

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-64379

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 16-8-9-16

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

9. API Well No.  
43-013-33061

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

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

10. Field and Pool, or Exploratory  
Monument Butte

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*  
At surface SE/SE 418' FSL 629' FEL 573763X 40.039270  
At proposed prod. zone 4432266Y -110.135334

11. Sec., T., R. M., or Blk. and Survey or Area  
SE/SE Sec. 8, T9S R16E

14. Distance in miles and direction from nearest town or post office\*  
Approximatley 15.6 miles southwest of Myton, Utah

12. County or Parish  
Duchesne

13. State  
UT

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 1949' f/lease, NA' f/unit

16. No. of Acres in lease  
1626.36

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. 1608'

19. Proposed Depth  
6135'

20. BLM/BLA Bond No. on file  
UTB000192

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
5864' 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*  
Title  
Regulatory Specialist

Name (Printed/Typed)  
Mandie Crozier

Date  
2/10/06

Approved by (Signature)  
*Bradley G. Hill*  
Title  
ENVIRONMENTAL MANAGER

Name (Printed/Typed)  
BRADLEY G. HILL

Date  
04-25-06

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.

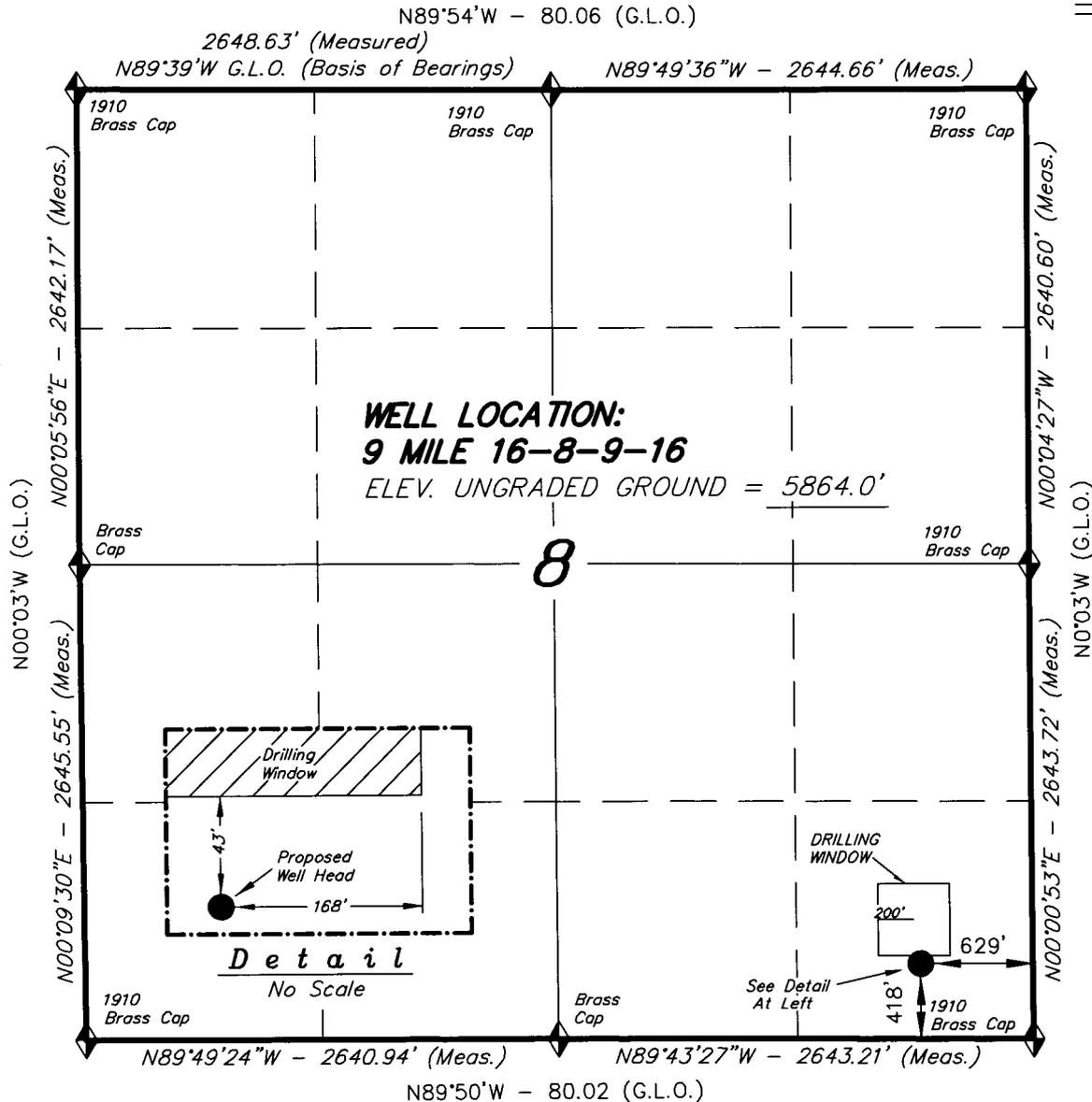
\*(Instructions on reverse)

**Federal Approval of this  
Action Is Necessary**

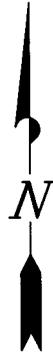
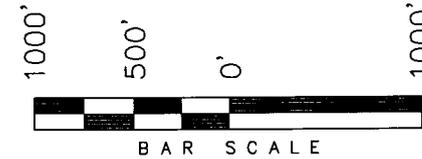
**FEB 15 2006**

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

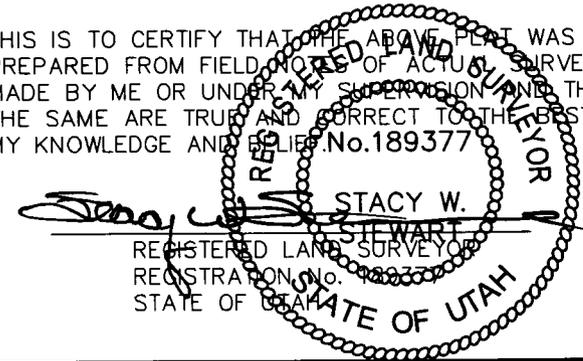
NEWFIELD PRODUCTION COMPANY



WELL LOCATION, 9 MILE 16-8-9-16,  
 LOCATED AS SHOWN IN THE SE 1/4 SE  
 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



◆ = SECTION CORNERS LOCATED

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

**9 MILE 16-8-9-16**  
 (Surface Location) NAD 83  
 LATITUDE = 40° 02' 21.46"  
 LONGITUDE = 110° 08' 09.64"

## TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
 (435) 781-2501

DATE SURVEYED: 12-12-05	SURVEYED BY: C.M.
DATE DRAWN: 1-03-06	DRAWN BY: M.W.
REVISED:	SCALE: 1" = 1000'



April 19, 2006

Utah Division of Oil, Gas & Mining  
P.O. Box 145801  
Attn: Diana Whitney  
Salt Lake City, Utah 84114-5801

Re: Exception Locations: (1) **Federal 9-8-9-16:**  
2136 FSL 944' FEL NESE Sec 8-T9S-16E;  
(2) **Federal 16-8-9-16:** 418' FSL, 629' FEL  
SESE Sec 8-T9S-R16E; Duchene Cty., UT  
Lease UTU-64379

Dear Ms. Whitney:

Pursuant to Rule R649-3-3 of the Oil & Gas Rules and Regulations of the State of Utah, Newfield Production Company, Inc. hereby requests an exception location for the drilling of the captioned well. Rule R649-3-2 requires a well to be located in the center of a forty (40) acre quarter-quarter section, or a substantially equivalent lot or tract, with a tolerance of two hundred (200) feet in any direction from the center.

The above referenced location (1) is an exception location under Rule 649-3-2, being 83' east of the drilling window tolerance for the NESE of Sec 8-T9S-R16E. The attached plat depicts the proposed drillsite location and illustrates the deviation from the drilling window, in accordance with Rule R649-3-2. The requested location has been selected due to the extreme terrain. The second location (2) is an exception location being 43' south of the drilling window tolerance for the SESE of Sec 8-T9S-R16E. Appropriate plats are included and this location has also been selected due to extreme terrain.

Please note the location is completely within Federal lease UTU-64379. The drillsite lease and all surrounding acreage within a four hundred sixty foot (460') radius of the proposed location is owned by Newfield Production Company and Yates Petroleum Corporation. We have contacted Yates Petroleum and their consent to these locations is attached.

If you have any questions or need additional information please contact me at (303)-382-4448. Thank you for your assistance in this matter.

Sincerely,  
NEWFIELD PRODUCTION COMPANY

  
Laurie Deseau  
Properties Administrator

RECEIVED  
APR 24 2006  
DIV. OF OIL, GAS & MINING

Exception Location  
Federal 9-8-9-16; Federal 16-8-9-16; Lease U-64379

Please be advised that Yates Petroleum Corporation does not have an objection to the proposed locations of the referenced wells.

By: *Ernest L. Carroll*

Date: 04/13/2006

Ernest Carroll, Senior Landman  
Print Name and Title



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,

  
Mandie Crozier  
Regulatory Specialist

mc  
enclosures

**RECEIVED**  
**FEB 15 2006**

DIV. OF OIL, GAS & MINING

**NEWFIELD PRODUCTION COMPANY  
FEDERAL #16-8-9-16  
SE/SE 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' – 2645'
Green River	2645'
Wasatch	6135'

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

Green River Formation 2645' – 6135' - 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 #16-8-9-16  
SE/SE SECTION 8, T9S, R18E  
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 #16-8-9-16 located in the SE 1/4 SE 1/4 Section 8, T9S, R16E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.6 miles ± to the junction of this highway and UT State Hwy 53; proceed southwesterly - 10.9 miles ± to it's junction with an existing road to the southeast; proceed southeasterly - 1.5 miles ± to it's junction with an existing road to the northeast; proceed northeasterly - 0.3 miles ± to it's junction with the beginning of the proposed access road; proceed northeasterly along the proposed access road - 1.3 miles ± 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 #16-8-9-16 Newfield Production Company requests a 3,560' ROW be granted in Lease UTU-52018 and 3,080' of disturbed area be granted in Lease UTU-64379 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 a 3,560' ROW be granted in Lease UTU-52018 and 3,080' of disturbed area be granted in Lease UTU-64379 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.

**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 #16-8-9-16 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 #16-8-9-16 SE/SE Section 8, Township 9S, Range 16E: Lease UTU-64379 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

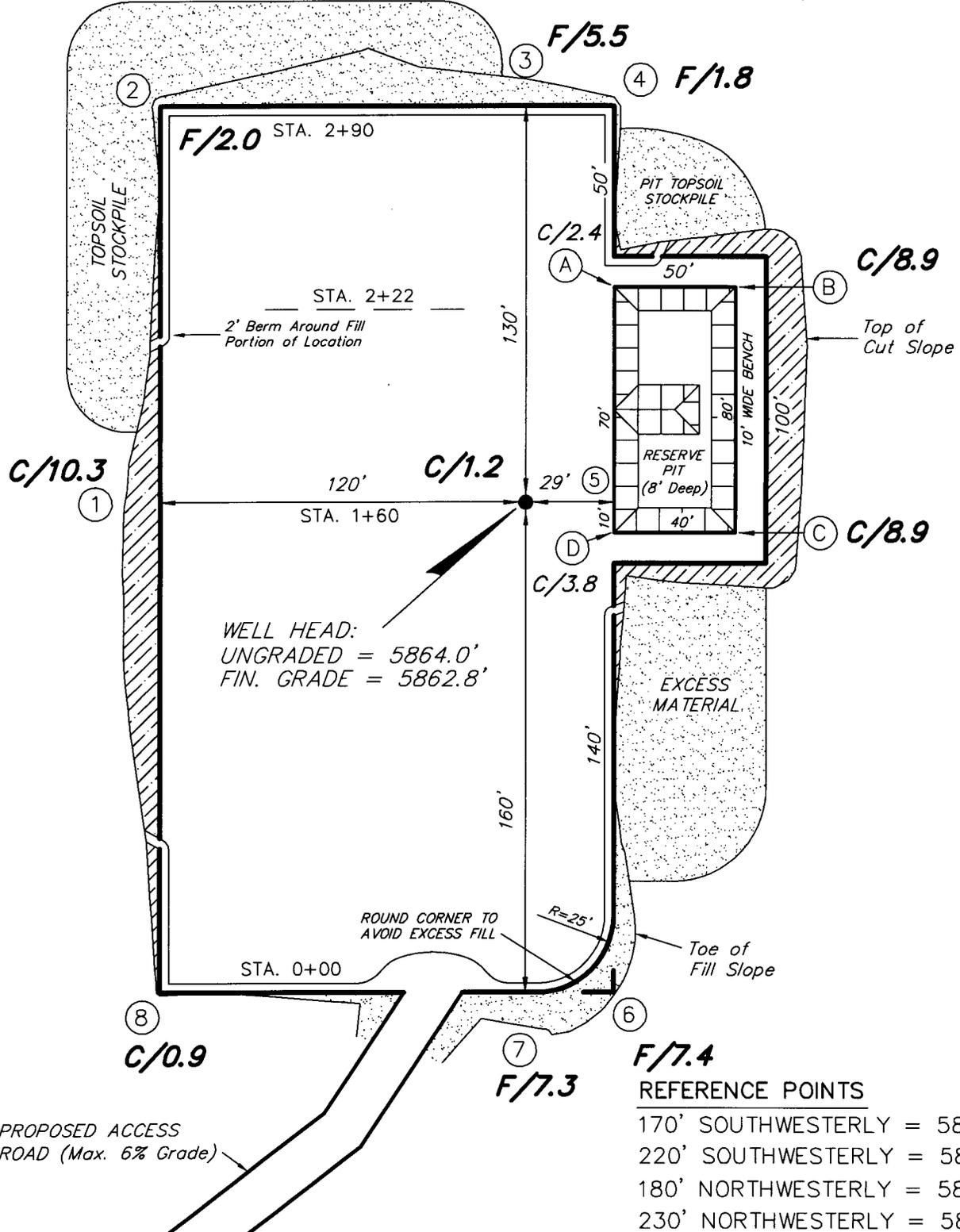
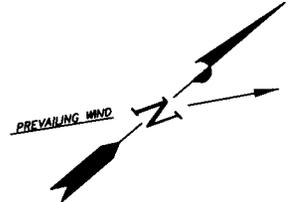


Mandie Crozier  
Regulatory Specialist  
Newfield Production Company

# NEWFIELD PRODUCTION COMPANY

9 MILE 16-8-9-16

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



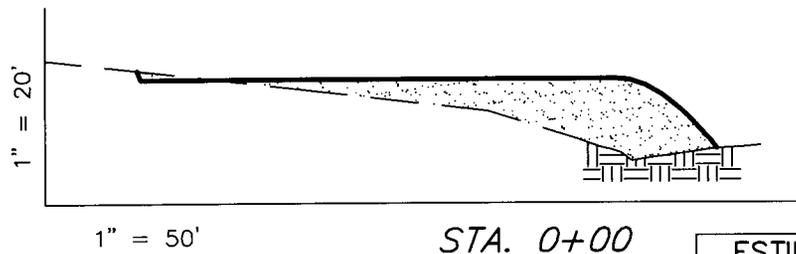
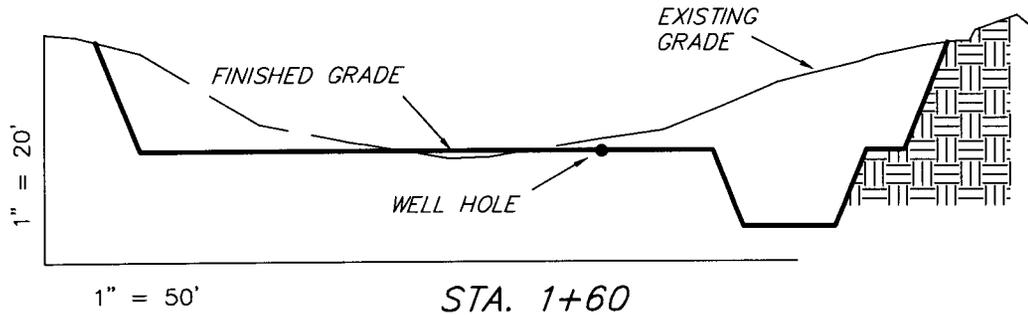
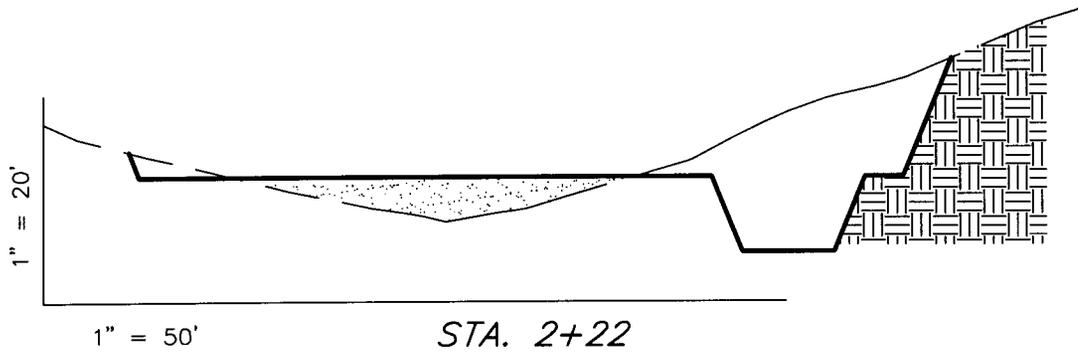
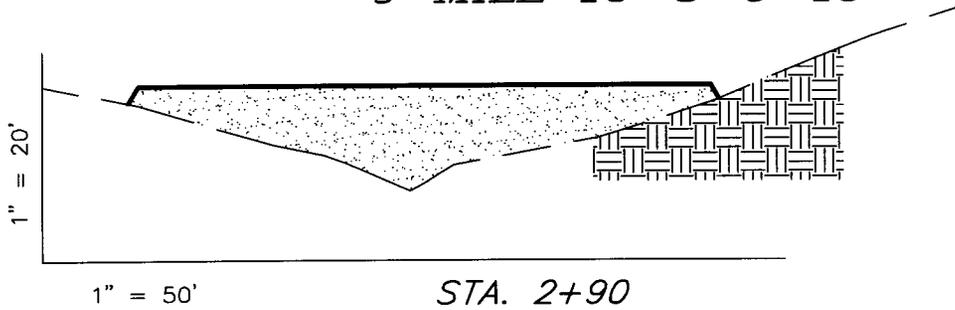
REFERENCE POINTS	
170' SOUTHWESTERLY	= 5876.8'
220' SOUTHWESTERLY	= 5873.2'
180' NORTHWESTERLY	= 5854.8'
230' NORTHWESTERLY	= 5852.4'

SURVEYED BY: C.M.	SCALE: 1" = 50'	<p style="text-align: right;">(435) 781-2501</p>
DRAWN BY: M.W.	DATE: 1-03-06	

# NEW FIELD PRODUCTION COMPANY

## CROSS SECTIONS

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



ESTIMATED EARTHWORK QUANTITIES  
(No Shrink or swell adjustments have been used)  
(Expressed in Cubic Yards)

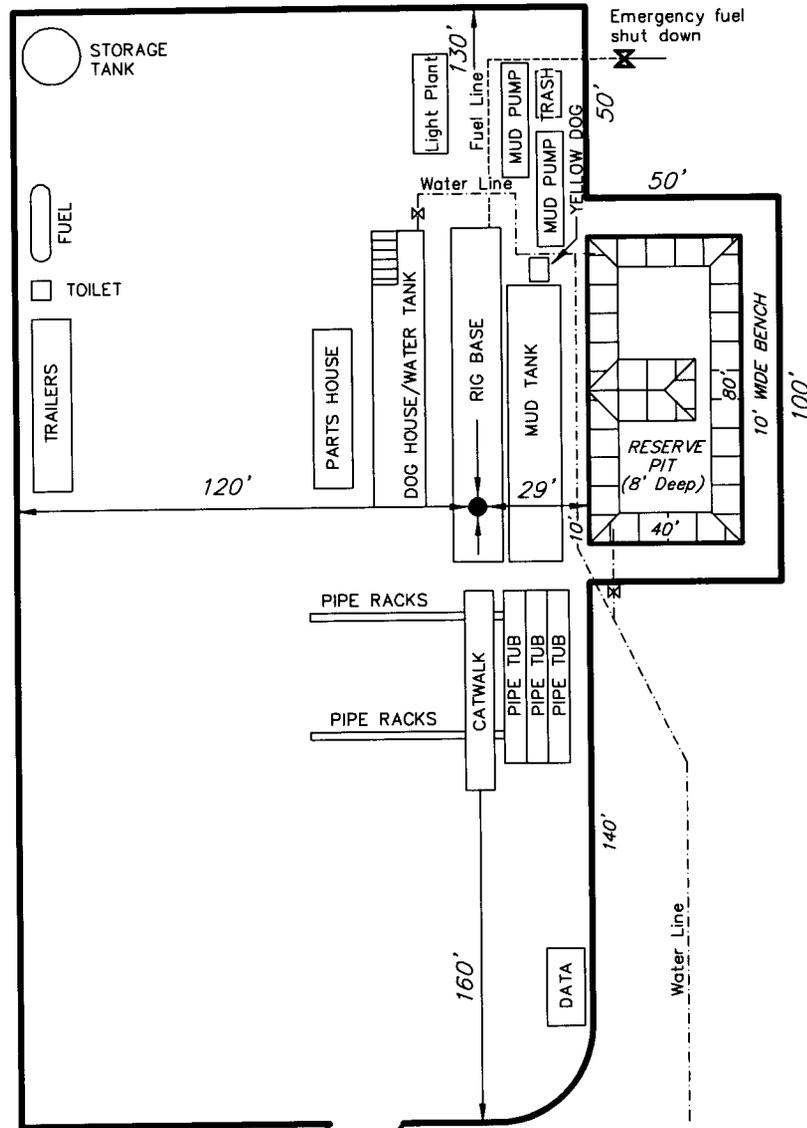
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	3,370	3,370	Topsoil is not included in Pad Cut	0
PIT	640	0		640
TOTALS	4,010	3,370	1,013	640

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

SURVEYED BY: C.M.	SCALE: 1" = 50'
DRAWN BY: M.W.	DATE: 1-03-06

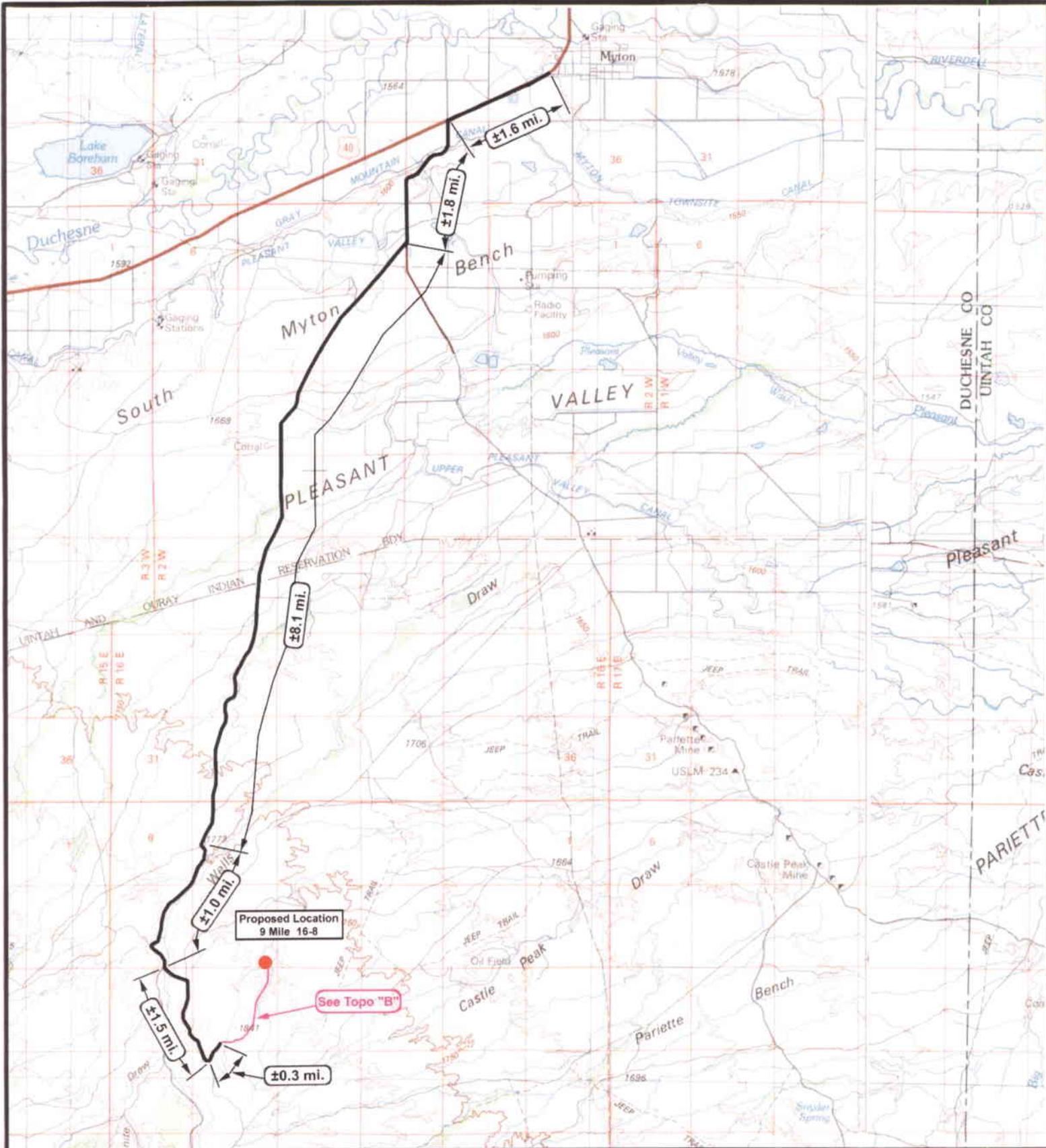
**Tri State** (435) 781-2501  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

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



SURVEYED BY: C.M.	SCALE: 1" = 50'
DRAWN BY: M.W.	DATE: 1-03-06

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



**NEWFIELD**  
Exploration Company

**9 Mile 16-8-9-16**  
**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 = 100,000  
DRAWN BY: mw  
DATE: 01-03-2006

**Legend**

- Existing Road
- Proposed Access

**TOPOGRAPHIC MAP**  
**"A"**

J-74826

U-30090

U-034217A

UTU-73087

UTU-73086

U-020255

U-000254

UTU-74390

UTU-79833

UTU-73329

Proposed Location  
9 Mile 16-8

± 300'

± 890'

± 1,090'

± 880'

± 130'

± 800'

± 870'

± 1,760'

±0.3 mi.

±1.5 mi.

Myton ±12.5 mi.

UTU-64379

U-52018



**NEWFIELD**  
Exploration Company

**9 Mile 16-8-9-16**  
**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" = 2000'

DRAWN BY: mw

DATE: 01-03-2006

**Legend**

-  Existing Road
-  Proposed Access

TOPOGRAPHIC MAP

**"B"**

J-74826

U-30090

U-034217A

UTU-73087

UTU-73086

U-020255

UTU-74390

UTU-79833

Proposed Location  
9 Mile 16-8

± 300'

± 890'

± 1090'

± 880'

± 130'

± 800'

± 870'

Tie in at Existing  
Gas Pipeline

± 1,760'

UTU-64379

UTU-52018



**NEWFIELD**  
Exploration Company

**9 Mile 16-8-9-16**  
**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" = 2000'

DRAWN BY: mw

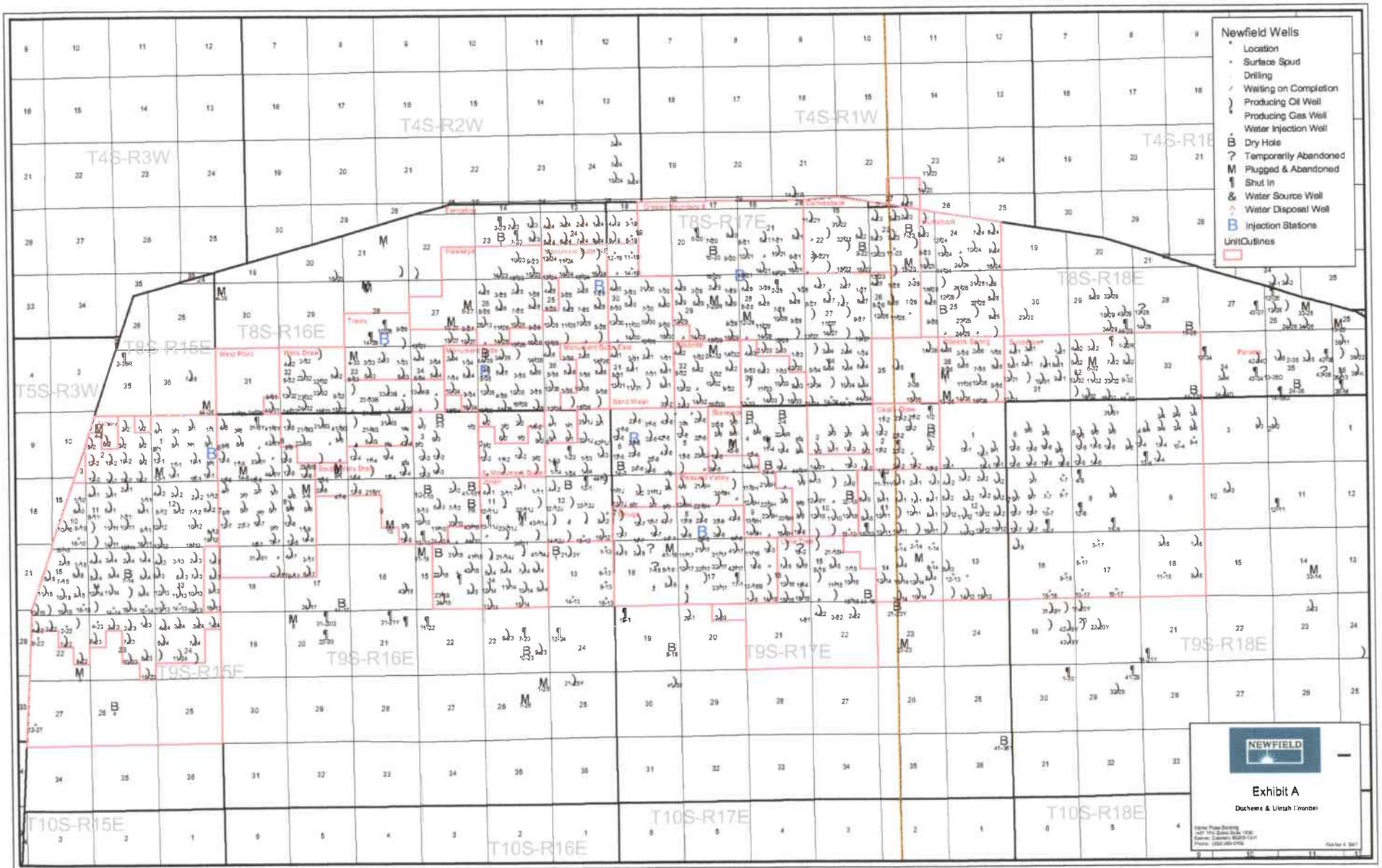
DATE: 01-03-2006

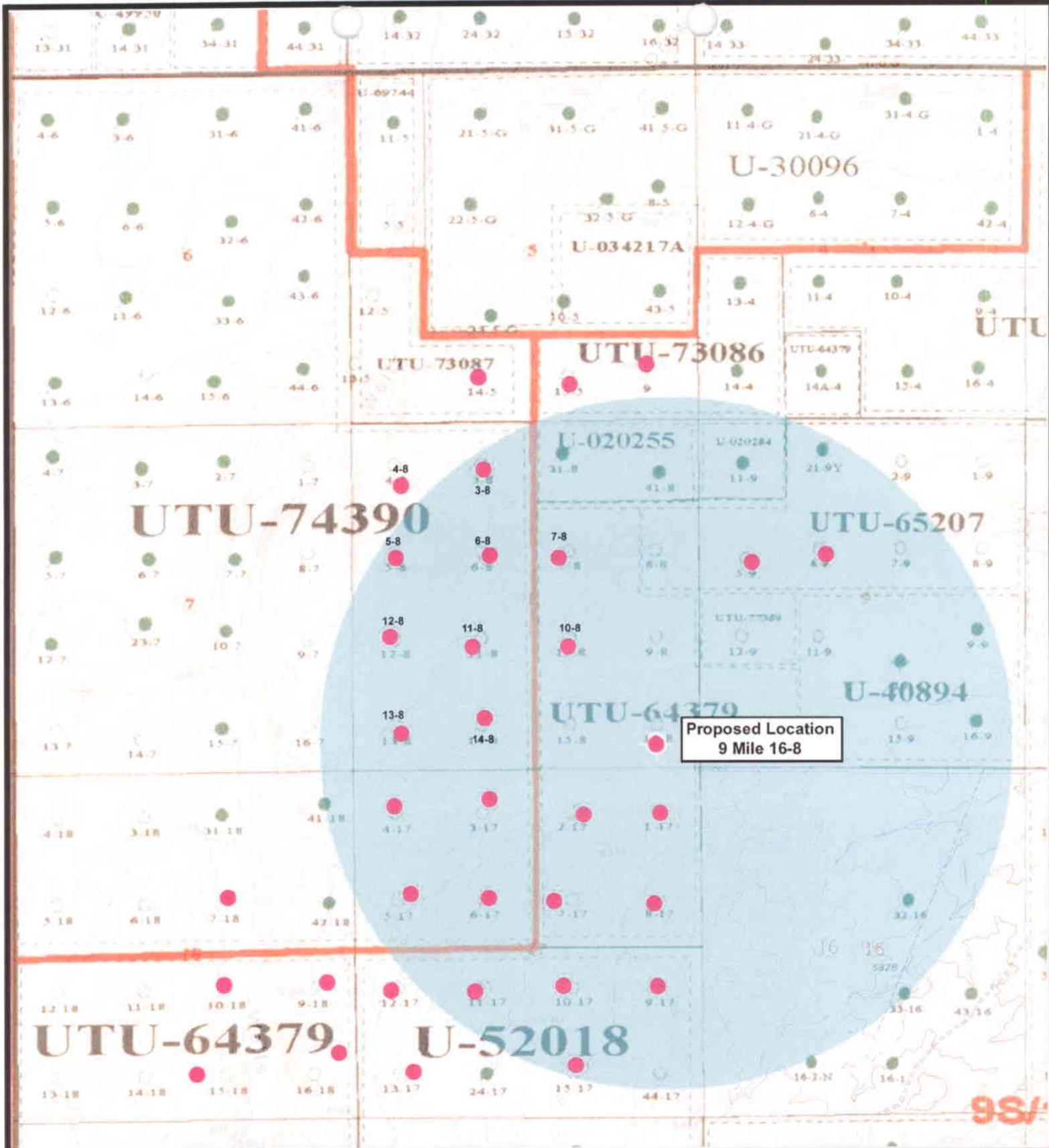
Legend

- Roads
- Proposed Gas Line

TOPOGRAPHIC MAP

"C"





 **NEWFIELD**  
Exploration Company

**9 Mile 16-8-9-16**  
**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: 01-03-2006

**Legend**

- Well Locations
- One-Mile Radius

**Exhibit "B"**

# 2-M SYSTEM

Blowout Prevention Equipment Systems

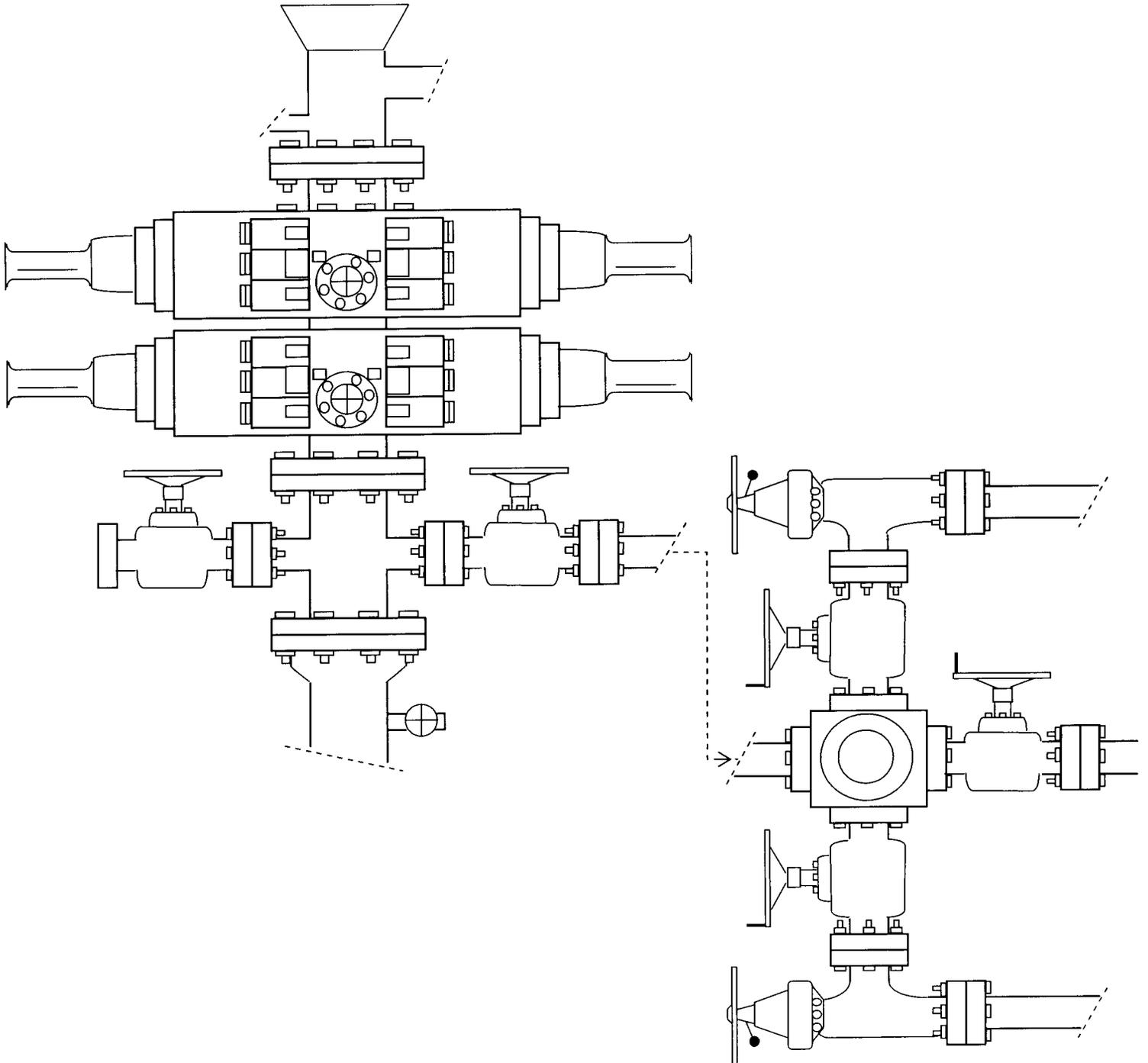


EXHIBIT C

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: 43-013-33061

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

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

SESE 08 090S 160E  
 SURFACE: 0418 FSL 0629 FEL  
 BOTTOM: 0418 FSL 0629 FEL  
 COUNTY: DUCHESNE  
 LATITUDE: 40.03929 LONGITUDE: -110.1354  
 UTM SURF EASTINGS: 573763 NORTHINGS: 4432266  
 FIELD NAME: MONUMENT BUTTE ( 105 )

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

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: UTU-64379  
 SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

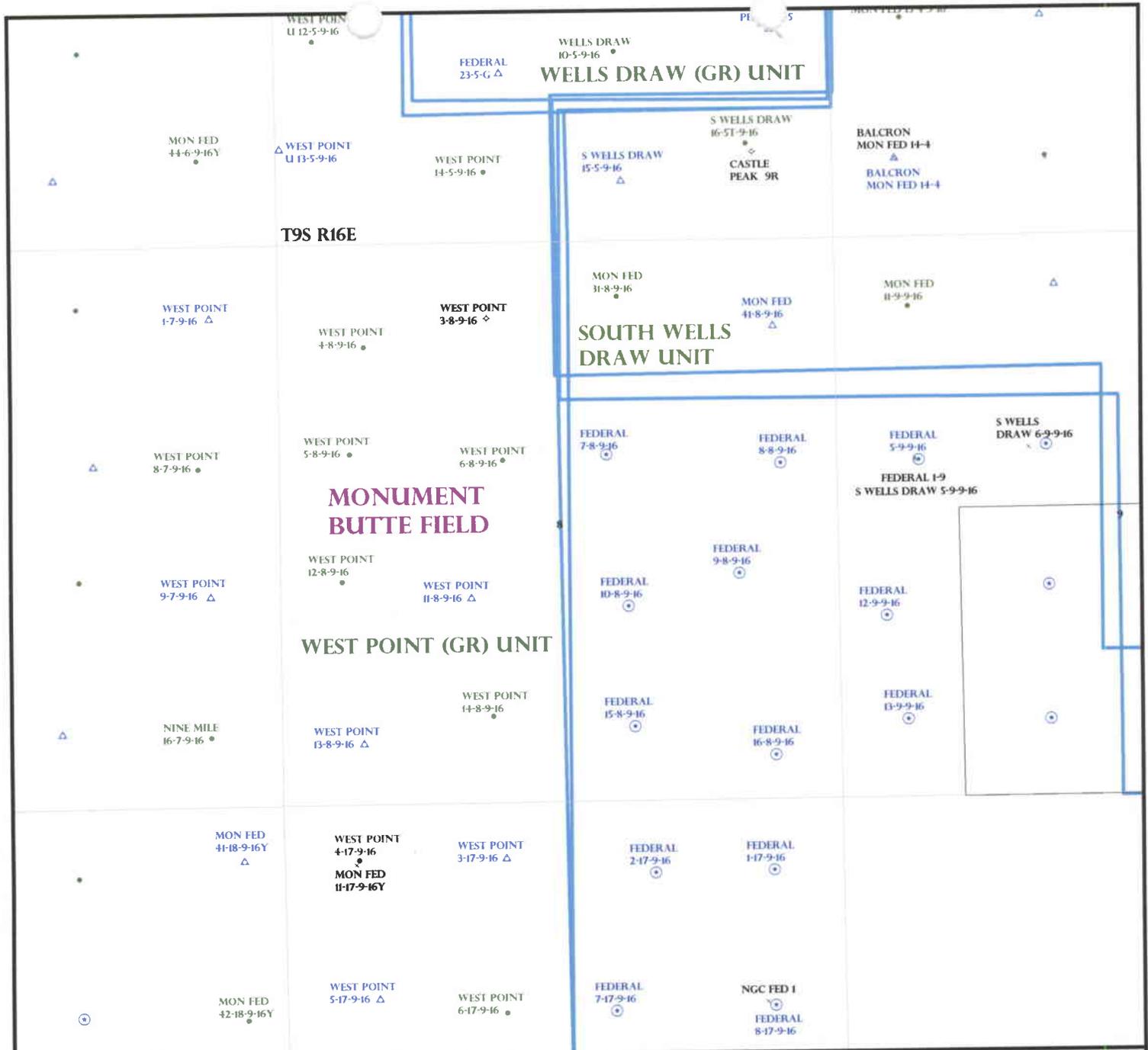
- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. UTB000192 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. MUNICIPAL )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

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: Sop, Separate file

STIPULATIONS: 1- Federal Approval  
2- Spacing SOP



OPERATOR: NEWFIELD PROD CO (N2695)

SEC: 8 T. 9S R. 16E

FIELD: MONUMENT BUTTE (105)

COUNTY: DUCHESNE

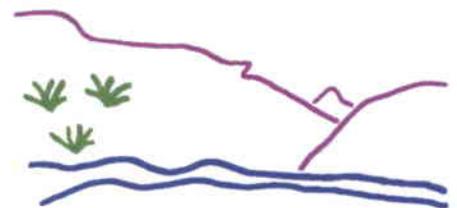
SPACING: R649-3-3 / EXCEPTION LOCATION

- 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*

April 25, 2006

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

Re: Federal 16-8-9-16 Well, 418' FSL, 629' FEL, SE SE, 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.

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby 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 43-013-33061.

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 16-8-9-16  
**API Number:** 43-013-33061  
**Lease:** UTU-64379

**Location:** SE SE                      **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)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## BLM VERNAL, UTAH

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

### APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.	UTU-64379
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 16-8-9-16
9. API Well No.	43-013-33061
10. Field and Pool, or Exploratory Monument Butte	
11. Sec., T., R. M., or Blk. and Survey or Area	SE/SE Sec. 8, T9S R16E
12. County or Parish	Duchesne
13. State	UT

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> 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/SE 418' FSL 629' FEL At proposed prod. zone		
14. Distance in miles and direction from nearest town or post office* Approximatley 15.6 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. 1949' f/lease, NA' f/unit	16. No. of Acres in lease 1626.36	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. 1608'	19. Proposed Depth 6135'	20. BLM/BIA Bond No. on file UTB000192
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5864' 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:

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification.   |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature <i>Mandie Crozier</i>	Name (Printed/Typed) Mandie Crozier	Date 2/10/06
Title Regulatory Specialist		
Approved by (Signature) <i>Jerry Kencela</i>	Name (Printed/Typed) Jerry Kencela	Date 1-24-2007
Title Assistant Field Manager Lands & Mineral Resources	Office	

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  
Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY

RECEIVED  
JAN 30 2007  
DIV. OF OIL, GAS & MINING

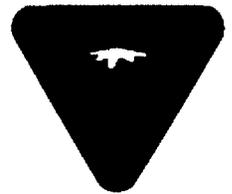


075XS0149A



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:** SESE, Sec 8, T9S, R16E  
**Well No:** Federal 16-8-9-16      **Lease No:** UTU-64379  
**API No:** 43-013-33061      **Agreement:** N/A

Petroleum Engineer:	Ryan Angus	Office: 435-781-4430	Cell: 435-828-
Petroleum Engineer:	James Ashley	Office: 435-781-4470	Cell: 435-828-7874
Petroleum Engineer:	Matt Baker	Office: 435-781-4490	Cell: 435-828-4470
Petroleum Engineer:	Michael Lee	Office: 435-781-4432	
Supervisory Petroleum Technician:	Jamie Sparger	Office: 435-781-4502	Cell: 435-828-3913
NRS/Environmental Scientist:	Scott Ackerman	Office: 435-781-4437	
NRS/Environmental Scientist:	Paul Buhler	Office: 435-781-4475	Cell: 435-828-4029
NRS/Environmental Scientist:	Jannice Cutler	Office: 435-781-3400	
NRS/Environmental Scientist:	Michael Cutler	Office: 435-781-3401	
NRS/Environmental Scientist:	Anna Figueroa	Office: 435-781-3407	
NRS/Environmental Scientist:	Melissa Hawk	Office: 435-781-4476	
NRS/Environmental Scientist:	Chuck McDonald	Office: 435-781-4441	
NRS/Environmental Scientist:	Nathan Packer	Office: 435-781-3405	
NRS/Environmental Scientist:	Verlyn Pindell	Office: 435-781-3402	
NRS/Environmental Scientist:	Holly Villa	Office: 435-781-4404	
NRS/Environmental Scientist:	Darren Williams	Office: 435-781-4447	
NRS/Environmental Scientist:	Karl Wright	Office: 435-781-4484	
<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 NRS) - Forty-Eight (48) hours prior to construction of location and access roads.
- Location Completion (Notify NRS) - Prior to moving on the drilling rig.
- Spud Notice (Notify Petroleum Engineer) - Twenty-Four (24) hours prior to spudding the well.
- Casing String & Cementing (Notify Supervisory Petroleum Technician) - Twenty-Four (24) hours prior to running casing and cementing all casing
- BOP & Related Equipment Tests (Notify Supervisory Petroleum Technician) - Twenty-Four (24) hours prior to initiating pressure tests.
- First Production Notice (Notify Petroleum Engineer) - 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. Adhere to Executive Order 5327 of April 15, 1930, stipulations for lands in oil shale withdrawal.
2. Lands in this lease have been identified as containing Golden eagle habitat. Modifications to the Surface Use Plan of Operations may be required in order to protect the Golden eagle and/or habitat from surface disturbing activities in accordance with Section 6 of the lease terms, Endangered Species Act, and 43 CFR 3101.1-2.
3. Timing Limitation – **March 1 through June 30** – If it is anticipated that construction and drilling will occur within the timing limitation for sage grouse nesting areas, a BLM biologist must be contacted at least 2 weeks prior to the anticipated construction start date so surveys can be initiated.

**CONDITIONS OF APPROVAL:**

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 August 24, 2005. If the well has not been spudded by August 24, 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 will be complied with.
3. All traffic related to this action will be restricted to approved routes. Cross-country vehicle travel will not be allowed.

### ***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\_Wellogs@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 (1/4<sup>1</sup>/<sub>4</sub>, 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 16-8-9-16

Api No: 43-013-33061 Lease Type: FEDERAL

Section 08 Township 09S Range 16E County DUCHESNE

Drilling Contractor ROSS DRILLING RIG # 21

### **SPUDDED:**

Date 02/06/07

Time 9:00 AM

How DRY

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

Reported by DON BASTIAN

Telephone # (435) 823-6012

Date 02/06/2007 Signed CHD



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

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

5. Lease Serial No.  
USA UTU-64379

6. If Indian, Allottee or Tribe Name.

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

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

9. API Well No.  
4301333061

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)  
SESE 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 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 2/6/07 MIRU Ross # 24. Spud well @ 9:00am. Drill 315' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24 # csgn. Set @ 320.03' On 2/7/07 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) Don Bastian	Title Drilling Foreman
Signature 	Date 02/07/2007

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

FEB 09 2007

DIV. OF OIL, GAS & MINING

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8 CASING SET AT 320.03

LAST CASING 8 5/8" SET AT 320.03"  
 DATUM 12' KB  
 DATUM TO CUT OFF CASING \_\_\_\_\_  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER 315' LOGGER \_\_\_\_\_  
 HOLE SIZE 12 1/4

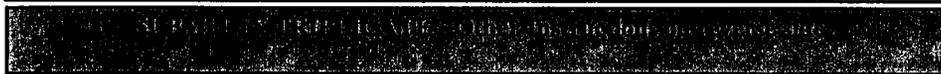
OPERATOR NewField Production Company  
 WELL Federal 16-8-9-16  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # Ross Rig #24

LOG OF CASING STRING:								
PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH	
		Shoe Joint 40.10'						
		WHI - 92 csg head			8rd	A	0.95	
7	8 5/8"	Maverick ST&C csg	24#	J-55	8rd	A	308.18	
		<b>GUIDE</b> shoe			8rd	A	0.9	
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			310.03	
TOTAL LENGTH OF STRING		310.03	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>320.03</b>	
TOTAL		308.18	7	} COMPARE				
TOTAL CSG. DEL. (W/O THRDS)		308.18	7					
TIMING		1ST STAGE		GOOD CIRC THRU JOB			Yes	
BEGIN RUN CSG.		Spud	2/6/2007	9:00AM	Bbls CMT CIRC TO SURFACE			5
CSG. IN HOLE			2/6/2007	5:30PM	RECIPROCATED PIPE FOR _____ THRU _____ FT STROKE			
BEGIN CIRC			2/7/2007	11:20AM				
BEGIN PUMP CMT			2/7/2007	11:30 AM				N/A
BEGIN DSPL. CMT			2/7/2007	11:42 AM	BUMPED PLUG TO _____ 130 _____ PSI			
PLUG DOWN			2/7/2007	11:52 AM				
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 Don Bastian DATE 2/7/2007

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.



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)  
                   418 FSL 629 FEL  
                   SESE Section 8 T9S R16E

5. Lease Serial No.  
 USA UTU-64379

6. If Indian, Allottee or Tribe Name.

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

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

9. API Well No.  
 4301333061

10. Field and Pool, or Exploratory Area  
 MONUMENT BUTTE

11. County or Parish, State  
 DUCHESNE, UT

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production(Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input 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 03/22/2007



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

MAR 23 2007

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

5. LEASE DESIGNATION AND SERIAL NO.

**UTU-64379**

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

**NA**

1a. TYPE OF WORK

OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

7. UNIT AGREEMENT NAME

**Federal**

1b. TYPE OF WELL

NEW WELL  WORK OVER  DEEPEN  PLUG BACK  DIFF RESVR.  Other \_\_\_\_\_

8. FARM OR LEASE NAME, WELL NO.

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

2. NAME OF OPERATOR

**Newfield Exploration Company**

9. WELL NO.

**43-013-33061**

3. ADDRESS AND TELEPHONE NO.

**1401 17th St. Suite 1000 Denver, CO 80202**

10. FIELD AND POOL OR WILDCAT

**Monument Butte**

4. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements.)\*

At Surface **418' FSL & 629' FEL (SE/SE) Sec. 8, T9S, R16E**

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

**Sec. 8, T9S, R16E**

At top prod. Interval reported below

At total depth

14. API NO. **43-013-33061** DATE ISSUED **04/25/06**

12. COUNTY OR PARISH

**Duchesne**

13. STATE

**UT**

15. DATE SPUDDED

**02/06/07**

16. DATE T.D. REACHED

**02/13/07**

17. DATE COMPL. (Ready to prod.)

**03/21/07**

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*

**5864' GL**

19. ELEV. CASINGHEAD

**5876' KB**

20. TOTAL DEPTH, MD & TVD

**6125'**

21. PLUG BACK T.D., MD & TVD

**6065'**

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 4472'-5639'**

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#	320'	12-1/4"	To surface with 160 sx Class "G" cmt	
5-1/2" - J-55	15.5#	6104'	7-7/8"	301 sx Premlite II and 449 sx 50/50 Poz	

**29. LINER RECORD**

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

**30. TUBING RECORD**

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	EOT @ 5726'	TA @ 5596'

**31. PERFORATION RECORD (Interval, size and number)**

INTERVAL	SIZE	SPF/NUMBER	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
(CP2) 5631'-5639'	.46"	4/32	5631'-5639	Frac w/ 26,883# 20/40 sand in 357 bbls fluid
(A3) 5158'-5166', 5128'-5133'	.43"	4/52	5128'-5166'	Frac w/ 24,821# 20/40 sand in 347 bbls fluid
(C) 4894'-4902', 4864'-4876'	.43"	4/80	4864'-4902'	Frac w/ 95,479# 20/40 sand in 684 bbls fluid
(D1) 4725'-4735'	.43"	4/40	4725'-4735'	Frac w/ 45,323# 20/40 sand in 377 bbls fluid
(PB11 & 10) 4497'-4478', 4472'-4478'	.43"	4/48	4472'-4503'	Frac w/ 22,086# 20/40 sand in 270 bbls fluid

**33.\* PRODUCTION**

DATE FIRST PRODUCTION <b>03/21/07</b>	PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump) <b>2-1/2" x 1-1/2" x 14.5' RHAC SM Plunger Pump</b>	WELL STATUS (Producing or shut-in) <b>PRODUCING</b>					
DATE OF TEST <b>10 day ave</b>	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD <b>-----&gt;</b>	OIL--BBL. <b>85</b>	GAS--MCF. <b>35</b>	WATER--BBL. <b>26</b>	GAS-OIL RATIO <b>412</b>
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE <b>-----&gt;</b>	OIL-BBL.	GAS--MCF.	WATER--BBL.	OIL GRAVITY-API (CORR.)	

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

**Sold & Used for Fuel**

TEST WITNESSED BY

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

35. LIST OF ATTACHMENTS

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

SIGNED Jentri Park

TITLE Production Clerk

DATE 4/5/2007

Jentri Park

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 16-8-9-16	Garden Gulch Mkr	3693'	
				Garden Gulch 1	3910'	
				Garden Gulch 2	4018'	
				Point 3 Mkr	4277'	
				X Mkr	4543'	
				Y-Mkr	4576'	
				Douglas Creek Mkr	4691'	
				BiCarbonate Mkr	4907'	
				B Limestone Mkr	5043'	
				Castle Peak	5555'	
				Basal Carbonate	6011'	
				Total Depth (LOGGERS)	6157'	

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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
USA UTU-64379

**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 16-8-9-16

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:  
4301333061

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

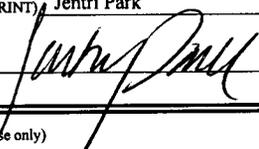
10. FIELD AND POOL, OR WILDCAT:  
MONUMENT BUTTE

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: 418 FSL 629 FEL COUNTY: DUCHESNE  
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SESE, 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 checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: <u>04/04/2007</u>	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - 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 03/21/07, attached is a completion status report.

NAME (PLEASE PRINT) Jentri Park TITLE Production Clerk  
SIGNATURE  DATE 04/04/2007

(This space for State use only)

**RECEIVED**  
**APR 10 2007**  
DIV. OF OIL, GAS & MINING

## Daily Activity Report

Format For Sundry

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

1/1/2007 To 5/30/2007

**3/2/2007 Day: 1**

**Completion**

Rigless on 3/1/2007 - Install 5M frac head. NU Cameron BOP. RU H/O truck & pressure test casing, frac head, blind rams & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 6020' & cement top @ 54'. Perforate stage #1 W/ 4" ported gun as follows: CP2 sds @ 5631- 5639' W/ 4 JSPF for total of 32 shots. RD WLT. SIFN W/ est 144 BWTR.

**3/14/2007 Day: 2**

**Completion**

Rigless on 3/13/2007 - U BJ Services. 33 psi on well. Frac CP2 sds w/ 26,883#'s of 20/40 sand in 357 bbls of Lightning 17 fluid. Broke @ 3084 psi. Treated w/ ave pressure of 2479 psi @ ave rate of 25.2 BPM. Pumped 504 gals of 15% HCL in flush for Stage #2. ISIP 2080 psi. Leave pressure on well. 501 BWTR U Lone Wolf WLT, crane & lubricator. RIH w/ 5-1/2" Weatherford composite flow through plug, 8' & 5' perf gun. Set plug @ 5270'. Perforate A3 sds @ 5158- 5166', 5128-5133' w/ 3-1/8" Slick Guns (23 gram, .43"HE, 90°) w/ 4 SPF for total of 52 shots. RU BJ Services. 1515 psi on well. Frac A3 sds w/ 24,821#'s of 20/40 sand in 347 bbls of Lightning 17 fluid. Broke @ 1915 psi. Treated w/ ave pressure of 2094 psi @ ave rate of 25.2 BPM. Pumped 504 gals of 15% HCL in flush for Stage #3. ISIP 2080 psi. Leave pressure on well. 848 BWTR. RU Lone Wolf WLT, crane & lubricator. RIH w/ 5-1/2" Weatherford composite flow through plug, 8' & 12' perf gun. Set plug @ 5000'. Perforate C sds @ 4894- 4902', 4864-4876' w/ 3-1/8" Slick Guns (23 gram, .43"HE, 90°) w/ 4 SPF for total of 80 shots. RU BJ Services. 1489 psi on well. Frac C sds w/ 95,479#'s of 20/40 sand in 684 bbls of Lightning 17 fluid. Broke @ 4004 psi. Treated w/ ave pressure of 1795 psi @ ave rate of 25.2 BPM. Pumped 504 gals of 15% HCL in flush for Stage #4. ISIP 2133 psi. Leave pressure on well. 1532 BWTR. RU Lone Wolf WLT, crane & lubricator. RIH w/ 5-1/2" Weatherford composite flow through plug & 10' perf gun. Set plug @ 4810'. Perforate D1 sds @ 4725- 4735' w/ 3-1/8" Slick Guns (23 gram, .43"HE, 90°) w/ 4 SPF for total of 40 shots. RU BJ Services. 1471 psi on well. Frac D1 sds w/ 45,323#'s of 20/40 sand in 377 bbls of Lightning 17 fluid. Broke @ 4045 psi. Treated w/ ave pressure of 1834 psi @ ave rate of 25.2 BPM. Pumped 504 gals of 15% HCL in flush for Stage #5. ISIP 2100 psi. Leave pressure on well. 1909 BWTR. RU Lone Wolf WLT, crane & lubricator. RIH w/ 5-1/2" Weatherford composite flow through plug & 10' perf gun. Set plug @ 4605'. Perforate PB11 sds @ 4497- 4503', PB10 sds @ 4472- 4478' w/ 3-1/8" Slick Guns (23 gram, .43"HE, 90°) w/ 4 SPF for total of 48 shots. RU BJ Services. 1636 psi on well. Frac PB10 & PB11 sds w/ 22,086#'s of 20/40 sand in 270 bbls of Lightning 17 fluid. Broke @ 3435 psi. Treated w/ ave pressure of 2550 psi @ ave rate of 25.3 BPM. ISIP 2425 psi. Begin immediate flowback on 12/64 choke @ 1 BPM. Flowed for 5 1/2 hrs & died. Rec 323 BTF. SIWFN w/ 1856 BWTR.

**3/15/2007 Day: 3**

**Completion**

Key #30955 on 3/14/2007 - MIRU Key #30955. Bleed pressure off well. Rec est 35 BTF. ND cameron BOP & 5M frac head. Install 3M production tbg head & NU Weatherford Schaeffer BOP. RU floor & tongs. Talley top row of tbg. Lay pump lines. SIFN W/ est 1821 BWTR.

**3/16/2007 Day: 4**

**Completion**

Key #30955 on 3/15/2007 - Bleed pressure off well. Rec est 25 BTF (W/ some oil & gas). Drift, PU & TIH W/ used 4 3/4" "Chomp" bit, bit sub & new 2 7/8 8rd 6.5# J-55 tbg. W/ 65 jts ran, tbg began flowing heavy oil. RU & circ well. Con't PU tbg. Tag plug @ 4605'. Tbg displaced & well flowed approx. 40 BTF on TIH. LD 2 jts tbg. RU power swivel. SIFN W/ EOT @ 4540'. Est 1765 BWTR.

---

3/17/2007 Day: 5

Completion

Key #30955 on 3/16/2007 - Bleed pressure off well. Rec est 15 BTF. RU & circ oil & gas f/ well. TIH W/ bit & tbg f/ 4540'. Tag plug @ 4605'. PU power swivel. C/O sd & drill out composite bridge plugs as follows (using conventional circulation): no sd, plug @ 4605' in 32 minutes; sd @ 4795', plug @ 4810' in 27 minutes; sd @ 4995', plug @ 5000' in 40 minutes; no sd, plug @ 5270' in 120 minutes (had some plugging problems). Hang back swivel & con't PU tbg. Tag fill @ 5710'. PU swivel. Drill on plug remains & sd to 5753'. Still having plugging problems. Able to clear bit and rev circ hole W/ 120 BW. Clean returns. Lost no fluid during cleanout. Hang back swivel & pull EOT to 5627'. SIFN W/ est 1741 BWTR.

---

3/20/2007 Day: 6

Completion

Key #30955 on 3/19/2007 - TIH W/ bit & tbg f/ 5627'. Tag fill @ 5735' (18' overnight fill). PU swivel. Con't C/O sd to PBTD @ 6065'. Circ hole clean W/ no fluid loss. RD swivel. Pull EOT to 5995'. RU swab equipment. IFL @ sfc. Made 12 swb runs rec 103 BTF W/ light gas, tr oil & no sand. FFL @ 1200'. SIFN W/ est 1638 BWTR.

---

3/21/2007 Day: 7

Completion

Key #30955 on 3/20/2007 - No pressure on well. TIH W/ tbg. Tag PBTD @ 6065' (no new fill). Circ hole W/ clean wtr. Lost est 35 BW & rec sm tr oil. LD excess tbg. TOH W/ tbg--LD bit. TIH W/ BHA & production tbg as follows: 2 7/8 NC, 2 jts tbg, SN, 2 jts tbg, new 5 1/2" TA (45K) & 177 jts 2 7/8 8rd 6.5# J-55 tbg. ND BOP. Set TA @ 5596' W/ SN @ 5661' & EOT @ 5726'. Land tbg W/ 16,000# tension. NU wellhead. SIFN W/ est 1673 BWTR.

---

3/22/2007 Day: 8

Completion

Key #30955 on 3/21/2007 - PU & TIH W/ pump and "A" grade rod string as follows: 2 1/2" X 1 1/2" X 14.5' RHAC pump, 6-1 1/2" weight rods, 10-3/4" scraped rods, 115-3/4" plain rods, 94-3/4" scraped rods, 1-8', 1-4' & 1-2' X 3/4" pony rods and 1 1/2" X 22' polished rod. Seat pump & RU pumping unit. W/ tbg full, pressure test tbg & pump to 200 psi. Stroke pump up W/ unit to 800 psi. Good pump action. RD MOSU. Est 1673 BWTR. Place well on production @ 5:00 PM 3/21/2007 W/ 86" SL @ 5 SPM. FINAL REPORT!!

---

Pertinent Files: Go to File List

**NEWFIELD**



**Newfield Exploration Company**

1001 17th Street | Suite 2000

Denver, Colorado 80202

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

April 11, 2013

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

RE: Permit Application for Water Injection Well  
Federal #16-8-9-16  
Monument Butte Field, Lease #UTU-64379  
Section 8-Township 9S-Range 16E  
Duchesne County, Utah

Dear Mr. Reinbold:

Newfield Production Company herein requests approval to convert the Federal #16-8-9-16 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,

Eric Sundberg  
Environmental Manager

RECEIVED  
APR 12 2013  
DIV. OF OIL, GAS & MINING

**NEWFIELD PRODUCTION COMPANY**  
**APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL**  
**FEDERAL #16-8-9-16**  
**MONUMENT BUTTE FIELD (GREEN RIVER) FIELD**  
**LEASE #UTU-64379**  
**APRIL 11, 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 #16-8-9-16  
Field or Unit name: Monument Butte (Green River) Lease No. UTU-64379  
Well Location: QQ SESE 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: 43-013-33061

Proposed injection interval: from 4018 to 6065  
Proposed maximum injection: rate 500 bpd pressure 2043 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 4/11/13  
Phone No. (303) 893-0102

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

Comments:

# Federal 16-8-9-16

Spud Date: 02/06/07  
 Put on Production: 03/21/07  
 K.B.: 5876, G.L.: 5864

Initial Production: BOPD,  
 MCFD, BWPD

## Proposed Injection Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (308.18')  
 DEPTH LANDED: 320.03' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf.

### PRODUCTION CASING

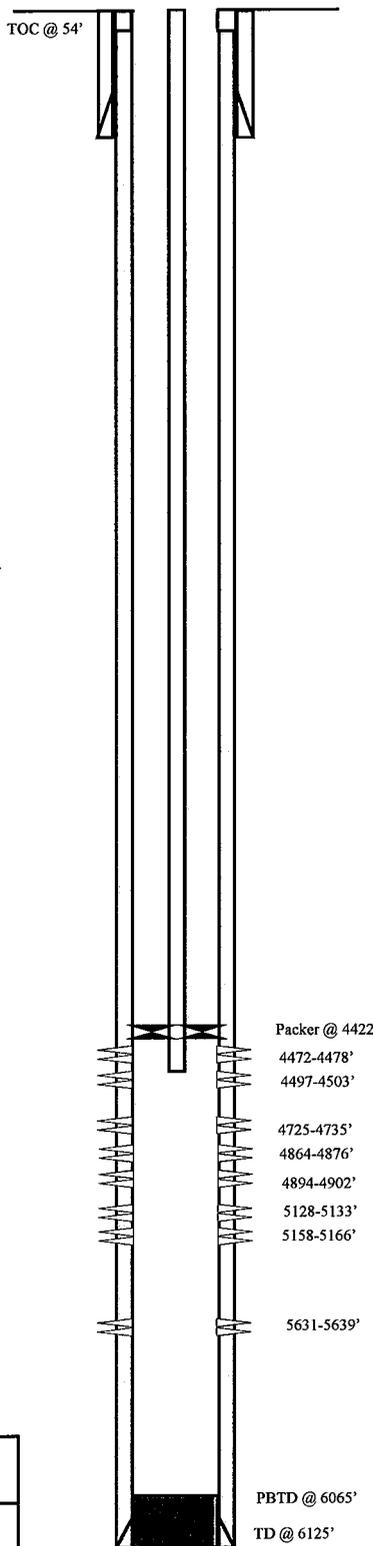
CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 138 jts. (6054.21')  
 DEPTH LANDED: 6104.47' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 301 sxs Prem. Lite II mixed & 449 sxs 50/50 POZ.

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 177 jts (5583.61')  
 TUBING ANCHOR: 5595.61' KB  
 NO. OF JOINTS: jts (63.06')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5661.42' KB  
 NO. OF JOINTS: 2 jts (63.12')  
 TOTAL STRING LENGTH: EOT @ 5726.09' KB

### FRAC JOB

03/13/07	5627-5732'	<b>Frac CP2, sands as follows:</b> 26883# 20/40 sand in 357 bbls Lightning 17 frac fluid. Treated @ avg press of 2479 psi w/avg rate of 25.2 BPM. ISIP 2080 psi. Calc flush: 5730 gal. Actual flush: 5124 gal.
03/13/07	5128-5166'	<b>Frac A3 sands as follows:</b> 24821# 20/40 sand in 347bbls Lightning 17 frac fluid. Treated @ avg press of 2094psi w/avg rate of 25.2 BPM. ISIP 2080 psi. Calc flush: 5164 gal. Actual flush: 4624 gal.
03/13/07	4864-4902'	<b>Frac C sands as follows:</b> 95479# 20/40 sand in 684 bbls Lightning 17 frac fluid. Treated @ avg press of 1795 psi w/avg rate of 25.2 BPM. ISIP 2133 psi. Calc flush: 4900 gal. Actual flush: 4364 gal.
03/13/07	4725-4735'	<b>Frac D1 sands as follows:</b> 45323# 20/40 sand in 377 bbls Lightning 17 frac fluid. Treated @ avg press of 1834 psi w/avg rate of 25.2 BPM. ISIP 2100 psi. Calc flush: 4733 gal. Actual flush: 4204 gal.
03/13/07	4472-4503'	<b>Frac PB10, PB11 sands as follows:</b> 22086# 20/40 sand in 270 bbls Lightning 17 frac fluid. Treated @ avg press of 2550 psi w/avg rate of 25.3 BPM. ISIP 2425 psi. Calc flush: 4501 gal. Actual flush: 4368 gal.



### PERFORATION RECORD

03/01/07	5631-5639'	4 JSPF	32 holes
03/13/07	5158-5166'	4 JSPF	32 holes
03/13/07	5128-5133'	4 JSPF	20 holes
03/13/07	4894-4902'	4 JSPF	32 holes
03/13/07	4864-4876'	4 JSPF	48 holes
03/13/07	4725-4735'	4 JSPF	40 holes
03/13/07	4497-4503'	4 JSPF	24 holes
03/13/07	4472-4478'	4 JSPF	24 holes

**NEWFIELD**

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

418' FSL & 629' FEL

SE/SE Section 8-T9S-R16E

Duchesne Co, Utah

API #43-013-33061; Lease #UTU-64379

## WORK PROCEDURE FOR INJECTION CONVERSION

1. Rig up hot oil truck to casing. Pump water. Unseat pump. Flush rods. Trip out of hole with rods and pump.
2. Trip out of hole with tubing, breaking and doping every connection. Trip in hole with packer and tubing. Rig up water truck to casing. Pump packer fluid. Set packer.
3. Test casing and packer.
4. Rig down and move out.

**REQUIREMENTS FOR INJECTION OF FLUIDS INTO RESERVOIRS  
RULE R615-5-1**

- 1. Operations to increase ultimate recovery, such as cycling of gas, the maintenance of pressure, the introduction of gas, water or other substances into a reservoir for the purpose of secondary or other enhanced recovery or for storage and the injection of water into any formation for the purpose of water disposal shall be permitted only by order of the Board after notice and hearing.**
  
- 2. A request for agency action for authority for the injection of gas, liquified petroleum gas, air, water or any other medium into any formation for any reason, including but not necessarily limited to the establishment of or the expansion of waterflood projects, enhanced recovery projects, and pressure maintenance projects shall contain:**
  - 2.1 The name and address of the operator of the project.**

Newfield Production Company  
1001 17<sup>th</sup> Street, Suite 2000  
Denver, Colorado 80202
  
  - 2.2 A plat showing the area involved and identifying all wells, including all proposed injection wells, in the project area and within one-half mile of the project area.**

See Attachment A.
  
  - 2.3 A full description of the particular operation for approval is requested.**

Approval is requested to convert the Federal #16-8-9-16 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 #16-8-9-16 well, the proposed injection zone is from Garden Gulch to Basal Carbonate (4018' - 6065'). 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 3693' and the TD is at 6125'.
  
  - 2.6 A copy of a log of a representative well completed in the pool.**

The referenced log for the Federal #16-8-9-16 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-64379) in the Monument Butte Federal (Green River) Field, and this request is for administrative approval.

**REQUIREMENTS FOR CLASS II INJECTION WELLS INCLUDING WATER DISPOSAL,  
STORAGE AND ENHANCED RECOVERY WELLS  
SECTION V – RULE R615-5-2**

- 1. Injection well shall be completed, equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.**
- 2. The application for an injection well shall include a properly completed Form DOGM-UIC-1 and the following:**

- 2.1 A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed wells, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.**

See Attachments A and B.

- 2.2 Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper and porosity.**

All logs are on file with the Utah Division of Oil, Gas and Mining.

- 2.3 A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.**

A copy of the cement bond log is on file with the Utah Division of Oil, Gas and Mining.

- 2.4 Copies of logs already on file with the Division should be referenced, but need not be refiled.**

All copies of logs are on file with the Utah Division of Oil, Gas and Mining.

- 2.5 A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.**

The casing program is 8-5/8", 24# surface casing run to 320' KB, and 5-1/2", 15.5# casing run from surface to 6104' 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 2043 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 #16-8-9-16, for existing perforations (4472' - 5732') calculates at 0.80 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 2043 psig. We may add additional perforations between 3693' and 6125'. 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 #16-8-9-16, the proposed injection zone (4018' - 6065') 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-12.

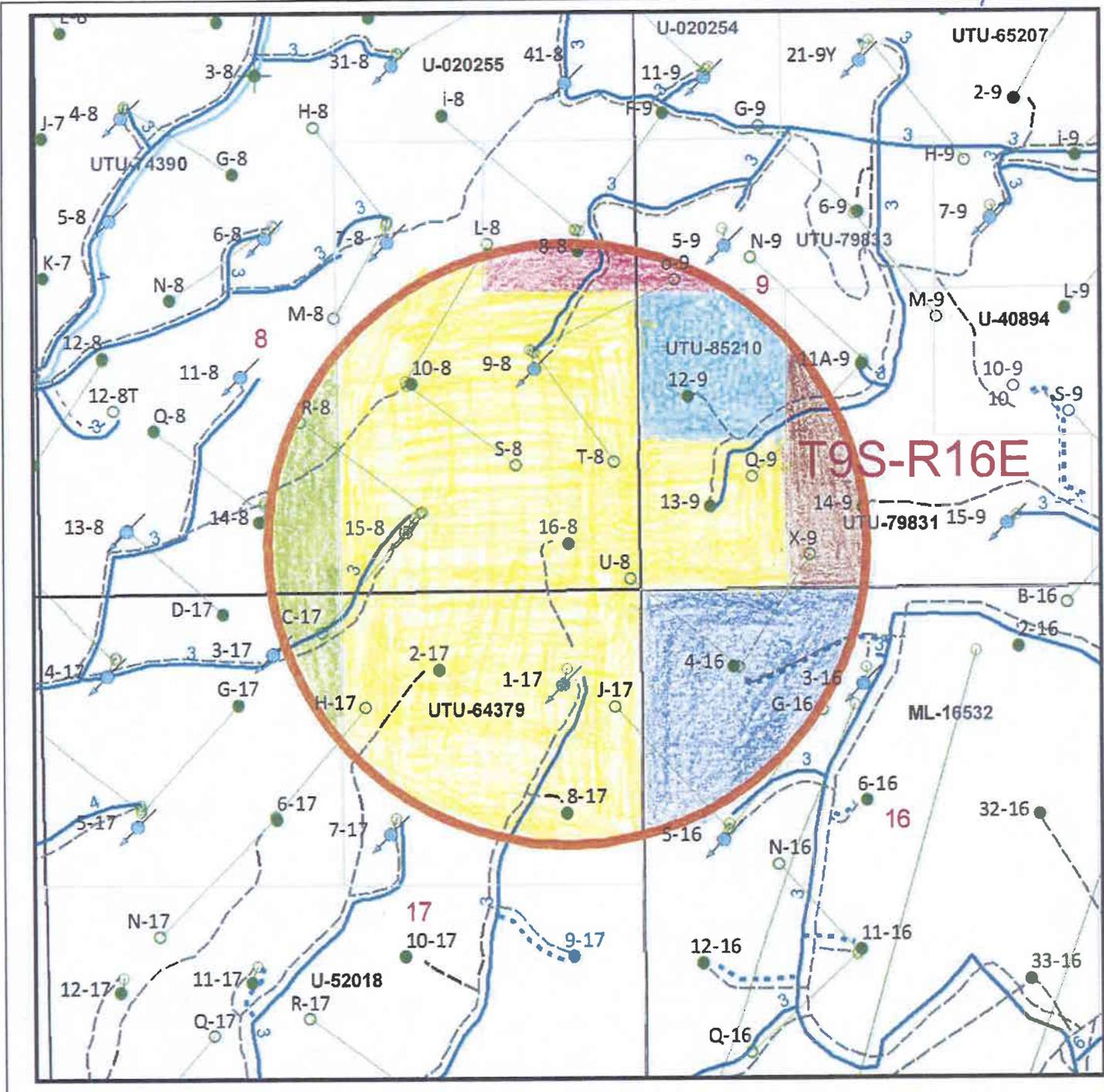
Additionally, the injection system will be equipped with high and low pressure shut down devices that will automatically shut in injection waters if a system blockage or leakage occurs. One way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure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

**2.11 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.



**WellStatus\_HalfMile\_Buffer**

**Well Status**

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

**Injection system**

- high pressure
- low pressure
- proposed
- return
- return proposed
- Leases
- Mining tracts

UTU-64379

UTU-74390

UTU-79833

UTU-85210

UTU-85510

UTU-79831

ML-16532

Federal 16-8  
Section 8, T9S-R16E

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

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

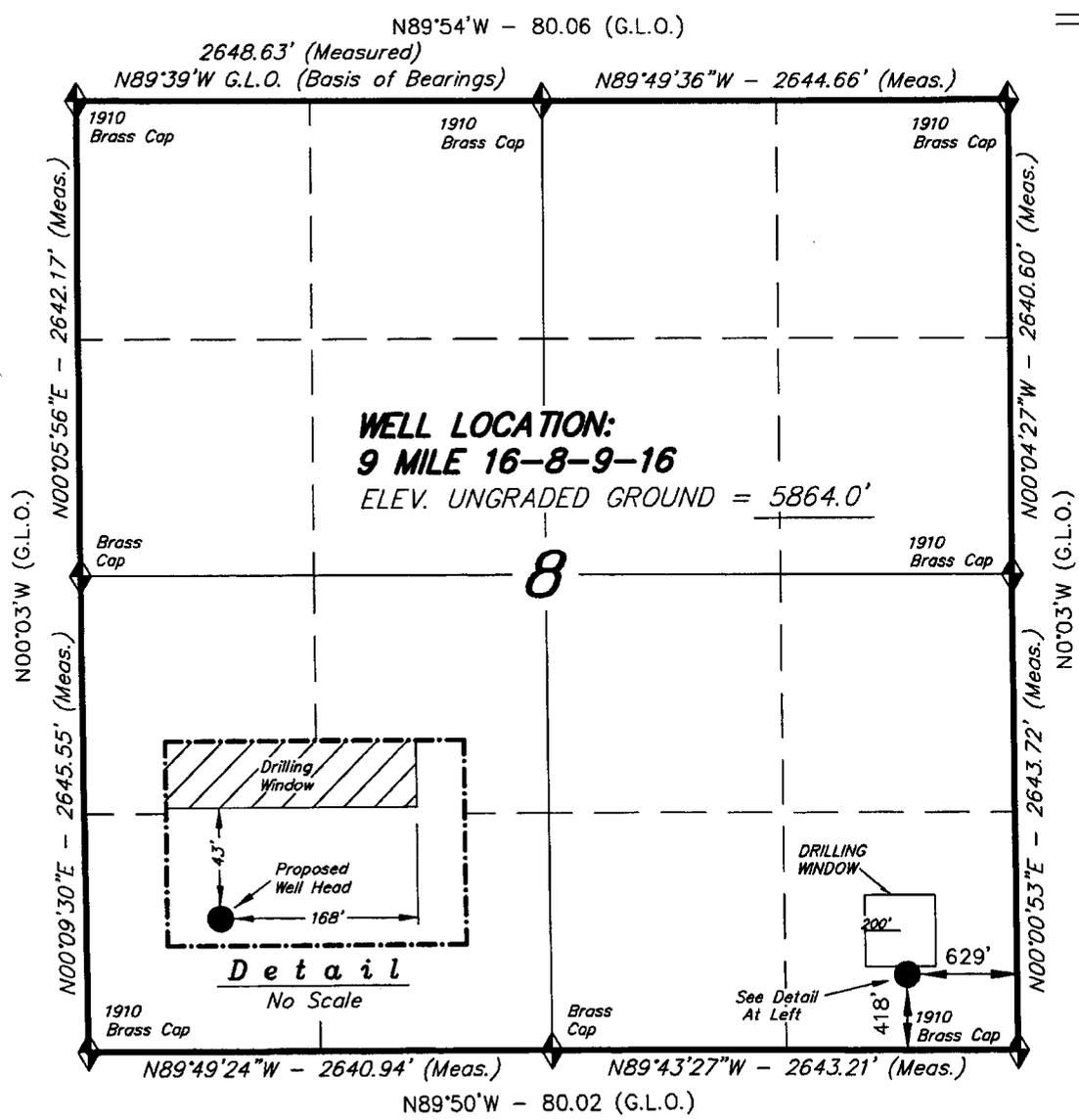
1001 17th Street Suite 2000  
Denver, Colorado 80202  
Phone: (303) 893-0102

March 27, 2013

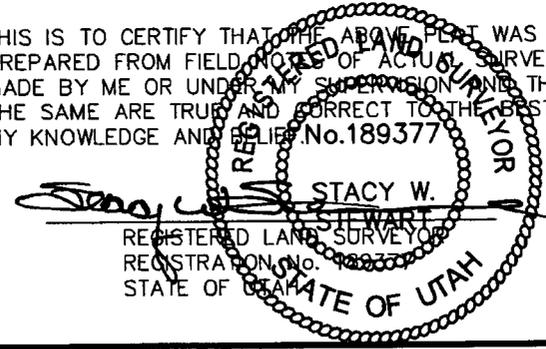
## T9S, R16E, S.L.B.&M.

### NEWFIELD PRODUCTION COMPANY

WELL LOCATION, 9 MILE 16-8-9-16,  
 LOCATED AS SHOWN IN THE SE 1/4 SE  
 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



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

**9 MILE 16-8-9-16**  
 (Surface Location) NAD 83  
 LATITUDE = 40° 02' 21.46"  
 LONGITUDE = 110° 08' 09.64"

<b>TRI STATE LAND SURVEYING &amp; CONSULTING</b> 180 NORTH VERNAL AVE. - VERNAL, UTAH 84078 (435) 781-2501	
DATE SURVEYED: 12-12-05	SURVEYED BY: C.M.
DATE DRAWN: 1-03-06	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: 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
2	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
3	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
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-616E SLM  
Section 16: All

State of Utah  
ML 16532  
HBP

Newfield RMI LLC  
QEP Energy Company  
El Paso E&P Company LP  
American Petroleum Corp  
Brave River Production  
Trans Republic Resources Inc

State of Utah

ATTACHMENT C

CERTIFICATION FOR SURFACE OWNER NOTIFICATION

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

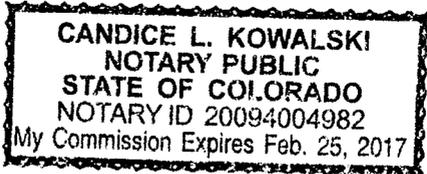
I hereby certify that a copy of the injection application has been provided to all surface owners within a one-half mile radius of the proposed injection well.

Signed:   
Newfield Production Company  
Eric Sundberg  
Environmental Manager

Sworn to and subscribed before me this 11<sup>th</sup> day of April, 2013.

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

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



## Federal 16-8-9-16

Spud Date: 02/06/07  
 Put on Production: 03/21/07  
 K.B.: 5876, G.L.: 5864

Initial Production: BOPD,  
 MCFD, BWPD

Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (308.18')  
 DEPTH LANDED: 320.03' 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: 138 jts. (6054.21')  
 DEPTH LANDED: 6104.47' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 301 sxs Prem. Lite II mixed & 449 sxs 50/50 POZ.

### TUBING

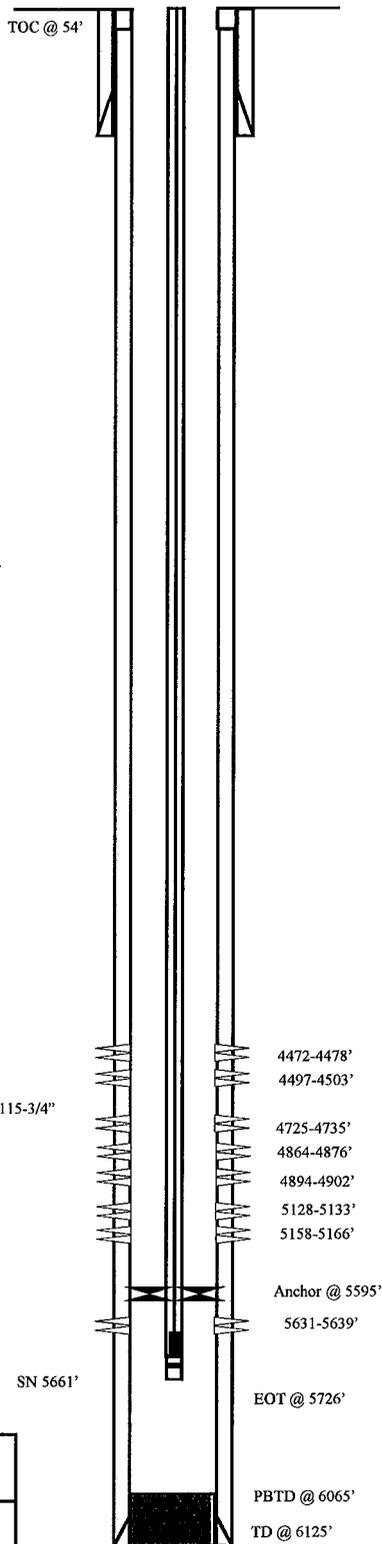
SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 177 jts (5583.61')  
 TUBING ANCHOR: 5595.61' KB  
 NO. OF JOINTS: jts (63.06')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5661.42' KB  
 NO. OF JOINTS: 2 jts (63.12')  
 TOTAL STRING LENGTH: EOT @ 5726.09' KB

### SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM  
 SUCKER RODS: 1-8", 1-4'1-2' x 3/4" pony rod, 94-3/4" guided rods, 115-3/4" plain rods, 10-3/4" scraped rods, 6-1 1/2" weight rods.  
 PUMP SIZE: 2-1/2" x 1-1/2" x 14.5' RHAC w/SM plunger  
 STROKE LENGTH: 86"  
 PUMP SPEED, 5 SPM:

### FRAC JOB

03/13/07	5627-5732'	<b>Frac CP2, sands as follows:</b> 26883# 20/40 sand in 357 bbls Lightning 17 frac fluid. Treated @ avg press of 2479 psi w/avg rate of 25.2 BPM. ISIP 2080 psi. Calc flush: 5730 gal. Actual flush: 5124 gal.
03/13/07	5128-5166'	<b>Frac A3 sands as follows:</b> 24821# 20/40 sand in 347bbls Lightning 17 frac fluid. Treated @ avg press of 2094psi w/avg rate of 25.2 BPM. ISIP 2080 psi. Calc flush: 5164 gal. Actual flush: 4624 gal.
03/13/07	4864-4902'	<b>Frac C sands as follows:</b> 95479# 20/40 sand in 684 bbls Lightning 17 frac fluid. Treated @ avg press of 1795 psi w/avg rate of 25.2 BPM. ISIP 2133 psi. Calc flush: 4900 gal. Actual flush: 4364 gal.
03/13/07	4725-4735'	<b>Frac D1 sands as follows:</b> 45323# 20/40 sand in 377 bbls Lightning 17 frac fluid. Treated @ avg press of 1834 psi w/avg rate of 25.2 BPM. ISIP 2100 psi. Calc flush: 4733 gal. Actual flush: 4204 gal.
03/13/07	4472-4503'	<b>Frac PB10, PB11 sands as follows:</b> 22086# 20/40 sand in 270 bbls Lightning 17 frac fluid. Treated @ avg press of 2550 psi w/avg rate of 25.3 BPM. ISIP 2425 psi. Calc flush: 4501 gal. Actual flush: 4368 gal.



### PERFORATION RECORD

Date	Interval	Perforations	Holes
03/01/07	5631-5639'	4 JSPF	32 holes
03/13/07	5158-5166'	4 JSPF	32 holes
03/13/07	5128-5133'	4 JSPF	20 holes
03/13/07	4894-4902'	4 JSPF	32 holes
03/13/07	4864-4876'	4 JSPF	48 holes
03/13/07	4725-4735'	4 JSPF	40 holes
03/13/07	4497-4503'	4 JSPF	24 holes
03/13/07	4472-4478'	4 JSPF	24 holes

**NEWFIELD**

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

418' FSL & 629' FEL

SE/SE Section 8-T9S-R16E

Duchesne Co, Utah

API #43-013-33061; Lease #UTU-64379

## 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: 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'

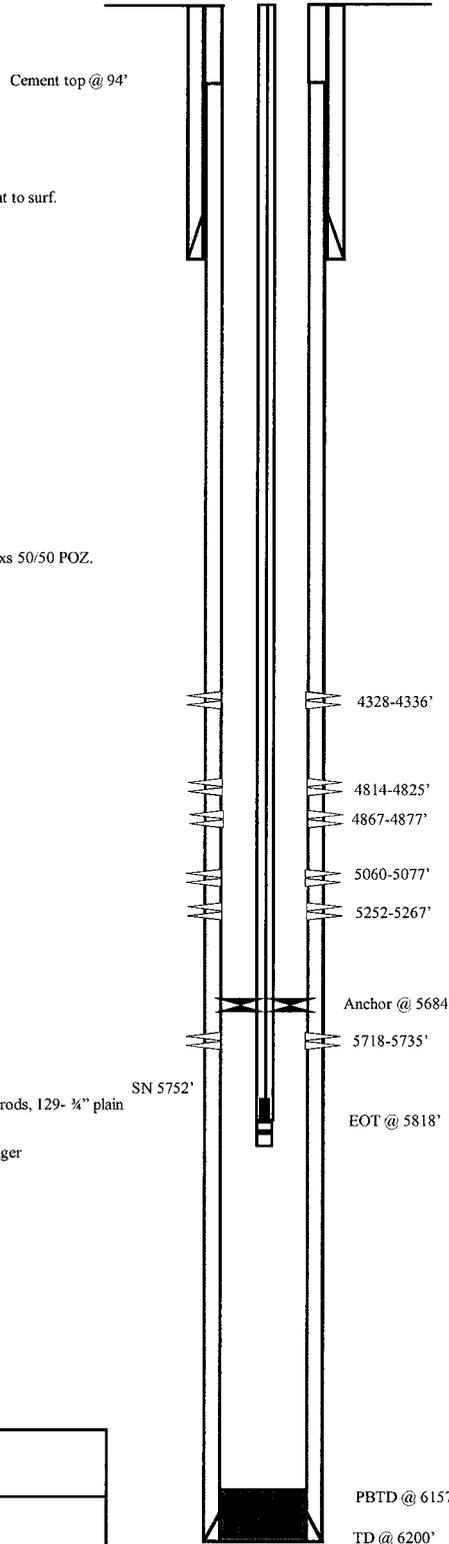
### TUBING

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

### 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



Initial Production: BOPD,  
MCFD, BWPD

### 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



**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

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

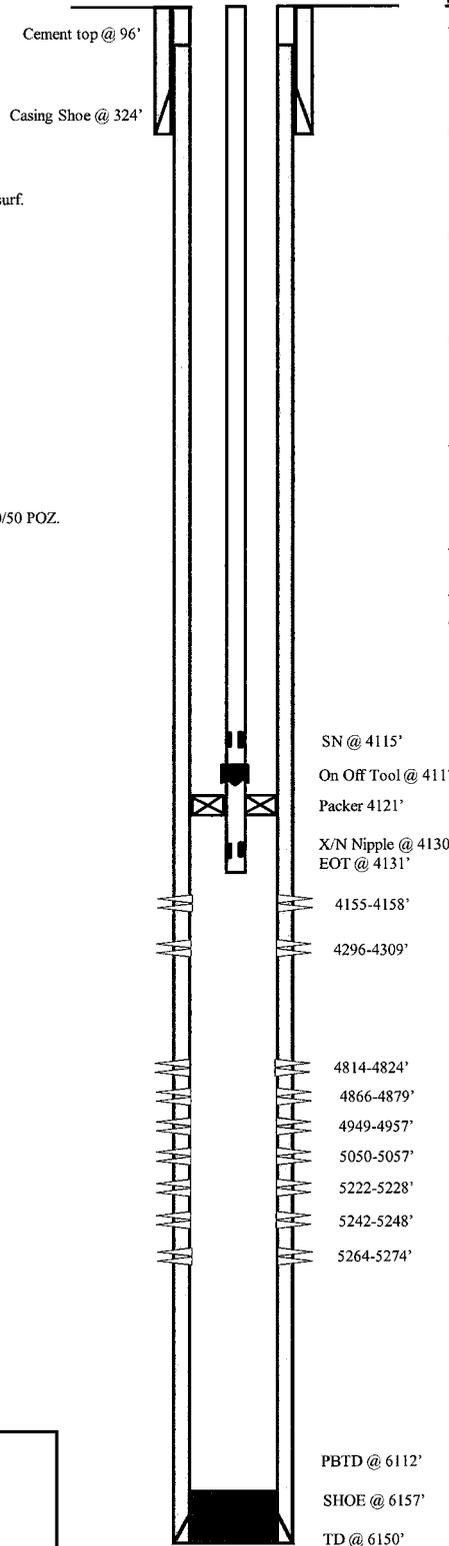
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (312.93')  
 DEPTH LANDED: 323.83' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf.

#### 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: 133 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 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'

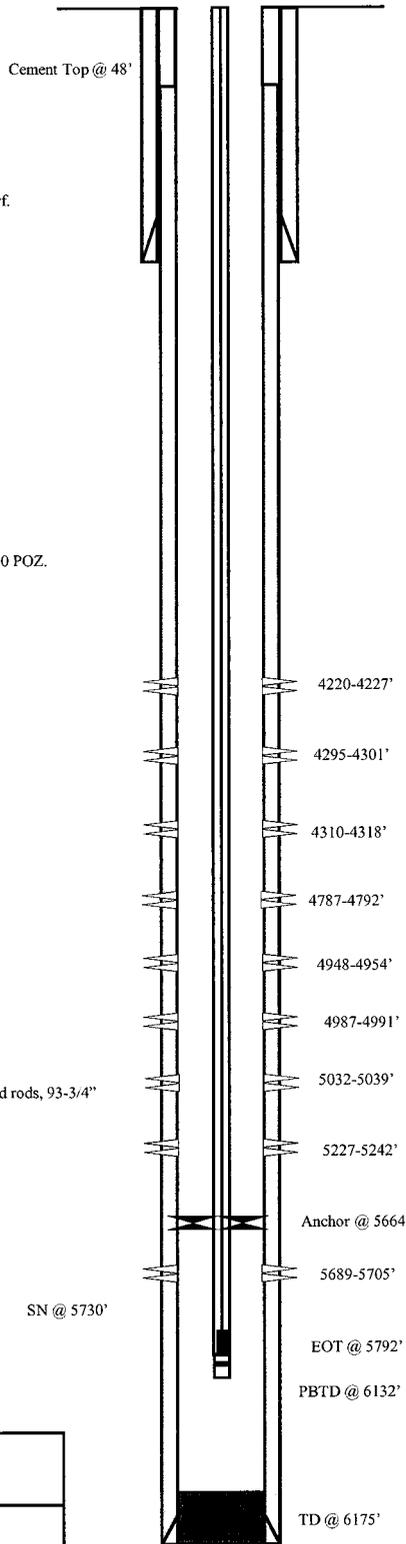
### TUBING

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

03/14/07	5689-5705'	<b>Frac C P1 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.
4220-4227'	2/22/08	Pump change. Updated rod & tubing details.
	3/23/09	Pump change. Updated r & t details.
4295-4301'	10/8/09	Parted rods. Updated rod & tubing details.
	1/23/2010	Tubing Leak. Update rod and tubing details.

### PERFORATION RECORD

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

## Federal 15-8-9-16

Spud Date: 01/11/07  
 Put on Production: 03/09/07  
 K.B.: 5934, G.L.: 5922

### Injection Wellbore Diagram

#### SURFACE CASING

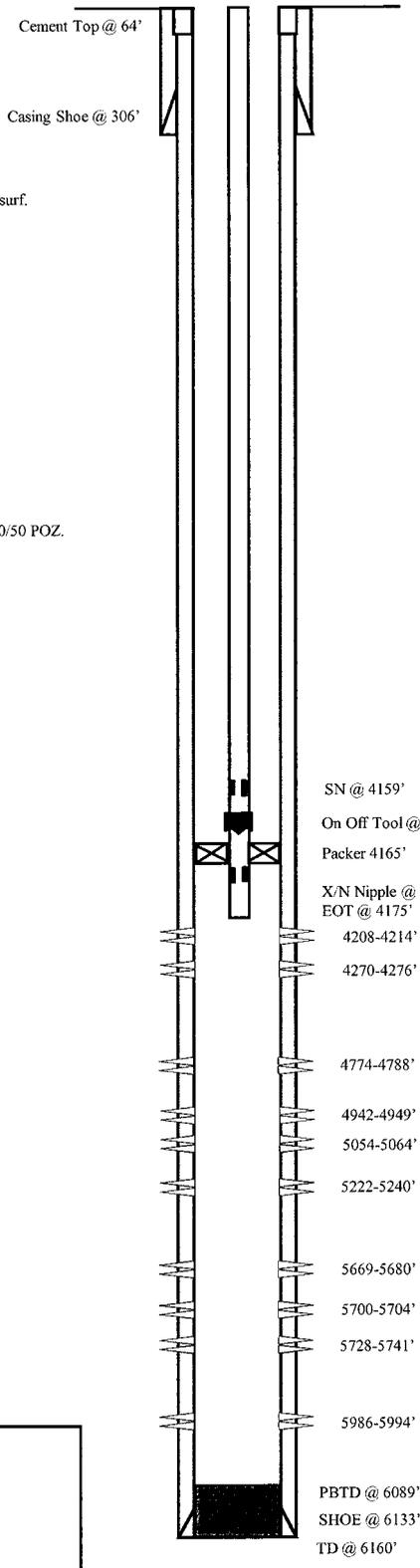
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (294.01')  
 DEPTH LANDED: 305.86' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt. est 5 bbls cmt to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 139 jts. (6120.05')  
 DEPTH LANDED: 6133.30' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
 CEMENT TOP: 64'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 131 jts (4146.8')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4158.8' KB  
 ON/OFF TOOL AT: 4159.9'  
 ARROW #1 PACKER CE AT: 4165.1'  
 XO 2-3/8 x 2-7/8 J-55 AT: 4168.8'  
 TBG PUP 2-3/8 J-55 AT: 4169.4'  
 X/N NIPPLE AT: 4173.5'  
 TOTAL STRING LENGTH: EOT @ 4175'



#### FRAC JOB

03/02/07 5986-5994' **Frac CP5 sands as follows:**  
 20494# 20/40 sand in 312 bbls Lightning 17 frac fluid. Treated @ avg press of 2232 psi w/avg rate of 24.9 BPM. ISIP 2044 psi. Calc flush: 5992 gal. Actual flush: 5477 gal.

03/02/07 5669-5741' **Frac CP1,CP2 sands as follows:**  
 80764# 20/40 sand in 604 bbls Lightning 17 frac fluid. Treated @ avg press of 1494 psi w/avg rate of 24.8 BPM. ISIP 1909 psi. Calc flush: 5739 gal. Actual flush: 5124 gal.

03/02/07 5222-5240' **Frac A1 sands as follows:**  
 161764# 20/40 sand in 1071 bbls Lightning 17 frac fluid. Treated @ avg press of 1500 psi w/avg rate of 24.9 BPM. ISIP 1944 psi. Calc flush: 5238 gal. Actual flush: 5250 gal.

03/05/07 5054-5064' **Frac B2 sands as follows:**  
 29798# 20/40 sand in 385 bbls Lightning 17 frac fluid. Treated @ avg press of 1628 psi w/avg rate of 25.2 BPM. ISIP 1839 psi. Calc flush: 5062 gal. Actual flush: 4578 gal.

03/06/07 4942-4949' **Frac C sands as follows:**  
 29152# 20/40 sand in 371 bbls Lightning 17 frac fluid. Treated @ avg press of 2111 psi w/avg rate of 24.9 BPM. ISIP 1839psi. Calc flush: 4947 gal. Actual flush: 4452 gal.

03/06/07 4774-4788' **Frac D1 sands as follows:**  
 79970# 20/40 sand in 595 bbls Lightning 17 frac fluid. Treated @ avg press of 1620 psi w/avg rate of 25.1 BPM. ISIP 2065 psi. Calc flush: 4786 gal. Actual flush: 4242 gal.

03/06/07 4208-4276' **Frac GB2, GB4 sands as follows:**  
 42220# 20/40 sand in 360 bbls Lightning 17 frac fluid. Treated @ avg press of 2038 psi w/avg rate of 24.9 BPM. ISIP 1970 psi. Calc flush: 4274 gal. Actual flush: 4116 gal.

2/24/09 **Pump Change.** Updated rod & tubing details.  
 11/25/09 **Parted rods.** Updated rod and tubing detail  
 9/7/2010 **Parted rods.** Updated rod and tubing detail.  
 10/1/2010 **Pump change.** Updated rod and tubing detail.  
 10/19/12 **Convert to Injection Well**

10/22/12 **Conversion MIT Finalized** - update tbg detail

#### PERFORATION RECORD

Date	Interval	Tool	Holes
02/21/07	5986-5994'	4 JSPF	32 holes
03/02/07	5728-5741'	4 JSPF	52 holes
03/02/07	5700-5704'	4 JSPF	16 holes
03/02/07	5669-5680'	4 JSPF	44 holes
03/02/07	5222-5240'	4 JSPF	72 holes
03/02/07	5054-5064'	4 JSPF	40 holes
03/05/07	4942-4949'	4 JSPF	28 holes
03/06/07	4774-4788'	4 JSPF	56 holes
03/06/07	4270-4276'	4 JSPF	24 holes
03/06/07	4208-4214'	4 JSPF	24 holes



**Federal 15-8-9-16**  
 703' FSL & 1952' FEL  
 SW/SE Section 8-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33060; Lease #UTU-64379

## Federal 12-9-9-16

Spud Date: 07/26/2009  
Put on Production: 08/28/2009

GL: 5827' KB: 5839'

### 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'

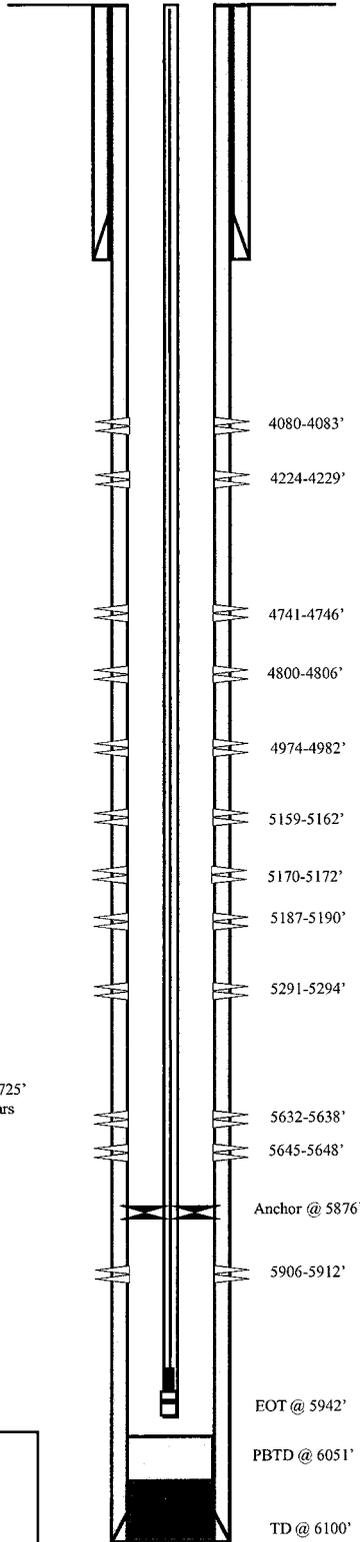
### TUBING

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

Wellbore Diagram



### 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 CPI 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'

### 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

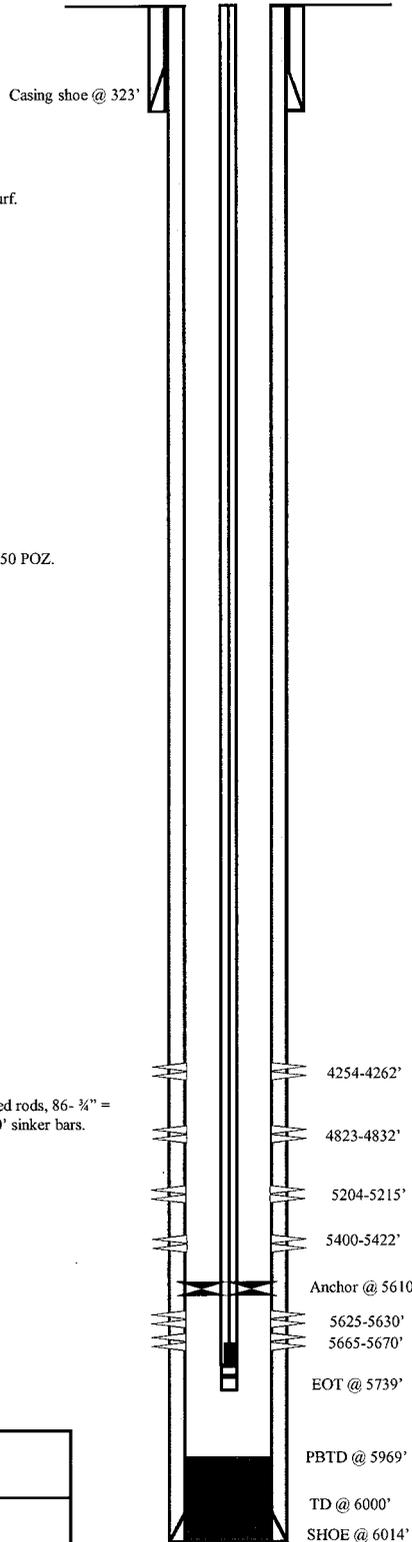
### TUBING

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 3/4" = 4' pony rod, 89- 3/4" = 2250' guided rods, 86- 3/4" = 2150' sucker rods, 44- 3/4" = 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

### Wellbore Diagram



Initial Production: 63 BOPD,  
11 MCFD, 56 BWPD

### 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 14-9-9-16

Spud Date: 03/20/07  
 Put on Production: 05/15/07  
 GL: 5814' KB: 5826'

### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7jts (311.85')  
 DEPTH LANDED: 321.85'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160sxs Class "G", circ. 5 bbls to surf.

#### PRODUCTION CASING

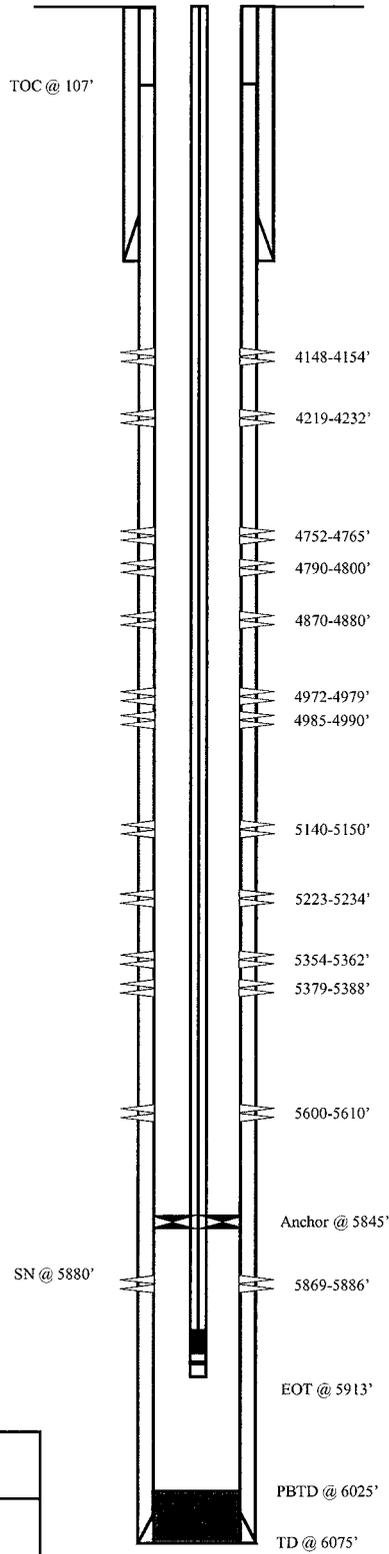
CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 137jts (6072.44')  
 DEPTH LANDED: 6070.44'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Premlite II & 450 sxs 50/50 POZ.  
 CEMENT TOP: 103' per CBL 4/18/07

#### TUBING (KS 11/28/12)

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 185jts (5833.4')  
 TUBING ANCHOR: 5845.4'  
 NO. OF JOINTS: 1jt (31.6')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5879.8'  
 NO. OF JOINTS: 1jt (31.6')  
 NOTCHED COLLAR: 2-7/8" (0.5')  
 TOTAL STRING LENGTH: EOT @ 5913'

#### SUCKER RODS (KS 11/28/12)

POLISHED ROD: 26' x 1-1/2" Polished Rod  
 SUCKER RODS: 99 x 3/4" 4per Guided Rods, 111 x 3/4" Sucker Rods, 18 x 3/4" 4per Guided Rods, 6 x 1-1/2" Sinker Bars  
 PUMP SIZE: CDI 2-1/2" x 1-1/2" x 12' x 16' RHAC  
 STROKE LENGTH: 86"  
 PUMP SPEED, SPM: 3.9  
 PUMPING UNIT: AMERICAN C-228-246-86



#### FRAC JOB

05/07/07	5869-5886'	<b>Frac CP4 sands as follows:</b> 58920# 20/40 sand in 518 bbls Lightning 17 frac fluid.
05/07/07	5600-5610'	<b>Frac CP1 sands as follows:</b> 24630# 20/40 sand in 362 bbls Lightning 17 frac fluid.
05/08/07	5354-5388'	<b>Frac LODC sands as follows:</b> 59848# 20/40 sand in 500 bbls Lightning 17 frac fluid.
05/08/07	5223-5234'	<b>Frac A3 sands as follows:</b> 29710# 20/40 sand in 343 bbls Lightning 17 frac fluid.
05/08/07	5140-5150'	<b>Frac A1 sands as follows:</b> 45023# 20/40 sand in 417 bbls Lightning 17 frac fluid.
05/08/07	4985-4990'	<b>Frac B2 sands as follows:</b> 49798# 20/40 sand in 438 bbls Lightning 17 frac fluid.
05/08/07	4870-4979	<b>Frac C sands as follows:</b> 19413# 20/40 sand in 293 bbls Lightning 17 frac fluid.
05/08/07	4752-4800	<b>Frac D3 &amp; D2 sands as follows:</b> 90249# 20/40 sand in 1959 bbls Lightning 17 frac fluid.
05/08/07	4148-4232	<b>Frac GB6 &amp; GB4 sands as follows:</b> 40824# 20/40 sand in 382 bbls Lightning 17 frac fluid.
05/23/08		updated rod and tubing detail
03/12/11		Parted Rods. Rod & tubing details updated

#### PERFORATION RECORD

04/18/07	5869-5886'	4 JSPF	68 holes
05/07/07	5600-5610'	4 JSPF	40holes
05/07/07	5379-5388'	4 JSPF	36 holes
05/08/07	5354-5362'	4 JSPF	32 holes
05/08/07	5223-5234'	4 JSPF	44 holes
05/08/07	5140-5150'	4 JSPF	40 holes
05/08/07	4985-4990'	4 JSPF	20 holes
05/08/07	4972-4979'	4 JSPF	28 holes
05/08/07	4870-4880'	4 JSPF	40 holes
05/08/07	4790-4800'	4 JSPF	40 holes
05/08/07	4752-4765'	4 JSPF	52 holes
05/08/07	4219-4232'	4 JSPF	52 holes
05/08/07	4148-4154'	4 JSPF	24 holes



**FEDERAL 14-9-9-16**  
 718' FSL & 1976' FWL  
 SE/SW Section 9-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33053; Lease # UTU-79831

## Federal 1-17-9-16

Spud Date: 9-13-06  
 Put on Production: 11-15-06  
 GL: 5878' KB: 5890'

### Injection Wellbore Diagram

#### SURFACE CASING

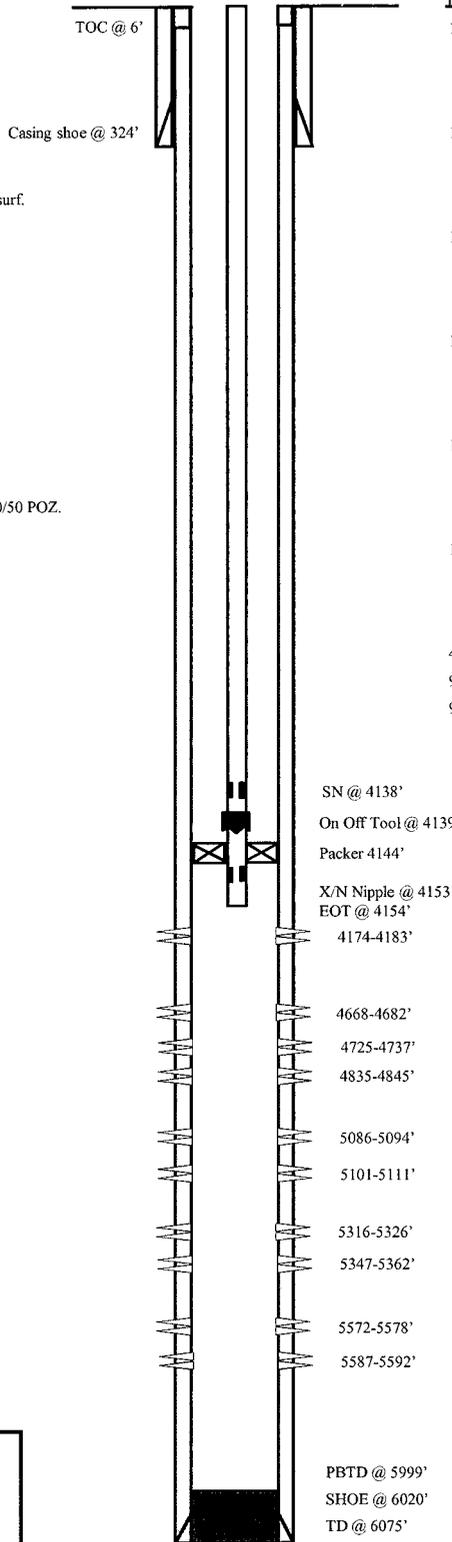
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (311.97')  
 DEPTH LANDED: 323.82' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 6 bbls cmt to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 137 jts. (6007.66')  
 DEPTH LANDED: 6020.91' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 350 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
 CEMENT TOP AT: 6'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 136 jts (4126.3')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4138.3' KB  
 ON/OFF TOOL AT: 4139.4'  
 SEAL NIPPLE AT: 4140.8'  
 ARROW #1 PACKER CE AT: 4144.47'  
 XO 2-3/8 x 2-7/8 J-55 AT 4148.1'  
 TBG PUP 2-3/8 N-80 AT: 4148.6'  
 X/N NIPPLE AT: 4152.6'  
 TOTAL STRING LENGTH: EOT @ 4154'



#### FRAC JOB

11-07-06	5572-5592'	<b>Frac CP1 sands as follows:</b> 25276# 20/40 sand in 354 bbls Lightning 17 frac fluid. Treated @ avg press of 2000 psi w/avg rate of 25.5 BPM. ISIP 2000 psi. Calc flush: 5107 gal. Actual flush: 5570 gal.
11-07-06	5316-5362'	<b>Frac L.ODC sands as follows:</b> 140563# 20/40 sand in 964 bbls Lightning 17 frac fluid. Treated @ avg press of 2425 psi w/avg rate of 25 BPM. ISIP 2450 psi. Calc flush: 4809 gal. Actual flush: 5314 gal.
11-08-06	5086-5111'	<b>Frac A 1 sands as follows:</b> 90538# 20/40 sand in 724 bbls Lightning 17 frac fluid. Treated @ avg press of psi w/avg rate of BPM. ISIP 2190 psi. Calc flush: 4578 gal. Actual flush: 5084 gal.
11-08-06	4835-4845'	<b>Frac C sands as follows:</b> 30222# 20/40 sand in 404 bbls Lightning 17 frac fluid. Treated @ avg press of 2105 w/ avg rate of 25.5 BPM. ISIP 2060 psi. Calc flush: 4368 gal. Actual flush: 4833 gal.
11-08-06	4668-4737'	<b>Frac D1, &amp; D2 sands as follows:</b> 80170# 20/40 sand in 587 bbls Lightning 17 frac fluid. Treated @ avg press of 1932 w/ avg rate of 25.5 BPM. ISIP 2090 psi. Calc flush: 4162 gal. Actual flush: 4666 gal.
11-08-06	4174-4183'	<b>Frac GB4 sands as follows:</b> 27661# 20/40 sand in 296 bbls Lightning 17 frac fluid. Treated @ avg press of 1800 w/ avg rate of 25.3 BPM. ISIP 1818 psi. Calc flush: 4032 gal. Actual flush: 4172 gal.
4/13/11		<b>Tubing leak.</b> Updated rod & tubing detail.
9/14/12		<b>Convert to Injection well</b>
9/18/12		<b>Conversion MIT Finalized</b> – update tbg detail

#### PERFORATION RECORD

11-01-06	5587-5592'	4 JSPF	20 holes
11-01-06	5572-5578'	4 JSPF	24 holes
11-07-06	5347-5362'	4 JSPF	60 holes
11-07-06	5316-5326'	4 JSPF	40 holes
11-07-06	5101-5111'	4 JSPF	40 holes
11-07-06	5086-5094'	4 JSPF	32 holes
11-08-06	4835-4845'	4 JSPF	40 holes
11-08-06	4725-4737'	4 JSPF	48 holes
11-08-06	4668-4682'	4 JSPF	56 holes
11-08-06	4174-4183'	4 JSPF	36 holes

**NEWFIELD**

**Federal 1-17-9-16**

660' FNL & 660' FEL

NE/NE Section 17-T9S-R16E

Duchesne Co, Utah

API # 43-013-33028; Lease # UTU-64379

## Federal 2-17-9-16

Spud Date: 08/29/06  
Put on Production: 10/10/06

K.B.: 5898, G.L.: 5886

### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (311.30')  
DEPTH LANDED: 323.15' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G", circ. 3 bbls to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 138 jts. (6063.92')  
DEPTH LANDED: 6063.17' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 325 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ  
CEMENT TOP AT: 140' per CBL 9/30/06

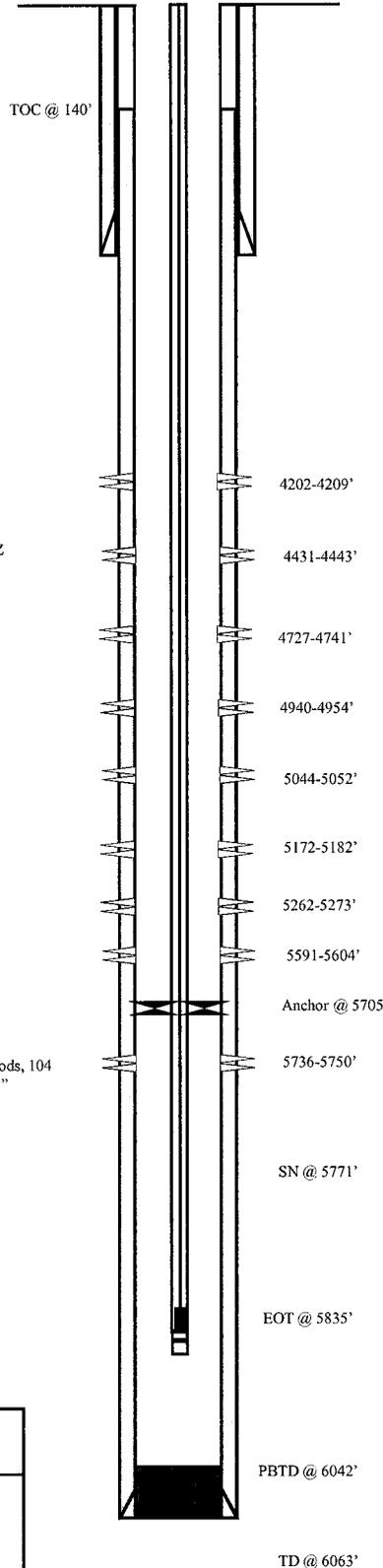
### TUBING (GI 3/19/08)

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 180 jts (5692.6')  
TUBING ANCHOR: 5704.6' KB  
NO. OF JOINTS: 2 jts (63.23')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5770.63' KB  
NO. OF JOINTS: 2 jts (63.21')  
NOTCHED COLLAR: 2-7/8" (0.45')  
TOTAL STRING LENGTH: EOT @ 5835.39' KB

### SUCKER RODS (GI 5/9/11)

POLISHED ROD: 1-1/2" x 26' SM  
SUCKER RODS: 4', 4', 4', 6', 8' x 3/4" pony rods, 99 x 3/4" guided rods, 104 x 3/4" sucker rods, 20 x 3/4" guided rods, 6 x 1-1/2" weight rods, 4' x 1" Stabilizer rod  
PUMP SIZE: 2-1/2" x 1-1/4" x 14' x 16' RHAC  
STROKE LENGTH: 86"  
PUMP SPEED, SPM: 4  
PUMPING UNIT: DARCO C-228-213-86

### Wellbore Diagram



### FRAC JOB

10/03/06	5736-5750'	<b>Frac CP3, sands as follows:</b> 29681# 20/40 sand in 375 bbls Lightning 17 frac fluid. Treated @ avg press of 2184 psi w/avg rate of 24.9 BPM. ISIP 2000 psi. Calc flush: 5748 gal. Actual flush: 5250 gal.
10/03/06	5591-5604'	<b>Frac CP1 sands as follows:</b> 34101# 20/40 sand in 395 bbls Lightning 17 frac fluid. Treated @ avg press of 2194 psi w/avg rate of 24.6 BPM. ISIP 2050 psi. Calc flush: 5602 gal. Actual flush: gal.
10/03/06	5262-5273'	<b>Frac LODC sands as follows:</b> 49346# 20/40 sand 429 bbls Lightning 17 frac fluid. Treated @ avg press of 2882 psi w/avg rate of 24.6 BPM. ISIP 2700 psi. Calc flush: 5271 gal. Actual flush: 4788 gal.
10/03/06	5172-5182'	<b>Frac A3 sands as follows:</b> 29420# 20/40 sand in 358 bbls Lightning 17 frac fluid. Treated @ avg press of 2296 psi w/avg rate of 24.7 BPM. ISIP 2150 psi. Calc flush: 5180 gal. Actual flush: 4662 gal.
10/04/06	5044-5052'	<b>Frac A1 sands as follows:</b> 34720# 20/40 sand in 386 bbls Lightning 17 frac fluid. Treated @ avg press of 2198 psi w/avg rate of 24.8 BPM. ISIP 2600 psi. Calc flush: 5050 gal. Actual flush: 4578 gal.
10/04/06	4940-4954'	<b>Frac B2 sands as follows:</b> 59969# 20/40 sand in 475 bbls Lightning 17 frac fluid. Treated @ avg press of 1792 psi w/avg rate of 24.9 BPM. ISIP 1900 psi. Calc flush: 4952 gal. Actual flush: 4368 gal.
10/04/06	4727-4741'	<b>Frac D2 sands as follows:</b> 34580# 20/40 sand in 374 bbls Lightning 17 frac fluid. Treated @ avg press of 1871 psi w/avg rate of 24.9 BPM. ISIP 2050 psi. Calc flush: 4739 gal. Actual flush: 4242 gal.
10/04/06	4431-4443'	<b>Frac PB10 sands as follows:</b> 50316# 20/40 sand in 406 bbls Lightning 17 frac fluid. Treated @ avg press of 2487 psi w/avg rate of 24.7 BPM. ISIP 2650 psi. Calc flush: 4441 gal. Actual flush: 3948 gal.
10/04/06	4202-4209'	<b>Frac GB6 sands as follows:</b> 31683# 20/40 sand in 336 bbls Lightning 17 frac fluid. Treated @ avg press of 2175 psi w/avg rate of 24.9 BPM. ISIP 2200 psi. Calc flush: 4207 gal. Actual flush: 4074 gal.
05/20/11		Pump Change. Rod & tubing details updated.

### PERFORATION RECORD

09/29/06	5736-5750'	4 JSPF	56 holes
10/03/06	5591-5604'	4 JSPF	52 holes
10/03/06	5262-5273'	4 JSPF	44 holes
10/03/06	5172-5182'	4 JSPF	40 holes
10/03/06	5044-5052'	4 JSPF	32 holes
10/04/06	4940-4954'	4 JSPF	56 holes
10/04/06	4727-4741'	4 JSPF	56 holes
10/04/06	4431-4443'	4 JSPF	48 holes
10/04/06	4202-4209'	4 JSPF	28 holes



**Federal 2-17-9-16**  
669' FNL & 1785' FEL  
NW/NE Section 17-T9S-R16E  
Duchesne Co, Utah  
API #43-013-33029; Lease #UTU-64379

## Federal 8-17-9-16

Spud Date: 09/12/06  
 Put on Production: 11/09/06  
 K.B.: 5918, G.L.: 5906

Initial Production: BOPD,  
 MCFD, BWPD

### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (311.03')  
 DEPTH LANDED: 323.45' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 7 bbls cmt to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 137 jts. (6032.95')  
 DEPTH LANDED: 6046.20' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 325 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
 CEMENT TOP: 10'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 164 jts (5260.26')  
 TUBING ANCHOR: 5272.26' KB  
 NO. OF JOINTS: 1 jts (32.50')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5307.56' KB  
 NO. OF JOINTS: 2 jts (66.03')  
 TOTAL STRING LENGTH: EOT @ 5375.14' KB

#### SUCKER RODS

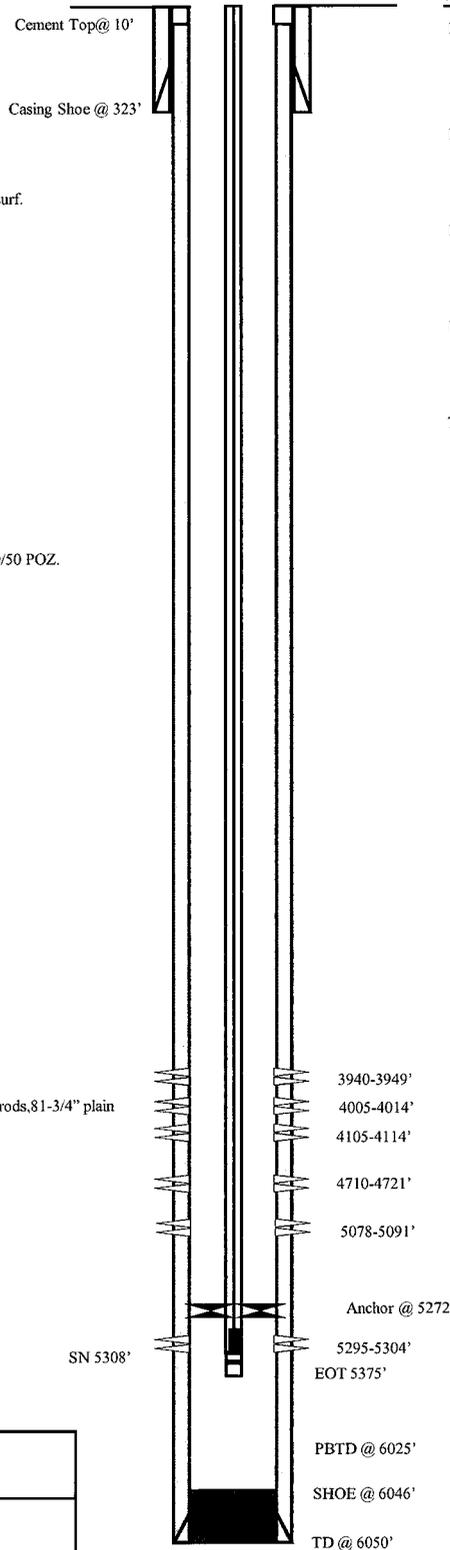
POLISHED ROD: 1-1/2" x 22' SM  
 SUCKER RODS: 1-8", 2-4' x 3/4" pony rod, 92-3/4" guided rods, 81-3/4" plain rods, 30-3/4" scraped rods, 6-1 1/2" weight rods.  
 PUMP SIZE: 2-1/2" x 1-1/2" x 14" RHAC w/SM plunger  
 STROKE LENGTH: 84"  
 PUMP SPEED, 5 SPM:

#### FRAC JOB

11/06/06	5295-5304'	<b>Frac LODC sands as follows:</b> 30252# 20/40 sand in 392 bbls Lightning 17 frac fluid. Treated @ avg press of 3045 psi w/avg rate of 24.9 BPM. ISIP 2580 psi. Calc flush: 5302 gal. Actual flush: 4767 gal.
11/06/06	4710-4721'	<b>Frac C sands as follows:</b> 41525# 20/40 sand in 417bbls Lightning 17 frac fluid. Treated @ avg press of 1996 psi w/avg rate of 25.1BPM. ISIP 1960 psi. Calc flush: 4719 gal. Actual flush: 4204 gal.
11/06/06	4105-4114'	<b>Frac GB4 sands as follows:</b> 21385# 20/40 sand in 280 bbls Lightning 17 frac fluid. Treated @ avg press of 1809 psi w/avg rate of 25.8 BPM. ISIP 1610 psi. Calc flush: 4112 gal. Actual flush: 3637 gal.
11/06/06	3940-4014'	<b>Frac GB2 sands as follows:</b> 68288# 20/40 sand in 591 bbls Lightning 17 frac fluid. Treated @ avg press of 1782 psi w/avg rate of 25.3 BPM. ISIP 1505 psi. Calc flush: 4012 gal. Actual flush: 3822 gal.
7/23/08		HIT. Rod & tubing updated.

#### PERFORATION RECORD

10/25/06	5295-5304'	4 JSPF	36 holes
11/06/06	5078-5091'	4 JSPF	52 holes
11/06/06	4710-4721'	4 JSPF	44 holes
11/06/06	4105-4114'	4 JSPF	36 holes
11/06/06	3940-3949'	4 JSPF	36 holes





**Federal 8-17-9-16**  
 1944' FNL & 675' FEL  
 SE/NE Section 17-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33031; Lease #UTU-64379

## State 4-16-9-16

Spud Date: 4/1/08  
 Put on Production: 6/3/08  
 GL: 5881' KB: 5893'

### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7jts (300.96')  
 DEPTH LANDED: 312.81' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 1- 160. sxs Class "G" cmt, est 6 bbls cmt to surf.

#### PRODUCTION CASING

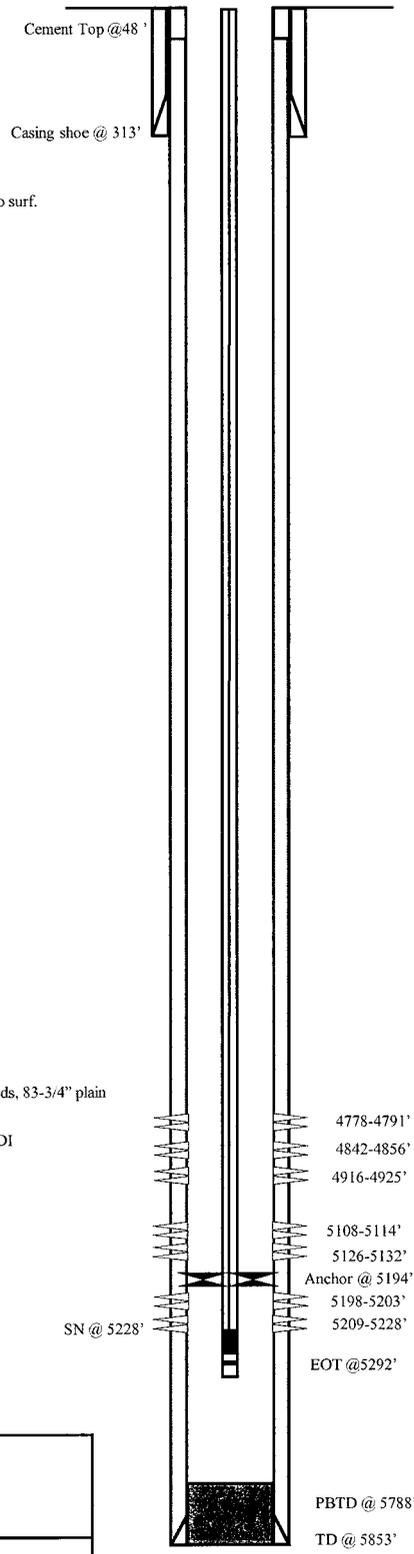
CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 158jts 5819.28  
 HOLE SIZE: 7-7/8"  
 DEPTH LANDED: 5832.53'  
 CEMENT DATA: 300 sx Premilite II and 400 sx 50/50 Poz  
 CEMENT TOP AT: 48'

#### TUBING

SIZE/GRADE/WT.: 2 7/8" J-55 /6.5#  
 NO. OF JOINTS: 175 jts 5182.02  
 TUBING ANCHOR: 5194.02'  
 NO. OF JOINTS: 1jt (31.52')  
 SEATING NIPPLE: 2 7/8"  
 SN LANDED AT: 5228.29'  
 NO. OF JOINTS: 2jts 62.47  
 TOTAL STRING LENGTH: EOT@ 5292.31'

#### SUCKER RODS

POLISHED ROD: 1 1/2" x 26' polished rod  
 SUCKER RODS: 1-2', 8' x 3/4" pony subs, 99-3/4" guided rods, 83-3/4" plain rods, 20-3/4" guided rods, 6-1 1/2" weight bars  
 PUMP SIZE: 2 1/2" x 1 1/2" x 12' x 15 1/2" RHAC rod pump CDI  
 STROKE LENGTH: 58  
 PUMP SPEED, SPM: 5



#### FRAC JOB

**05-28-08 5209-5228' Frac LODC sds as follows:**  
 200,061# 20/40 sand in 1373 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1997 psi w/ ave rate of 27.3 BPM. ISIP 2322 psi. Actual Flush: 4683 gals.

**05-28-08 5108-5114' Frac A1 & A3 sds as follows:**  
 120,424# 20/40 sand in 868 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1922 psi w/ ave rate of 27.0 BPM. ISIP 2220 psi. Actual Flush: 4616 gals.

**05-28-08 4916-4925' Frac B1 sds as follows:**  
 54,952# 20/40 sand in 495 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1767 psi w/ ave rate of 23.4 BPM. ISIP 1705 psi. Actual Flush: 4406 gals.

**05-28-08 4842-4856' Frac C sds as follows:**  
 115,003# 20/40 sand in 846 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1920 psi w/ ave rate of 23.5 BPM. ISIP 1926 psi. Actual Flush: 4330 gals.

**05-28-08 4778-4791' Frac D3 sds as follows:**  
 115,003# 20/40 sand in 846 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1920 psi w/ ave rate of 23.5 BPM. ISIP 1926 psi. Actual Flush: 4679 gals.

3/28/09 Pump Change. Updated r & t details.  
 6/5/09 Pump Change. Updated rod & tubing details.

#### PERFORATION RECORD

Depth Range	JSPF	Holes
4778-4791'	4 JSPF	52 holes
4842-4856'	4 JSPF	56 holes
4916-4925'	4 JSPF	36 holes
5108-5114'	4 JSPF	24 holes
5126-5132'	4 JSPF	24 holes
5198-5203'	4 JSPF	20 holes
5209-5228'	4 JSPF	76 holes

**NEWFIELD**



**State 4-16-9-16**  
 660' FNL & 815' FWL  
 NW/NW Section 16-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33848; Lease #Utah State ML-16532

## West Point #14-8-9-16

Spud Date: 12/13/2001  
 Put on Production: 1/15/2002  
 GL: 5959' KB: 5969'

Initial Production: 78 BOPD,  
 90 MCFD, 10 BWPD

Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 8 jts. (310.63')  
 DEPTH LANDED: 318.63'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 150 sxs Class "G" cmt, est 2 bbls cmt to surface.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 142 jts. (5957.29')  
 DEPTH LANDED: 5954.79'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 275 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
 CEMENT TOP AT: 1100' per CBL.

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 174 jts (5659.9')  
 TUBING ANCHOR: 5193.23'  
 NO. OF JOINTS: 2 jts (65.1')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5737.8'KB  
 NO. OF JOINTS: 1 jts (31.5')  
 TOTAL STRING LENGTH: EOT @ 5771'

### SUCKER RODS

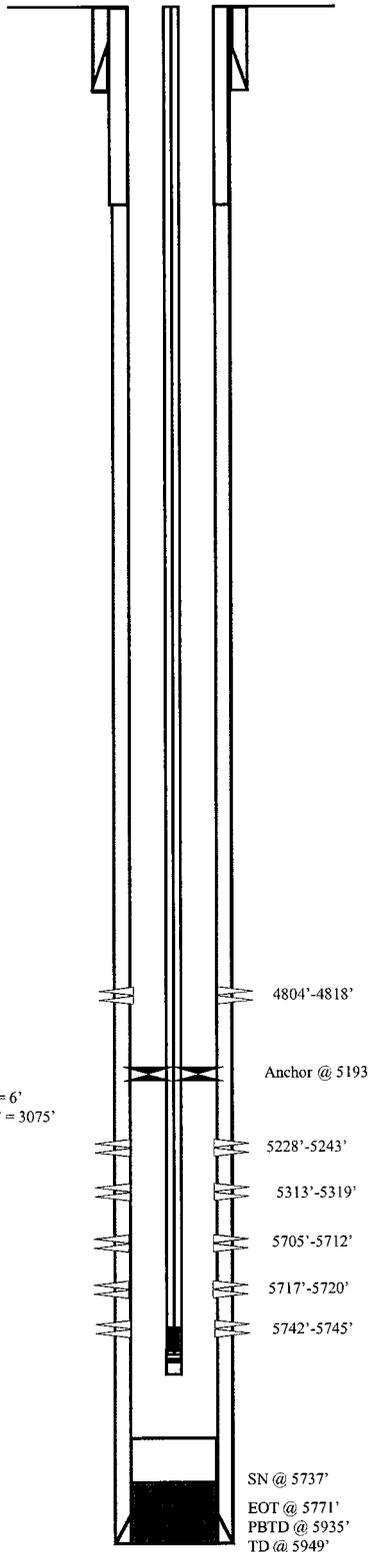
POLISHED ROD: 1-1/2" x 26' SM  
 SUCKER RODS: 1 x 3/4" = 2' pony rods, 1 x 3/4" = 4' pony rod, 1 x 3/4" = 6' pony rod, 1 x 3/4" = 8' pony rod, 89 x 3/4" = 2225' guided rods, 123 x 3/4" = 3075' guided rods, 10 x 3/4" = 250' guided rods, 6 x 1 1/2" = 150' weight bars  
 PUMP SIZE: 2-1/2" x 1-1/4" x 15' RHAC  
 STROKE LENGTH: "  
 PUMP SPEED, SPM: SPM

### FRAC JOB

1/10/02	5707'-5745'	<b>Frac CP-3 sand as follows:</b> 26,000# 20/40 sand in 297 bbls Viking I-25 fluid. Treated @ avg press of 1850 psi w/avg rate of 25 BPM. ISIP 1980 psi. Calc. flush: 5707 gal., Act. flush: 5628 gal.
1/10/02	5228'-5319'	<b>Frac A-3 sand as follows:</b> 60,000# 20/40 sand in 483 bbls Viking I-25 fluid. Treated @ avg press of 2300 psi w/avg rate of 25 BPM. ISIP 2085 psi. Calc. flush: 5228 gal., Act. flush: 5166 gal.
1/10/02	4804'-4818'	<b>Frac D-1 sand as follows:</b> 60,680# 20/40 sand in 486 bbls Viking I-25 fluid. Treated @ avg press of 1775 psi w/avg rate of 25 BPM. ISIP 2060 psi. Calc. flush: 4804 gal., Act. flush: 4707 gal.
07/11/06		Pump Change. Update rod and tubing details.
3/25/11		Pump Change. Updated rod & tubing details.
8/12/11		Pump Change. Updated rod & tubing details.

### PERFORATION RECORD

1/08/02	5742'-5745'	4 JSPF	12 holes
1/08/02	5717'-5720'	4 JSPF	12 holes
1/08/02	5705'-5712'	4 JSPF	20 holes
1/10/02	5313'-5319'	4 JSPF	24 holes
1/10/02	5228'-5243'	4 JSPF	60 holes
1/10/02	4804'-4818'	4 JSPF	56 holes





**West Point #14-8-9-16**  
 809' FSL & 1999' FWL  
 SESW Section 8-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-32288; Lease #UTU-74390

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

**Notes:**  
9:30

(PTB = Pounds per Thousand Barrels)

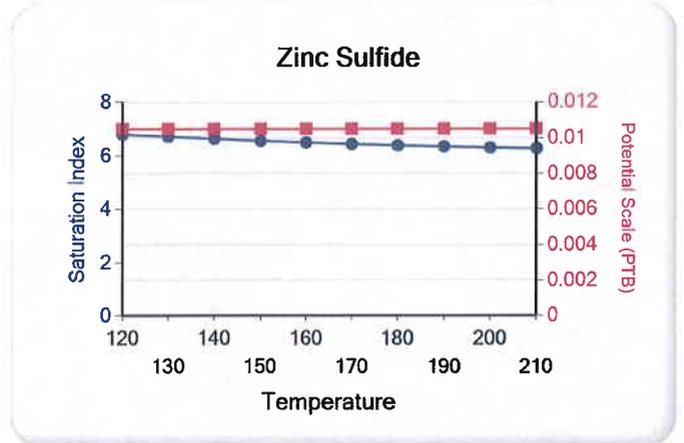
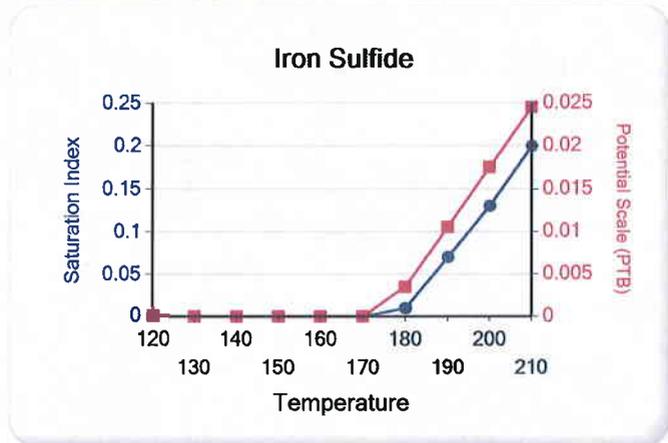
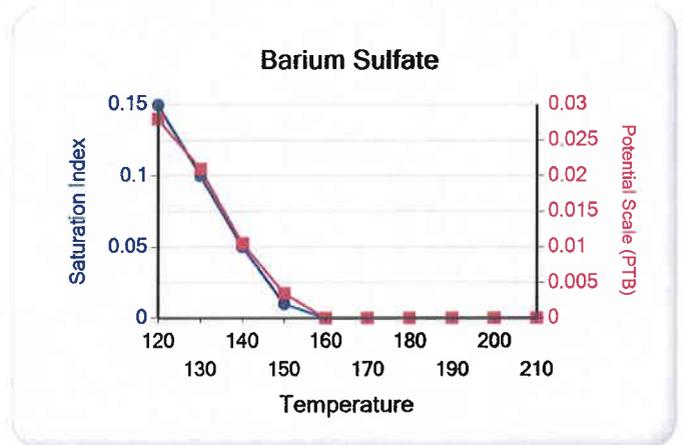
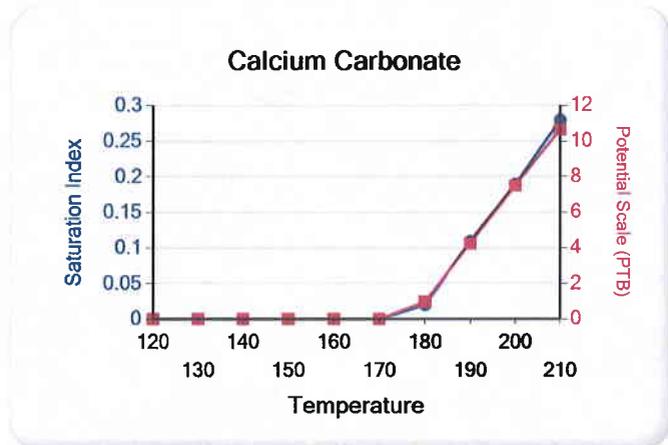
Temp (°F)	PSI	Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO <sub>4</sub> ·2H <sub>2</sub> O		Celestite SrSO <sub>4</sub>		Halite NaCl		Zinc Sulfide		
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	
210.00	60.00	0.28	10.64	0.00	0.00	0.20	0.02	0.00	0.00	0.00	0.00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

## Water Analysis Report

Temp (°F)	PSI	Hemihydrate CaSO4·0.5H2O		Anhydrate CaSO4		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
210.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
190.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

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



**Multi-Chem Analytical Laboratory**

1553 East Highway 40

Vernal, UT 84078

Units of Measurement: **Standard**

### Water Analysis Report

Production Company: **NEWFIELD PRODUCTION**

Sales Rep: **Michael McBride**

Well Name: **FEDERAL 16-8-9-16**

Lab Tech: **Layne Wilkerson**

Sample Point: **Treater**

Sample Date: **3/12/2013**

Sample ID: **WA-236950**

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

Sample Specifics		Analysis @ Properties in Sample Specifics			
		Cations	mg/L	Anions	mg/L
Test Date:	3/20/2013	Sodium (Na):	9222.88	Chloride (Cl):	13000.00
System Temperature 1 (°F):	120.00	Potassium (K):	47.00	Sulfate (SO <sub>4</sub> ):	159.00
System Pressure 1 (psig):	60.0000	Magnesium (Mg):	1.90	Bicarbonate (HCO <sub>3</sub> ):	2025.20
System Temperature 2 (°F):	210.00	Calcium (Ca):	2.50	Carbonate (CO <sub>3</sub> ):	
System Pressure 2 (psig):	60.0000	Strontium (Sr):	0.00	Acetic Acid (CH <sub>3</sub> COO)	
Calculated Density (g/ml):	1.014	Barium (Ba):	0.40	Propionic Acid (C <sub>2</sub> H <sub>5</sub> COO)	
pH:	8.50	Iron (Fe):	14.10	Butanoic Acid (C <sub>3</sub> H <sub>7</sub> COO)	
Calculated TDS (mg/L):	24505.10	Zinc (Zn):	0.40	Isobutyric Acid ((CH <sub>3</sub> ) <sub>2</sub> CHCOO)	
CO <sub>2</sub> in Gas (%):		Lead (Pb):	0.12	Fluoride (F):	
Dissolved CO <sub>2</sub> (mg/L):	56.00	Ammonia NH <sub>3</sub> :		Bromine (Br):	
H <sub>2</sub> S in Gas (%):		Manganese (Mn):	0.10	Silica (SiO <sub>2</sub> ):	31.50
H <sub>2</sub> S in Water (mg/L):	5.00				

**Notes:**

**B=6.2 AI=.07**

(PTB = Pounds per Thousand Barrels)

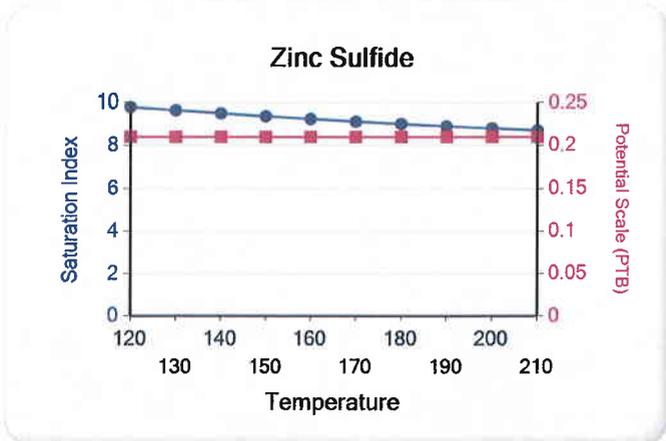
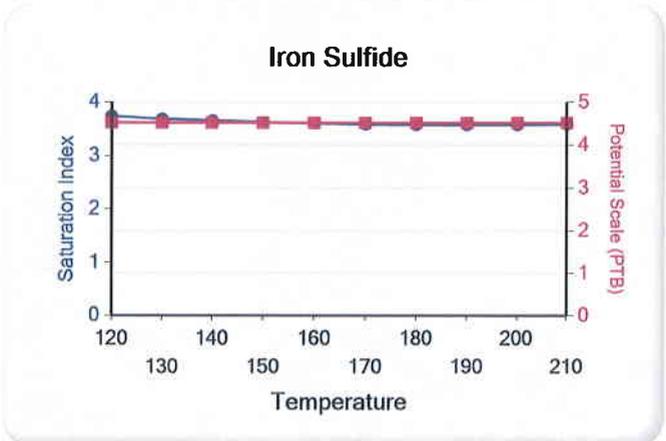
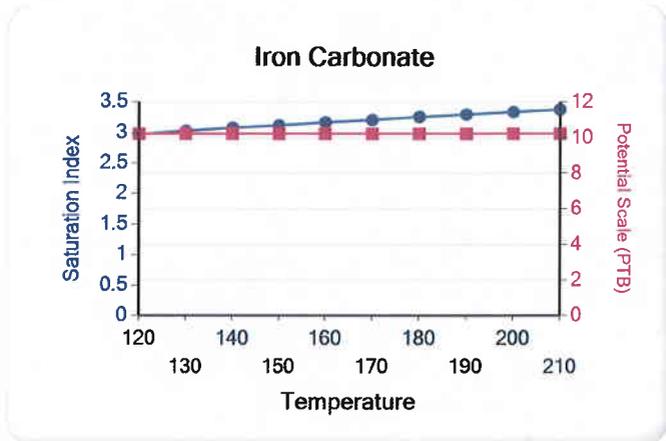
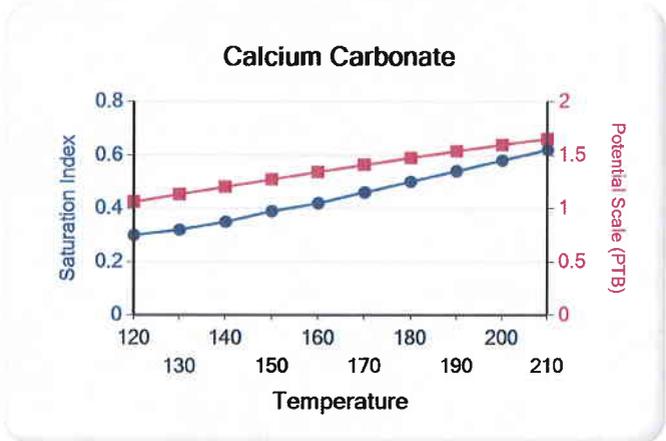
Temp (°F)	PSI	Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO <sub>4</sub> 2H <sub>2</sub> O		Celestite SrSO <sub>4</sub>		Halite NaCl		Zinc Sulfide	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
210.00	60.00	0.62	1.65	0.00	0.00	3.59	4.53	3.38	10.25	0.00	0.00	0.00	0.00	0.00	0.00	8.71	0.21
200.00	60.00	0.58	1.60	0.00	0.00	3.58	4.53	3.34	10.25	0.00	0.00	0.00	0.00	0.00	0.00	8.81	0.21
190.00	60.00	0.54	1.54	0.00	0.00	3.58	4.53	3.30	10.25	0.00	0.00	0.00	0.00	0.00	0.00	8.90	0.21
180.00	60.00	0.50	1.48	0.00	0.00	3.58	4.53	3.26	10.25	0.00	0.00	0.00	0.00	0.00	0.00	9.01	0.21
170.00	60.00	0.46	1.41	0.00	0.00	3.59	4.53	3.21	10.25	0.00	0.00	0.00	0.00	0.00	0.00	9.12	0.21
160.00	60.00	0.42	1.34	0.00	0.00	3.61	4.53	3.17	10.25	0.00	0.00	0.00	0.00	0.00	0.00	9.24	0.21
150.00	60.00	0.39	1.27	0.00	0.00	3.63	4.53	3.12	10.25	0.00	0.00	0.00	0.00	0.00	0.00	9.36	0.21
140.00	60.00	0.35	1.20	0.00	0.00	3.66	4.53	3.08	10.25	0.00	0.00	0.00	0.00	0.00	0.00	9.50	0.21
130.00	60.00	0.32	1.13	0.00	0.00	3.69	4.53	3.03	10.24	0.00	0.00	0.00	0.00	0.00	0.00	9.64	0.21
120.00	60.00	0.30	1.06	0.00	0.00	3.74	4.53	2.98	10.24	0.00	0.00	0.00	0.00	0.00	0.00	9.79	0.21

## Water Analysis Report

Temp (°F)	PSI	Hemihydrate CaSO4~0.5H2O		Anhydrate CaSO4		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
210.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.77	0.26	9.26	0.05	3.97	3.61	1.51	4.09	13.13	10.97
200.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.70	0.26	9.42	0.05	3.60	3.55	1.29	3.83	12.88	10.97
190.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.63	0.26	9.58	0.05	3.22	3.47	1.08	3.50	12.63	10.97
180.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.26	9.76	0.05	2.84	3.35	0.86	3.09	12.38	10.97
170.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.47	0.26	9.95	0.05	2.45	3.20	0.64	2.58	12.13	10.96
160.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.38	0.26	10.15	0.05	2.06	2.99	0.42	1.98	11.88	10.96
150.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.28	0.26	10.36	0.05	1.66	2.71	0.20	1.28	11.63	10.96
140.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.18	0.25	10.59	0.05	1.27	2.33	0.00	0.00	11.39	10.96
130.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.07	0.25	10.83	0.05	0.87	1.84	0.00	0.00	11.15	10.96
120.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.96	0.24	11.08	0.05	0.47	1.21	0.00	0.00	10.91	10.96

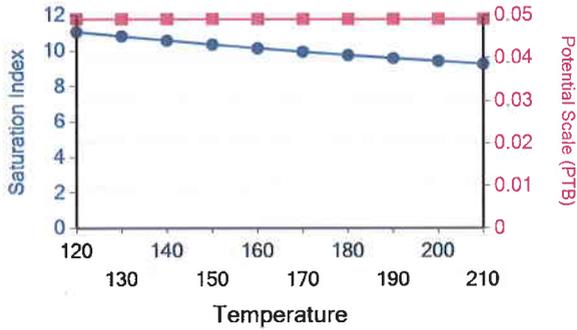
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Mg Silicate Ca Mg Silicate Fe Silicate

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

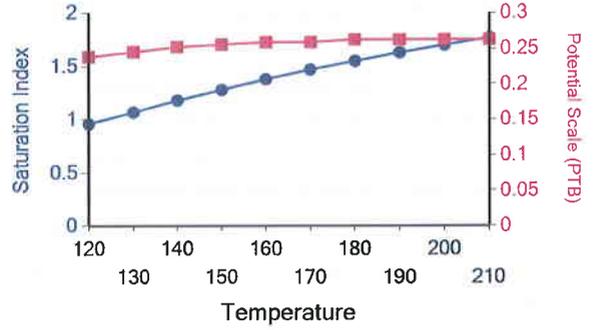


Water Analysis Report

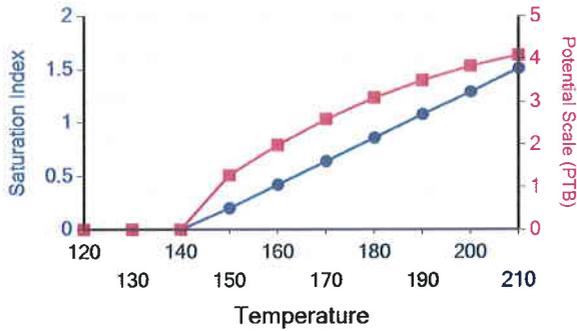
**Lead Sulfide**



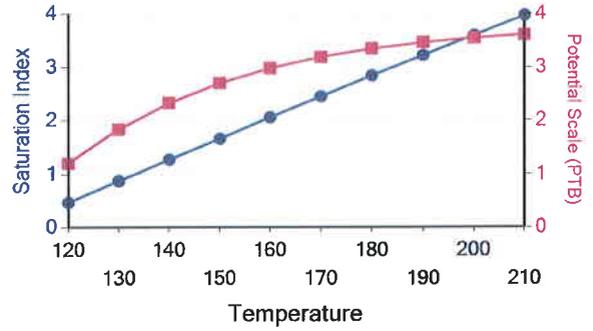
**Zinc Carbonate**



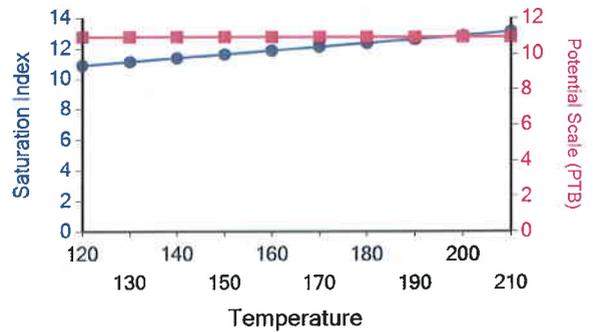
**Ca Mg Silicate**



**Mg Silicate**



**Fe Silicate**



**Attachment "G"**

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

Frac Interval (feet)		Avg. Depth (feet)	ISIP (psi)	Calculated Frac Gradient (psi/ft)	Pmax
Top	Bottom				
5627	5732	5680	2080	0.80	2043 ←
5128	5166	5147	2080	0.84	2047
4864	4902	4883	2133	0.87	2101
4725	4735	4730	2100	0.88	2069
4472	4503	4488	2550	1.00	2521
				<b>Minimum</b>	<u><u>2043</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 12

DAILY COMPLETION REPORT

WELL NAME: Federal 16-8-9-16 Report Date: 2-Mar-07 Day: 1
Operation: Completion Rig: Rigless

WELL STATUS

Surf Csg: 8 5/8" @ 320' Prod Csg: 5 1/2" @ 6104' Csg PBTD: 6020' WL
Tbg: Size: Wt: Grd: Pkr/EOT @: BP/Sand PBTD:

PERFORATION RECORD

Table with 6 columns: Zone, Perfs, SPF/#shots, Zone, Perfs, SPF/#shots. Row 2: CP2 sds, 5631-5639', 4/32

CHRONOLOGICAL OPERATIONS

Date Work Performed: 1-Mar-07 SITP: SICP:

Install 5M frac head. NU Cameron BOP. RU H/O truck & pressure test casing, frac head, blind rams & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 6020' & cement top @ 54' Perforate stage #1 W/ 4" ported gun as follows: CP2 sds @ 5631- 5639' W/ 4 JSPF for total of 32 shots. RD WLT SIFN W/ est 144 BWTR.

FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 144 Starting oil rec to date:
Fluid lost/recovered today: 0 Oil lost/recovered today:
Ending fluid to be recovered: 144 Cum oil recovered:
IFL: FFL: FTP: Choke: Final Fluid Rate: Final oil cut:

STIMULATION DETAIL

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

COSTS

Weatherford BOP
NPC NU crew
NDSI trucking
Perforators LLC
Drilling cost
Hosco hot oil
Location preparation
NPC wellhead
Benco - anchors
Admin. Overhead
NPC supervision

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:



2 of 2

DAILY COMPLETION REPORT

WELL NAME: Federal 16-8-9-16 Report Date: 14-Mar-07 Day: 2a
Operation: Completion Rig: Rigless

WELL STATUS

Surf Csg: 8 5/8" @ 320' Prod Csg: 5 1/2" @ 6104' Csg PBTD: 6020' WL
Tbg: Size: Wt: Grd: Pkr/EOT @: BP/Sand PBTD:

PERFORATION RECORD

Table with 6 columns: Zone, Perfs, SPF/#shots, Zone, Perfs, SPF/#shots. Row 2 shows CP2 sds, 5631-5639', 4/32.

CHRONOLOGICAL OPERATIONS

Date Work Performed: 13-Mar-07 SITP: SICP: 33 psi

Day 2a.

RU BJ Services. 33 psi on well. Frac CP2 sds w/ 26,883#'s of 20/40 sand in 357 bbls of Lightning 17 fluid. Broke @ 3084 psi. Treated w/ ave pressure of 2479 psi @ ave rate of 25.2 BPM. Pumped 504 gals of 15% HCL in flush for Stage #2. ISIP 2080 psi. Leave pressure on well. 501 BWTR. See Day 2b.

FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 144 Starting oil rec to date:
Fluid lost/recovered today: 357 Oil lost/recovered today:
Ending fluid to be recovered: 501 Cum oil recovered:
IFL: FFL: FTP: Choke: Final Fluid Rate: Final oil cut:

STIMULATION DETAIL

COSTS

Base Fluid used: Lightning 17 Job Type: Sand frac
Company: BJ Services

Procedure or Equipment detail: CP2 sands
378 gals to breakdown & get crosslink.
3000 gals of pad
2319 gals W/ 1-4 ppg of 20/40 sand
3686 gals W/ 4-6.5 ppg of 20/40 sand
Flush W/ 504 gals of 15% HCL acid
Flush W/ 5124 gals of slick water

BJ Services-CP2
CD wtr & trucking
NPC fuel gas
Weatherford tools/serv
NPC trucking
NPC Supervisor

\*\*Flush called @ blender--includes 2 bbls pump/line volume\*\*

Max TP: 3084 Max Rate: 25.3 BPM Total fluid pmpd: 357 bbls
Avg TP: 2479 Avg Rate: 25.2 BPM Total Prop pmpd: 26,883#'s
ISIP: 2080 5 min: 10 min: FG: .80

Completion Supervisor: Orson Barney

DAILY COST: \$0
TOTAL WELL COST:



**DAILY COMPLETION REPORT**

**WELL NAME:** Federal 16-8-9-16 **Report Date:** 14-Mar-07 **Day:** 2b  
**Operation:** Completion **Rig:** Rigless

**WELL STATUS**

**Surf Csg:** 8 5/8" @ 320' **Prod Csg:** 5 1/2" @ 6104' **Csg PBTD:** 6020' WL  
**Tbg:** **Size:** \_\_\_\_\_ **Wt:** \_\_\_\_\_ **Grd:** \_\_\_\_\_ **Pkr/EOT @:** \_\_\_\_\_ **BP/Sand PBTD:** 5270'

**PERFORATION RECORD**

<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>	<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>
			<u>A3 sds</u>	<u>5128-5133'</u>	<u>4/20</u>
			<u>A3 sds</u>	<u>5158-5166'</u>	<u>4/32</u>
			<u>CP2 sds</u>	<u>5631-5639'</u>	<u>4/32</u>

**CHRONOLOGICAL OPERATIONS**

**Date Work Performed:** 13-Mar-07 **SITP:** \_\_\_\_\_ **SICP:** 1515 psi

Day 2b.  
 RU Lone Wolf WLT, crane & lubricator. RIH w/ 5-1/2" Weatherford composite flow through plug, 8' & 5' perf gun. Se plug @ 5270'. Perforate A3 sds @ 5158- 5166', 5128-5133' w/ 3-1/8" Slick Guns (23 gram, .43"HE, 90 ) w/ 4 SPF for total of 52 shots. RU BJ Services. 1515 psi on well. Frac A3 sds w/ 24,821#'s of 20/40 sand in 347 bbls of Lightning 17 fluid. Broke @ 1915 psi. Treated w/ ave pressure of 2094 psi @ ave rate of 25.2 BPM. Pumped 504 gals of 15% HCL in flush for Stage #3. ISIP 2080 psi. Leave pressure on well. 848 BWTR. See Day 2c.

**FLUID RECOVERY (BBLs)**

**Starting fluid load to be recovered:** 501 **Starting oil rec to date:** \_\_\_\_\_  
**Fluid lost/recovered today:** 347 **Oil lost/recovered today:** \_\_\_\_\_  
**Ending fluid to be recovered:** 848 **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:** A3 sands  
462 gals to breakdown & get crosslink.  
2500 gals of pad  
1915 gals W/ 1-4 ppg of 20/40 sand  
4556 gals W/ 4-6.5 ppg of 20/40 sand  
Flush W/ 504 gals of 15% HCL acid  
Flush W/ 4624 gals of slick water

**COSTS**

BJ Services-A3  
CD wtr & trucking  
NPC fuel gas  
Weatherford tools/serv  
Lone Wolf WL  
NPC Supervisor

**\*\*Flush called @ blender--includes 2 bbls pump/line volume\*\***

**Max TP:** 2310 **Max Rate:** 25.4 BPM **Total fluid pmpd:** 347 bbls  
**Avg TP:** 2094 **Avg Rate:** 25.3 BPM **Total Prop pmpd:** 24,821#'s  
**ISIP:** 2080 **5 min:** \_\_\_\_\_ **10 min:** \_\_\_\_\_ **FG:** .84

**Completion Supervisor:** Orson Barney

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



**DAILY COMPLETION REPORT**

**WELL NAME:** Federal 16-8-9-16 **Report Date:** 14-Mar-07 **Day:** 2c  
**Operation:** Completion **Rig:** Rigless

**WELL STATUS**

**Surf Csg:** 8 5/8" @ 320' **Prod Csg:** 5 1/2" @ 6104' **Csg PBTD:** 6020' WL  
**Tbg:** **Size:** \_\_\_\_\_ **Wt:** \_\_\_\_\_ **Grd:** \_\_\_\_\_ **Pkr/EOT @:** \_\_\_\_\_ **BP/Sand PBTD:** 5000'  
**BP:** 5270'

**PERFORATION RECORD**

<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>	<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>
			<u>A3 sds</u>	<u>5128-5133'</u>	<u>4/20</u>
			<u>A3 sds</u>	<u>5158-5166'</u>	<u>4/32</u>
			<u>CP2 sds</u>	<u>5631-5639'</u>	<u>4/32</u>
<u>C sds</u>	<u>4864-4876'</u>	<u>4/48</u>			
<u>C sds</u>	<u>4894-4902'</u>	<u>4/32</u>			

**CHRONOLOGICAL OPERATIONS**

**Date Work Performed:** 13-Mar-07 **SITP:** \_\_\_\_\_ **SICP:** 1489 psi

Day 2c.

RU Lone Wolf WLT, crane & lubricator. RIH w/ 5-1/2" Weatherford composite flow through plug, 8' & 12' perf gun Set plug @ 5000'. Perforate C sds @ 4894- 4902', 4864-4876' w/ 3-1/8" Slick Guns (23 gram, .43"HE, 90 ) w/ 4 SPF for total of 80 shots. RU BJ Services. 1489 psi on well. Frac C sds w/ 95,479#'s of 20/40 sand in 684 bbls of Lightning 17 fluid. Broke @ 4004 psi. Treated w/ ave pressure of 1795 psi @ ave rate of 25.2 BPM. Pumped 504 gals of 15% HCL in flush for Stage #4. ISIP 2133 psi. Leave pressure on well. 1532 BWTR. See Day 2d.

**FLUID RECOVERY (BBLs)**

**Starting fluid load to be recovered:** 848 **Starting oil rec to date:** \_\_\_\_\_  
**Fluid lost/recovered today:** 684 **Oil lost/recovered today:** \_\_\_\_\_  
**Ending fluid to be recovered:** 1532 **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:** C sands

- 7200 gals of pad
- 4944 gals W/ 1-5 ppg of 20/40 sand
- 9872 gals W/ 5-8 ppg of 20/40 sand
- 1831 gals W/ 8 ppg of 20/40 sand
- Flush W/ 504 gals of 15% HCL acid
- Flush W/ 4364 gals of slick water

**\*\*Flush called @ blender--includes 2 bbls pump/line volume\*\***

**Max TP:** 2133 **Max Rate:** 25.5 BPM **Total fluid pmpd:** 684 bbls

**Avg TP:** 1795 **Avg Rate:** 25.2 BPM **Total Prop pmpd:** 95,479#'s

**ISIP:** 2133 **5 min:** \_\_\_\_\_ **10 min:** \_\_\_\_\_ **FG:** .87

**Completion Supervisor:** Orson Barney

**COSTS**

- BJ Services-C
- CD wtr & trucking
- NPC fuel gas
- Weatherford tools/serv
- Lone Wolf WL
- NPC Supervisor

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

**TOTAL WELL COST:** \_\_\_\_\_



**DAILY COMPLETION REPORT**

**WELL NAME:** Federal 16-8-9-16 **Report Date:** 14-Mar-07 **Day:** 2d  
**Operation:** Completion **Rig:** Rigless

**WELL STATUS**

**Surf Csg:** 8 5/8" @ 320' **Prod Csg:** 5 1/2" @ 6104' **Csg PBTD:** 6020' WL  
**Tbg:** **Size:** \_\_\_\_\_ **Wt:** \_\_\_\_\_ **Grd:** \_\_\_\_\_ **Pkr/EOT @:** \_\_\_\_\_ **BP/Sand PBTD:** 4810'  
**BP:** 5000', 5270'

**PERFORATION RECORD**

<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>	<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>
			<u>A3 sds</u>	<u>5128-5133'</u>	<u>4/20</u>
			<u>A3 sds</u>	<u>5158-5166'</u>	<u>4/32</u>
<u>D1 sds</u>	<u>4725-4735'</u>	<u>4/40</u>	<u>CP2 sds</u>	<u>5631-5639'</u>	<u>4/32</u>
<u>C sds</u>	<u>4864-4876'</u>	<u>4/48</u>			
<u>C sds</u>	<u>4894-4902'</u>	<u>4/32</u>			

**CHRONOLOGICAL OPERATIONS**

**Date Work Performed:** 13-Mar-07 **SITP:** \_\_\_\_\_ **SICP:** 1471 psi

Day 2d.

RU Lone Wolf WLT, crane & lubricator. RIH w/ 5-1/2" Weatherford composite flow through plug & 10' perf gun. Se plug @ 4810'. Perforate D1 sds @ 4725- 4735' w/ 3-1/8" Slick Guns (23 gram, .43"HE, 90 ) w/ 4 SPF for total of 40 shots. RU BJ Services. 1471 psi on well. Frac D1 sds w/ 45,323#'s of 20/40 sand in 377 bbls of Lightning 17 fluid Broke @ 4045 psi. Treated w/ ave pressure of 1834 psi @ ave rate of 25.2 BPM. Pumped 504 gals of 15% HCL ir flush for Stage #5. ISIP 2100 psi. Leave pressure on well. 1909 BWTR. See Day 2e.

**FLUID RECOVERY (BBLs)**

**Starting fluid load to be recovered:** 1532 **Starting oil rec to date:** \_\_\_\_\_  
**Fluid lost/recovered today:** 377 **Oil lost/recovered today:** \_\_\_\_\_  
**Ending fluid to be recovered:** 1909 **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:** D1 sands  
924 gals to breakdown & get crosslink.  
2600 gals of pad  
2819 gals W/ 1-5 ppg of 20/40 sand  
4770 gals W/ 5-8 ppg of 20/40 sand  
Flush W/ 504 gals of 15% HCL acid  
Flush W/ 4204 gals of slick water

**COSTS**

BJ Services-D1  
CD wtr & trucking  
NPC fuel gas  
Weatherford tools/serv  
Lone Wolf WL  
NPC Supervisor

**\*\*Flush called @ blender--includes 2 bbls pump/line volume\*\***

**Max TP:** 2100 **Max Rate:** 25.5 BPM **Total fluid pmpd:** 377 bbls  
**Avg TP:** 1834 **Avg Rate:** 25.2 BPM **Total Prop pmpd:** 45,323#'s  
**ISIP:** 2100 **5 min:** \_\_\_\_\_ **10 min:** \_\_\_\_\_ **FG:** .88

**Completion Supervisor:** Orson Barney

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



**DAILY COMPLETION REPORT**

**WELL NAME:** Federal 16-8-9-16 **Report Date:** 14-Mar-07 **Day:** 2e  
**Operation:** Completion **Rig:** Rigless

**WELL STATUS**

**Surf Csg:** 8 5/8" @ 320' **Prod Csg:** 5 1/2" @ 6104' **Csg PBTD:** 6020' WL  
**Tbg:** **Size:** \_\_\_\_\_ **Wt:** \_\_\_\_\_ **Grd:** \_\_\_\_\_ **Pkr/EOT @:** \_\_\_\_\_ **BP/Sand PBTD:** 4605'  
**BP:** 4810', 5000', 5270'

**PERFORATION RECORD**

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
PB10 sds	4472-4478'	4/24	A3 sds	5128-5133'	4/20
PB11 sds	4497-4503'	4/24	A3 sds	5158-5166'	4/32
D1 sds	4725-4735'	4/40	CP2 sds	5631-5639'	4/32
C sds	4864-4876'	4/48			
C sds	4894-4902'	4/32			

**CHRONOLOGICAL OPERATIONS**

**Date Work Performed:** 13-Mar-07 **SITP:** \_\_\_\_\_ **SICP:** 1636 psi

Day 2e.

RU Lone Wolf WLT, crane & lubricator. RIH w/ 5-1/2" Weatherford composite flow through plug & 10' perf gun. Se plug @ 4605'. Perforate PB11 sds @ 4497- 4503', PB10 sds @ 4472- 4478' w/ 3-1/8" Slick Guns (23 gram, .43"HE 90 ) w/ 4 SPF for total of 48 shots. RU BJ Services. 1636 psi on well. Frac PB10 & PB11 sds w/ 22,086#'s of 20/40 sand in 270 bbls of Lightning 17 fluid. Broke @ 3435 psi. Treated w/ ave pressure of 2550 psi @ ave rate of 25.3 BPM. ISIP 2425 psi. Begin immediate flowback on 12/64 choke @ 1 BPM. Flowed for 5 1/2 hrs & died. Rec 323 BTF. SIWFN w/ 1856 BWTR.

**FLUID RECOVERY (BBLs)**

**Starting fluid load to be recovered:** 1909 **Starting oil rec to date:** \_\_\_\_\_  
**Fluid lost/recovered today:** 53 **Oil lost/recovered today:** \_\_\_\_\_  
**Ending fluid to be recovered:** 1856 **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:** PB10 & PB11 sands

- 1554 gals to breakdown & get crosslink.
- 2000 gals of pad
- 1511 gals W/ 1-4 ppg of 20/40 sand
- 1924 gals W/ 4-6.5 ppg of 20/40 sand
- Flush W/ 4368 gals of slick water

**COSTS**

- BJ Services-PB10 & PB11
- CD wtr & trucking
- NPC fuel gas
- Weatherford tools/serv
- Lone Wolf WL
- NPC Supervisor
- NPC sfc equipment
- NPC flowback hand
- Boren labor/welding
- Mt west sanitation
- NDSI wtr disposal
- Monks pit reclaim
- Unichem chemicals

**Max TP:** 2758 **Max Rate:** 25.4 BPM **Total fluid pmpd:** 270 bbls  
**Avg TP:** 2550 **Avg Rate:** 25.3 BPM **Total Prop pmpd:** 22,086#'s  
**ISIP:** 2425 **5 min:** \_\_\_\_\_ **10 min:** \_\_\_\_\_ **FG:** .97

**Completion Supervisor:** Orson Barney

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



DAILY COMPLETION REPORT

WELL NAME: Federal 16-8-9-16 Report Date: March 15, 2007 Day: 03
Operation: Completion Rig: Key #30955

WELL STATUS

Surf Csg: 8 5/8" @ 320' Prod Csg: 5 1/2" @ 6104' Csg PBTD: 6020' WL
Tbg: Size: 2 7/8" Wt: 6.5# Grd: J-55 Pkr/EOT @: 0 BP/Sand PBTD: 4605'
BP: 4810', 5000', 5270'

PERFORATION RECORD

Table with 6 columns: Zone, Perfs, SPF/#shots, Zone, Perfs, SPF/#shots. Rows include PB10 sds, PB11 sds, D1 sds, C sds, C sds.

CHRONOLOGICAL OPERATIONS

Date Work Performed: March 14, 2007 SITP: SICIP: 250

MIRU Key #30955. Bleed pressure off well. Rec est 35 BTF. ND cameron BOP & 5M frac head. Install 3M production tbg head & NU Weatherford Schaeffer BOP. RU floor & tongs. Talley top row of tbg. Lay pump lines. SIFN W/ est 1821 BWTR.

FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 1856 Starting oil rec to date:
Fluid lost/recovered today: 35 Oil lost/recovered today:
Ending fluid to be recovered: 1821 Cum oil recovered:
IFL: FFL: FTP: Choke: Final Fluid Rate: Final oil cut:

STIMULATION DETAIL

COSTS

Base Fluid used: Job Type: Key #30955 rig
Company: Weatherford BOP
Procedure or Equipment detail: NDSI trucking
NDSI wtr & truck
NPC location cleanup
B & L - new J55 tbg
CDI TA
CDI SN
NPC supervision

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

Completion Supervisor: Gary Dietz

DAILY COST: \$0
TOTAL WELL COST:



DAILY COMPLETION REPORT

WELL NAME: Federal 16-8-9-16 Report Date: March 16, 2007 Day: 04  
Operation: Completion Rig: Key #30955

WELL STATUS

Surf Csg: 8 5/8" @ 320' Prod Csg: 5 1/2" @ 6104' Csg PBTD: 6020' WL  
Tbg: Size: 2 7/8" Wt: 6.5# Grd: J-55 Pkr/EOT @: 4540' BP/Sand PBTD: 4605'  
BP: 4810', 5000', 5270'

PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
PB10 sds	4472-4478'	4/24	A3 sds	5128-5133'	4/20
PB11 sds	4497-4503'	4/24	A3 sds	5158-5166'	4/32
D1 sds	4725-4735'	4/40	CP2 sds	5631-5639'	4/32
C sds	4864-4876'	4/48			
C sds	4894-4902'	4/32			

CHRONOLOGICAL OPERATIONS

Date Work Performed: March 15, 2007 SITP: SICP: 250

Bleed pressure off well. Rec est 25 BTF (W/ some oil & gas). Drift, PU & TIH W/ used 4 3/4" "Chomp" bit, bit sub & new 2 7/8 8rd 6.5# J-55 tbg. W/ 65 jts ran, tbg began flowing heavy oil. RU & circ well. Con't PU tbg. Tag plug @ 4605'. Tbg displaced & well flowed approx. 40 BTF on TIH. LD 2 jts tbg. RU power swivel. SIFN W/ EOT @ 4540' Est 1765 BWTR.

FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 1821 Starting oil rec to date: \_\_\_\_\_  
Fluid lost/recovered today: 65 Oil lost/recovered today: \_\_\_\_\_  
Ending fluid to be recovered: 1756 Cum oil recovered: \_\_\_\_\_  
IFL: \_\_\_\_\_ FFL: \_\_\_\_\_ FTP: \_\_\_\_\_ Choke: \_\_\_\_\_ Final Fluid Rate: \_\_\_\_\_ Final oil cut: \_\_\_\_\_

STIMULATION DETAIL

COSTS

Base Fluid used: _____	Job Type: _____	Key #30955 rig	_____
Company: _____		Weatherford BOP	_____
Procedure or Equipment detail:		NPC supervision	_____
_____			_____
_____			_____
_____			_____
_____			_____
_____			_____
_____			_____
_____			_____

Max TP: \_\_\_\_\_ Max Rate: \_\_\_\_\_ Total fluid pmpd: \_\_\_\_\_  
Avg TP: \_\_\_\_\_ Avg Rate: \_\_\_\_\_ Total Prop pmpd: \_\_\_\_\_  
ISIP: \_\_\_\_\_ 5 min: \_\_\_\_\_ 10 min: \_\_\_\_\_ FG: \_\_\_\_\_  
Completion Supervisor: Gary Dietz DAILY COST: \$0  
TOTAL WELL COST: \_\_\_\_\_



**DAILY COMPLETION REPORT**

**WELL NAME:** Federal 16-8-9-16 **Report Date:** March 17, 2007 **Day:** 05  
**Operation:** Completion **Rig:** Key #30955

**WELL STATUS**

**Surf Csg:** 8 5/8" @ 320' **Prod Csg:** 5 1/2" @ 6104' **Csg PBTD:** 6020' WL  
**Tbg:** **Size:** 2 7/8" **Wt:** 6.5# **Grd:** J-55 **Pkr/EOT @:** 5627' **BP/Sand PBTD:** 5753'

**PERFORATION RECORD**

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
PB10 sds	<u>4472-4478'</u>	<u>4/24</u>	A3 sds	<u>5128-5133'</u>	<u>4/20</u>
PB11 sds	<u>4497-4503'</u>	<u>4/24</u>	A3 sds	<u>5158-5166'</u>	<u>4/32</u>
D1 sds	<u>4725-4735'</u>	<u>4/40</u>	CP2 sds	<u>5631-5639'</u>	<u>4/32</u>
C sds	<u>4864-4876'</u>	<u>4/48</u>			
C sds	<u>4894-4902'</u>	<u>4/32</u>			

**CHRONOLOGICAL OPERATIONS**

**Date Work Performed:** March 16, 2007 **SITP:** 250 **SICP:** 250

Bleed pressure off well. Rec est 15 BTF. RU & circ oil & gas f/ well. TIH W/ bit & tbg f/ 4540'. Tag plug @ 4605' PU power swivel. C/O sd & drill out composite bridge plugs as follows (using conventional circulation): no sd, plug @ 4605' in 32 minutes; sd @ 4795', plug @ 4810' in 27 minutes; sd @ 4995', plug @ 5000' in 40 minutes; no sd, plug @ 5270' in 120 minutes (had some plugging problems). Hang back swivel & con't PU tbg. Tag fill @ 5710'. PU swivel Drill on plug remains & sd to 5753'. Still having plugging problems. Able to clear bit and rev circ hole W/ 120 BW Clean returns. Lost no fluid during cleanout. Hang back swivel & pull EOT to 5627'. SIFN W/ est 1741 BWTR.

**FLUID RECOVERY (BBLs)**

**Starting fluid load to be recovered:** 1756 **Starting oil rec to date:** \_\_\_\_\_  
**Fluid lost/recovered today:** 15 **Oil lost/recovered today:** \_\_\_\_\_  
**Ending fluid to be recovered:** 1741 **Cum oil recovered:** \_\_\_\_\_  
**IFL:** \_\_\_\_\_ **FFL:** \_\_\_\_\_ **FTP:** \_\_\_\_\_ **Choke:** \_\_\_\_\_ **Final Fluid Rate:** \_\_\_\_\_ **Final oil cut:** \_\_\_\_\_

**STIMULATION DETAIL**

**COSTS**

**Base Fluid used:** \_\_\_\_\_ **Job Type:** \_\_\_\_\_ **Key #30955 rig** \_\_\_\_\_  
**Company:** \_\_\_\_\_ **Weatherford BOP** \_\_\_\_\_  
**Procedure or Equipment detail:** \_\_\_\_\_ **Weatherford swivel** \_\_\_\_\_  
 \_\_\_\_\_ **NPC supervision** \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Max TP:** \_\_\_\_\_ **Max Rate:** \_\_\_\_\_ **Total fluid pmpd:** \_\_\_\_\_  
**Avg TP:** \_\_\_\_\_ **Avg Rate:** \_\_\_\_\_ **Total Prop pmpd:** \_\_\_\_\_  
**ISIP:** \_\_\_\_\_ **5 min:** \_\_\_\_\_ **10 min:** \_\_\_\_\_ **FG:** \_\_\_\_\_ **DAILY COST:** \_\_\_\_\_ \$0  
**Completion Supervisor:** Gary Dietz **TOTAL WELL COST:** \_\_\_\_\_



**DAILY COMPLETION REPORT**

**WELL NAME:** Federal 16-8-9-16 **Report Date:** March 20, 2007 **Day:** 06  
**Operation:** Completion **Rig:** Key #30955

**WELL STATUS**

**Surf Csg:** 8 5/8" @ 320' **Prod Csg:** 5 1/2" @ 6104' **Csg PBDT:** 6065'  
**Tbg:** **Size:** 2 7/8" **Wt:** 6.5# **Grd:** J-55 **Pkr/EOT @:** 5995' **BP/Sand PBDT:** 6065'

**PERFORATION RECORD**

<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>	<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>
<u>PB10 sds</u>	<u>4472-4478'</u>	<u>4/24</u>	<u>A3 sds</u>	<u>5128-5133'</u>	<u>4/20</u>
<u>PB11 sds</u>	<u>4497-4503'</u>	<u>4/24</u>	<u>A3 sds</u>	<u>5158-5166'</u>	<u>4/32</u>
<u>D1 sds</u>	<u>4725-4735'</u>	<u>4/40</u>	<u>CP2 sds</u>	<u>5631-5639'</u>	<u>4/32</u>
<u>C sds</u>	<u>4864-4876'</u>	<u>4/48</u>			
<u>C sds</u>	<u>4894-4902'</u>	<u>4/32</u>			

**CHRONOLOGICAL OPERATIONS**

**Date Work Performed:** March 19, 2007 **SITP:** 0 **SICP:** 0

TIH W/ bit & tbg f/ 5627'. Tag fill @ 5735' (18' overnight fill). PU swivel. Con't C/O sd to PBDT @ 6065'. Circ hole clean W/ no fluid loss. RD swivel. Pull EOT to 5995'. RU swab equipment. IFL @ sfc. Made 12 swb runs rec 103 BTF W/ light gas, tr oil & no sand. FFL @ 1200'. SIFN W/ est 1638 BWTR.

**FLUID RECOVERY (BBLs)**

**Starting fluid load to be recovered:** 1741 **Starting oil rec to date:** \_\_\_\_\_  
**Fluid lost/recovered today:** 103 **Oil lost/recovered today:** \_\_\_\_\_  
**Ending fluid to be recovered:** 1638 **Cum oil recovered:** \_\_\_\_\_  
**IFL:** \_\_\_\_\_ **FFL:** \_\_\_\_\_ **FTP:** \_\_\_\_\_ **Choke:** \_\_\_\_\_ **Final Fluid Rate:** \_\_\_\_\_ **Final oil cut:** \_\_\_\_\_

**STIMULATION DETAIL**

**Base Fluid used:** \_\_\_\_\_ **Job Type:** \_\_\_\_\_  
**Company:** \_\_\_\_\_  
**Procedure or Equipment detail:** \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**COSTS**

Key #30955 rig \_\_\_\_\_  
Weatherford BOP \_\_\_\_\_  
Weatherford swivel \_\_\_\_\_  
NPC supervision \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Max TP:** \_\_\_\_\_ **Max Rate:** \_\_\_\_\_ **Total fluid pmpd:** \_\_\_\_\_  
**Avg TP:** \_\_\_\_\_ **Avg Rate:** \_\_\_\_\_ **Total Prop pmpd:** \_\_\_\_\_  
**ISIP:** \_\_\_\_\_ **5 min:** \_\_\_\_\_ **10 min:** \_\_\_\_\_ **FG:** \_\_\_\_\_

**Completion Supervisor:** Gary Dietz

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



DAILY COMPLETION REPORT

WELL NAME: Federal 16-8-9-16 Report Date: March 21, 2007 Day: 07  
Operation: Completion Rig: Key #30955

WELL STATUS

Surf Csg: 8 5/8" @ 320' Prod Csg: 5 1/2" @ 6104' Csg PBDT: 6065'  
Tbg: Size: 2 7/8" Wt: 6.5# Grd: J-55 Anchor @: 5596' BP/Sand PBDT: 6065'

PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
PB10 sds	4472-4478'	4/24	A3 sds	5128-5133'	4/20
PB11 sds	4497-4503'	4/24	A3 sds	5158-5166'	4/32
D1 sds	4725-4735'	4/40	CP2 sds	5631-5639'	4/32
C sds	4864-4876'	4/48			
C sds	4894-4902'	4/32			

CHRONOLOGICAL OPERATIONS

Date Work Performed: March 20, 2007 SITP: 0 SICP: 0

No pressure on well. TIH W/ tbg. Tag PBDT @ 6065' (no new fill). Circ hole W/ clean wtr. Lost est 35 BW & rec sm tr oil. LD excess tbg. TOH W/ tbg--LD bit. TIH W/ BHA & production tbg as follows: 2 7/8 NC, 2 jts tbg, SN, 2 jts tbg, new 5 1/2" TA (45K) & 177 jts 2 7/8 8rd 6.5# J-55 tbg. ND BOP. Set TA @ 5596' W/ SN @ 5661' & EOT @ 5726' Land tbg W/ 16,000# tension. NU wellhead. SIFN W/ est 1673 BWTR.

FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 1638 Starting oil rec to date: \_\_\_\_\_  
Fluid lost/recovered today: 35 Oil lost/recovered today: \_\_\_\_\_  
Ending fluid to be recovered: 1673 Cum oil recovered: \_\_\_\_\_  
IFL: \_\_\_\_\_ FFL: \_\_\_\_\_ FTP: \_\_\_\_\_ Choke: \_\_\_\_\_ Final Fluid Rate: \_\_\_\_\_ Final oil cut: \_\_\_\_\_

STIMULATION DETAIL

COSTS

Base Fluid used: \_\_\_\_\_ Job Type: \_\_\_\_\_ Key #30955 rig  
Company: \_\_\_\_\_ Weatherford BOP  
Procedure or Equipment detail: \_\_\_\_\_ NPC supervision

Max TP: \_\_\_\_\_ Max Rate: \_\_\_\_\_ Total fluid pmpd: \_\_\_\_\_  
Avg TP: \_\_\_\_\_ Avg Rate: \_\_\_\_\_ Total Prop pmpd: \_\_\_\_\_  
ISIP: \_\_\_\_\_ 5 min: \_\_\_\_\_ 10 min: \_\_\_\_\_ FG: \_\_\_\_\_

Completion Supervisor: Gary Dietz

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



**DAILY COMPLETION REPORT**

**WELL NAME:** Federal 16-8-9-16 **Report Date:** March 22, 2007 **Day:** 08  
**Operation:** Completion **Rig:** Key #30955

**WELL STATUS**

**Surf Csg:** 8 5/8" @ 320' **Prod Csg:** 5 1/2" @ 6104' **Csg PBTD:** 6065'  
**Tbg:** Size: 2 7/8" Wt: 6.5# **Grd:** J-55 **Anchor @:** 5596' **BP/Sand PBTD:** 6065'

**PERFORATION RECORD**

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
PB10 sds	4472-4478'	4/24	A3 sds	5128-5133'	4/20
PB11 sds	4497-4503'	4/24	A3 sds	5158-5166'	4/32
D1 sds	4725-4735'	4/40	CP2 sds	5631-5639'	4/32
C sds	4864-4876'	4/48			
C sds	4894-4902'	4/32			

**CHRONOLOGICAL OPERATIONS**

**Date Work Performed:** March 21, 2007 **SITP:** 0 **SICP:** 0

PU & TIH W/ pump and "A" grade rod string as follows: 2 1/2" X 1 1/2" X 14.5' RHAC pump, 6-1 1/2" weight rods 10-3/4" scraped rods, 115-3/4" plain rods, 94-3/4" scraped rods, 1-8', 1-4' & 1-2' X 3/4" pony rods and 1 1/2" X 22 polished rod. Seat pump & RU pumping unit. W/ tbg full, pressure test tbg & pump to 200 psi. Stroke pump up W/ uni to 800 psi. Good pump action. RDMOSU. Est 1673 BWTR.

**Place well on production @ 5:00 PM 3/21/2007 W/ 86" SL @ 5 SPM.**

**FINAL REPORT!!**

**FLUID RECOVERY (BBLs)**

**Starting fluid load to be recovered:** 1673 **Starting oil rec to date:** \_\_\_\_\_  
**Fluid lost/recovered today:** 0 **Oil lost/recovered today:** \_\_\_\_\_  
**Ending fluid to be recovered:** 1673 **Cum oil recovered:** \_\_\_\_\_  
**IFL:** \_\_\_\_\_ **FFL:** \_\_\_\_\_ **FTP:** \_\_\_\_\_ **Choke:** \_\_\_\_\_ **Final Fluid Rate:** \_\_\_\_\_ **Final oil cut:** \_\_\_\_\_

**TUBING DETAIL**

**ROD DETAIL**

**COSTS**

TUBING DETAIL	ROD DETAIL	COSTS
KB 12.00'	1 1/2" X 22' polished rod	Key #30955 rig
177 2 7/8 J-55 tbg (5583.61')	1-8', 1-4' & 1-2' X 3/4" ponies	NPC trucking
TA (2.75' @ 5595.61' KB)	94-3/4" scraped rods	"A" grade rod string
2 2 7/8 J-55 tbg (63.06')	115-3/4" plain rods	CDI rod pump
SN (1.10' @ 5661.42' KB)	10-3/4" scraped rods	NPC frac tks(6X5 dys)
2 2 7/8 J-55 tbg (63.12')	6-1 1/2" weight rods	NPC swb tk (6 dys)
2 7/8 NC (.45')	CDI 2 1/2" X 1 1/2" X 14.5'	NPC frac head
EOT 5726.09' W/ 12' KB	RHAC pump W/ SM plunger	D & M HO trk
		Key demob (est)
		Zubiate trucking
		NPC supervision

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

**TOTAL WELL COST:** \_\_\_\_\_

**Completion Supervisor:** Gary Dietz

## ATTACHMENT H

### WORK PROCEDURE FOR PLUGGING AND ABANDONMENT

1. Set CIBP @ 4422'
2. Plug #1 Set 100' plug on top of CIBP using 12 sx Class "G" cement
3. Plug #2 192' balance plug using 20 sx Class "G" cement 50' above Trona-Bird's Nest extending 50' below base of Mahogany Oil Shale
4. Plug #3 120' balance plug using 14sx Class "G" cement 60' above Uinta/Green River and extending 60' below
5. Plug #4 Pump 46 sx Class "G" cement down 5 1/2" casing to 370'

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

## Federal 16-8-9-16

Spud Date: 02/06/07  
 Put on Production: 03/21/07  
 K.B.: 5876, G.L.: 5864

Initial Production: BOPD,  
 MCFD, BWPD

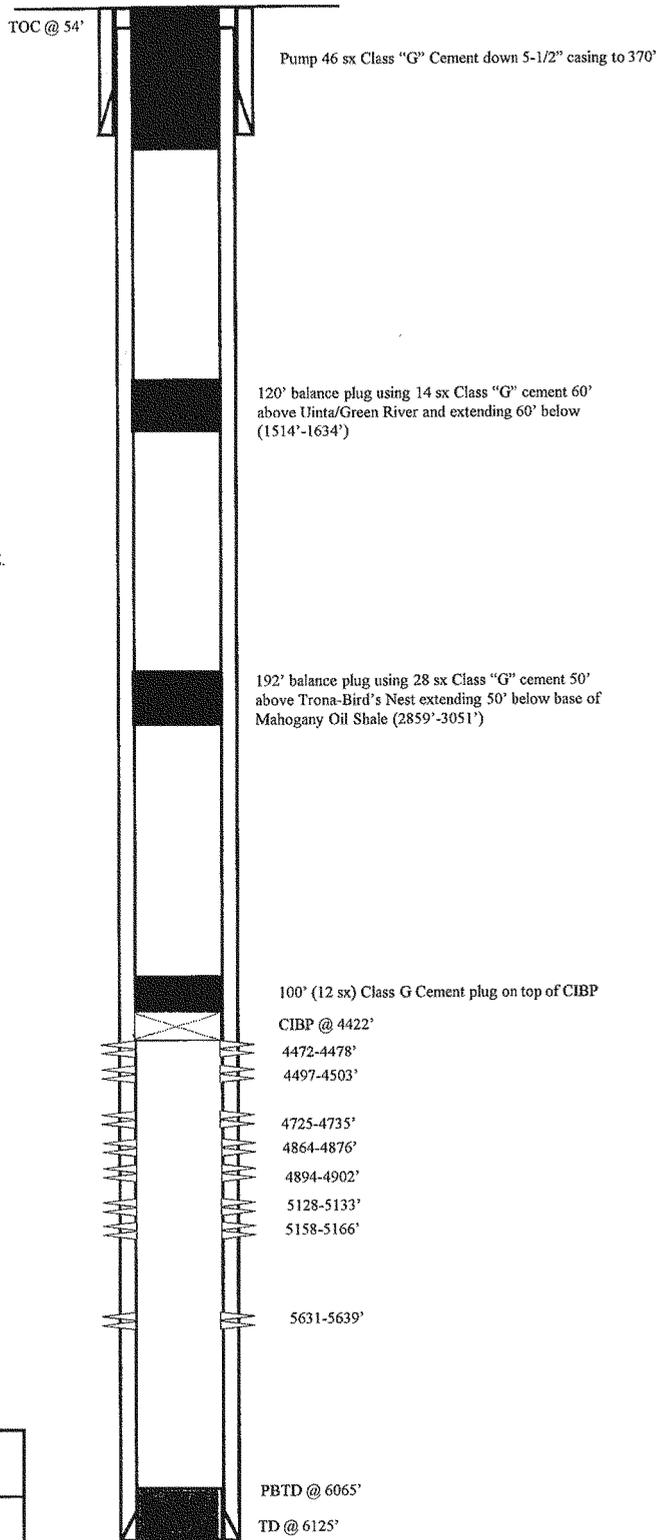
### Proposed P & A Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (308.18')  
 DEPTH LANDED: 320.03' 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: 138 jts. (6054.21')  
 DEPTH LANDED: 6104.47' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 301 sxs Prem. Lite II mixed & 449 sxs 50/50 POZ.




<p><b>Federal 16-8-9-16</b>                  418' FSL &amp; 629' FEL                  SE/SE Section 8-T9S-R16E                  Duchesne Co, Utah                  API #43-013-33061; Lease #UTU-64379</p>

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-407

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTION 27, TOWNSHIP 9 SOUTH, RANGE 15 EAST, AND SECTIONS 8, 13, AND 19, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

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

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Newfield Production Company, 1001 17<sup>th</sup> Street, Suite 2000, Denver, Colorado 80202, telephone 303-893-0102, for administrative approval of the following wells located in Duchesne County, Utah, for conversion to Class II injection wells:

Greater Monument Butte Unit:

Ashley Federal 2-27-9-15 well located in NW/4 NE/4, Section 27, Township 9 South, Range 15 East  
API 43-013-32834  
Ashley Federal 4-27-9-15 well located in NW/4 NW/4, Section 27, Township 9 South, Range 15 East  
API 43-013-32770  
West Point 14-8-9-16 well located in SE/4 SW/4, Section 8, Township 9 South, Range 16 East  
API 43-013-32288  
Federal 16-8-9-16 well located in SE/4 SE/4, Section 8, Township 9 South, Range 16 East  
API 43-013-33061  
Federal 9-13T-9-16 well located in NE/4 SE/4, Section 13, Township 9 South, Range 16 East  
API 43-013-32954  
Federal 4-19-9-16 well located in NW/4 NW/4, Section 19, Township 9 South, Range 16 East  
API 43-013-33065

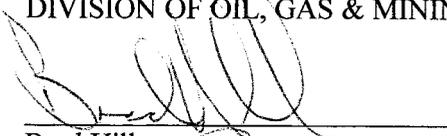
The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

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 24<sup>th</sup> day of April, 2013.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING



Brad Hill  
Permitting Manager

**Newfield Production Company**

**ASHLEY FEDERAL 2-27-9-15, ASHLEY FEDERAL 4-27-9-15,  
WEST POINT 14-8-9-16, FEDERAL 16-8-9-16,  
FEDERAL 9-13T-9-16, FEDERAL 4-19-9-16**

**Cause No. UIC-407**

Publication Notices were sent to the following:

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

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

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

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

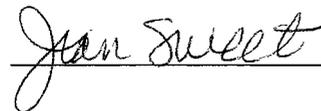
Salt Lake Tribune  
P O Box 45838  
Salt Lake City, UT 84145  
via e-mail [naclegal@mediaoneutah.com](mailto:naclegal@mediaoneutah.com)

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

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

Newfield Production Company  
Rt 3 Box 3630  
Myton, UT 84052

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

  
\_\_\_\_\_



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

April 24, 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-407

To Whom It May Concern:

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

Please send proof of publication and billing to:

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

Sincerely,

Jean Sweet  
Executive Secretary

Enclosure





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

---

**Re: Notice of Agency Action – Newfield Production Company Cause No. UIC-407**

1 message

---

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

Wed, Apr 24, 2013 at 4:08 PM

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

On 4/24/2013 2:20 PM, Jean Sweet wrote:

To Whom It May Concern:

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

Please send proof of publication and billing to:

Division of Oil, Gas and Mining

PO Box 145801

Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet

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

This will go in April 30.

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*

April 24, 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-407

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



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

---

## Legal Notice

1 message

---

**Fultz, Mark** <[naclegal@mediaoneutah.com](mailto:naclegal@mediaoneutah.com)>  
Reply-To: "Fultz, Mark" <[naclegal@mediaoneutah.com](mailto:naclegal@mediaoneutah.com)>  
To: [jsweet@utah.gov](mailto:jsweet@utah.gov)

Wed, Apr 24, 2013 at 4:41 PM

AD# 875164  
Run Trib/DNews - 4/26  
Cost \$317.48  
Thank you  
Mark

 **OrderConf.pdf**  
153K

## Order Confirmation for Ad #0000875164-01

<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	mfultz

<b>Total Amount</b>	<b>\$317.48</b>			
<b>Payment Amt</b>	<b>\$0.00</b>			
<b>Amount Due</b>	<b>\$317.48</b>	<u>Tear Sheets</u>	<u>Proofs</u>	<u>Affidavits</u>
		0	0	1
<b>Payment Method</b>		<u>PO Number</u>	UIC-407	

**Confirmation Notes:**  
**Text:** Jean

<b>Ad Type</b>	<b>Ad Size</b>	<b>Color</b>
Legal Liner	3.0 X 62 Li	<NONE>

<b><u>Product</u></b>	<b><u>Placement</u></b>	<b><u>Position</u></b>
Salt Lake Tribune::	Legal Liner Notice - 0998	Public Meeting/Hear-ing Notices
<b>Scheduled Date(s):</b>	4/26/2013	
<b><u>Product</u></b>	<b><u>Placement</u></b>	<b><u>Position</u></b>
Deseret News::	Legal Liner Notice - 0998	Public Meeting/Hear-ing Notices
<b>Scheduled Date(s):</b>	4/26/2013	
<b><u>Product</u></b>	<b><u>Placement</u></b>	<b><u>Position</u></b>
sltrib.com::	Legal Liner Notice - 0998	Public Meeting/Hear-ing Notices
<b>Scheduled Date(s):</b>	4/26/2013	
<b><u>Product</u></b>	<b><u>Placement</u></b>	<b><u>Position</u></b>
utahlegals.com::	utahlegals.com	utahlegals.com
<b>Scheduled Date(s):</b>	4/26/2013	

## Order Confirmation for Ad #0000875164-01

Ad Content Proof Actual Size

4770 S. 5600 W.  
 P.O. BOX 704005  
 WEST VALLEY CITY, UTAH 84170  
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 801-204-6910

The Salt Lake Tribune

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Deseret News

PROOF OF PUBLICATION

CUSTOMER'S COPY

CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	DATE
DIV OF OIL-GAS & MINING,  1594 W NORTH TEMP #1210 P.O. BOX 145801 SALT LAKE CITY, UT 84114	9001402352	4/26/2013

ACCOUNT NAME	
DIV OF OIL-GAS & MINING,	
TELEPHONE	ADORDER#
8015385340	0000875164 /
SCHEDULE	
Start 04/26/2013	End 04/26/2013
CUST. REF. NO.	
UIC-407	
CAPTION	
BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF	
SIZE	
62 Lines	3.00 CO
TIMES	
4	
MISC. CHARGES	
AD CH	
TOTAL	
875164	
317.48	

BEFORE THE DIVISION OF OIL, GAS AND MINING  
 DEPARTMENT OF NATURAL RESOURCES  
 STATE OF UTAH  
 NOTICE OF AGENCY ACTION  
 CAUSE NO. UIC-407

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTION 27, TOWNSHIP 9 SOUTH, RANGE EAST, AND SECTIONS 8, 13, AND 19, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

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

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 API 43-013-32834  
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 API 43-013-32770  
 West Point 14-8-9-16 well located in SE/4 SW/4, Section 8, Township 9 South, Range 16 East  
 API 43-013-32288  
 West Point 16-8-9-16 well located in SE/4 SE/4, Section 8, Township 9 South, Range 16 East  
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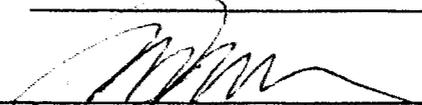
Dated this 24th day of April, 2013.

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

AFFIDAVIT OF PUBLICATION

AS NEWSPAPER AGENCY COMPANY, LLC dba MEDIAONE OF UTAH LEGAL BOOKER, I CERTIFY THAT THE ATTACHED ADVERTISEMENT OF BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH NOTICE OF AGENCY ACTION CAUSE NO. UIC-407 IN THE MATTER OF THE APPLICATION FOR DIV OF OIL-GAS & MINING, WAS PUBLISHED BY THE NEWSPAPER AGENCY COMPANY, LLC dba MEDIAONE OF UTAH, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET NEWS. DAILY NEWSPAPERS PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN UTAH, AND PUBLISHED IN SALT LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH. NOTICE IS ALSO POSTED ON UTAHLEGALS.COM ON THE SAME DAY AS THE FIRST NEWSPAPER PUBLICATION DATE AND REMAINS ON UTAHLEGALS.COM INDEFINITELY

PUBLISHED ON Start 04/26/2013 End 04/26/2013

SIGNATURE 

VIRGINIA CRAFT  
 Notary Public, State of Utah  
 Commission # 681450  
 My Commission Expires  
 January 12, 2014

4/26/2013

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 30 day of April, 20 13, and that the last publication of such notice was in the issue of such newspaper dated the 30 day of April, 20 13, and that said notice was published on Utahlegals.com on the same day as the first newspaper publication and the notice remained on Utahlegals.com until the end of the scheduled run.

Kevin Ashby  
Publisher

Subscribed and sworn to before me on this

1 day of May, 20 13

by Kevin Ashby.

Bonnie Parrish  
Notary Public

## NOTICE OF AGENCY ACTION CAUSE NO. UIC-407

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 SECTION 27, TOWNSHIP 9 SOUTH, RANGE 15 EAST, AND SECTIONS 8, 13, AND 19, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

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5340. If such a protest or notice of intervention is received, a hearing will be scheduled

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API 43-013-32770  
West Point 14-8-9-16 well located in SE/4 SW/4, Section 8, Township 9 South, Range 16 East

API 43-013-32288  
Federal 16-8-9-16 well located in SE/4 SE/4, Section 8, Township 9 South, Range 16 East

API 43-013-33061  
Federal 9-13T-9-16 well located in NE/4 SE/4, Section 13, Township 9 South, Range 16 East

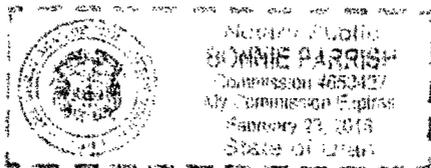
API 43-013-32954  
Federal 4-19-9-16 well located in NW/4

NW/4, Section Township 9 So Range 16 East

API 43-013-33 The proceeding will be conducted in accordance with Admin. R649-10, Administrative Procedures.

Selected zones in Green River Form will be used for injection. The maximum requested injection pressures and will be determined based on fracture gradient information submitted by New Production Company.

Any person wishing to object to application or otherwise intervene in the proceeding, 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, Permit Manager, at P.C. 145801, Salt Lake City, UT 84114-5801, telephone (801)



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

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

**Location:** 8/9S/16E      **API:** 43-013-33061

**Ownership Issues:** The proposed well is located on BLM land. The well is located in the Greater Monument Butte Unit. Lands in the one-half mile radius of the well are administered by the BLM and the State of Utah. The Federal Government and the State of Utah are the mineral owners within the area of review (AOR). Newfield and other various individuals hold the leases in the unit. Newfield has provided a list of all surface, mineral and 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 320 feet and has a cement top at the surface. A 5½ inch production casing is set at 6,104 feet. The cement bond log is somewhat problematic but appears to demonstrate adequate bond in this well up to about 2,850 feet. A 2 7/8 inch tubing with a packer is proposed to be set at 4,422 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, 3 injection wells, and 1 shut-in well in the AOR. In addition, there are 3 approved surface locations outside the AOR for directional wells to be drilled to bottom hole locations inside the AOR, and there is 1 approved surface location inside the AOR from which a directional well will be drilled to a bottom hole location outside the AOR. 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 2200 feet. Injection shall be limited to the interval between 4,018 feet and 6,065 feet in the Green River Formation. Information submitted by Newfield indicates that the fracture gradient for the 16-8-9-16 well is 0.80 psi/ft., which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 2,043 psig. The requested maximum pressure is 2,043 psig. We intend to permit this well at a maximum pressure of 2,000 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 16-8-9-16**

**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: 5/8/2013



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

May 22, 2013

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

Subject: Greater Monument Butte Unit Well: Federal 16-8-9-16, Section 8, Township 9 South, Range 16 East, SLBM, Duchesne County, Utah, API Well # 43-013-33061

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 4,018 feet in the Federal 16-8-9-16 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,

John Rogers  
Associate Director

JR/MLR/js

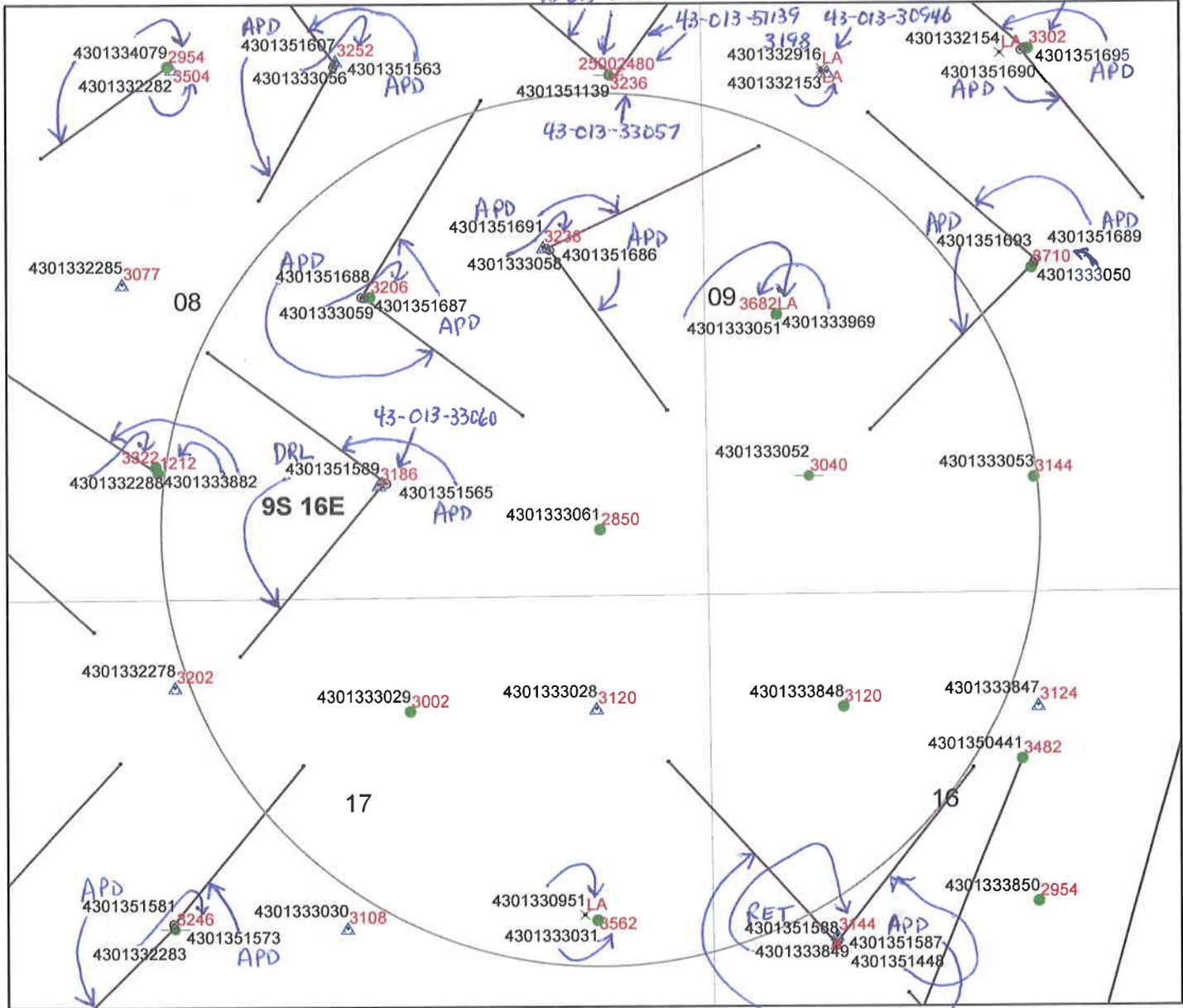
cc: Bruce Suchomel, Environmental Protection Agency  
Bureau of Land Management, Vernal  
SITLA  
Duchesne County  
Newfield Production Company, Myton  
Well File

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



43-013-32957

43-013-51136



### Legend

#### Oil & Gas Well Type

- APD-Approved Permit
- ⊙ DRL-Spudded (Drilling Commenced)
- ⊗ GIW-Gas Injection Well
- 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

## Cement Bond Tops Federal 16-8-9-16 API #43-013-33061 UIC-407.4



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



GARY R. HERBERT  
Governor

SPENCER J. COX  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

## UNDERGROUND INJECTION CONTROL PERMIT

Cause No. UIC-407

**Operator:** Newfield Production Company  
**Well:** Federal 16-8-9-16  
**Location:** Section 8, Township 9 South, Range 16 East  
**County:** Duchesne  
**API No.:** 43-013-33061  
**Well Type:** Enhanced Recovery (waterflood)

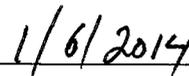
### Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on May 22, 2013.
2. Maximum Allowable Injection Pressure: 2,000 psig
3. Maximum Allowable Injection Rate: (restricted by pressure limitation)
4. Injection Interval: Green River Formation (4,018' – 6,065')
5. Any subsequent wells drilled within a ½ mile radius of this well shall have production casing cement brought up to or above the top of the unitized interval for the Greater Monument Butte Unit.

Approved by: \_\_\_\_\_

  
John Rogers  
Associate Director

\_\_\_\_\_  
Date



JR/MLR/js

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

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



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-64379
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>1. TYPE OF WELL</b> Oil 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 16-8-9-16
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630, Myton, UT, 84052		<b>9. API NUMBER:</b> 43013330610000
<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> 0418 FSL 0629 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESE 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

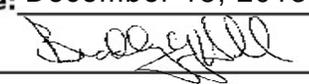
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/13/2013	<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 subject well has been converted from a producing oil well to an injection well on 11/12/2013. On 11/12/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 11/12/2013 the casing was pressured up to 1370 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 200 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: December 18, 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> 11/19/2013	

# Casing or Annulus Pressure Test

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

Witness: \_\_\_\_\_ Date 11/13/13 Time 10:57 am pm  
Test Conducted by: R. Ly Bugh  
Others Present: \_\_\_\_\_

Well: Federal 16-8-9-16 Field: Monument Butte  
Well Location: Federal 16-8-9-16 SE/SE sec 8 API No: 4301338061  
duchignau county Utah T9S, R16E

<u>Time</u>	<u>Casing Pressure</u>	
0 min	<u>1369</u>	psig
5	<u>1369</u>	psig
10	<u>1369</u>	psig
15	<u>1370</u>	psig
20	<u>1370</u>	psig
25	<u>1370</u>	psig
30 min	<u>1370</u>	psig
35	_____	psig
40	_____	psig
45	_____	psig
50	_____	psig
55	_____	psig
60 min	_____	psig

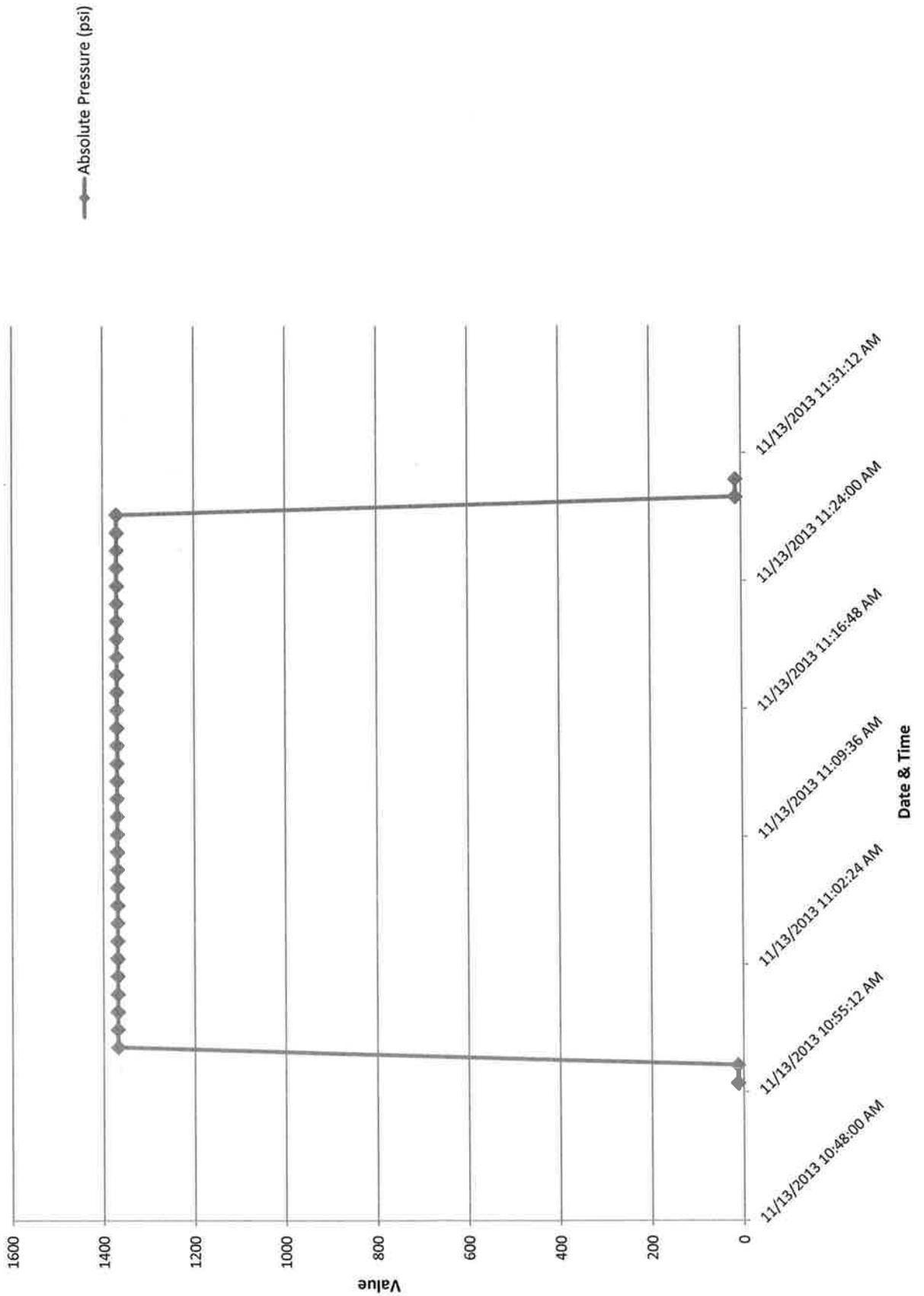
Tubing pressure: 200 psig

Result: Pass Fail

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

Signature of Person Conducting Test: R. Ly Bugh

### Federal 16-8-9-16 MIT (11-13-13)



**Daily Activity Report**

Format For Sundry

**FEDERAL 16-8-9-16****9/1/2013 To 1/30/2014****11/12/2013 Day: 2****Conversion**

WWS #5 on 11/12/2013 - TOO H breaking & redoping every connection. PU & TIH W/ RE entry guide 2 3/8" XN nipple 4' 2 3/8 TBG SUB 5 1/2 Arrow set-1 PKR, ON/OFF tool psn & 139 JTS 2 7/8 TBG, - 10:30 Load out & move from Jonah 3-11 to FED 16-8 MIRU same, pump 60 BBLS H2O down CSG, Remove head, beat on pump for 30 MIN unseated @ 16000# over string wt, flush rods W/ 15 BBLS H2O hot oiler broke down LD 1 1/2 X 22' polish rod 1-8' 1-4' 1-2' 3/4" Pony rods 94-3/4 4 PER 115-3/4 Slicks 10-3/4 4 PER 6-1 1/2 WT bars LD 2 1/2 X 1 1/2 X 14 1/2 RHAC John Crane pump Stopped once & flushed W/ 25 BBLS H2O CWI @ 5:30 5:30-6:30 Crew Travel Preferred 914\$ High desert 450\$ - 10:30 Load out & move from Jonah 3-11 to FED 16-8 MIRU same, pump 60 BBLS H2O down CSG, Remove head, beat on pump for 30 MIN unseated @ 16000# over string wt, flush rods W/ 15 BBLS H2O hot oiler broke down LD 1 1/2 X 22' polish rod 1-8' 1-4' 1-2' 3/4" Pony rods 94-3/4 4 PER 115-3/4 Slicks 10-3/4 4 PER 6-1 1/2 WT bars LD 2 1/2 X 1 1/2 X 14 1/2 RHAC John Crane pump Stopped once & flushed W/ 25 BBLS H2O CWI @ 5:30 5:30-6:30 Crew Travel Preferred 914\$ High desert 450\$ - 6:00-7:00 Crew Travel & Safety MTG 7:00 ND well head 5 1/2" B-2 TAC not set, strip on 5000# BOPS, RU floor & TBG works, TOO H breaking & redoping every connection W/ 139 JTS 2 7/8 TBG LD 42 JTS 2 7/8 TBG LD 5 1/2 B-2 TAC PSN & NC, stopped once & flushed W/ 30 BBLS H2O, PU & TIH W/ RE entry guide 2 3/8" XN nipple 4' 2 3/8 TBG SUB 5 1/2 Arrow set-1 PKR, ON/OFF tool psn & 139 JTS 2 7/8 TBG, pump 10 BBL pad, CIRC SV TO PSN test TBG to 3000 PSI for 30 MIN-Good test RU & RIH W/ Sandline RET POOH & rack out sandline, RD Floor & TBG works CWI @ 5:00 5:00-6:00 Crew Travel High Desert 2500 - 6:00-7:00 Crew Travel & Safety MTG 7:00 ND well head 5 1/2" B-2 TAC not set, strip on 5000# BOPS, RU floor & TBG works, TOO H breaking & redoping every connection W/ 139 JTS 2 7/8 TBG LD 42 JTS 2 7/8 TBG LD 5 1/2 B-2 TAC PSN & NC, stopped once & flushed W/ 30 BBLS H2O, PU & TIH W/ RE entry guide 2 3/8" XN nipple 4' 2 3/8 TBG SUB 5 1/2 Arrow set-1 PKR, ON/OFF tool psn & 139 JTS 2 7/8 TBG, pump 10 BBL pad, CIRC SV TO PSN test TBG to 3000 PSI for 30 MIN-Good test RU & RIH W/ Sandline RET POOH & rack out sandline, RD Floor & TBG works CWI @ 5:00 5:00-6:00 Crew Travel High Desert 2500

**Daily Cost:** \$0**Cumulative Cost:** \$23,436**11/13/2013 Day: 3****Conversion**

WWS #5 on 11/13/2013 - Strip off 5000# BOPS land TBG on well head. Good test RDMO @ 11:30 - 6:00-7:00 Crew Travel & Safety MTG 7:00 Strip off 5000# BOPS land TBG on well head, pump 60 BBLS fresh H2O & PKR fluid, set 5 1/2 arrow set-1 PKR W/ 15000# tension @ 4405' PSN @ 4399' EOT @ 4415', land TBG W/ B-1 adaptor flange, NU well head, Test CSG & PKR to 1400PSI for 30 MIN- Good test RDMO @ 11:30 High Desert 812.50\$

**Daily Cost:** \$0**Cumulative Cost:** \$27,128**11/14/2013 Day: 4****Conversion**

Rigless on 11/14/2013 - Conduct initial MIT - On 11/12/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 11/13/2013 the casing was pressured up to 1370 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 200 psig during the test.

There was not a State representative available to witness the test. **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$59,340

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**Pertinent Files: [Go to File List](#)**

# Federal 16-8-9-16

Spud Date: 02/06/07  
 Put on Production: 03/21/07  
 K.B.: 5876, G.L.: 5864

## Injection Wellbore Diagram

### SURFACE CASING

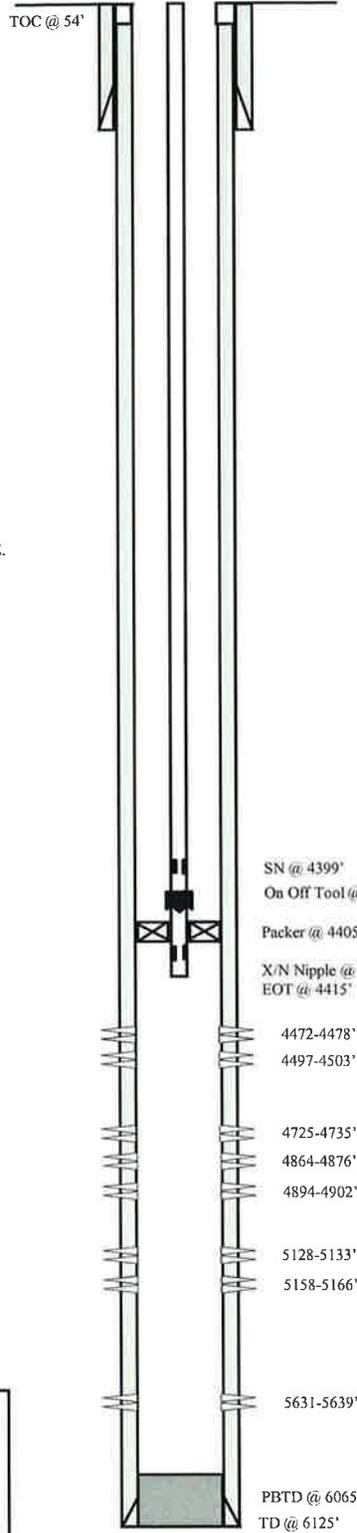
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (308.18')  
 DEPTH LANDED: 320.03' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 138 jts. (6054.21')  
 DEPTH LANDED: 6104.47' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 301 sxs Prem, Lite II mixed & 449 sxs 50/50 POZ.

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 139 jts (4386.6')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4398.6' KB  
 ON/OFF TOOL AT: 4399.7'  
 ARROW #1 PACKER CE AT: 4405.1'  
 XO 2-3/8 x 2-7/8 J-55 AT: 4409'  
 TBG PUP 2-3/8 J-55 AT: 4409.5'  
 X/N NIPPLE AT: 4413.7'  
 TOTAL STRING LENGTH: EOT @ 4415.24'



### FRAC JOB

03/13/07 5627-5732' **Frac CP2, sands as follows:**  
 26883# 20/40 sand in 357 bbls Lightning 17 frac fluid. Treated @ avg press of 2479 psi w/avg rate of 25.2 BPM. ISIP 2080 psi. Calc flush: 5730 gal. Actual flush: 5124 gal.

03/13/07 5128-5166' **Frac A3 sands as follows:**  
 24821# 20/40 sand in 347 bbls Lightning 17 frac fluid. Treated @ avg press of 2094 psi w/avg rate of 25.2 BPM. ISIP 2080 psi. Calc flush: 5164 gal. Actual flush: 4624 gal.

03/13/07 4864-4902' **Frac C sands as follows:**  
 95479# 20/40 sand in 684 bbls Lightning 17 frac fluid. Treated @ avg press of 1795 psi w/avg rate of 25.2 BPM. ISIP 2133 psi. Calc flush: 4900 gal. Actual flush: 4364 gal.

03/13/07 4725-4735' **Frac D1 sands as follows:**  
 45323# 20/40 sand in 377 bbls Lightning 17 frac fluid. Treated @ avg press of 1834 psi w/avg rate of 25.2 BPM. ISIP 2100 psi. Calc flush: 4733 gal. Actual flush: 4204 gal.

03/13/07 4472-4503' **Frac PB10, PB11 sands as follows:**  
 22086# 20/40 sand in 270 bbls Lightning 17 frac fluid. Treated @ avg press of 2550 psi w/avg rate of 25.3 BPM. ISIP 2425 psi. Calc flush: 4501 gal. Actual flush: 4368 gal.

11/12/13  
 11/13/13  
**Convert to Injection Well**  
**Conversion MIT Finalized** – update tbg detail

### PERFORATION RECORD

Date	Interval	Tool	Holes
03/01/07	5631-5639'	4 JSPF	32 holes
03/13/07	5158-5166'	4 JSPF	32 holes
03/13/07	5128-5133'	4 JSPF	20 holes
03/13/07	4894-4902'	4 JSPF	32 holes
03/13/07	4864-4876'	4 JSPF	48 holes
03/13/07	4725-4735'	4 JSPF	40 holes
03/13/07	4497-4503'	4 JSPF	24 holes
03/13/07	4472-4478'	4 JSPF	24 holes

**NEWFIELD**

**Federal 16-8-9-16**  
 418' FSL & 629' FEL  
 SE/SE Section 8-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33061; Lease #UTU-64379

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-64379
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>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 16-8-9-16
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>9. API NUMBER:</b> 43013330610000
<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> 0418 FSL 0629 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESE 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: 1/7/2014	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input checked="" type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input checked="" type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>

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

The above reference well was put on injection at 1:15 PM on  
01/07/2014.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
January 09, 2014**

<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> 1/9/2014	