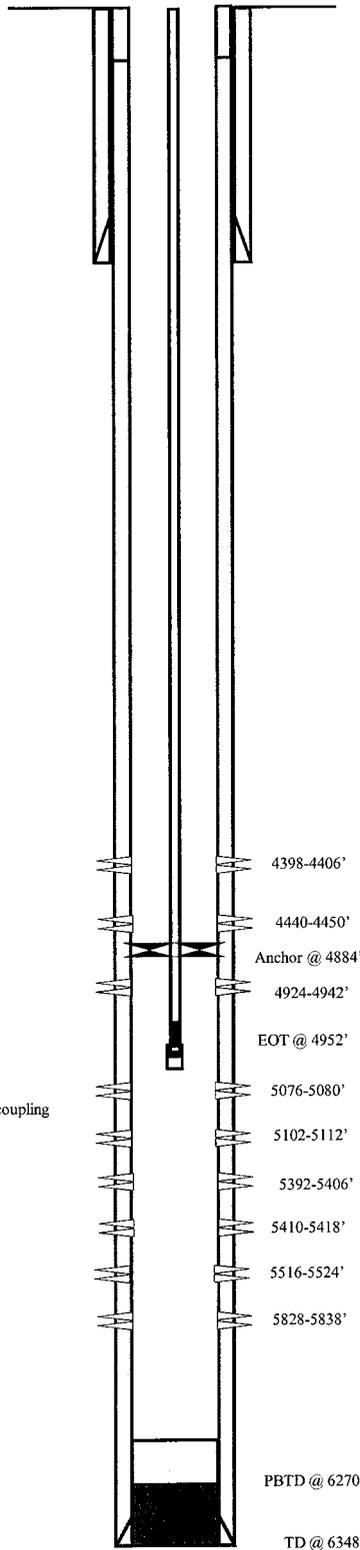
### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55/  
 NO. OF JOINTS: 157 jts (4872.21')  
 TUBING ANCHOR: 2.80@ 4884.21  
 NO. OF JOINTS: 1 jts (30.85')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4917.86  
 NO. OF JOINTS: 1 (30.85)  
 TOTAL STRING LENGTH: EOT @ 4952'

### SUCKER RODS

POLISHED ROD: 1 1/2" x 26' polished rod  
 SUCKER RODS: 191-7/8" guided (8 per), 4-1 1/2" wt bars, 21k shear coupling  
 PUMP SIZE: 2 1/2" x 2" x 24' RHBC CDI  
 STROKE LENGTH: 120'  
 PUMP SPEED, SPM: 5

Wellbore Diagram



### FRAC JOB

7/15/08 5828-5838' **Frac CP.5 sds as follows:**  
 24,700# 20/40 sand in 369 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2765 psi @ ave rate of 23 BPM. ISIP 2282 psi. Actual flush: 5326 gals.

7/15/08 5516-5524' **Frac LODC sds as follows:**  
 25,258# 20/40 sand in 358 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2103 psi @ ave rate of 23.1 BPM. ISIP 1740 psi. Actual flush: 5011 gals.

7/15/08 5392-5406' **Frac A1 sds as follows:**  
 100,294# 20/40 sand in 743 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2210 psi @ ave rate of 23 BPM. ISIP 1740 psi. Actual flush: 4889 gals.

7/16/08 5076-5080' **Frac C sds as follows:**  
 59,951# 20/40 sand in 506 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2103 psi @ ave rate of 23 BPM. ISIP 2180 psi. Actual flush: 4570 gals.

7/16/08 4924-4942' **Frac D1 sds as follows:**  
 128,411# 20/40 sand in 906 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2326 psi @ ave rate of 25.6 BPM. ISIP 2411 psi. Actual flush: 4418 gals.

7/16/08 4398-4406' **Frac GB4 & GB6 sds as follows:**  
 99,112# 20/40 sand in 716 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2003 psi @ ave rate of 25.7 BPM. ISIP 2008 psi. Actual flush: 4326 gals.

### PERFORATION RECORD

4398-4406'	4 JSPF	32 holes
4440-4450'	4 JSPF	40 holes
4924-4942'	4 JSPF	72 holes
5076-5080'	4 JSPF	16holes
5102-5112'	4 JSPF	40 holes
5392-5406'	4 JSPF	56 holes
5410-5418'	4 JSPF	32 holes
5516-5524'	4 JSPF	32 holes
5828-5838'	4 JSPF	40 holes



SWD Fed #B-8-9-16  
 527' FNL & 2066' FEL  
 NWN Section 8-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33764; Lease #UTU-020255

Spud Date: 3/17/96  
 Put on Production: 4/19/96  
 Put on Injection: 3/10/02  
 GL: 5811' KB: 5828'

## Monument Federal #41-8-9-16

Initial Production: 100 BOPD, 0 MCFD  
 15 BWPD

Injection Wellbore  
 Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 6 JTS  
 DEPTH LANDED: 260'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sx Class "G" cmt w/2% CaCl & 1/4#/sx cello flakes

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 134 jts (5856.58')  
 DEPTH LANDED: 5919'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sx Super "G" & 350 sx Poz 50/50  
 SET AT: 5919.18' KB

**TUBING**

SIZE/GRADE/WT: 2-7/8", J-55, 6.5#  
 NO. OF JOINTS: 131 jts. (4201.84')  
 SEATING NIPPLE: 2-7/8"  
 SN LANDED AT: 4218.84'  
 PACKER: 4224.14'  
 TOTAL STRING LENGTH: EOT @ 4227.25'

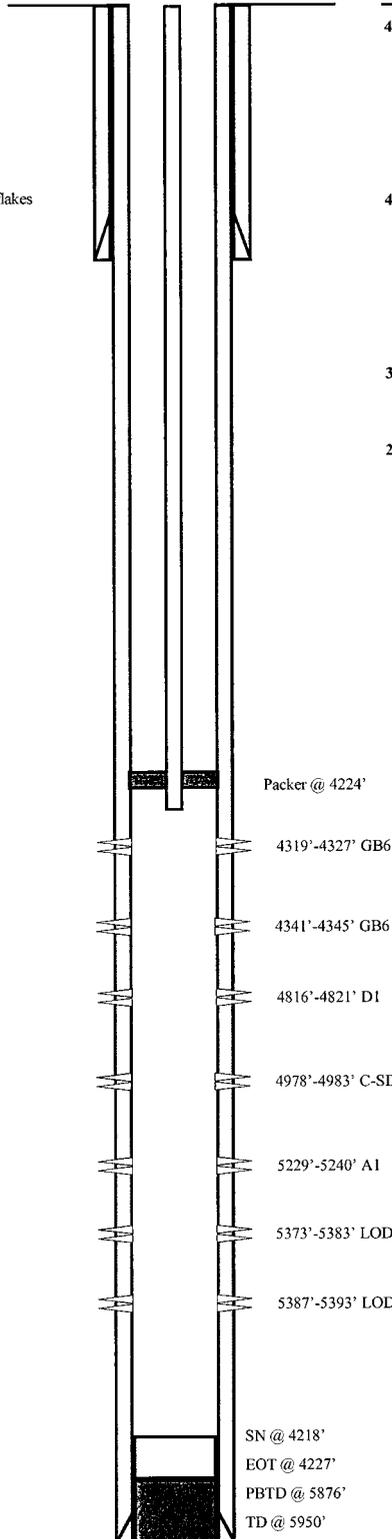
**FRAC JOB**

4-1-96 5229'-5240' **Frac sand as follows:**  
 19,698 gals 2% KCL wtr, 26,280# 20/40 sand and 42,600# 16/30 sand. ATP: 2050 psi, ATR: 30.8 bpm, ISIP: 4400 psi, 5 min: 1690 psi, 10 min: 1410 psi, 15 min: 1320 psi. Used 469 bbls wtr. Screen out w/61,655# sand on formation.

4-4-96 4816'-4983' **Frac sand as follows:**  
 18,942 gals 2% KCL gelled wtr and 60,100# 16/30 sd. ATP = 3700 psi, ATR = 34 bpm, ISIP = 5100 psi, 5 min: 1650 psi, 10 min: 1460 psi, 15 min: 1400 psi. Used 451 bbls wtr. Screen out w/51,207# sand on formation. Flow back 1 bpm. 1-1/2 hrs = 90 bbls flow back.

3/08/02 **Convert to injector. Update tubing details.**

2/21/07 **5 Year MIT completed and submitted.**



**PERFORATION RECORD**

Date	Interval	Tool	Holes
3/27/96	5229'-5240'	4 JSPF	44 holes
4/03/96	4978'-4983'		7 holes
4/03/96	4816'-4821'		7 holes
3/04/02	5387'-5393'	4 JSPF	24 holes
3/04/02	5373'-5383'	4 JSPF	40 holes
3/04/02	4341'-4345'	4 JSPF	16 holes
3/04/02	4319'-4327'	4 JSPF	32 holes

**NEWFIELD**

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**Monument Federal #41-8-9-16**  
 806 FNL & 605 FEL  
 NENE Section 8-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-31619; Lease #U-020255

## Monument Federal 31-8-9-16

Spud Date: 1/15/97  
 Put on Production: 2/14/97  
 GL: 5838' KB: 5849'

Initial Production: 194 BOPD, 93 MCFD  
 23 BWPD

### Injector Wellbore Diagram

#### SURFACE CASING

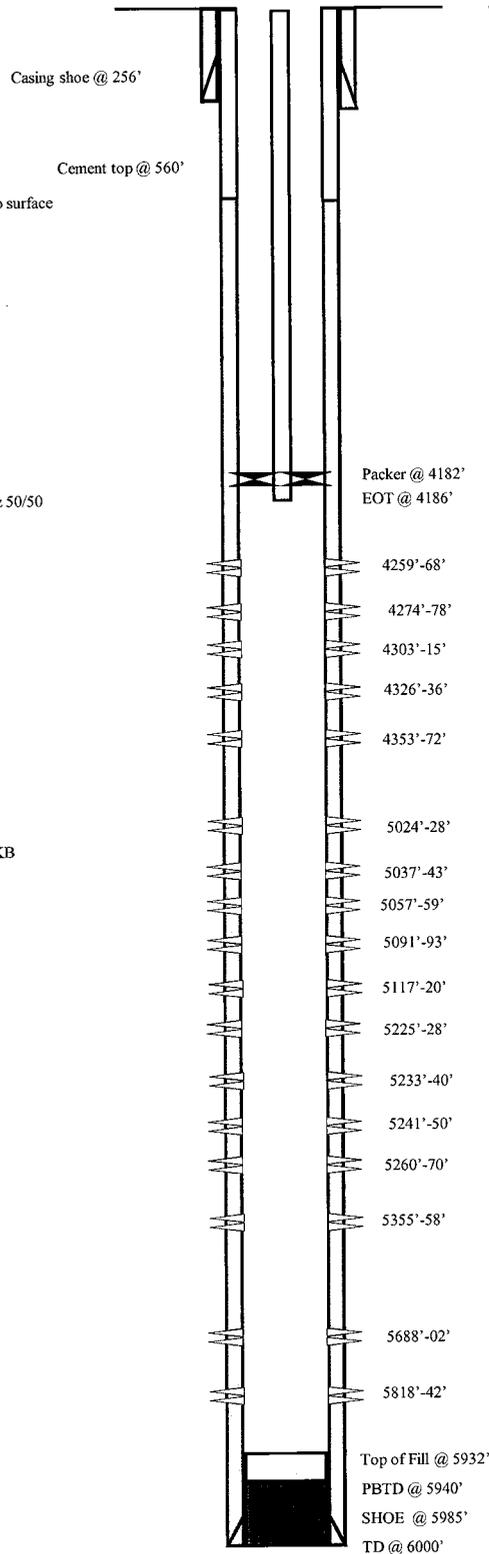
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 5 JTS  
 DEPTH LANDED: 256.20'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls to surface

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 143 jts (5974.92')  
 DEPTH LANDED: 5984.92'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 240 sxs Premium & 390 sxs Poz 50/50  
 CEMENT TOP AT: 560'

#### TUBING

SIZE/GRADE/WT: 2-7/8", J-55, 6.5#  
 NO. OF JOINTS: 134 jts. (4167.5')  
 SEATING NIPPLE: 2-7/8"  
 SN LANDED AT: 4177.5' KB  
 CE @ 4181.88'  
 TOTAL STRING LENGTH: EOT @ 4186' w / 10' KB



#### FRAC JOB

1-28-97 5225'-5358' **Frac sand as follows:**  
 29,840# 20/40 sand + 69,160# 16/30 sand in 642 bbls 2% KCL. ATP-2350 psi w/avg rate of 33.0 BPM. ISIP-4570 psi. Calc flush: 5225 gal. Actual flush: 5208 gal.

1-31-97 4259'-4372' **Frac sand as follows:**  
 162,000# 16/30 sand in 1076 bbl 2% KCL. ATP-2150 psi w/avg rate of 41.9 BPM. ISIP-2450 psi. Calc flush: 5225 gal. Actual flush: 5208 gal.

5/08/99 **Stuck pump.** Update rod details.

5/22/03 5688'-5842' **Frac CP.5 and #3 sands as follows:**  
 102,000# 20/40 sand in 507 bbls Viking I-25 fluid. Treated @ avg press of 3120 psi w/avg rate of 15.7 BPM. ISIP 1790 psi. Calc flush: 1476 gal. Actual flush: 1344 gal.

5/22/03 5024'-5120' **Frac B and B2 sands as follows:**  
 58,600# 20/40 sand in 307 bbls Viking I-25 fluid. Treated @ avg press of 3027 psi w/avg rate of 15.4 BPM. ISIP 1830 psi. Calc flush: 1322 gal. Actual flush: 1176 gal.

8/30/03 **Tubing Leak.** Update tbq and rod detail.

05/27/08 **Parted Rods -** updated tubing and rod detail

04/13/10 **Tubing Leak.** Update tbq and rod detail.

10/05/10 **Convert to Injection well**

10/07/10 **MIT completed -** tbq detail updated

#### PERFORATION RECORD

Date	Depth Range	ISPF	Holes
1-27-97	5225'-5228'	1 JSPF	3 holes
1-27-97	5233'-5240'	1 JSPF	7 holes
1-27-97	5241'-5250'	1 JSPF	9 holes
1-27-97	5260'-5270'	1 JSPF	10 holes
1-27-97	5355'-5358'	4 JSPF	12 holes
1-30-97	4259'-4268'	2 JSPF	18 holes
1-30-97	4274'-4278'	2 JSPF	8 holes
1-30-97	4303'-4315'	4 JSPF	48 holes
1-30-97	4326'-4336'	4 JSPF	40 holes
1-30-97	4353'-4372'	4 JSPF	76 holes
5/21/03	5818'-5842'	4 JSPF	96 holes
5/21/03	5688'-5702'	4 JSPF	56 holes
5/21/03	5117'-5120'	4 JSPF	12 holes
5/21/03	5091'-5093'	4 JSPF	8 holes
5/21/03	5057'-5059'	4 JSPF	8 holes
5/21/03	5037'-5043'	4 JSPF	24 holes
5/21/03	5024'-5028'	4 JSPF	16 holes



**Monument Federal 31-8-9-16**  
 520 FNL & 2076 FEL  
 NWNE Section 8-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-31721; Lease #UTU-020255

## Monument Federal 11-9-9-16

Spud Date: 3/20/96  
 Put on Production: 3/29/96  
 GL: 5756' KB: 5766' (10' KB)

Initial Production: 113 BOPD,  
 0 MCFD 18 BWPD

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 JTS - 288'  
 DEPTH LANDED: 298' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sx Class "G" cmt

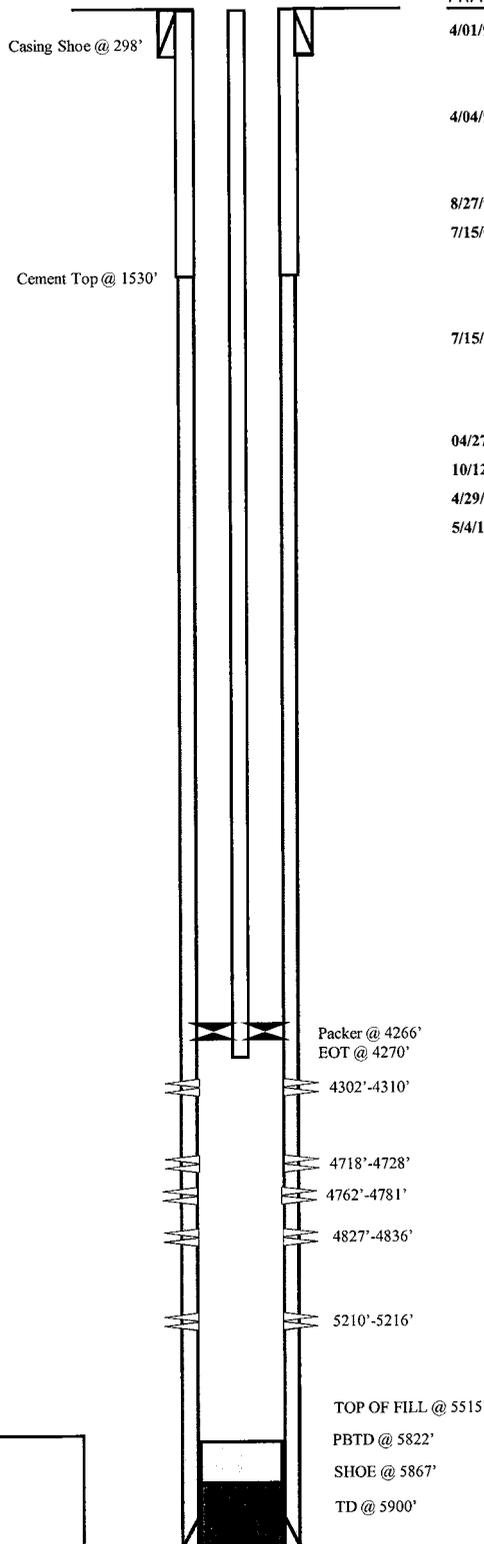
### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 134 jts. (5856.70')  
 SET AT: 5866.7' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 265 sxs Super "G", 348 sxs 50/50 poz.  
 CEMENT TOP AT: 1530' KB

### TUBING

SIZE/GRADE/WT: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 133 jts. (4252')  
 SEATING NIPPLE: 1.10'  
 SN LANDED AT: 4262' KB  
 CE @ 4266.36'  
 TOTAL STRING LENGTH: EOT @ 4270' KB

### Injection Wellbore Diagram



### FRAC JOB

4/01/96	4762'-4836'	<b>Frac sand as follows:</b> 110,000# 16/30 sand in 790 bbl 2% frac fluid. ATP 3800 psi, ATR 35.5 bpm, ISIP 3500 psi. Calc. Flush: 4762 gal. Actual flush: 4704 gal.
4/04/96	4302'-4310'	<b>Frac sand as follows:</b> 50,090# 16/30 sand in 402 bbl 2% frac fluid. ATP 3600 psi, ATR 31.6 bpm, ISIP 2450 psi. Calc. Flush: 4302 gal. Actual flush: 4242 gal.
8/27/99		<b>Pump change.</b> Update rod and tubing details.
7/15/03	5210'-5216'	<b>Frac A1 sands as follows:</b> 23,892#'s of 20/40 sand in 215 bbls Viking 1-25 fluid. Treated @ avg press. Of 3370 w/avg rate of 14.7 bpm. ISIP 2200 psi. Calc flush: 1362 gal. Actual flush: 1260 gals.
7/15/03	4718'-4728'	<b>Frac DS3 sands as follow:</b> 25,000#'s of 20/40 sand in 200 bbls Viking 1-25 fluid. Treated @ avg press of 3880 psi w/avg rate of 14.7 bpm. ISIP 3960 psi. Calc flush: 1233 gal. Actual flush: 1134 gal.
04/27/05		<b>Pump change.</b> Update rod and tubing detail.
10/12/2010		<b>Parted rods.</b> Updated rod and tubing detail.
4/29/11		<b>Convert to Injection well</b>
5/4/11		<b>Conversion MIT Finalized</b>

### PERFORATION RECORD

4302'-4310'	4 JSPF	32 holes
4718'-4728'	4 JSPF	40 holes
4762'-4781'		8 holes
4827'-4836'		6 holes
5210'-5216'	4 JSPF	24 holes



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

674 FNL & 668 FWL  
 NWNW Section 9-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-31618; Lease #UTU-020254

## West Point 6-8-9-16

Spud Date: 11/10/2001  
 Put on Production: 12/18/2001  
 GL: 5886' KB: 5896'

Initial Production: 160 BOPD,  
 253 MCFD, 45 BWPD

Injection Wellbore  
 Diagram

**SURFACE CASING**

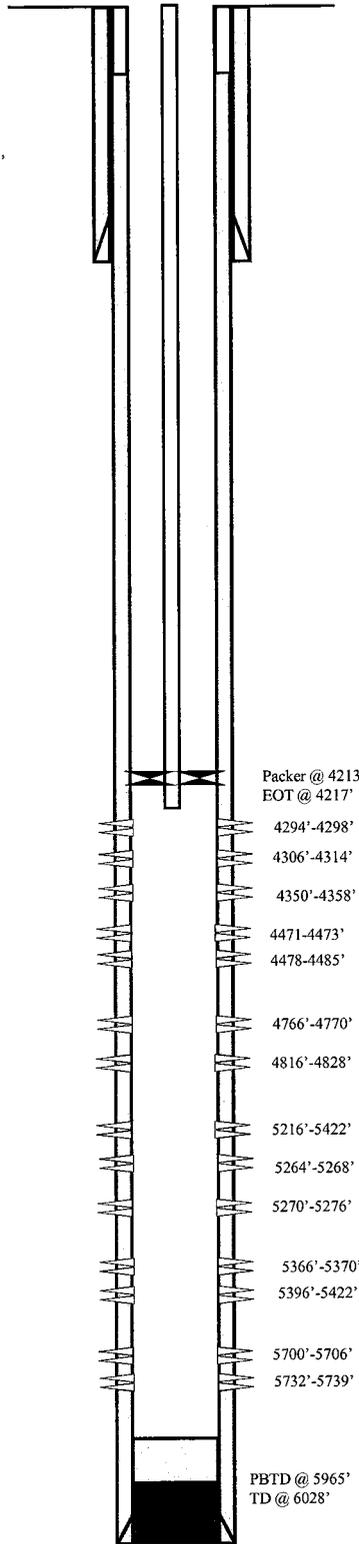
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (303.45')  
 DEPTH LANDED: 311.45'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 150 sxs Class "G" cmt, est 1 bbl cmt to surf.  
 Cement Top @ 95'  
 Casing shoe @ 311'

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 137 jts. (5999.71')  
 DEPTH LANDED: 5997.21'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 275 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
 CEMENT TOP AT: 95' per CBL

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 129 jts (4199')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4209' KB  
 CE @ 4213.37'  
 TOTAL STRING LENGTH: EOT @ 4217'



**FRAC JOB**

12/6/01 5700'-5739' **Frac CP sand as follows:**  
 50,505# 20/40 sand in 433 bbls Viking I-25 fluid. Treated @ avg press of 1950 psi w/avg rate of 25.7 BPM. ISIP 2150 psi. Calc. flush 5700 gal: Act. flush 5628 gal.

12/7/01 5216'-5422' **Frac LODC/A sand as follows:**  
 163,131# 20/40 sand in 1100 bbls Viking I-25 fluid. Treated @ avg press of 2210 psi w/avg rate of 26 BPM. ISIP 2275 psi. Calc. flush 5216 gal: Act. flush 5145 gal. Flowed 9.5 hr. then died.

12/10/01 4766'-4828' **Frac D sand as follows:**  
 64,699# 20/40 sand in 521 bbls Viking I-25 fluid. Treated @ avg press of 1775 psi w/avg rate of 25.6 BPM. ISIP 1900 psi. Calc. flush 4766 gal: Act. flush 4897 gal. Flowed 5.5 hr. then died.

12/11/01 4294'-4358' **Frac GB sand as follows:**  
 83,741# 20/40 sand in 539 bbls Viking I-25 fluid. Treated @ avg press of 1850 psi w/avg rate of 25.6 BPM. ISIP 221 psi. Calc. flush 4294 gal: Act. flush 4200 gal. Flowed 8 hr. then died.

02/17/11 4471'-4485' **Frac PB8 sand as follows:** 42601# 20/40 sand in 378 bbls Lighting 17 fluid.

02/23/11 **Recompletion finalized** - updated tbg and rod details

05/04/11 **Convert to Injection Well**

05/19/11 **Conversion MIT Finalized** - tbg detail updated

**PERFORATION RECORD**

Date	Interval	Tool	Holes
12/06/01	5732'-5739'	4 JSPF	28 holes
12/06/01	5700'-5706'	4 JSPF	24 holes
12/07/01	5396'-5422'	4 JSPF	104 holes
12/07/01	5366'-5370'	4 JSPF	16 holes
12/07/01	5270'-5276'	4 JSPF	24 holes
12/07/01	5264'-5268'	4 JSPF	16 holes
12/07/01	5216'-5222'	4 JSPF	24 holes
12/10/01	4816'-4828'	4 JSPF	48 holes
12/10/01	4766'-4770'	4 JSPF	16 holes
12/11/01	4350'-4358'	4 JSPF	32 holes
12/11/01	4306'-4314'	4 JSPF	32 holes
12/11/01	4294'-4298'	4 JSPF	16 holes
02/17/11	4478'-4485'	3 JSPF	21 holes
02/17/11	4471'-4473'	3 JSPF	6 holes



**West Point 6-8-9-16**  
 2048' FNL & 2104' FWL  
 SENW Section 8-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-32282; Lease #UTU-74390



**GMBU I-8-9-16**  
Monument Butte - Duchesne County, Utah, USA

Surface Legal Location: SE/NE - Sec 8, T9S, R16E; 2103' FNL & 515' FEL

Elevation: 5862' GL + 10' KB

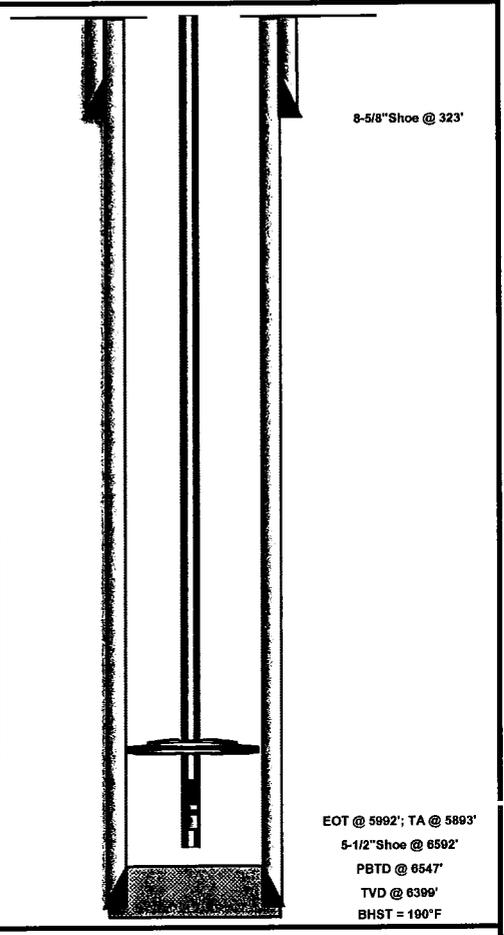
API#: 43-013-51138; Lease#: UTU-79833

Paul Lembcke

DLB 5/2/13

Spud Date: 1/16/13; PoP Date: 3/6/2013

CASING DETAIL	Casing	Top	Bottom	Size	Wt	Grade	Drift	Burst	Collapse	ID	gal/ft	Coupling	Hole
	Surf	10'	323'	8.625	24#	J-55	7.972"	2,950	1,370	8.087"	2.6749	STC	12.250
	Prod	10'	6,592'	5.500	15.5#	J-55	4.825"	4,810	4,040	4.950"	0.9997	LTC	7.875
TBC DETAIL	Top	Bottom	Coupling	Size	Wt.	Grade	Drift	Burst	Collapse	ID	Packer/Hanger		
	10'	5,992'	8EUE	2-7/8"	6.5#	J-55	2.347"	7,260	7,680	2.441"	Tubing Anchor Set @ 5,893'		
ROD DETAIL	Component		Top	Bottom	Size	Grade	Length	Count	Pump				
	Polish Rod		0'	30'	1 1/2"	C(API)	30	1	Insert Pump: 2.5 Max ID x 1.75 Plunger RTBC @ 5,905'				
	4per Guided Rod		30'	1,830'	7/8"	Tenaris D78	1800	72					
	4per Guided Rod		1,830'	5,155'	3/4"	Tenaris D78	3325	133					
	8per Guided Rod		5,155'	5,905'	7/8"	Tenaris D78	750	30					
Stage	Top	Bottom	SPF	EHD	Date	Frac Summary							
5	4,420'	4,422'	3	0.34	2/25/2013	Formation:	GB6	GB4					
	4,493'	4,494'	3	0.34	2/25/2013	20/40 White:	59,287 lbs	15% HCl:	0 gals				
	4,502'	4,504'	3	0.34	2/25/2013	Pad:	1,877 gals	Treating Fluid:	13,687 gals				
	4,516'	4,518'	3	0.34	2/25/2013	Flush:	4,439 gals	Load to Recover:	20,004 gals				
						ISIP=	0.901 psi/ft	Max STP:	3,193 psi				
4	4,946'	4,948'	3	0.34	2/25/2013	Formation:	D1	DS3					
	4,979'	4,980'	3	0.34	2/25/2013	20/40 White:	84,153 lbs	15% HCl:	500 gals				
	4,988'	4,990'	3	0.34	2/25/2013	Pad:	1,772 gals	Treating Fluid:	18,590 gals				
	4,998'	5,000'	3	0.34	2/25/2013	Flush:	5,011 gals	Load to Recover:	25,873 gals				
						ISIP=	0.862 psi/ft	Max STP:	3,171 psi				
3	5,166'	5,168'	3	0.34	2/25/2013	Formation:	B1	C Sand					
	5,236'	5,238'	3	0.34	2/25/2013	20/40 White:	58,477 lbs	15% HCl:	500 gals				
	5,254'	5,256'	3	0.34	2/25/2013	Pad:	1,890 gals	Treating Fluid:	13,124 gals				
						Flush:	5,089 gals	Load to Recover:	20,612 gals				
						ISIP=	0.838 psi/ft	Max STP:	3,243 psi				
2	5,448'	5,450'	3	0.34	2/25/2013	Formation:	A3						
	5,460'	5,462'	3	0.34	2/25/2013	20/40 White:	41,103 lbs	15% HCl:	500 gals				
						Pad:	1,693 gals	Treating Fluid:	9,129 gals				
						Flush:	5,401 gals	Load to Recover:	16,722 gals				
						ISIP=	0.864 psi/ft	Max STP:	4,716 psi				
1	5,898'	5,900'	3	0.34	2/25/2013	Formation:	CP Half						
						20/40 White:	18,627 lbs	15% HCl:	752 gals				
						Pad:	9,538 gals	Treating Fluid:	3,990 gals				
						Flush:	5,804 gals	Load to Recover:	19,833 gals				
						ISIP=	0.780 psi/ft	Max STP:	3,849 psi				
CEMENT	Surf	On 1/21/13 Baker cemented 8 5/8" casing w/ 160 sks Class "G" + 2% KCl + 0.25#/sk Cello Flake at 15.8 ppg w/ 1.17 yield and returned 4 bbls to the pit.											
	Prod	On 2/6/13 Halliburton pumped 290 sks lead @ 11 ppg w/ 2.71 yield plus 460 sks tail @ 14.4 ppg w/ 1.21 yield. Returned 35 bbls to the pit. TOC @ 990'.											



EOT @ 5992'; TA @ 5893'  
5-1/2" Shoe @ 6592'  
PBTD @ 6547'  
TVD @ 6399'  
BHST = 190°F

## NEWFIELD



### GMBU F-9-9-16 Monument Butte - Duchesne County, Utah, USA

Surf Legal Location: SE/NE - Sec 8, T9S, R16E; 2,108' FNL & 494' FEL

5862' GL + 10' KB

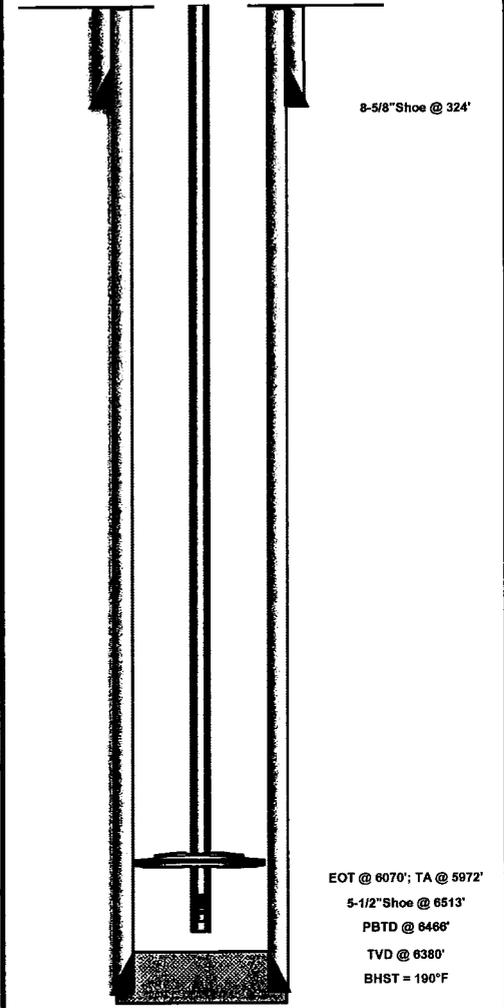
AP# 43-013-51139; Lease# UTU-79833

Paul Lembcke

DLB 5/2/13

Spud Date: 1/17/13; PoP Date: 3/6/13

Casing Detail	Casing	Top	Bottom	Size	Wt	Grade	Drift	Burst	Collapse	ID	gal/ft	Coupling	Hole
	Surf	10'	324'	8.825	24#	J-55	7.972"	2,950	1,370	8.097"	2.6749	STC	12.250
	Prod	10'	6,513'	5.500	15.5#	J-55	4.825"	4,810	4,040	4.950"	0.9987	LTC	7.875
TBC Detail	Top	Bottom	Coupling	Size	Wt.	Grade	Drift	Burst	Collapse	ID	Packer/Hanger		
	10'	6,070'	8EUE	2-7/8"	6.5#	J-55	2.347"	7,260	7,680	2.441"	Tubing Anchor Set @	5,972'	
ROD DETAIL	Component		Top	Bottom	Size	Grade	Length	Count	Pump				
	Polish Rod		0'	30'	1 1/2"	C(API)	30	1	Insert Pump: 2.5 Max ID x 1.75 Plunger RHAC @				
	Pony Rod		30'	32'	3/4"	C(API)	2	1	6,000'				
	Pony Rod		32'	36'	7/8"	C(API)	4	1					
	Pony Rod		36'	42'	7/8"	C(API)	6	1					
	Polish Rod		42'	50'	7/8"	C(API)	8	1					
	4per Guided Rod		50'	2,025'	7/8"	Tenaris D78	1975	79					
	4per Guided Rod		2,025'	5,250'	3/4"	Tenaris D78	3225	129					
8per Guided Rod		5,250'	6,000'	7/8"	Tenaris D78	750	30						
Stage	Top	Bottom	SPF	EHD	Date	Frac Summary							
5	4,469'	4,470'	3	0.34	2/26/2013	Formation: GB6							
	4,473'	4,476'	3	0.34	2/26/2013	20/40 White: 50,152 lbs		15% HCl: 0 gals					
						Pad: 1,726 gals		Treating Fluid: 11,167 gals					
						Flush: 4,486 gals		Load to Recover: 17,379 gals					
						ISIP= 0.857 psi/ft		Max STP: 3,240 psi					
4	4,917'	4,918'	3	0.34	2/26/2013	Formation: D2 D1 DS3							
	4,974'	4,976'	3	0.34	2/26/2013	20/40 White: 117,860 lbs		15% HCl: 504 gals					
						Pad: 2,037 gals		Treating Fluid: 26,172 gals					
						Flush: 4,876 gals		Load to Recover: 33,589 gals					
						ISIP= 0.833 psi/ft		Max STP: 3,638 psi					
3	5,150'	5,152'	3	0.34	2/26/2013	Formation: B1 Csand							
	5,239'	5,242'	3	0.34	2/26/2013	20/40 White: 52,394 lbs		15% HCl: 504 gals					
						Pad: 1,911 gals		Treating Fluid: 11,076 gals					
						Flush: 5,124 gals		Load to Recover: 18,615 gals					
						ISIP= 0.971 psi/ft		Max STP: 3,694 psi					
2	5,440'	5,442'	3	0.34	2/26/2013	Formation: A3							
	5,452'	5,454'	3	0.34	2/26/2013	20/40 White: 71,068 lbs		15% HCl: 504 gals					
						Pad: 1,877 gals		Treating Fluid: 15,725 gals					
						Flush: 5,426 gals		Load to Recover: 23,532 gals					
						ISIP= 0.895 psi/ft		Max STP: 3,614 psi					
1	5,900'	5,902'	3	0.34	2/26/2013	Formation: CP3 CP1							
	5,914'	5,916'	3	0.34	2/26/2013	20/40 White: 93,347 lbs		15% HCl: 756 gals					
						Pad: 2,944 gals		Treating Fluid: 20,538 gals					
						Flush: 5,813 gals		Load to Recover: 29,799 gals					
						ISIP= 0.941 psi/ft		Max STP: 3,842 psi					
CEMENT	Surf	On 1/21/13 Baker cemented 8 5/8" casing w/ 160 sks Class "G" + 2% KCl + 0.25#/sk Cello Flake at 15.8 ppg w/ 1.17 yield and returned 4 bbls to the pit.											
	Prod	On 2/9/13 Halliburton pumped 290 sks lead @ 11 ppg w/ 3.53 yield plus 460 sks tail @ 14.4 ppg w/ 1.24 yield. Returned 37 bbls to the pit. TOC @ 667'.											



EOT @ 6070'; TA @ 5972'  
5-1/2" Shoe @ 6513'  
PBTD @ 6466'  
TVD @ 6380'  
BHST = 190°F

## GMBU C-8-9-16

Spud Date: 11/07/2011

PWOP: 12/21/2011

GL: 5843' KB: 5856'

### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 jts. (317.85')

DEPTH LANDED: 333.17' KB

HOLE SIZE: 12-1/4"

CEMENT DATA: 160 sxs Class "G" cmt

#### PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 154 jts. (6441.65') Includes Flag Joint (10.97') & Landing Joint (15.8')

HOLE SIZE: 7-7/8"

DEPTH LANDED: 6444.46' KB

CEMENT DATA: 250 sxs Prem. Lite II mixed & 435 sxs 50/50 POZ.

CEMENT TOP AT: 40'

#### TUBING

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

NO. OF JOINTS: 198 jts. (6155.7')

TUBING ANCHOR: 6167.7' KB

NO. OF JOINTS: 1 jt. (31.2')

SEATING NIPPLE: 2-7/8" (1.1')

SN LANDED AT: 6201.7' KB

NO. OF JOINTS: 2 jts. (62.6')

NOTCHED COLLAR: 6265.3' KB

TOTAL STRING LENGTH: EOT @ 6266'

#### SUCKER RODS

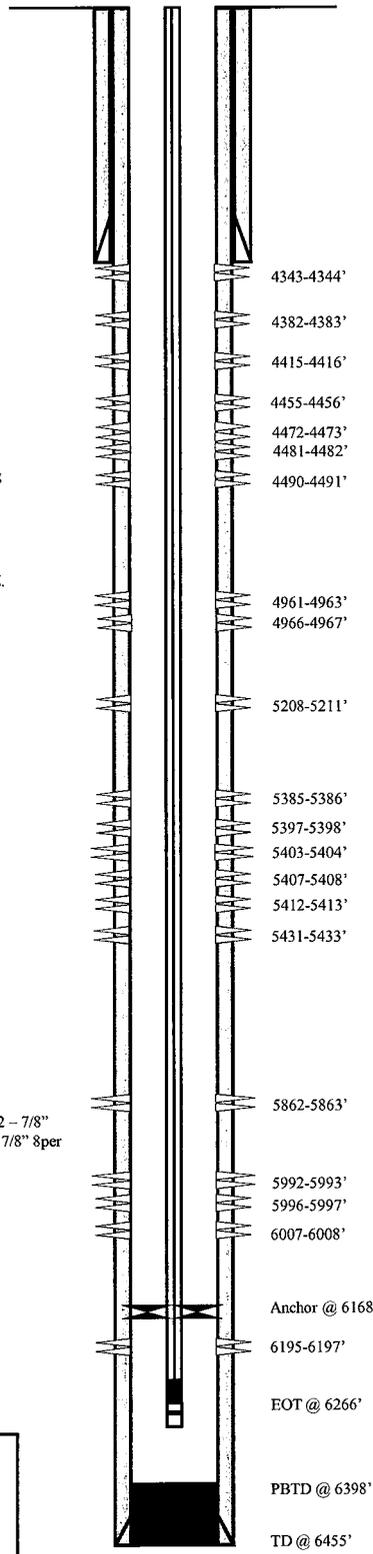
POLISHED ROD: 1-1/2" x 30' Spray Metal Polished Rod

SUCKER RODS: 1 - 7/8" x 2' Pony Rod, 1 - 7/8" x 6' Pony Rod, 72 - 7/8" 4per Guided Rods (1800'), 162 - 3/4" 4per Guided Rods (4050'), 12 - 7/8" 8per Guided Rods (300')

PUMP SIZE: 2 1/2" x 1 3/4" x 20' x 21' x 24' RHAC

STROKE LENGTH: 144"

PUMP SPEED: 5 SPM



#### FRAC JOB

12/09/2011	5862-6197'	<b>Frac CP.5, CP1 &amp; CP3, sands as follows:</b> Frac with 54214# 20/40 white sand in 673 bbls lightning 17 fluid; 859 bbls total fluid to recover.
12/15/2011	5385-5433'	<b>Frac A.5, A1 &amp; A3, sands as follows:</b> Frac with 59128# 20/40 white sand in 472 bbls lightning 17 fluid; 618 bbls total fluid to recover.
12/15/2011	4961-5211'	<b>Frac B1 &amp; D1, sands as follows:</b> Frac with 49847# 20/40 white sand in 398 bbls lightning 17 fluid; 537 bbls total fluid to recover.
12/15/2011	4343-4491'	<b>Frac GB2, GB4 &amp; GB6, sands as follows:</b> Frac with 114640# 20/40 white sand in 859 bbls lightning 17 fluid; 977 bbls total fluid to recover.

#### PERFORATION RECORD

6195-6197'	3 JSPF	6 holes
6007-6008'	3 JSPF	3 holes
5996-5997'	3 JSPF	3 holes
5992-5993'	3 JSPF	3 holes
5862-5863'	3 JSPF	3 holes
5431-5433'	3 JSPF	6 holes
5412-5413'	3 JSPF	3 holes
5407-5408'	3 JSPF	3 holes
5403-5404'	3 JSPF	3 holes
5397-5398'	3 JSPF	3 holes
5385-5386'	3 JSPF	3 holes
5208-5211'	3 JSPF	9 holes
4966-4967'	3 JSPF	3 holes
4961-4963'	3 JSPF	6 holes
4490-4491'	3 JSPF	3 holes
4481-4482'	3 JSPF	3 holes
4472-4473'	3 JSPF	3 holes
4455-4456'	3 JSPF	3 holes
4415-4416'	3 JSPF	3 holes
4382-4383'	3 JSPF	3 holes
4343-4344'	3 JSPF	3 holes

**NEWFIELD**



**GMBU C-8-9-16**

674' FSL & 1983' FWL (SE/SW)

Section 5, T9S, R16E

Duchesne County, Utah

API #43-013-50704; Lease # UTU-73087

Multi-Chem Analytical Laboratory  
 1553 East Highway 40  
 Vernal, UT 84078

Units of Measurement: **Standard**

Water Analysis Report

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

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

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

Sample Specifics		Analysis @ Properties in Sample Specifics			
		Cations		Anions	
		mg/L		mg/L	
Test Date:	12/5/2012	Sodium (Na):	734.93	Chloride (Cl):	1000.00
System Temperature 1 (°F):	120.00	Potassium (K):	11.00	Sulfate (SO <sub>4</sub> ):	120.00
System Pressure 1 (psig):	60.0000	Magnesium (Mg):	26.00	Bicarbonate (HCO <sub>3</sub> ):	386.00
System Temperature 2 (°F):	210.00	Calcium (Ca):	46.20	Carbonate (CO <sub>3</sub> ):	
System Pressure 2 (psig):	60.0000	Strontium (Sr):		Acetic Acid (CH <sub>3</sub> COO)	
Calculated Density (g/ml):	0.999	Barium (Ba):	0.17	Propionic Acid (C <sub>2</sub> H <sub>5</sub> COO)	
pH:	6.80	Iron (Fe):	0.13	Butanoic Acid (C <sub>3</sub> H <sub>7</sub> COO)	
Calculated TDS (mg/L):	2304.49	Zinc (Zn):	0.02	Isobutyric Acid ((CH <sub>3</sub> ) <sub>2</sub> CHCOO)	
CO <sub>2</sub> in Gas (%):		Lead (Pb):	0.00	Fluoride (F):	
Dissolved CO <sub>2</sub> (mg/L):	15.00	Ammonia NH <sub>3</sub> :		Bromine (Br):	
H <sub>2</sub> S in Gas (%):		Manganese (Mn):	0.04	Silica (SiO <sub>2</sub> ):	
H <sub>2</sub> S in Water (mg/L):	2.50				

Notes:  
 9:30

(PTB = Pounds per Thousand Barrels)

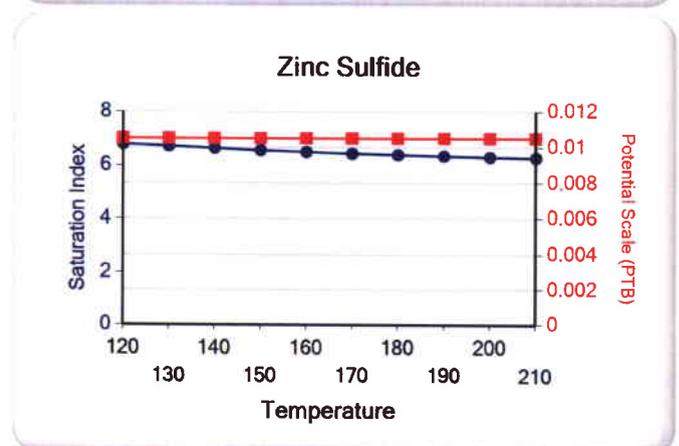
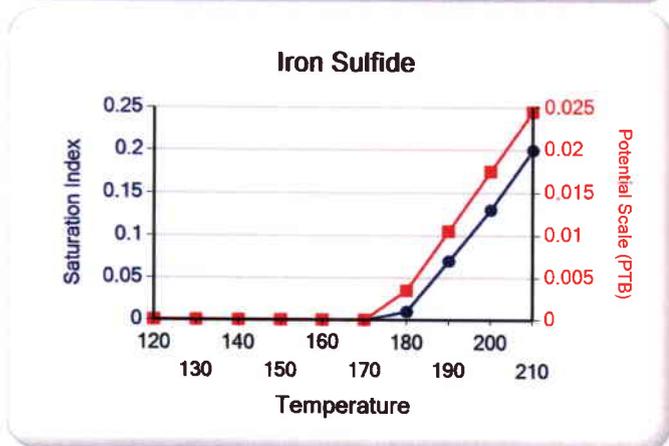
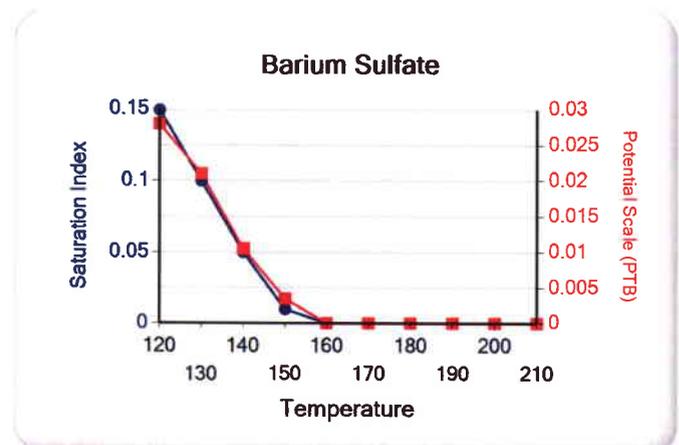
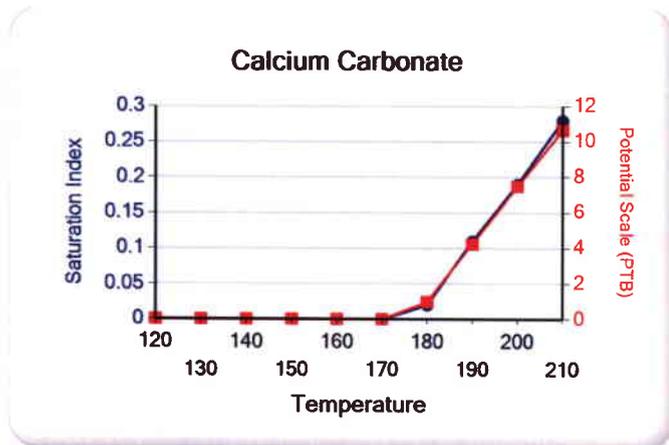
Temp (°F)	PSI	Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO <sub>4</sub> 2H <sub>2</sub> O		Celestite SrSO <sub>4</sub>		Halite NaCl		Zinc Sulfide		
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	
210.00	60.00	0.28	10.64	0.00	0.00	0.20	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.28	0.01
200.00	60.00	0.19	7.48	0.00	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.31	0.01
190.00	60.00	0.11	4.25	0.00	0.00	0.07	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.35	0.01
180.00	60.00	0.02	0.97	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.39	0.01
170.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.44	0.01
160.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.01
150.00	60.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.56	0.01
140.00	60.00	0.00	0.00	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.64	0.01
130.00	60.00	0.00	0.00	0.10	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.72	0.01
120.00	60.00	0.00	0.00	0.15	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.80	0.01

## Water Analysis Report

Temp (°F)	PSI	Hemihydrate CaSO <sub>4</sub> ·0.5H <sub>2</sub> O		Anhydrate CaSO <sub>4</sub>		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
210.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
190.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Iron Sulfide Zinc Sulfide

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



**Multi-Chem Analytical Laboratory**  
 1553 East Highway 40  
 Vernal, UT 84078

Units of Measurement: **Standard**

### Water Analysis Report

Production Company: **NEWFIELD PRODUCTION**  
 Well Name: **FEDERAL 8-8-9-16**  
 Sample Point: **Treater**  
 Sample Date: **3/18/2013**  
 Sample ID: **WA-237595**

Sales Rep: **Michael McBride**  
 Lab Tech: **Layne Wilkerson**

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

Sample Specifics		Analysis @ Properties in Sample Specifics			
		<i>Cations</i>	<i>mg/L</i>	<i>Anions</i>	<i>mg/L</i>
Test Date:	4/3/2013	Sodium (Na):	6904.36	Chloride (Cl):	10000.00
System Temperature 1 (°F):	120.00	Potassium (K):	28.20	Sulfate (SO <sub>4</sub> ):	48.00
System Pressure 1 (psig):	60.0000	Magnesium (Mg):	14.43	Bicarbonate (HCO <sub>3</sub> ):	1525.00
System Temperature 2 (°F):	210.00	Calcium (Ca):	111.75	Carbonate (CO <sub>3</sub> ):	
System Pressure 2 (psig):	60.0000	Strontium (Sr):	3.47	Acetic Acid (CH <sub>3</sub> COO)	
Calculated Density (g/ml):	1.010	Barium (Ba):	1.00	Propionic Acid (C <sub>2</sub> H <sub>5</sub> COO)	
pH:	8.50	Iron (Fe):	1.06	Butanoic Acid (C <sub>3</sub> H <sub>7</sub> COO)	
Calculated TDS (mg/L):	18671.97	Zinc (Zn):	2.21	Isobutyric Acid ((CH <sub>3</sub> ) <sub>2</sub> CHCOO)	
CO <sub>2</sub> in Gas (%):		Lead (Pb):	0.00	Fluoride (F):	
Dissolved CO <sub>2</sub> (mg/L):	40.00	Ammonia NH <sub>3</sub> :		Bromine (Br):	
H <sub>2</sub> S in Gas (%):		Manganese (Mn):	0.19	Silica (SiO <sub>2</sub> ):	34.30
H <sub>2</sub> S in Water (mg/L):	5.00				

**Notes:**  
**B=6.13 AI=1.7**

(PTB = Pounds per Thousand Barrels)

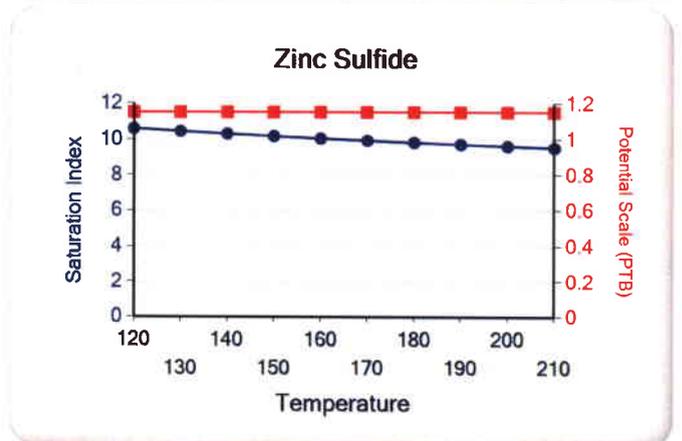
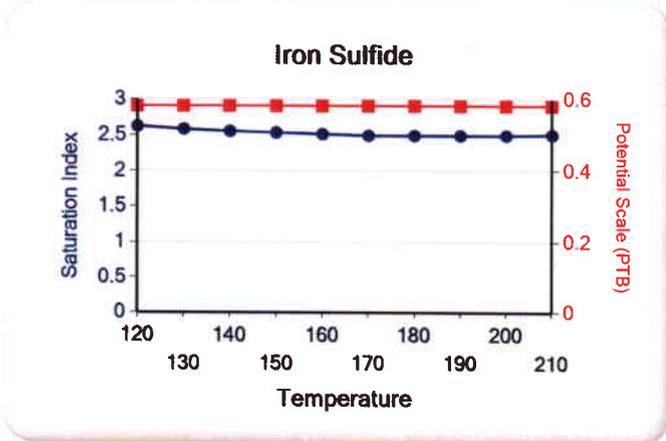
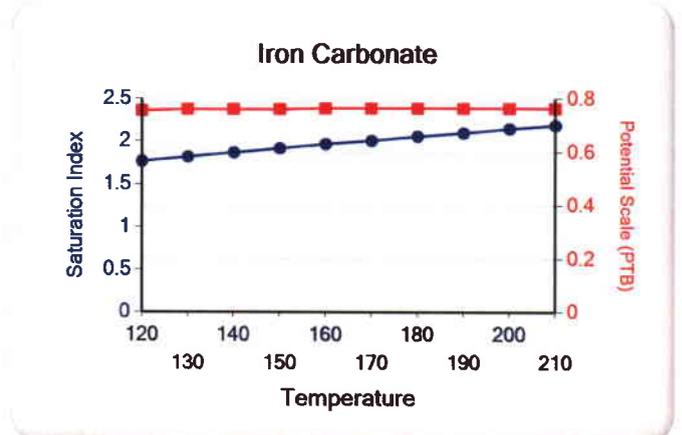
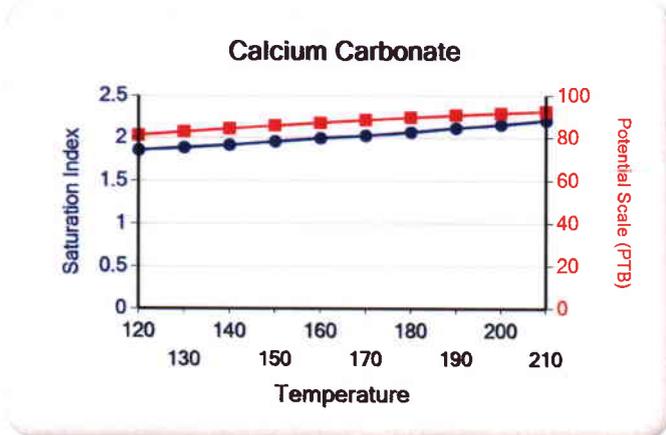
Temp (°F)	PSI	Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO <sub>4</sub> ·2H <sub>2</sub> O		Celestite SrSO <sub>4</sub>		Halite NaCl		Zinc Sulfide	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
210.00	60.00	2.21	92.53	0.00	0.00	2.51	0.58	2.19	0.76	0.00	0.00	0.00	0.00	0.00	0.00	9.55	1.15
200.00	60.00	2.16	91.64	0.00	0.00	2.50	0.58	2.15	0.76	0.00	0.00	0.00	0.00	0.00	0.00	9.64	1.15
190.00	60.00	2.12	90.65	0.00	0.00	2.50	0.58	2.10	0.76	0.00	0.00	0.00	0.00	0.00	0.00	9.74	1.15
180.00	60.00	2.07	89.55	0.00	0.00	2.50	0.58	2.06	0.76	0.00	0.00	0.00	0.00	0.00	0.00	9.84	1.15
170.00	60.00	2.03	88.36	0.00	0.00	2.50	0.58	2.01	0.76	0.00	0.00	0.00	0.00	0.00	0.00	9.95	1.15
160.00	60.00	2.00	87.08	0.00	0.00	2.52	0.58	1.97	0.76	0.00	0.00	0.00	0.00	0.00	0.00	10.06	1.15
150.00	60.00	1.96	85.73	0.00	0.00	2.54	0.58	1.92	0.76	0.00	0.00	0.00	0.00	0.00	0.00	10.19	1.15
140.00	60.00	1.92	84.31	0.00	0.00	2.56	0.58	1.87	0.76	0.00	0.00	0.00	0.00	0.00	0.00	10.32	1.15
130.00	60.00	1.89	82.85	0.00	0.00	2.59	0.58	1.82	0.76	0.00	0.00	0.00	0.00	0.00	0.00	10.46	1.15
120.00	60.00	1.86	81.37	0.00	0.00	2.63	0.58	1.77	0.76	0.00	0.00	0.00	0.00	0.00	0.00	10.61	1.15

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	2.50	1.48	0.00	0.00	6.78	27.61	4.17	20.83	9.92	0.82
200.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	2.43	1.48	0.00	0.00	6.40	27.16	3.96	20.55	9.67	0.82
190.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	2.35	1.48	0.00	0.00	6.02	26.57	3.74	20.18	9.41	0.82
180.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	2.27	1.48	0.00	0.00	5.63	25.84	3.51	19.72	9.15	0.82
170.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	2.19	1.48	0.00	0.00	5.23	24.93	3.29	19.14	8.89	0.82
160.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	2.09	1.47	0.00	0.00	4.83	23.87	3.07	18.46	8.63	0.82
150.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	1.47	0.00	0.00	4.43	22.63	2.84	17.67	8.37	0.82
140.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.89	1.47	0.00	0.00	4.03	21.24	2.62	16.77	8.11	0.82
130.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.78	1.46	0.00	0.00	3.62	19.72	2.39	15.79	7.86	0.82
120.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.67	1.45	0.00	0.00	3.21	18.06	2.17	14.72	7.61	0.82

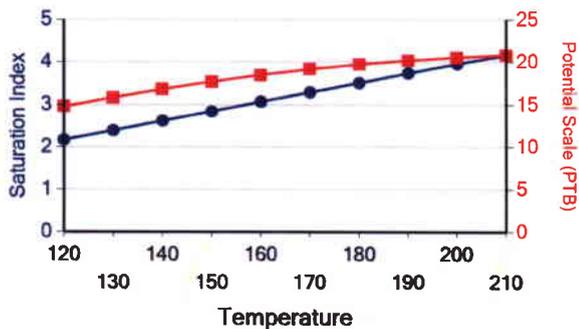
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Mg Silicate Ca Mg Silicate Fe Silicate

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

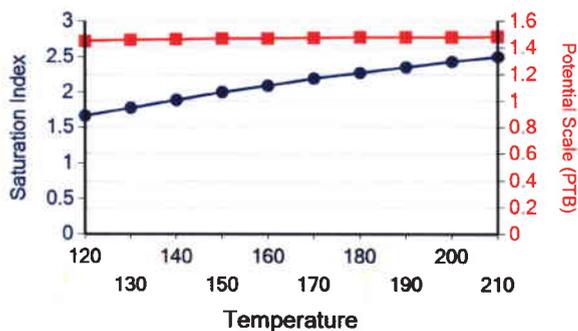


Water Analysis Report

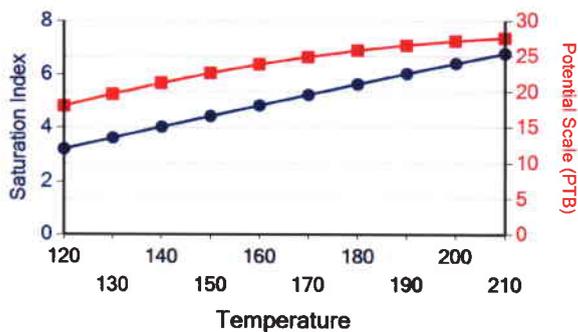
Ca Mg Silicate



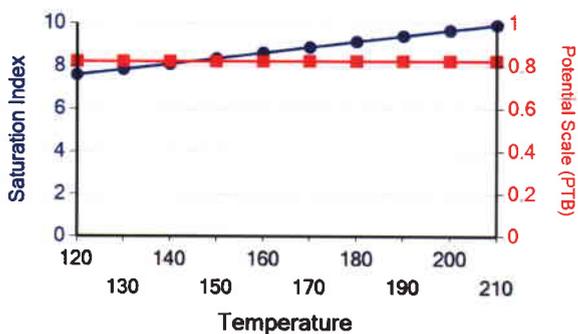
Zinc Carbonate



Mg Silicate



Fe Silicate



**Attachment "G"**

**Federal #8-8-9-16  
Proposed Maximum Injection Pressure**

Frac Interval (feet)		Avg. Depth (feet)	ISIP (psi)	Calculated Frac Gradient (psi/ft)	Pmax
Top	Bottom				
5718	5735	5727	2148	0.81	2111
5252	5267	5260	2166	0.85	2132
5060	5077	5069	2088	0.85	2055
4814	4877	4846	2055	0.86	2024
4328	4336	4332	1819	0.85	1791 ←
				<b>Minimum</b>	<u><u>1791</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.



1 of 10

DAILY COMPLETION REPORT

WELL NAME: Federal 8-8-9-16 Report Date: 18-Apr-07 Day: 1
Operation: Completion Rig: Rigless

WELL STATUS

Surf Csg: 8 5/8' @ 323' Prod Csg: 5 1/2" @ 6203' Csg PBTD: 6123' WL
Tbg: Size: Wt: Grd: Pkr/EOT @: BP/Sand PBTD:

PERFORATION RECORD

Table with 6 columns: Zone, Perfs, SPF/#shots, Zone CP1 sds, Perfs 5718-5735', SPF/#shots 4/68

CHRONOLOGICAL OPERATIONS

Date Work Performed: 17-Apr-07 SITP: SICP: 0

Install 5M frac head. NU 6" 5M Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 6123' & cement top @ 94' Perforate stage #1. CP1 sds @ 5718- 35' w/ 3 1/8" Slick guns (19 gram, .49" HE, 120 , 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 68 shots. 147 BWTR. SIFN.

FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 147 Starting oil rec to date:
Fluid lost/recovered today: 0 Oil lost/recovered today:
Ending fluid to be recovered: 147 Cum oil recovered:
IFL: FFL: FTP: Choke: Final Fluid Rate: Final oil cut:

STIMULATION DETAIL

COSTS

Base Fluid used: Job Type:
Company:
Procedure or Equipment detail:

- Weatherford BOP
NPC NU crew
NDSI trucking
Perforators LLC
Drilling cost
D&M hot oil
Location preparation
NPC wellhead
Benco - anchors
Admin. Overhead
NPC Supervisor

Max TP: Max Rate: Total fluid pmpd:
Avg TP: Avg Rate: Total Prop pmpd:
ISIP: 5 min: 10 min: 15 min:

Completion Supervisor: Orson Barney

DAILY COST: \$0
TOTAL WELL COST:

# NEWFIELD



# ATTACHMENT G-1

2 of 10

## DAILY COMPLETION REPORT

WELL NAME: Federal 8-8-9-16 Report Date: 24-Apr-07 Day: 2  
 Operation: Completion Rig: Rigless

### WELL STATUS

Surf Csg: 8 5/8' @ 323' Prod Csg: 5 1/2" @ 6203' Csg PBTD: 6123' WL  
 Tbg: Size: Wt: Grd: Pkr/EOT @: BP/Sand PBTD: 5375'

### PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
			CP1 sds	5718-5735'	4/68
A1 sds	5252-5267'	4/60			

### CHRONOLOGICAL OPERATIONS

Date Work Performed: 23-Apr-07 SITP: SICP: 0

RU BJ Services "Ram Head" frac flange. RU BJ & frac CP1 sds, stage #1 down casing w/ 80,674#'s of 20/40 sand in 619 bbls of Lightning 17 frac fluid. Open well w/ 0 psi on casing. Perfs broke down @ 3154 psi. Treated @ ave pressure of 2351 w/ ave rate of 24.8 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIF was 2148. 766 bbls EWTR. Leave pressure on well. RU Perforators LLC WLT, crane & lubricator. RIH w. Weatherford 5-1/2" composite (6K) flow through frac plug & 15' perf gun. Set plug @ 5375'. Perforate A1 sds @ 5252-67' w/ 3-1/8" Slick Guns (19 gram, .49"HE, 120 ) w/ 4 spf for total of 60 shots. SIFN.

### FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 147 Starting oil rec to date: \_\_\_\_\_  
 Fluid lost/recovered today: 619 Oil lost/recovered today: \_\_\_\_\_  
 Ending fluid to be recovered: 766 Cum oil recovered: \_\_\_\_\_  
 IFL: \_\_\_\_\_ FFL: \_\_\_\_\_ FTP: \_\_\_\_\_ Choke: \_\_\_\_\_ Final Fluid Rate: \_\_\_\_\_ Final oil cut: \_\_\_\_\_

### STIMULATION DETAIL

Base Fluid used: Lightning 17 Job Type: Sand frac  
 Company: BJ Services  
 Procedure or Equipment detail: CP1 sds down casing

### COSTS

Weatherford Services \_\_\_\_\_  
 C-D trkg frac water \_\_\_\_\_  
 NPC fuel gas \_\_\_\_\_  
 BJ Services CP1 sds \_\_\_\_\_  
 Perforators CP1 sds \_\_\_\_\_  
 NPC Supervisor \_\_\_\_\_

- 5964 gals of pad
- 4000 gals w/ 1-5 ppg of 20/40 sand
- 8000 gals w/ 5-8 ppg of 20/40 sand
- 2322 gals w/ 8 ppg of 20/40 sand
- 504 gals of 15% HCL acid
- Flush w/ 5208 gals of slick water

\*\*Flush called @ blender to include 2 bbls pump/line volume\*\*

Max TP: 3154 Max Rate: 24.9 Total fluid pmpd: 619 bbls  
 Avg TP: 2351 Avg Rate: 24.8 Total Prop pmpd: 80,674#'s  
 ISIP: 2148 5 min: \_\_\_\_\_ 10 min: \_\_\_\_\_ FG: .81

Completion Supervisor: Ron Shuck

DAILY COST: \_\_\_\_\_ \$0  
 TOTAL WELL COST: \_\_\_\_\_ \$0



**DAILY COMPLETION REPORT**

**WELL NAME:** Federal 8-8-9-16 **Report Date:** 25-Apr-07 **Day:** 3a  
**Operation:** Completion **Rig:** Rigless

**WELL STATUS**

**Surf Csg:** 8 5/8' @ 323' **Prod Csg:** 5 1/2" @ 6203' **Csg PBTD:** 6123' WL  
**Tbg:** **Size:** \_\_\_\_\_ **Wt:** \_\_\_\_\_ **Grd:** \_\_\_\_\_ **Pkr/EOT @:** \_\_\_\_\_ **BP/Sand PBTD:** 5375'

**PERFORATION RECORD**

<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>	<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>
			<u>CP1 sds</u>	<u>5718-5735'</u>	<u>4/68</u>
<u>A1 sds</u>	<u>5252-5267'</u>	<u>4/60</u>			

**CHRONOLOGICAL OPERATIONS**

**Date Work Performed:** 24-Apr-07 **SITP:** \_\_\_\_\_ **SICP:** 1040

Day3a.

RU BJ & frac A1 sds, stage #2 down casing w/ 80,738#'s of 20/40 sand in 608 bbls of Lightning 17 frac fluid. Oper well w/ 1040 psi on casing. Perfs broke down @ 3551 psi. Treated @ ave pressure of 1873 w/ ave rate of 23.9 bppr w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2166. 1374 bbls EWTR. Leave pressure on well. **See day3b.**

**FLUID RECOVERY (BBLs)**

**Starting fluid load to be recovered:** 766 **Starting oil rec to date:** \_\_\_\_\_  
**Fluid lost/recovered today:** 608 **Oil lost/recovered today:** \_\_\_\_\_  
**Ending fluid to be recovered:** 1374 **Cum oil recovered:** \_\_\_\_\_  
**IFL:** \_\_\_\_\_ **FFL:** \_\_\_\_\_ **FTP:** \_\_\_\_\_ **Choke:** \_\_\_\_\_ **Final Fluid Rate:** \_\_\_\_\_ **Final oil cut:** \_\_\_\_\_

**STIMULATION DETAIL**

**Base Fluid used:** Lightning 17 **Job Type:** Sand frac  
**Company:** BJ Services  
**Procedure or Equipment detail:** A1 sds down casing

**COSTS**

Weatherford Services  
C-D trkg frac water  
NPC fuel gas  
BJ Services A1 sds  
Perforators A1 sds  
NPC Supervisor

5964 gals of pad  
4000 gals w/ 1-5 ppg of 20/40 sand  
8000 gals w/ 5-8 ppg of 20/40 sand  
2280 gals w/ 8 ppg of 20/40 sand  
504 gals of 15% HCL acid  
Flush w/ 4788 gals of slick water

**\*\*Flush called @ blender to include 2 bbls pump/line volume\*\***

**Max TP:** 2177 **Max Rate:** 24.9 **Total fluid pmpd:** 608 bbls  
**Avg TP:** 1873 **Avg Rate:** 23.9 **Total Prop pmpd:** 80,738#'s  
**ISIP:** 2166 **5 min:** \_\_\_\_\_ **10 min:** \_\_\_\_\_ **FG:** .85

**Completion Supervisor:** Ron Shuck

**DAILY COST:** \_\_\_\_\_ **\$0**  
**TOTAL WELL COST:** \_\_\_\_\_ **\$0**

# NEWFIELD



# ATTACHMENT G-1

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## DAILY COMPLETION REPORT

**WELL NAME:** Federal 8-8-9-16      **Report Date:** 25-Apr-07      **Day:** 3b  
**Operation:** Completion      **Rig:** Rigless

### WELL STATUS

**Surf Csg:** 8 5/8' @ 323'      **Prod Csg:** 5 1/2" @ 6203'      **Csg PBTD:** 6123' WL  
**Tbg:**      **Size:** \_\_\_\_\_ **Wt:** \_\_\_\_\_      **Grd:** \_\_\_\_\_ **Pkr/EOT @:** \_\_\_\_\_      **BP/Sand PBTD:** 5180'  
**Plug** 5375'

### PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone CP1 sds	Perfs	SPF/#shots
				<u>5718-5735'</u>	<u>4/68</u>
<u>B1 sds</u>	<u>5060-5077'</u>	<u>4/68</u>			
<u>A1 sds</u>	<u>5252-5267'</u>	<u>4/60</u>			

### CHRONOLOGICAL OPERATIONS

**Date Work Performed:** 24-Apr-07      **SITP:** \_\_\_\_\_ **SICP:** 280

Day3b.

RU WLT. RIH w/ solid frac plug & 17' perf guns. Set plug @ 5180'. Perforate B1 sds @ 5060-77' w/ 4 spf for total of 68 shots. RU BJ & frac stage #3 w/ 75,928#s of 20/40 sand in 549 bbls of Lightning 17 frac fluid. Open well w/ 280 psi on casing. Perfs broke down @ 3340 psi. Treated @ ave pressure of 1782 w/ ave rate of 24.5 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2088. 1923 bbls EWTR. Leave pressure or well. **See day3c.**

### FLUID RECOVERY (BBLs)

**Starting fluid load to be recovered:** 1374      **Starting oil rec to date:** \_\_\_\_\_  
**Fluid lost/recovered today:** 549      **Oil lost/recovered today:** \_\_\_\_\_  
**Ending fluid to be recovered:** 1923      **Cum oil recovered:** \_\_\_\_\_  
**IFL:** \_\_\_\_\_ **FFL:** \_\_\_\_\_ **FTP:** \_\_\_\_\_ **Choke:** \_\_\_\_\_ **Final Fluid Rate:** \_\_\_\_\_ **Final oil cut:** \_\_\_\_\_

### STIMULATION DETAIL

**Base Fluid used:** Lightning 17      **Job Type:** Sand frac

**Company:** BJ Services

**Procedure or Equipment detail:** B1 sds down casing

- \_\_\_\_\_ 5796 gals of pad
- \_\_\_\_\_ 3944 gals w/ 1-5 ppg of 20/40 sand
- \_\_\_\_\_ 7872 gals w/ 5-8 ppg of 20/40 sand
- \_\_\_\_\_ 364 gals w/ 8 ppg of 20/40 sand
- \_\_\_\_\_ 504 gals of 15% HCL acid
- \_\_\_\_\_ Flush w/ 4578 gals of slick water

**\*\*Flush called @ blender to include 2 bbls pump/line volume\*\***

**Max TP:** 2093      **Max Rate:** 24.7      **Total fluid pmpd:** 549 bbls

**Avg TP:** 1782      **Avg Rate:** 24.5      **Total Prop pmpd:** 75,928

**ISIP:** 2088      **5 min:** \_\_\_\_\_      **10 min:** \_\_\_\_\_      **FG:** .85

**Completion Supervisor:** Ron Shuck

### COSTS

- \_\_\_\_\_ Weatherford Services
- \_\_\_\_\_ C-D trkg frac water
- \_\_\_\_\_ NPC fuel gas
- \_\_\_\_\_ BJ Services B1 sds
- \_\_\_\_\_ Perforators B1 sds

**DAILY COST:** \_\_\_\_\_ **\$0**

**TOTAL WELL COST:** \_\_\_\_\_ **\$0**



DAILY COMPLETION REPORT

WELL NAME: Federal 8-8-9-16 Report Date: 25-Apr-07 Day: 3c  
 Operation: Completion Rig: Rigless

WELL STATUS

Surf Csg: 8 5/8' @ 323' Prod Csg: 5 1/2" @ 6203' Csg PBTD: 6123' WL  
 Tbg: Size: \_\_\_\_\_ Wt: \_\_\_\_\_ Grd: \_\_\_\_\_ Pkr/EOT @: \_\_\_\_\_ BP/Sand PBTD: 4980'  
 Plug 5375' 5180'

PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone CP1 sds	Perfs 5718-5735'	SPF/#shots 4/68
D1 sds	4814-4825'	4/44			
D2 sds	4867-4877'	4/40			
B1 sds	5060-5077'	4/68			
A1 sds	5252-5267'	4/60			

CHRONOLOGICAL OPERATIONS

Date Work Performed: 24-Apr-07 SITP: \_\_\_\_\_ SICP: 240

Day3c.

RU WLT. RIH w/ solid frac plug & 10', 11' perf guns. Set plug @ 4980'. Perforate D2 sds @ 4867-77', D1 sd @ 4814-25' w/ 4 spf for total of 88 shots ( 2 runs due to miss fired gun). RU BJ & frac stage #4 w/ 151,956#'s of 20/40 sand in 1015 bbls of Lightning 17 frac fluid. Open well w/ 240 psi on casing. Perfs broke down @ 3249 psi. Treatac @ ave pressure of 1787 w/ ave rate of 25.1 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for nex stage. ISIP was 2055. 2938 bbls EWTR. Leave pressure on well. See day3d.

FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 1923 Starting oil rec to date: \_\_\_\_\_  
 Fluid lost/recovered today: 1015 Oil lost/recovered today: \_\_\_\_\_  
 Ending fluid to be recovered: 2938 Cum oil recovered: \_\_\_\_\_  
 IFL: \_\_\_\_\_ FFL: \_\_\_\_\_ FTP: \_\_\_\_\_ Choke: \_\_\_\_\_ Final Fluid Rate: \_\_\_\_\_ Final oil cut: \_\_\_\_\_

STIMULATION DETAIL

Base Fluid used: Lightning 17 Job Type: Sand frac  
 Company: BJ Services  
 Procedure or Equipment detail: D sds down casing

COSTS

Weatherford Services \_\_\_\_\_  
 C-D trkg frac water \_\_\_\_\_  
 NPC fuel gas \_\_\_\_\_  
 BJ Services D sds \_\_\_\_\_  
 Perforators D sds \_\_\_\_\_

11298 gals of pad  
 7375 gals w/ 1-5 ppg of 20/40 sand  
 787214750 gals w/ 5-8 ppg of 20/40 sand  
 4377 gals w/ 8 ppg of 20/40 sand  
 504 gals of 15% HCL acid  
 Flush w/ 4326 gals of slick water

\*\*Flush called @ blender to include 2 bbls pump/line volume\*\*

Max TP: 2055 Max Rate: 25.1 Total fluid pmpd: 1015 bbls  
 Avg TP: 1787 Avg Rate: 25.1 Total Prop pmpd: 151,956#'s  
 ISIP: 2055 5 min: \_\_\_\_\_ 10 min: \_\_\_\_\_ FG: .87

Completion Supervisor: Ron Shuck

DAILY COST: \_\_\_\_\_ \$0  
 TOTAL WELL COST: \_\_\_\_\_ \$0



DAILY COMPLETION REPORT

WELL NAME: Federal 8-8-9-16 Report Date: 25-Apr-07 Day: 3d  
Operation: Completion Rig: Rigless

WELL STATUS

Surf Csg: 8 5/8' @ 323' Prod Csg: 5 1/2" @ 6203' Csg PBTD: 6123' WL  
Tbg: Size: Wt: Grd: Pkr/EOT @: BP/Sand PBTD: 4440'  
Plug 5375' 5180' 4980'

PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
GB6 sds	4328-4336'	4/32	CP1 sds	5718-5735'	4/68
D1 sds	4814-4825'	4/44			
D2 sds	4867-4877'	4/40			
B1 sds	5060-5077'	4/68			
A1 sds	5252-5267'	4/60			

CHRONOLOGICAL OPERATIONS

Date Work Performed: 24-Apr-07 SITP: SICP: 1893

Day3d.

RU WLT. RIH w/ flow through frac plug & 8' perf gun. Set plug @ 4440'. Perforate GB6 sds @ 4328-36' w/ 4 spf for total of 32 shots. RU BJ & frac stage #5 w/ 40,746#'s of 20/40 sand in 378 bbls of Lightning 17 frac fluid. Open well w/ 1893 psi on casing. Perfs broke down @ 4150 psi. Treated @ ave pressure of 1820 w/ ave rate of 25.1 bpm w/ 8 ppc of sand. ISIP was 1819. 3316 bbls EWTR. RD BJ & WLT. Flow well back. Well flowed for 7 hours & died w/ 520 bbls rec'd. SIFN.

FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 3316 Starting oil rec to date:  
Fluid lost/recovered today: 520 Oil lost/recovered today:  
Ending fluid to be recovered: 2796 Cum oil recovered:  
IFL: FFL: FTP: Choke: Final Fluid Rate: Final oil cut:

STIMULATION DETAIL

Base Fluid used: Lightning 17 Job Type: Sand frac  
Company: BJ Services  
Procedure or Equipment detail: GB6 sds down casing

COSTS

Weatherford Services  
C-D trkg frac water  
NPC fuel gas  
BJ Services GB6 sds  
Perforators GB6 sds  
C-D trkg water transfer

3570 gals of pad  
2819 gals w/ 1-5 ppg of 20/40 sand  
51614750 gals w/ 5-8 ppg of 20/40 sand  
Flush w/ 4242 gals of slick water

Max TP: 2050 Max Rate: 25.1 Total fluid pmpd: 378 bbls  
Avg TP: 1820 Avg Rate: 25.1 Total Prop pmpd: 40,746#'s  
ISIP: 1819 5 min: 10 min: FG: .85  
Completion Supervisor: Ron Shuck

DAILY COST: \$0  
TOTAL WELL COST: \$0



DAILY COMPLETION REPORT

WELL NAME: Federal 8-8-9-16 Report Date: 27-Apr-07 Day: 4
Operation: Completion Rig: Western #3

WELL STATUS

Surf Csg: 8 5/8' @ 323' Prod Csg: 5 1/2" @ 6203' Csg PBDT: 6123' WL
Tbg: Size: 2 7/8" Wt: 6.5# Grd: J-55 Pkr/EOT @: 4418' BP/Sand PBDT: 4440'
Plug 5375' 5180' 4980'

PERFORATION RECORD

Table with 6 columns: Zone, Perfs, SPF/#shots, Zone, Perfs, SPF/#shots. Rows include GB6 sds, D1 sds, D2 sds, B1 sds, and A1 sds.

CHRONOLOGICAL OPERATIONS

Date Work Performed: 26-Apr-07 SITP: SICIP: 450

Bleed off well to pit. ND Cameron BOP & 5m frac head. NU 3m production head & Schafer BOP. RIH w/ 4 3/4' chomp bit, bit sub & 2 7/8" tbg. to 4418'. RU pump & lines. Circulate well clean. SWIFN.

FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 2796 Starting oil rec to date:
Fluid lost/recovered today: 20 Oil lost/recovered today:
Ending fluid to be recovered: 2776 Cum oil recovered:
IFL: FFL: FTP: Choke: Final Fluid Rate: Final oil cut:

COSTS

Table with 2 columns: Description of costs (e.g., Western #3, Weatherford BOP, B&L tbg.) and corresponding cost values.

Completion Supervisor: Don Dulen

DAILY COST: \$0
TOTAL WELL COST: \$0



8 of 10

DAILY COMPLETION REPORT

WELL NAME: Federal 8-8-9-16 Report Date: 30-Apr-07 Day: 5
Operation: Completion Rig: Western #3

WELL STATUS

Surf Csg: 8 5/8' @ 323' Prod Csg: 5 1/2" @ 6203' Csg PBDT: 6157'
Tbg: Size: 2 7/8" Wt: 6.5# Grd: J-55 Pkr/EOT @: 6100' BP/Sand PBDT: 6157'

PERFORATION RECORD

Table with 6 columns: Zone, Perfs, SPF/#shots, Zone, Perfs, SPF/#shots. Rows include GB6 sds, D1 sds, D2 sds, B1 sds, and A1 sds.

CHRONOLOGICAL OPERATIONS

Date Work Performed: 27-Apr-07 SITP: 100 SICP: 150

Bleed off well. Cont. RIH w/ tbg. Tag plug @ 4440' RU powerswivel & pump. DU CBP in 15 min. Cont. RIH w/ tbg Tag fill @ 4881'. C/O to CBP @ 4980' (99' of fill). DU CBP in 15 min. Cont. RIH w/ tbg. Tag fill @ 5087'. C/O to CBF @ 5180' (93' of fill). DU CBP in 20 min. Cont. RIH w/ tbg. Tag fill @ 5292'. C/O to CBP @ 5375' (83' of fill). Cont RIH w/ tbg. Tag fill @ 5995'. C/O to PBDT @ 6157' (162' of fill). Circulate well clean. Pull up to 6100'. RU swab SFL @ surface. Made 7 runs. Recovered 65 bbls water. No show of oil or gas. EFL @ 1000'. SWIFN.

FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 2776 Starting oil rec to date:
Fluid lost/recovered today: 75 Oil lost/recovered today:
Ending fluid to be recovered: 2851 Cum oil recovered:
IFL: FFL: FTP: Choke: Final Fluid Rate: Final oil cut:

COSTS

Table with 2 columns: Description (Western #3, Weatherford BOP, Nabors powerswivel, NPC Trucking) and Amount.

Completion Supervisor: Don Dulen

NPC Supervision
DAILY COST: \$0
TOTAL WELL COST: \$0



**DAILY COMPLETION REPORT**

**WELL NAME:** Federal 8-8-9-16 **Report Date:** 1-May-07 **Day:** 6  
**Operation:** Completion **Rig:** Western #3

**WELL STATUS**

**Surf Csg:** 8 5/8' @ 323' **Prod Csg:** 5 1/2" @ 6203' **Csg PBDT:** 6157'  
**Tbg:** **Size:** 2 7/8" **Wt:** 6.5# **Grd:** J-55 **Pkr/EOT @:** 5818' **BP/Sand PBDT:** 6157'

**PERFORATION RECORD**

<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>	<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>
<u>GB6 sds</u>	<u>4328-4336'</u>	<u>4/32</u>	<u>CP1 sds</u>	<u>5718-5735'</u>	<u>4/68</u>
<u>D1 sds</u>	<u>4814-4825'</u>	<u>4/44</u>			
<u>D2 sds</u>	<u>4867-4877'</u>	<u>4/40</u>			
<u>B1 sds</u>	<u>5060-5077'</u>	<u>4/68</u>			
<u>A1 sds</u>	<u>5252-5267'</u>	<u>4/60</u>			

**CHRONOLOGICAL OPERATIONS**

**Date Work Performed:** 30-Apr-07 **SITP:** 0 **SICP:** 200

Cont. swabbing. SFL @ 200'. Made 7 runs. Well started to flow. Recovered 75 bbls. Good show of gas. Ending oil cut @ approx 30%. RU pump to tbg. Pump 10 bbls water down tbg. RIH w/ tbg. Tag PBDT @ 6157' (no fill) Circulate well clean. POOH w/ tbg. LD BHA. RIH w/ 2 7/8" notched collar, 2 jts 2 7/8" tbg., PSN, 2 jts 2 7/8" tbg., 5 1/2" TAC & 182 jts 2 7/8" tbg. ND BOP. Set TAC @ 5684' w/ 16,000# tension. NU wellhead. Flush tbg. w/ 60 bbls water. X-over for rods. RIH w/ CDI 2 1/2" x 1 1/2" x 16' x 19' RHAC pump, 6- 1 1/2" weight bars, 10- 3/4" guided rods 114- 3/4" slick rods. SWIFN.

**FLUID RECOVERY (BBLs)**

**Starting fluid load to be recovered:** 2776 **Starting oil rec to date:** \_\_\_\_\_  
**Fluid lost/recovered today:** 75 **Oil lost/recovered today:** \_\_\_\_\_  
**Ending fluid to be recovered:** 2851 **Cum oil recovered:** \_\_\_\_\_  
**IFL:** \_\_\_\_\_ **FFL:** \_\_\_\_\_ **FTP:** \_\_\_\_\_ **Choke:** \_\_\_\_\_ **Final Fluid Rate:** \_\_\_\_\_ **Final oil cut:** \_\_\_\_\_

**TUBING DETAIL**

**ROD DETAIL**

**COSTS**

		<u>Western #3</u>
<u>KB 12.00'</u>		<u>Weatherford BOP</u>
<u>182 2 7/8 J-55 tbg (5672.32')</u>		<u>CDI rod pump</u>
<u>TA (2.80' @ 5684.32' KB)</u>		<u>CDI TAC</u>
<u>2 2 7/8 J-55 tbg (64.55')</u>		<u>CDI PSN</u>
<u>SN (1.10' @ 5751.67' KB)</u>		
<u>2 2 7/8 J-55 tbg (64.58')</u>		
<u>2 7/8 NC (.45')</u>		
<u>EOT 5817.80' W/ 12' KB</u>		
		<u>NPC Supervision</u>
		<b>DAILY COST:</b> _____ <b>\$0</b>
<b>Completion Supervisor:</b> <u>Don Dulen</u>		<b>TOTAL WELL COST:</b> _____ <b>\$0</b>



## ATTACHMENT H

### WORK PROCEDURE FOR PLUGGING AND ABANDONMENT

1. Set CIBP @ 4278'
2. Plug #1 Set 100' plug on top of CIBP using 12 sx Class "G" cement
3. Plug #2 188' balance plug using 23 sx Class "G" cement 50' above Trona-Bird's Nest extending 50' below base of Mahogany Oil Shale
4. Plug #3 120' balance plug using 14sx Class "G" cement 60' above Uinta/Green River and extending 60' below
5. Plug #4 Pump 54 sx Class "G" cement down 5 1/2" casing to 373'

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

## Federal 8-8-9-16

Spud Date: 1-25-07  
 Put on Production: 5-1-07  
 GL: 5862' KB: 5874'

Initial Production: BOPD,  
 MCFD, BWPD

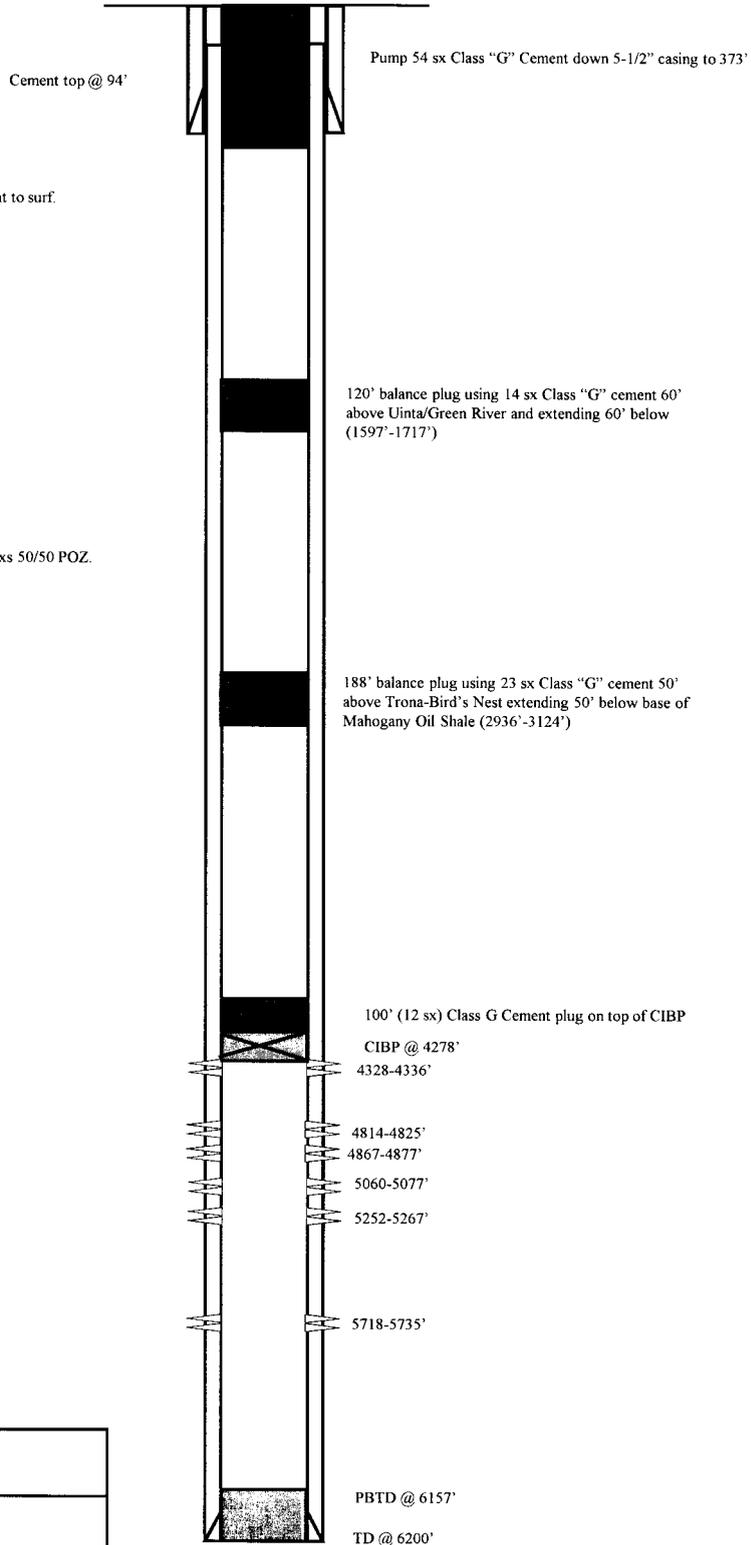
### Proposed P & A Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (311.37')  
 DEPTH LANDED: 323.22' 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: 144 jts. (6189.94')  
 DEPTH LANDED: 6203.19' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
 CEMENT TOP AT: 94'




<p><b>Federal 8-8-9-16</b>                  2102' FNL &amp; 536' FEL                  SE/NE Section 8-T9S-R16E                  Duchesne Co, Utah                  API # 43-013-33057; Lease # UTU-79833</p>

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-409

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 8, 9, 13, and 29, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Newfield Production Company, 1001 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:

Federal 8-8-9-16 well located in SE/4 NE/4, Section 8, Township 9 South, Range 16 East  
API 43-013-33057

Federal 6-9-9-16 well located in SE/4 NW/4, Section 9, Township 9 South, Range 16 East  
API 43-013-32957

Pan American #1FR-9-16 well located in NW/4 NW/4, Section 13, Township 9 South, Range 16 East  
API 43-013-10822

Federal 4-29-9-16 well located in NE/4 NW/4, Section 29, Township 9 South, Range 16 East  
API 43-013-33469

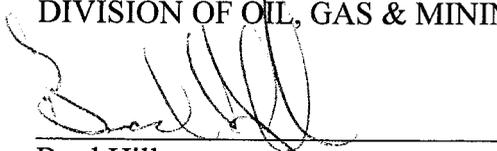
The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

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 14<sup>th</sup> day of May, 2013.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING



Brad Hill  
Permitting Manager

**Newfield Production Company**

**FEDERAL 8-8-9-16, FEDERAL 6-9-9-16,  
PAN AMERICAN #1FR-9-16, FEDERAL 4-29-9-16**

**Cause No. UIC-409**

Publication Notices were sent to the following:

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

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

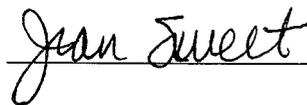
Uintah Basin Standard  
268 South 200 East  
Roosevelt, UT 84066  
via e-mail [ubs@ubstandard.com](mailto:ubs@ubstandard.com)

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

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

Newfield Production Company  
Rt 3 Box 3630  
Myton, UT 84052

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

  
\_\_\_\_\_



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

May 14, 2013

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

Uintah Basin Standard  
268 South 200 East  
Roosevelt, UT 84066

Subject: Notice of Agency Action – Newfield Production Company Cause No. UIC-409

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



---

**Re: Notice of Agency Action – Newfield Production Company Cause No. UIC-409**

---

**Cindy Kleinfelter** <classifieds@ubstandard.com>

Thu, May 16, 2013 at 2:15 PM

To: Jean Sweet <jsweet@utah.gov>

On 5/14/2013 1:49 PM, Jean Sweet wrote:

To whom it may concern:

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

Please send proof of publication and billing to:

Division of Oil, Gas and Mining

PO Box 145801

Salt Lake City, UT 84114-5801

Sincerely,

--

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

It will be published May 21, 2013.

Thanks

Cindy



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

May 13, 2013

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

Salt Lake Tribune  
P. O. Box 45838  
Salt Lake City, UT 84145

Subject: Notice of Agency Action – Newfield Production Company Cause No. UIC-409

To whom it may concern:

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

Please send proof of publication and billing for **account #9001402352** to:

Division of Oil, Gas and Mining  
PO Box 145801  
Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet  
Executive Secretary

Enclosure

5/16/13

State of Utah Mail - Proof for Notice



State of Utah - Office of the Attorney General

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## Proof for Notice

1/20/2013

---

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

Wed, May 15, 2013 at 12:35 PM

AD# 879997  
Run SL Trib & Des News 5/17  
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Thank You

-----

 **OrderConf.pdf**  
122K

### Order Confirmation for Ad #0000879997-01

<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

**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-409

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 8, 9, 13, and 29, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

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- Greater Monument Butte Unit:  
Federal 8-8-9-16 well located in SE/4 NE/4, Section 8, Township 9 South, Range 16 East  
API 43-013-33057
- Federal 6-9-9-16 well located in SE/4 NW/4, Section 9, Township 9 South, Range 16 East  
API 43-013-32957
- Par American #1FR-9-16 well located in NW/4 NW/4, Section 13, Township 9 South, Range 16 East  
API 43-013-10822
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API 43-013-33469

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 intervenors should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 14th day of May, 2013.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING  
/s/  
Brad Hill  
Permitting Manager  
879997

UPAXLP

<b>Total Amount</b>	<b>\$220.04</b>			
<b>Payment Amt</b>	<b>\$0.00</b>			
<b>Amount Due</b>	<b>\$220.04</b>	<b>Tear Sheets</b>	<b>Proofs</b>	<b>Affidavits</b>
		0	0	1
<b>Payment Method</b>		<b>PO Number</b>	Cause No UIC-409	
<b>Confirmation Notes:</b>				
<b>Text:</b>	Jean			

<b>Ad Type</b>	<b>Ad Size</b>	<b>Color</b>
Legal Liner	2.0 X 64 Li	<NONE>

<b>Product</b>	<b>Placement</b>	<b>Position</b>
Salt Lake Tribune::	Legal Liner Notice - 0998	Public Meeting/Hear-ing Notices
<b>Scheduled Date(s):</b>	5/17/2013	
<b>Product</b>	<b>Placement</b>	<b>Position</b>
Deseret News::	Legal Liner Notice - 0998	Public Meeting/Hear-ing Notices
<b>Scheduled Date(s):</b>	5/17/2013	
<b>Product</b>	<b>Placement</b>	<b>Position</b>
sltrib.com::	Legal Liner Notice - 0998	Public Meeting/Hear-ing Notices
<b>Scheduled Date(s):</b>	5/17/2013	
<b>Product</b>	<b>Placement</b>	<b>Position</b>
utahlegals.com::	utahlegals.com	utahlegals.com
<b>Scheduled Date(s):</b>	5/17/2013	

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**

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CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	DATE
DIV OF OIL-GAS & MINING,  1594 W NORTH TEMP #1210 P.O. BOX 145801 SALT LAKE CITY, UT 84114	9001402352	5/17/2013

<b>ACCOUNT NAME</b>	
DIV OF OIL-GAS & MINING,	
<b>TELEPHONE</b>	<b>ADORDER# / INVOICE NUMBER</b>
8015385340	0000879997 /
<b>SCHEDULE</b>	
Start 05/17/2013	End 05/17/2013
<b>CUST. REF. NO.</b>	
Cause No UIC-409	
<b>CAPTION</b>	
BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES	
<b>SIZE</b>	
64 Lines	2.00 COLUMN
<b>TIMES</b>	<b>RATE</b>
4	
<b>MISC. CHARGES</b>	<b>AD CHARGES</b>
<b>TOTAL COST</b>	
220.04	

**BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH NOTICE OF AGENCY ACTION CAUSE NO. UIC-409**

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 8, 9, 13, and 29, 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 17th Street, Suite 2000, Denver, Colorado 80202, telephone 303-893-0102, for administrative approval of the following wells located in Duchesne County, Utah, for conversion to Class II injection wells:

- Greater Monument Butte Unit: Federal 8-8-9-16 well located in SE/4 NE/4, Section 8, Township 9 South, Range 16 East API 43-013-33057
- Federal 6-9-9-16 well located in SE/4 NW/4, Section 9, Township 9 South, Range 16 East API 43-013-32957
- Pan American #1FR-9-16 well located in NW/4 NW/4, Section 13, Township 9 South, Range 16 East API 43-013-10822
- Federal 4-29-9-16 well located in NE/4 NW/4, Section 29, Township 9 South, Range 16 East API 43-013-33469

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 14th day of May, 2013.  
STATE OF UTAH  
DIVISION OF OIL, GAS & MINING  
/s/  
Brad Hill  
Permitting Manager  
879997

AFFIDAVIT OF PUBLICATION

UPAXLP

AS NEWSPAPER AGENCY COMPANY, LLC dba MEDIAONE OF UTAH LEGAL BOOKER, I CERTIFY THAT THE ATTACHED ADVERTISEMENT OF **BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH NOTICE OF AGENCY ACTION CAUSE NO. UIC-409 IN THE MATTER OF THE APPLICA** FOR **DIV OF OIL-GAS & MINING**, WAS PUBLISHED BY THE NEWSPAPER AGENCY COMPANY, LLC dba MEDIAONE OF UTAH, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET NEWS, DAILY NEWSPAPERS PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN UTAH, AND PUBLISHED IN SALT LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH. NOTICE IS ALSO POSTED ON UTAHLEGALS.COM ON THE SAME DAY AS THE FIRST NEWSPAPER PUBLICATION DATE AND REMAINS ON UTAHLEGALS.COM INDEFINITELY.

Start 05/17/2013

End 05/17/2013

PUBLISHED ON

SIGNATURE

*[Handwritten Signature]*

5/17/2013

VIRGINIA CRAIG  
Notary Public State of Utah  
Commission # 581469  
My Commission Expires  
January 12, 2014

*[Handwritten Signature: Virginia Craig]*

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

# AFFIDAVIT OF PUBLICATION

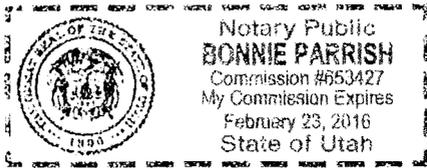
County of Duchesne,  
STATE OF UTAH

I, Kevin Ashby on oath, say that I am the PUBLISHER of the Uintah Basin Standard, a weekly newspaper of general circulation, published at Roosevelt, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue such newspaper for 1 consecutive issues, and that the first publication was on the 21 day of May, 2013, and that the last publication of such notice was in the issue of such newspaper dated the 21 day of May, 2013, and that said notice was published on Utahlegals.com on the same day as the first newspaper publication and the notice remained on Utahlegals.com until the end of the scheduled run.

Kevin Ashby  
\_\_\_\_\_  
Publisher

Subscribed and sworn to before me on this  
22 day of May, 2013

by Kevin Ashby.  
Bonnie Parrish  
\_\_\_\_\_  
Notary Public



## NOTICE OF AGENCY ACTION CAUSE NO. UIC-409

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

IN THE MATTER OF THE APPLICATION OF NEW-FIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 8, 9, 13, and 29, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an in-

formal adjudicative proceeding to consider the application of New-field Production Company, 1001 17th Street, Suite 2000, Denver, Colorado 80202, telephone 303-893-0102, for administrative approval of the following wells located in Duchesne County, Utah, for conversion to Class II injection wells:

Greater Monument Butte Unit:  
Federal 8-8-9-16 well located in SE/4 NE/4, Section 8, Township 9 South, Range 16 East

API 43-013-33057  
Federal 6-9-9-16 well located in SE/4 NW/4, Section 9, Township 9 South, Range 16 East

API 43-013-32957  
Pan American #1FR-9-16 well located in NW/4 NW/4, Section 13, Township 9 South, Range 16 East

API 43-013-10822  
Federal 4-29-9-16 well located in NE/4 NW/4, Section 29, Township 9 South, Range 16 East

API 43-013-33469  
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

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

**Applicant:** Newfield Production Company      **Well:** Federal 8-8-9-16

**Location:** 8/9S/16E      **API:** 43-013-33057

**Ownership Issues:** The proposed well is located on BLM land. The well is located in the Greater Monument Butte Unit. Lands in the one-half mile radius of the well are administered by the BLM. The Federal Government is the mineral owner within the area of review (AOR). Newfield and other various individuals hold the leases in the unit. Newfield has provided a list of all surface, mineral and lease holders in the half-mile radius. Newfield is the operator of the Greater Monument Butte Unit. Newfield has submitted an affidavit stating that all owners and interest owners have been notified of their intent.

**Well Integrity:** The proposed well has surface casing set at 323 feet and has a cement top at the surface. A 5½ inch production casing is set at 6,203 feet. The cement bond log is somewhat problematic but appears to demonstrate adequate bond in this well up to about 3,236 feet. A 2 7/8 inch tubing with a packer is proposed to be set at 4,278 feet. Higher perforations may be opened at a later date. A mechanical integrity test will be run on the well prior to injection. Based on surface locations, there are 7 producing wells, 7 injection wells, and 1 shut-in well in the AOR. In addition, there is 1 horizontally drilled producing well with a surface location outside the AOR and a bottom hole location inside the AOR. There is 1 currently drilling directional well with a surface location inside the AOR and a bottom hole location outside the AOR. Finally, there are 2 approved surface locations outside the AOR, from which directional wells will be drilled, one to a bottom hole inside the AOR and the other with a path intersecting the edge of the AOR. All of the existing wells have evidence of adequate casing and cement for the proposed injection interval.

**Ground Water Protection:** As interpreted from the Utah Geological Survey's DOE Project-Uinta Basin Water Draft Map (Paul B. Anderson, December 2, 2011), the base of moderately saline water (3000-10,000 mg/l TDS) is at a depth of approximately 2000 feet. Injection shall be limited to the interval between 4,104 feet and 6,157 feet in the Green River Formation. Information submitted by Newfield indicates that the fracture gradient for the 8-8-9-16 well is 0.85 psi/ft., which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 1,719 psig. The requested maximum pressure is 1,719 psig. The anticipated average injection pressure is 1100 psig. Injection at this pressure should not initiate any new fractures or propagate existing fractures in the adjacent confining intervals. Any ground water present should be adequately protected.

**Federal 8-8-9-16**

**page 2**

**Oil/Gas& Other Mineral Resources Protection:** The Board of Oil, Gas & Mining approved the Greater Monument Butte Unit on December 1, 2009. Correlative rights issues were addressed at this time. Previous reviews in this area indicate that other mineral resources in the area have been protected or are not at issue.

**Bonding:** Bonded with the BLM

**Actions Taken and Further Approvals Needed:** A notice of agency action has been sent to the Salt Lake Tribune and the Uinta Basin Standard. A casing/tubing pressure test will be required prior to injection. It is recommended that approval of this application be granted.

Note: Applicable technical publications concerning water resources in the general vicinity of this project have been reviewed and taken into consideration during the permit review process.

Reviewer(s): Mark Reinbold

Date: 6/6/2013



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

June 11, 2013

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

Subject: Greater Monument Butte Unit Well: Federal 8-8-9-16, Section 8, Township 9 South, Range 16 East, SLBM, Duchesne County, Utah, API Well # 43-013-33057

Gentlemen:

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

1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.
2. Conformance with all conditions and requirements of the complete application submitted by Newfield Production Company.
3. A casing/tubing pressure test shall be conducted prior to commencing injection.
4. Pressure shall be monitored between the surface casing and the production casing on a regular basis. Any pressure changes observed shall be reported to the Division immediately.
5. The top of the injection interval shall be limited to a depth no higher than 4,104 feet in the Federal 8-8-9-16 well.

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

Sincerely,

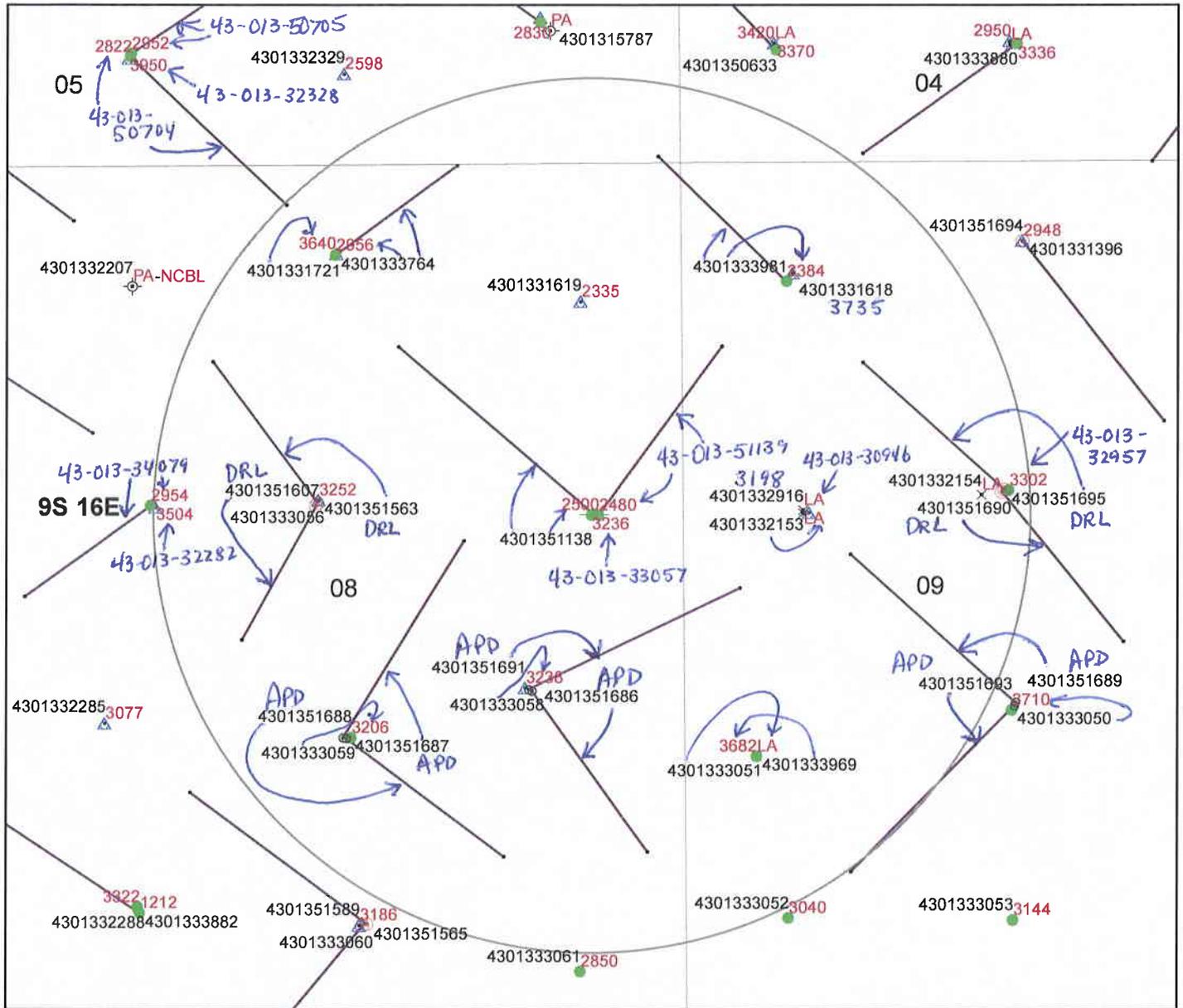
(for) John Rogers  
Associate Director

JR/MLR/js

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

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





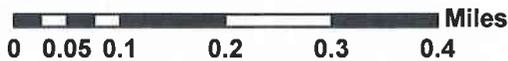
**Legend**

**Oil & Gas Well Type**

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

- 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

**Cement Bond Tops  
Federal 8-8-9-16  
API #43-013-33057  
UIC-409.1**



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9  5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-79833
<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.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: FEDERAL 8-8-9-16	
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY	9. API NUMBER: 43013330570000	
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052	PHONE NUMBER: 435 646-4825 Ext	9. FIELD and POOL or WILDCAT: MONUMENT BUTTE
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2102 FNL 0536 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 08 Township: 09.0S Range: 16.0E Meridian: S	COUNTY: DUCHESNE  STATE: UTAH	

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 9/26/2013	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input checked="" type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input checked="" type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input 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 subject well has been converted from a producing oil well to an injection well on 09/24/2013. On 09/25/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 09/26/2013 the casing was pressured up to 1375 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 300 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:** October 24, 2013

**By:**

NAME (PLEASE PRINT) Lucy Chavez-Naupoto	PHONE NUMBER 435 646-4874	TITLE Water Services Technician
SIGNATURE N/A	DATE 10/7/2013	

# Casing or Annulus Pressure Test

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

Witness: \_\_\_\_\_ Date 9/24/13 Time 9:00  am  pm

Test Conducted by: Riley Berg

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

Well: Federal 8-8-9-16 Field: Monument B-H  
Well Location: Federal 8-8-9-16 API No: 4301333057

<u>Time</u>	<u>Casing Pressure</u>	
0 min	<u>1375</u>	psig
5	<u>1375</u>	psig
10	<u>1375</u>	psig
15	<u>1375</u>	psig
20	<u>1375</u>	psig
25	<u>1375</u>	psig
30 min	<u>1375</u>	psig
35	_____	psig
40	_____	psig
45	_____	psig
50	_____	psig
55	_____	psig
60 min	_____	psig

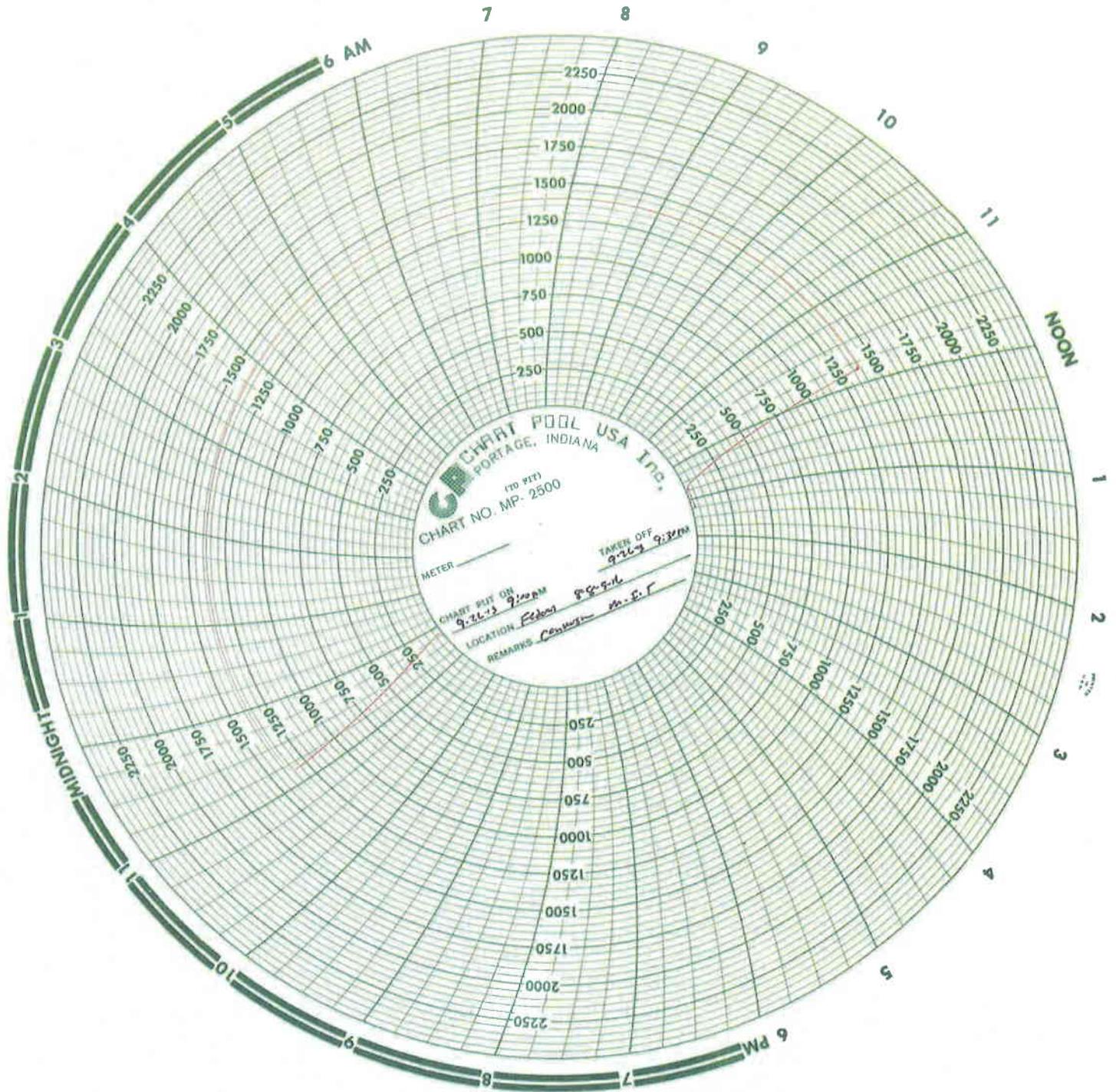
Tubing pressure: 300 psig

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

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

Signature of Person Conducting Test: Riley Berg

Sundry Number: 43428 API Well Number: 43013330570000



## Daily Activity Report

Format For Sundry  
**FEDERAL 8-8-9-16**  
**7/1/2013 To 11/30/2013**

**9/23/2013 Day: 1**

**Conversion**

Wild Cat #2 on 9/23/2013 - UNSEATED PUMP FLUSHED TBG W/ 40 BBLS @250DEG LD RODS OUT OF HOLE SIWFN - 5:30AM TO 7:00AM CREW TRAVEL 7:00AM TO 7:15AM JSA SAFETY MEETING 7:15AM TO 10:00AM TIH 1-MOUSE TRAP ROD FISHING TOOL, 211 RODS FLUSHED CSG W/ 60 BBLS @250DEG 10:00AM TO 12:00PM WORKED FISHING TOOL TO GRAB ONTO FISH FISHED SUCCESFULLY 12:00PM TO 4:00PM UNSEATED PUMP FLUSHED TBG W/ 40 BBLS @250DEG LD RODS OUT OF HOLE SIWFN 4:00PM TO 5:30PM CREW TRAVEL - 5:30AM TO 7:00AM CREW TRAVEL 7:00AM TO 7:15AM JSA SAFETY MEETING 7:15AM TO 10:00AM TIH 1-MOUSE TRAP ROD FISHING TOOL, 211 RODS FLUSHED CSG W/ 60 BBLS @250DEG 10:00AM TO 12:00PM WORKED FISHING TOOL TO GRAB ONTO FISH FISHED SUCCESFULLY 12:00PM TO 4:00PM UNSEATED PUMP FLUSHED TBG W/ 40 BBLS @250DEG LD RODS OUT OF HOLE SIWFN 4:00PM TO 5:30PM CREW TRAVEL **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$16,950

**9/24/2013 Day: 2**

**Conversion**

Wild Cat #2 on 9/24/2013 - PT TBG TO 3K PSI HELD 100% FOR 30 MIN GOOD TEST 6:00PM TO 8:00PM RIH W/ SANDLINE TO RETRIEVE STANDING VALVE, PARTED SANDLINE POOH W/ STANDING VALVE - 5:30AM TO 7:00AM CREW TRAVEL 7:00AM TO 7:15AM JSA SAFETY MEETING 7:15AM TO 12:00AM TOOH BREAKING AND RE-DOPING EVERY CONNECTION 136 JTS 12:00PM TO 1:30PM LD 50 JTS, 1-TAC, 1-SN, NC 1:30PM TO 4:00PM TIH PKR INJECTION ASSEMBLY 136 JTS TBG 4:00PM TO 6:00PM PT TBG TO 3K PSI HELD 100% FOR 30 MIN GOOD TEST 6:00PM TO 8:00PM RIH W/ SANDLINE TO RETRIEVE STANDING VALVE, PARTED SANDLINE POOH W/ STANDING VALVE 8:00PM TO 9:30PM CREW TRAVEL - 5:30AM TO 7:00AM CREW TRAVEL 7:00AM TO 7:15AM JSA SAFETY MEETING 7:15AM TO 12:00AM TOOH BREAKING AND RE-DOPING EVERY CONNECTION 136 JTS 12:00PM TO 1:30PM LD 50 JTS, 1-TAC, 1-SN, NC 1:30PM TO 4:00PM TIH PKR INJECTION ASSEMBLY 136 JTS TBG 4:00PM TO 6:00PM PT TBG TO 3K PSI HELD 100% FOR 30 MIN GOOD TEST 6:00PM TO 8:00PM RIH W/ SANDLINE TO RETRIEVE STANDING VALVE, PARTED SANDLINE POOH W/ STANDING VALVE 8:00PM TO 9:30PM CREW TRAVEL **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$25,516

**9/25/2013 Day: 3**

**Conversion**

Wild Cat #2 on 9/25/2013 - TOOH 80 JTS FOUND CRIMPED JT LD PICKED UP NEW JT TBG TOOH 55 JTS RETRIEVED STANDING VAVLE AND SANDLINE TOOLS - 5:30AM TO 7:00AM CREW TRAVEL 7:00AM TO 7:15AM JSA SAFETY MEETING 7:15AM TO 8:00AM REPAIRED SANDLINE 8:00AM TO 12:00PM TOOH 80 JTS FOUND CRIMPED JT LD PICKED UP NEW JT TBG TOOH 55 JTS RETRIEVED STANDING VAVLE AND SANDLINE TOOLS 12:00PM TO 3:00PM TIH 135 JTS TBG PUMPED 3:00PM TO 5:00PM PUMPED 10 BBLS DROPPED SV CHASED W/ 25 BBLS PT TBG TO 3K PSI HELD 100% FOR 30 MIN GOOD TEST RIH W/ SL RETRIEVED SV 5:00PM TO 6:00PM RU RIG FLOOR ND BOPS NU INJECTION WELL HEAD CIRCULATED 50 BBLS OF PKR FLUID 6:00PM TO 7:00PM SET PKR PT CSG TO 1400 PSI HELD 100% FOR 30 MIN GOOD TEST 7:00PM TO 8:30PM RD RIG MOSL PRE-INSPECTED RIG FOR ROADING 8:30PM TO 10:00PM CREW TRAVEL - 5:30AM TO 7:00AM CREW TRAVEL 7:00AM TO 7:15AM

JSA SAFETY MEETING 7:15AM TO 8:00AM REPAIRED SANDLINE 8:00AM TO 12:00PM TOOH  
80 JTS FOUND CRIMPED JT LD PICKED UP NEW JT TBG TOOH 55 JTS RETRIEVED STANDING  
VAVLE AND SANDLINE TOOLS 12:00PM TO 3:00PM TIH 135 JTS TBG PUMPED 3:00PM TO  
5:00PM PUMPED 10 BBLS DROPPED SV CHASED W/ 25 BBLS PT TBG TO 3K PSI HELD 100%  
FOR 30 MIN GOOD TEST RIH W/ SL RETRIEVED SV 5:00PM TO 6:00PM RU RIG FLOOR ND  
BOPS NU INJECTION WELL HEAD CIRCULATED 50 BBLS OF PKR FLUID 6:00PM TO 7:00PM  
SET PKR PT CSG TO 1400 PSI HELD 100% FOR 30 MIN GOOD TEST 7:00PM TO 8:30PM RD  
RIG MOSL PRE-INSPECTED RIG FOR ROADING 8:30PM TO 10:00PM CREW TRAVEL

**Daily Cost:** \$0

**Cumulative Cost:** \$34,139

**10/2/2013 Day: 4**

**Conversion**

Rigless on 10/2/2013 - Conduct initial MIT - On 09/25/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 09/26/2013 the casing was pressured up to 1375 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 300 psig during the test. There was not a State representative available to witness the test. - On 09/25/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 09/26/2013 the casing was pressured up to 1375 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 300 psig during the test. There was not a State representative available to witness the test. **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$59,851

**Pertinent Files: Go to File List**

Spud Date: 1-25-07  
 Put on Production: 5-1-07  
 GL: 5862' KB: 5874'

# Federal 8-8-9-16

## Injection Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (311 37')  
 DEPTH LANDED: 323 22' 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: 144 jts. (6189 94')  
 DEPTH LANDED: 6203 19' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ  
 CEMENT TOP AT: 94'

### TUBING

SIZE/GRADE/WT : 2-7/8" / J-55 / 6.5#  
 NO OF JOINTS: 136 jts (4243')  
 SEATING NIPPLE: 2-7/8" (1 10")  
 SN LANDED AT: 4253' KB  
 ON/OFF TOOL AT 4254 1'  
 ARROW #1 PACKER CE AT: 4259 3'  
 XO 2-3/8 x 2-7/8 J-55 AT: 4262 9'  
 TBG PUP 2-3/8 J-55 AT: 4263 4'  
 X/N NIPPLE AT: 4267 5'  
 TOTAL STRING LENGTH: EOT @ 4269 34'

### FRAC JOB

04-23-07 5718-5735' **Frac CP1 sands as follows:**  
 80674# 20/40 sand in 619 bbls Lightning 17  
 frac fluid Treated @ avg press of 2351 psi  
 w/avg rate of 24.8 BPM ISIP 2148 psi Calc  
 flush: 5716 gal Actual flush: 5208 gal

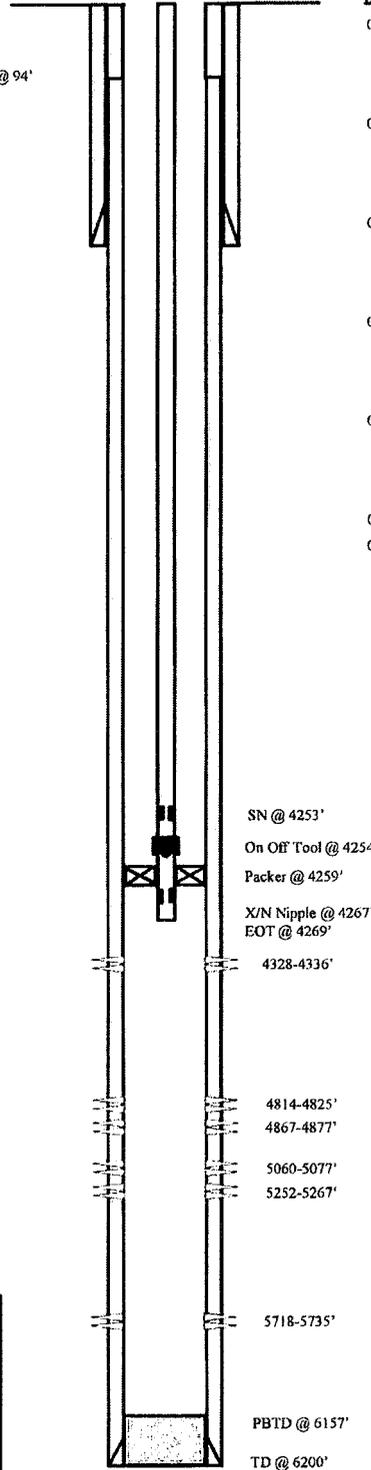
04-24-07 5252-5267' **Frac A1 sands as follows:**  
 80738# 20/40 sand in 608 bbls Lightning 17  
 frac fluid Treated @ avg press of 1873 psi  
 w/avg rate of 23.9 BPM ISIP 2166 psi Calc  
 flush: 5250 gal Actual flush: 4788 gal

04-24-07 5060-5077' **Frac B1 sands as follows:**  
 75928# 20/40 sand in 549 bbls Lightning 17  
 frac fluid Treated @ avg press of 1782 psi  
 w/avg rate of 24.5 BPM ISIP 2088 psi Calc  
 flush: 5058 gal Actual flush: 4578 gal

04-24-07 4814-4877' **Frac D2, & D1 sands as follows:**  
 151956# 20/40 sand in 1015 bbls Lightning  
 17 frac fluid Treated @ avg press of 1787 w/  
 avg rate of 25.1 BPM ISIP 2055 psi Calc  
 flush: 4812 gal Actual flush: 4326 gal

04-24-07 4328-4336' **Frac GB6 sands as follows:**  
 40746# 20/40 sand in 378 bbls Lightning 17  
 frac fluid Treated @ avg press of 1820 w/  
 avg rate of 25.1 BPM ISIP 1819 psi Calc  
 flush: 4326 gal Actual flush: 4242 gal

09/24/13 **Convert to Injection Well**  
 09/26/13 **Conversion MIT Finalized -update tbg detail**



### PERFORATION RECORD

Date	Interval	Count	Type	Holes
04-17-07	5718-5735'	4	JSPF	68 holes
04-23-07	5252-5267'	4	JSPF	60 holes
04-24-07	5060-5077'	4	JSPF	68 holes
04-24-07	4867-4877'	4	JSPF	40 holes
04-24-07	4814-4825'	4	JSPF	44 holes
04-24-07	4328-4336'	4	JSPF	32 holes

**NEWFIELD**

**Federal 8-8-9-16**  
 2102' FNL. & 536' FEL.  
 SE/NE Section 8-T9S-R16E  
 Duchesne Co, Utah  
 API # 43-013-33057; Lease # UTU-79833



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-409

**Operator:** Newfield Production Company  
**Well:** Federal 8-8-9-16  
**Location:** Section 8, Township 9 South, Range 16 East  
**County:** Duchesne  
**API No.:** 43-013-33057  
**Well Type:** Enhanced Recovery (waterflood)

### Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on June 11, 2013.
2. Maximum Allowable Injection Pressure: 1,719 psig
3. Maximum Allowable Injection Rate: (restricted by pressure limitation)
4. Injection Interval: Green River Formation (4,104' – 6,157')
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.

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Approved by: Clayton A. Desrosiers  
for John Rogers  
Associate Director

11/4/13  
Date

JR/MLR/js

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

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<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9  5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-79833
<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.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)
1. TYPE OF WELL Water Injection Well	8. WELL NAME and NUMBER: FEDERAL 8-8-9-16
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY	9. API NUMBER: 43013330570000
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052	PHONE NUMBER: 435 646-4825 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2102 FNL 0536 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 08 Township: 09.0S Range: 16.0E Meridian: S	9. FIELD and POOL or WILDCAT: MONUMENT BUTTE  COUNTY: DUCHESNE  STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/5/2013  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input checked="" type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input checked="" type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input style="width: 100px;" type="text"/>

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 9:15 AM on 11/05/2013.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 November 06, 2013

NAME (PLEASE PRINT) Lucy Chavez-Naupoto	PHONE NUMBER 435 646-4874	TITLE Water Services Technician
SIGNATURE N/A		DATE 11/5/2013