

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

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		7. If Unit or CA Agreement, Name and No. N/A
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		8. Lease Name and Well No. Federal 16-20-9-16
2. Name of Operator Newfield Production Company		9. API Well No. 43-013-33109
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 716' FSL 920' FEL 573 712 X 40. 01116 At proposed prod. zone 4429128Y 110-156339		11. Sec., T., R., M., or Blk. and Survey or Area SE/SE Sec. 20, T9S R16E
14. Distance in miles and direction from nearest town or post office* Approximatley 15.2 miles southwest of Myton, Utah		12. County or Parish Duchesne
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 920' f/lse, NA' f/unit		13. State UT
16. No. of Acres in lease 2139.50		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. 1116'		20. BLM/BIA Bond No. on file UTB000192
19. Proposed Depth 5920'	21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6129' 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 	Name (Printed/Typed) Mandie Crozier	Date 3/21/06
Title Regulatory Specialist		
Approved by (Signature) 	Name (Printed/Typed) BRADLEY G. HILL ENVIRONMENTAL MANAGER	Date 04-25-06
Title		

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)

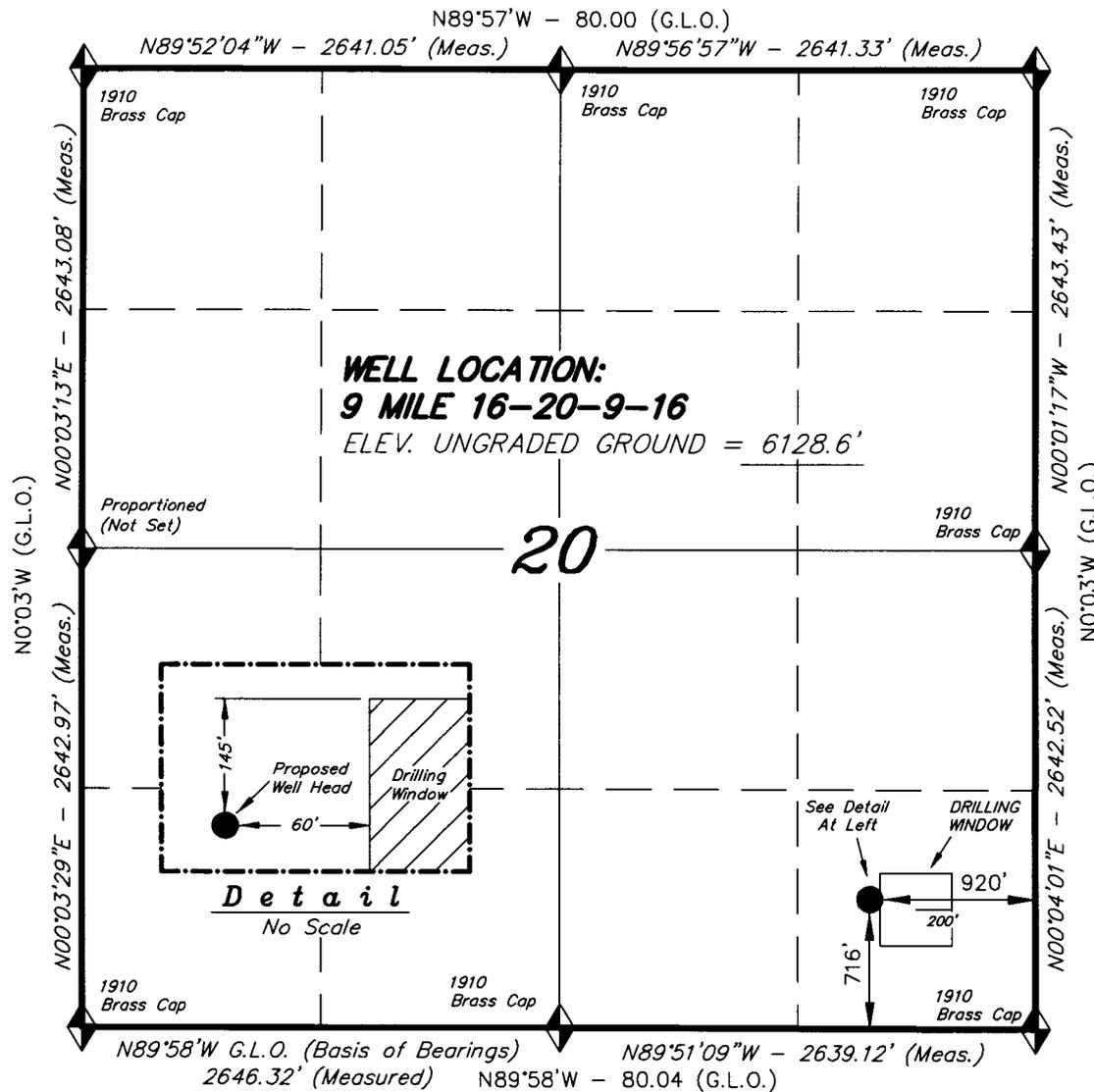
**Federal Approval of this  
Action is Necessary**

**MAR 23 2006**

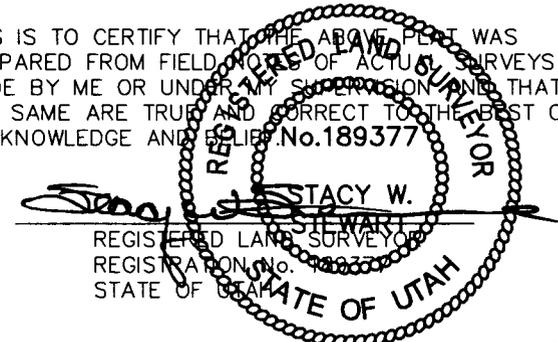
# T9S, R16E, S.L.B.&M.

# NEWFIELD PRODUCTION COMPANY

WELL LOCATION, 9 MILE 16-20-9-16,  
 LOCATED AS SHOWN IN THE SE 1/4 SE  
 1/4 OF SECTION 20, 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 16-20-9-16**  
**(Surface Location) NAD 83**  
 LATITUDE = 40° 00' 39.89"  
 LONGITUDE = 110° 08' 13.40"

## TRI STATE LAND SURVEYING & CONSULTING

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

DATE SURVEYED: 03-09-06	SURVEYED BY: C.M.
DATE DRAWN: 03-14-06	DRAWN BY: F.T.M.
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 Location: Federal 16-20-9-16  
716' FSL, 920' FEL SESE Sec 20-T9S-16E  
Duschene Cty., Utah; Lease UTU-74391

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 is an exception location under Rule 649-3-2, being 60' west of the drilling window tolerance for the SESE of Sec 20-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 to avoid a wash.

Please note the location is completely within Federal lease UTU-74391. 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, Yates Petroleum Corporation, Yates Drilling Company, Myco Industries, Inc. and Abo Petroleum Corporation. We have contacted these owners and their consent to this location 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

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

Laurie Deseau  
Properties Administrator

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

Exception Location  
Federal 16-20-9-16; Lease U-74391

Please be advised that Yates Petroleum Corporation, Yates Drilling Company, Myco Industries, Inc. and Abo Petroleum Corporation do not have an objection to the proposed location of the aforementioned well.

By: Ernest L. Carroll

Date: 04/13/2006

Ernest L. Carroll, Senior Landman  
Print Name and Title

Form 3160-3  
(September 2001)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

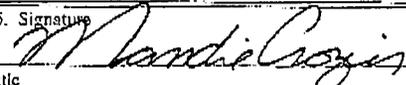
FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

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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		6. IF Indian, Allottee or Tribe Name N/A	
2. Name of Operator Newfield Production Company		7. If Unit or CA Agreement, Name and No. N/A	
3a. Address: Route #3 Box 3630, Myton UT 84052		8. Lease Name and Well No. Federal 16-20-9-16	
3b. Phone No. (include area code) (435) 646-3721		9. API Well No.	
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface SE/SE 716' FSL 920' FEL At proposed prod. zone		10. Field and Pool, or Exploratory Monument Butte	
14. Distance in miles and direction from nearest town or post office* Approximatley 15.2 miles southwest of Myton, Utah		11. Sec., T., R., M., or Bk. and Survey or Area SE/SE Sec. 20, T9S R16E	
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| 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).    |
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25. Signature 	Name (Printed/Typed) Mandie Crozier	Date 3/21/06
Title Regulatory Specialist		
Approved by (Signature)	Name (Printed/Typed)	Date
Title	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.

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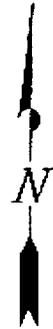
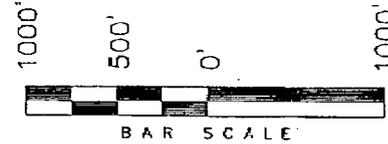
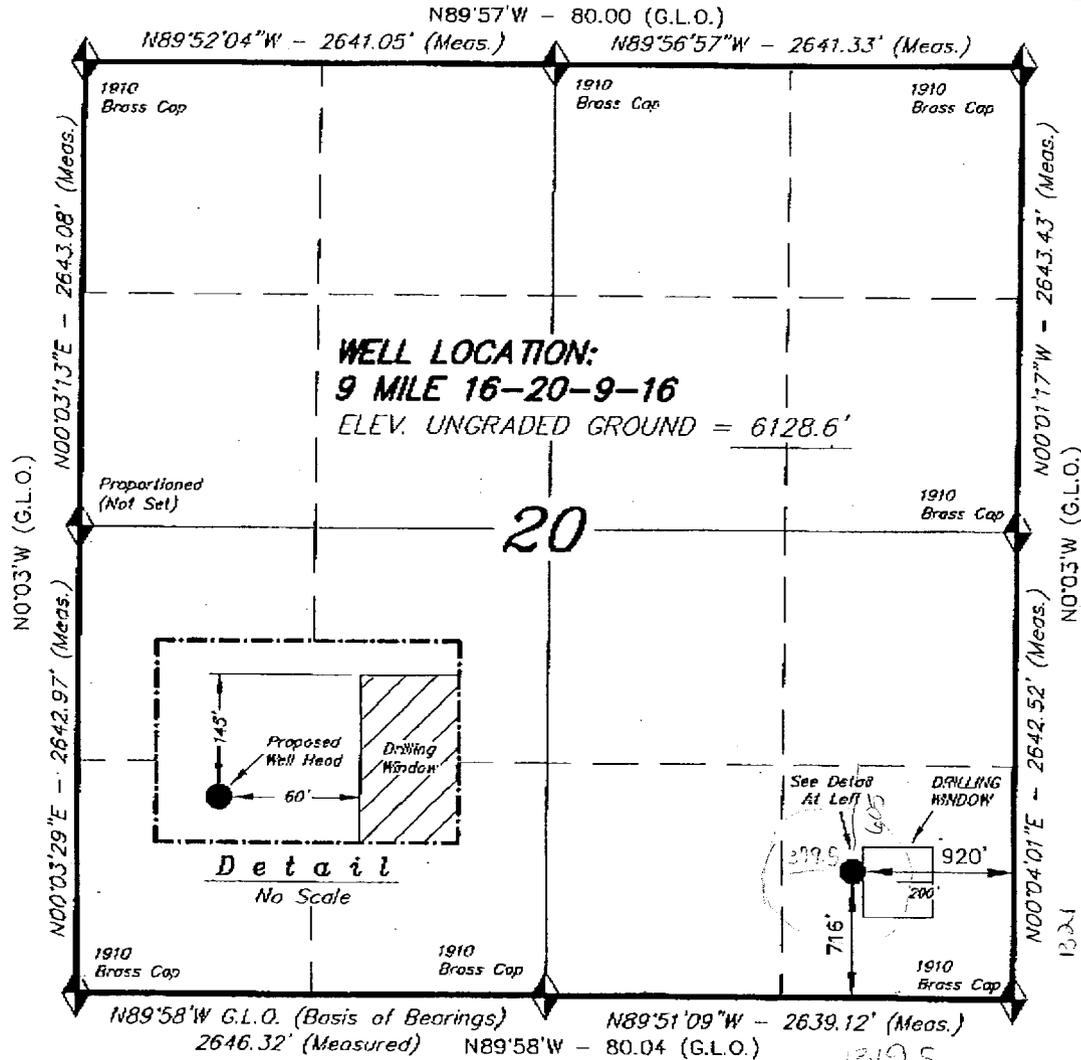
APR 24 2006

DIV. OF OIL, GAS & MINING

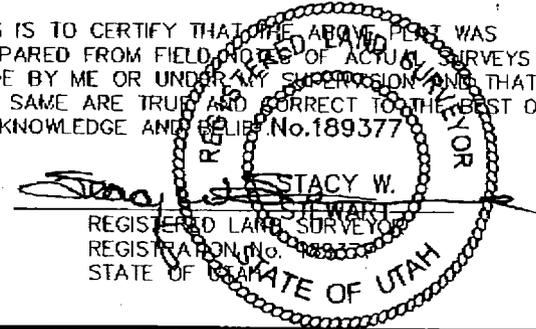
# T9S, R16E, S.L.B.&M.

## NEWFIELD PRODUCTION COMPANY

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



THIS IS TO CERTIFY THAT THE ABOVE PLAN WAS  
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MADE BY ME OR UNDER MY SUPERVISION AND THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST OF  
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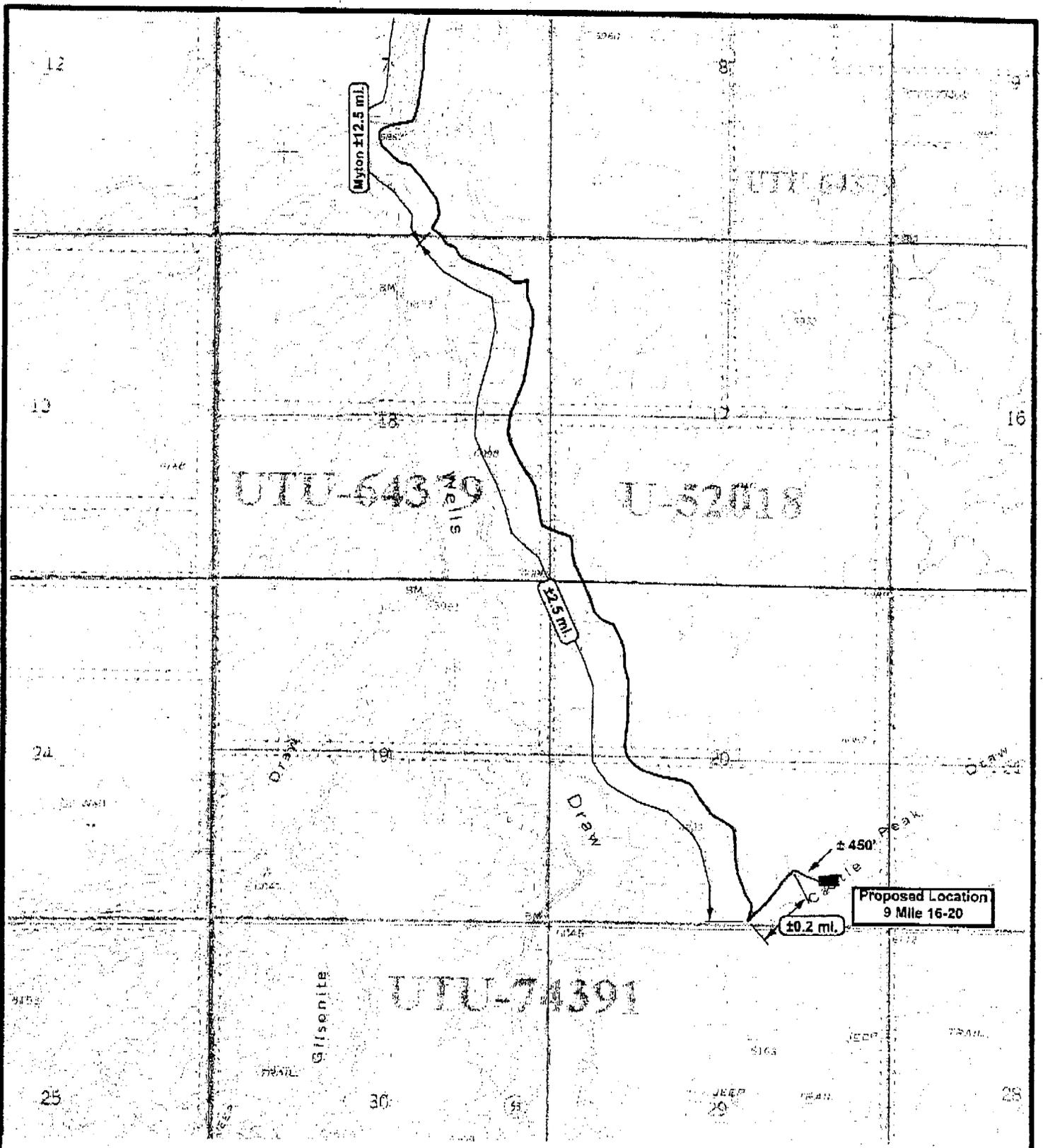


◆ = SECTION CORNERS LOCATED

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

<p>9 MILE 16-20-9-16 (Surface Location) NAD 83 LATITUDE = 40° 00' 39.89" LONGITUDE = 110° 08' 13.40"</p>
--

<b>TRI STATE LAND SURVEYING &amp; CONSULTING</b> 180 NORTH VERNAL AVE. - VERNAL, UTAH 84078 (435) 781-2501	
DATE SURVEYED: 03-09-06	SURVEYED BY: C.M.
DATE DRAWN: 03-14-06	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'




**NWFIELD**  
Exploration Company

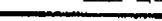
**9 Mile 16-20-9-16**  
**SEC. 20, T9S, R16E, S.L.B.&M.**




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

**SCALE: 1" = 2000'**  
**DRAWN BY: mw**  
**DATE: 03-14-2006**

**Legend**

-  Existing Road
-  Proposed Access

**TOPOGRAPHIC MAP**

**"B"**



March 21, 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: Federal 7-20-9-16, 8-20-9-16, 10-20-9-16,  
16-20-9-16, and 10-21-9-16.

Dear Diana:

---

Enclosed find APD's on the above referenced wells. The proposed Federal 16-20-9-16 location is an Exception Location. Our Land Department will send you the required Exception Location Letter. If you have any questions, feel free to give either Shon Mckinnon or myself a call.

Sincerely,

A handwritten signature in black ink that reads "Mandie Crozier".

Mandie Crozier  
Regulatory Specialist

mc  
enclosures

RECEIVED

MAR 23 2006

DIV. OF OIL, GAS & MINING

NEWFIELD PRODUCTION COMPANY  
FEDERAL #16-20-9-16  
SE/SE SECTION 20, 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' – 2325'
Green River	2325'
Wasatch	5920'

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

Green River Formation 2325' – 5920' - 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 #16-20-9-16  
SE/SE SECTION 20, T9S, R16E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**MULTI-POINT SURFACE USE & OPERATIONS PLAN**

**1. EXISTING ROADS**

See attached Topographic Map "A"

To reach Newfield Production Company well location site Federal #16-20-9-16 located in the SE 1/4 SE 1/4 Section 20, T9S, R16E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.6 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southwesterly - 10.9 miles  $\pm$  to it's junction with an existing road to the southeast; proceed southeasterly - 2.5 miles  $\pm$  to it's junction with an existing road to the northeast; proceed northeasterly - 0.2 miles  $\pm$  to it's junction with the beginning of the proposed access road to the southeast; proceed southeasterly along the proposed access road - 450'  $\pm$  to the proposed well location.

**2. PLANNED ACCESS ROAD**

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

**3. LOCATION OF EXISTING WELLS**

Refer to Exhibit "B".

**4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

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

**5. LOCATION AND TYPE OF WATER SUPPLY**

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

**6. SOURCE OF CONSTRUCTION MATERIALS**

Please refer to the Monument Butte Field SOP.

**7. METHODS FOR HANDLING WASTE DISPOSAL**

Please refer to the Monument Butte Field SOP.

**8. ANCILLARY FACILITIES**

Please refer to the Monument Butte Field SOP.

9. WELL SITE LAYOUT

See attached Location Layout Diagram.

10. PLANS FOR RESTORATION OF SURFACE

Please refer to the Monument Butte Field SOP.

11. SURFACE OWNERSHIP - Bureau Of Land Management

12. OTHER ADDITIONAL INFORMATION

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #05-225, 7/13/05. Paleontological Resource Survey prepared by. Wade E. Miller, 11/10/05. See attached report cover pages, Exhibit "D".

For the Federal #16-20-9-16 Newfield Production Company requests 450' of disturbed area be granted in Lease UTU-74391 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 for this location. 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 450' of disturbed area be granted in Lease UTU-74391 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:** Due to this proposed well access roads proximity (less than 0.5 mile) to an existing inactive golden eagle nest site, no new construction or surface disturbing activities will be allowed between March 1 and May 15. If the nest remains inactive on May 15<sup>th</sup> (based on a pre-construction survey by a qualified biologist), the operator may construct and drill the location between May 15 and March 1 of the following year. If the nest site becomes active prior to May 15, no new construction or surface disturbing activities will be allowed within 0.5 mile of the nest until the nest becomes inactive for two full breeding seasons. In the event that this well becomes a producing well, it must be equipped with a multi-cylinder engine or hospital muffler to reduce noise levels.

**Reserve Pit Liner**

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

**Location and Reserve Pit Reclamation**

Please refer to the Monument Butte Field SOP.

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

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

**Details of the On-Site Inspection**

The proposed Federal #16-20-9-16 was on-sited on 1/25/06. The following were present: Shon Mckinnon (Newfeild Production), Melissa Hawk (Bureau of Land Management), Chris Carusona (Bureau of Land Management), Todd McGrath (Bureau of Land Management), Brandon McDonald (Bureau of Landmanagement), and a SWCA Representative. Weather conditions were clear and ground cover was 50% open.

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

Representative

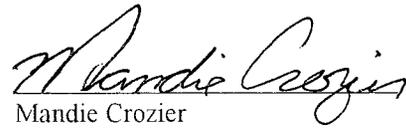
Name: Shon Mckinnon  
Address: Route #3 Box 3630  
Myton, UT 84052  
Telephone: (435) 646-3721

Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #16-20-9-16 SE/SE Section 20, Township 9S, Range 16E: Lease UTU-74391 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.

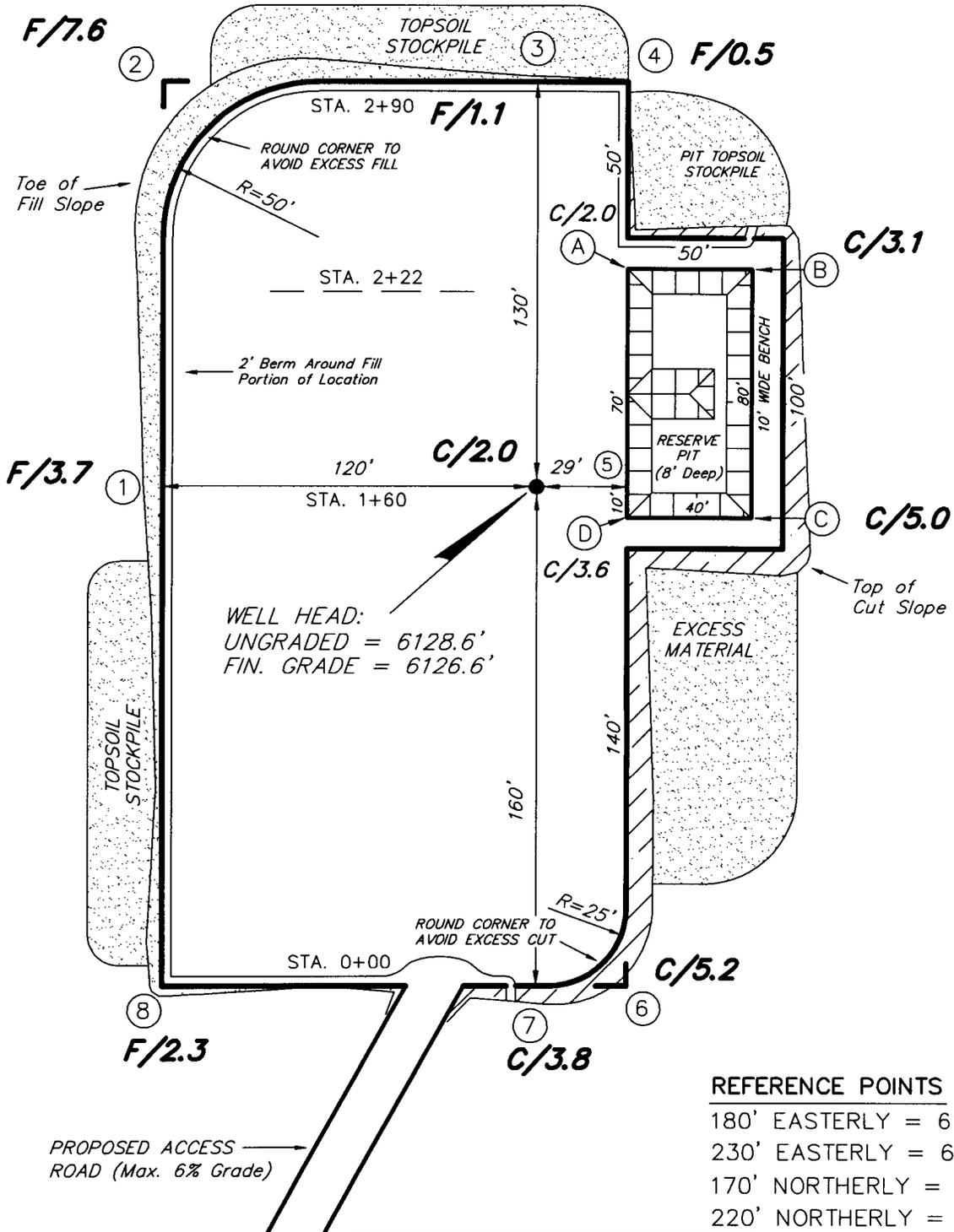
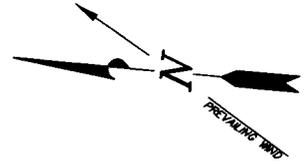
\_\_\_\_\_ 3/21/06  
Date

  
Mandie Crozier  
Regulatory Specialist  
Newfield Production Company

# NEWFIELD PRODUCTION COMPANY

9 MILE 16-20-9-16

Section 20, T9S, R16E, S.L.B.&M.



**REFERENCE POINTS**

- 180' EASTERLY = 6120.6'
- 230' EASTERLY = 6110.3'
- 170' NORTHERLY = 6119.7'
- 220' NORTHERLY = 6114.5'

SURVEYED BY: C.M.	SCALE: 1" = 50'
DRAWN BY: F.T.M.	DATE: 03-14-06

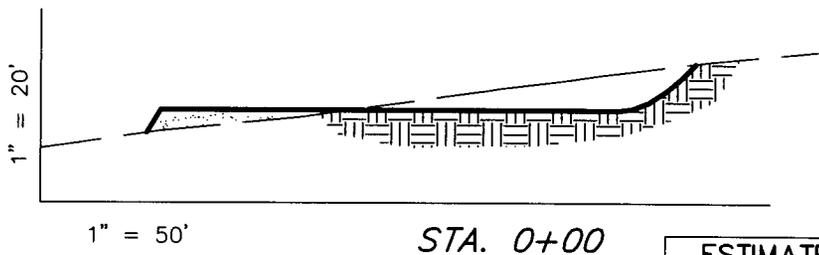
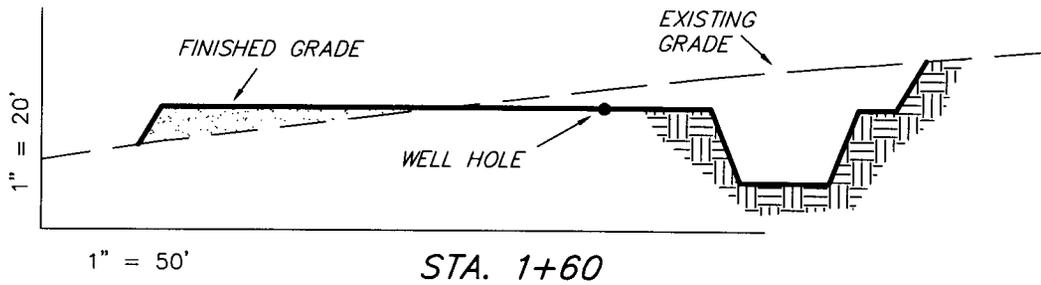
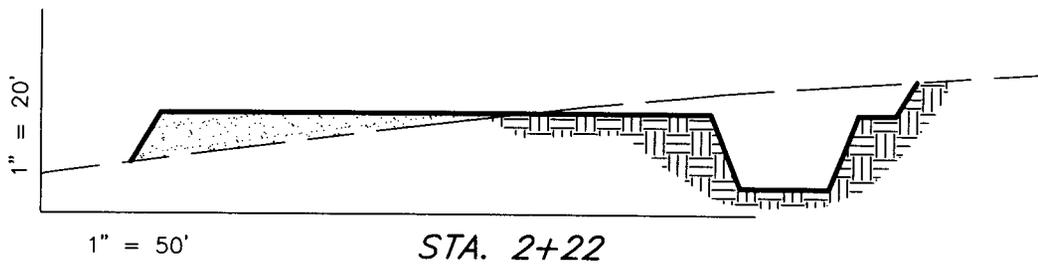
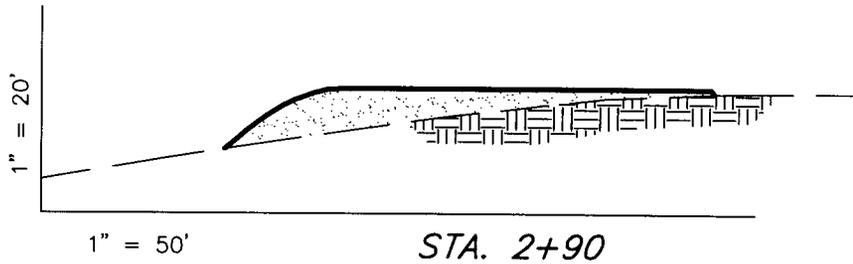
(435) 781-2501

**Tri State**  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS

### 9 MILE 16-20-9-16



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

ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)				
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	2,140	2,140	Topsoil is not included in Pad Cut	0
PIT	640	0		640
TOTALS	2,780	2,140	980	640

SURVEYED BY: C.M.

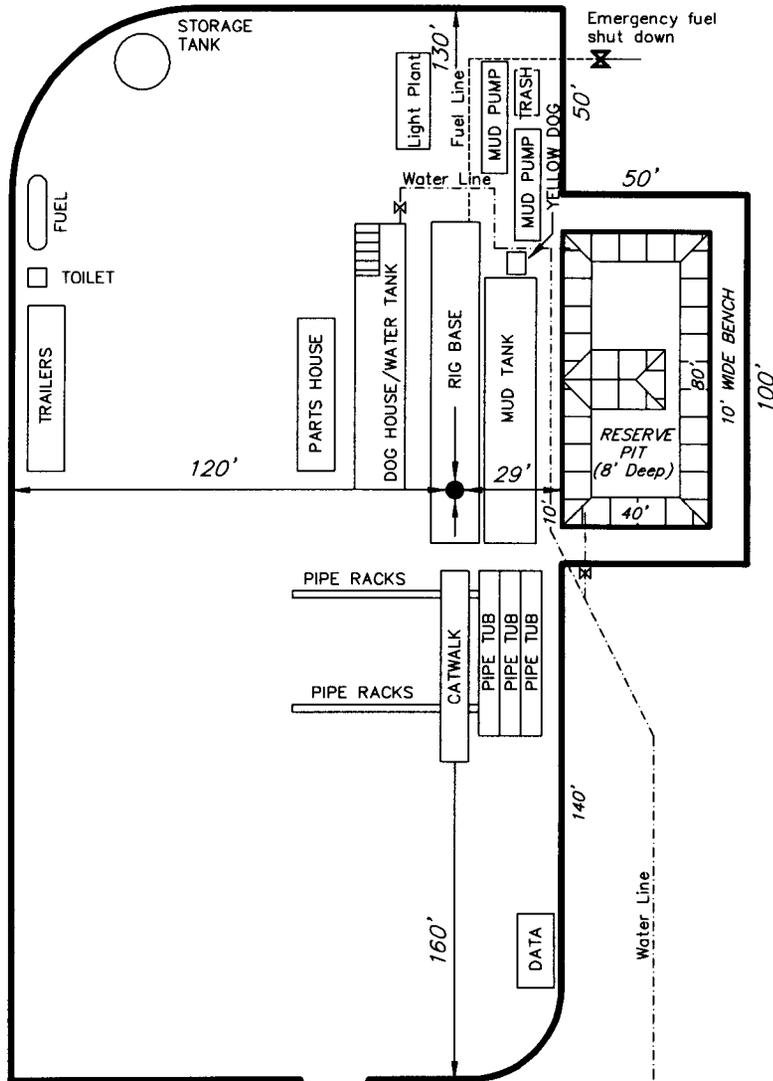
SCALE: 1" = 50'

DRAWN BY: F.T.M.

DATE: 03-14-06

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

**NEWFIELD PRODUCTION COMPANY**  
**TYPICAL RIG LAYOUT**  
**9 MILE 16-20-9-16**



PROPOSED ACCESS ROAD (Max. 6% Grade)

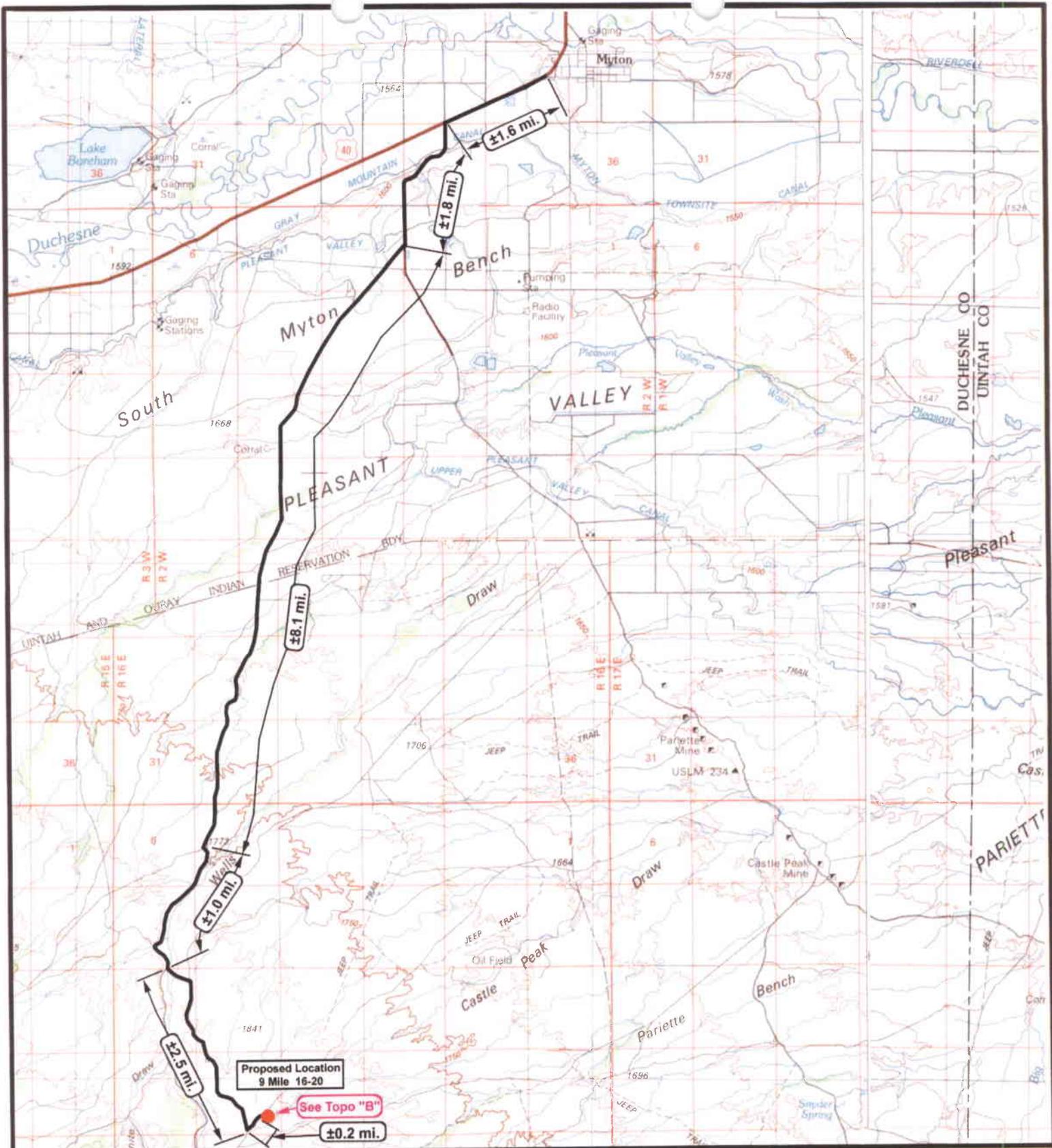
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**NEWFIELD**  
 Exploration Company

**9 Mile 16-20-9-16**  
**SEC. 20, T9S, R16E, S.L.B.&M.**



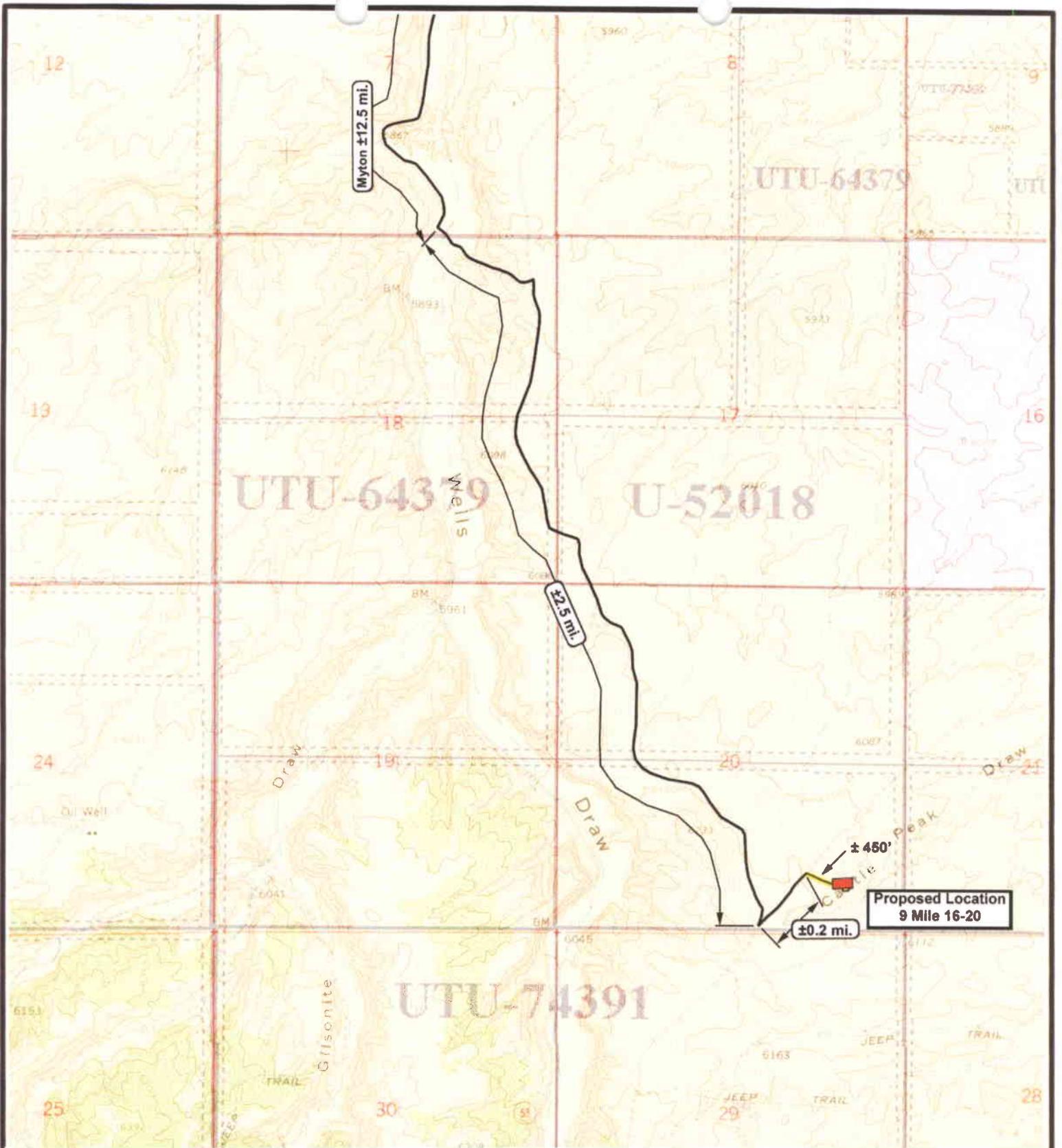
  
**Tri-State**  
*Land Surveying Inc.*  
 (435) 781-2501  
 180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1 = 100,000  
 DRAWN BY: mw  
 DATE: 03-14-2006

**Legend**

 Existing Road  
 Proposed Access

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



 **NEWFIELD**  
Exploration Company

---

**9 Mile 16-20-9-16**  
**SEC. 20, T9S, R16E, S.L.B.&M.**



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

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SCALE: 1" = 2000'  
DRAWN BY: mw  
DATE: 03-14-2006

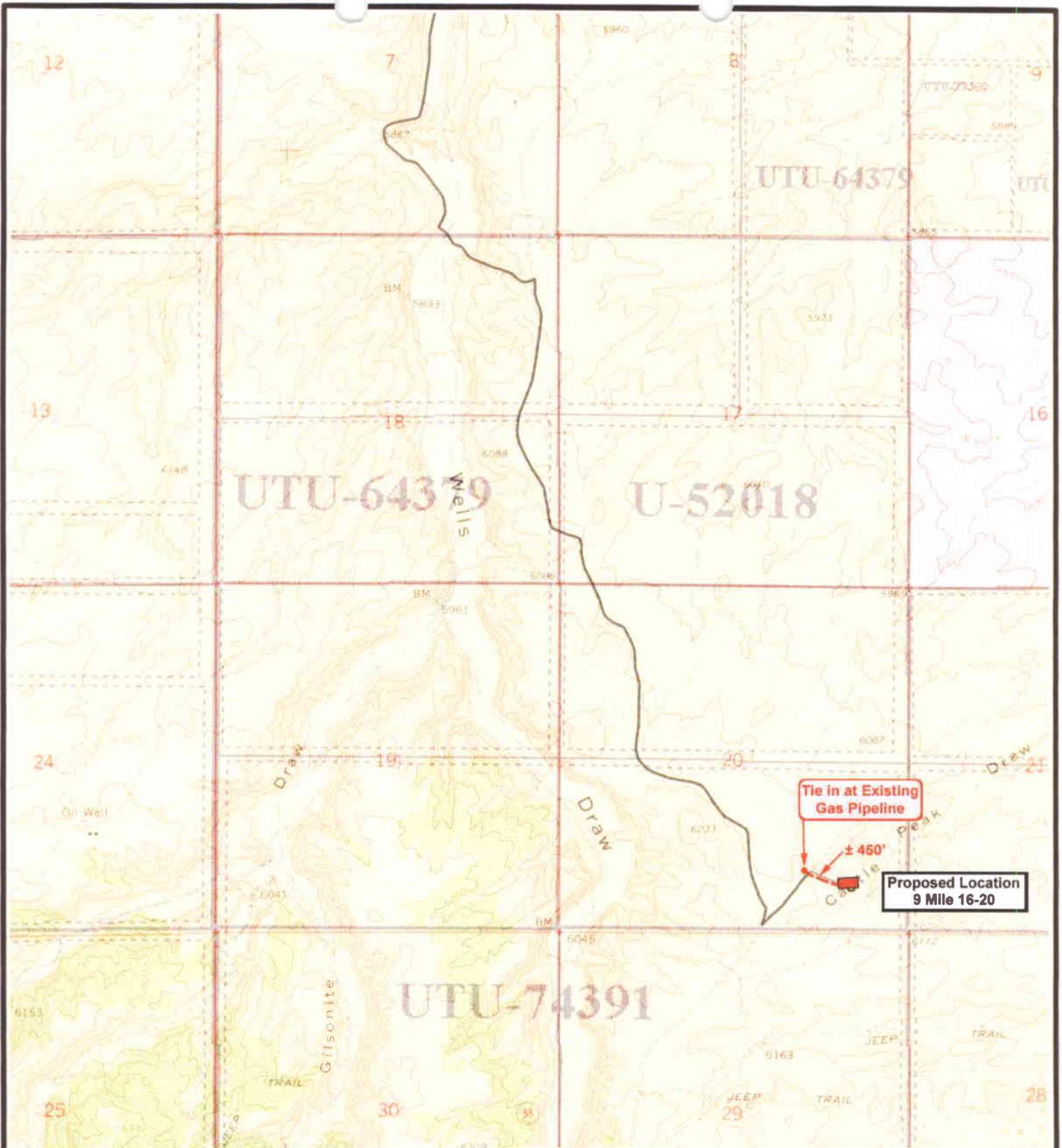
**Legend**

-  Existing Road
-  Proposed Access

---

TOPOGRAPHIC MAP

**"B"**



 **NEWFIELD**  
Exploration Company

**9 Mile 16-20-9-16**  
**SEC. 20, T9S, R16E, S.L.B.&M.**



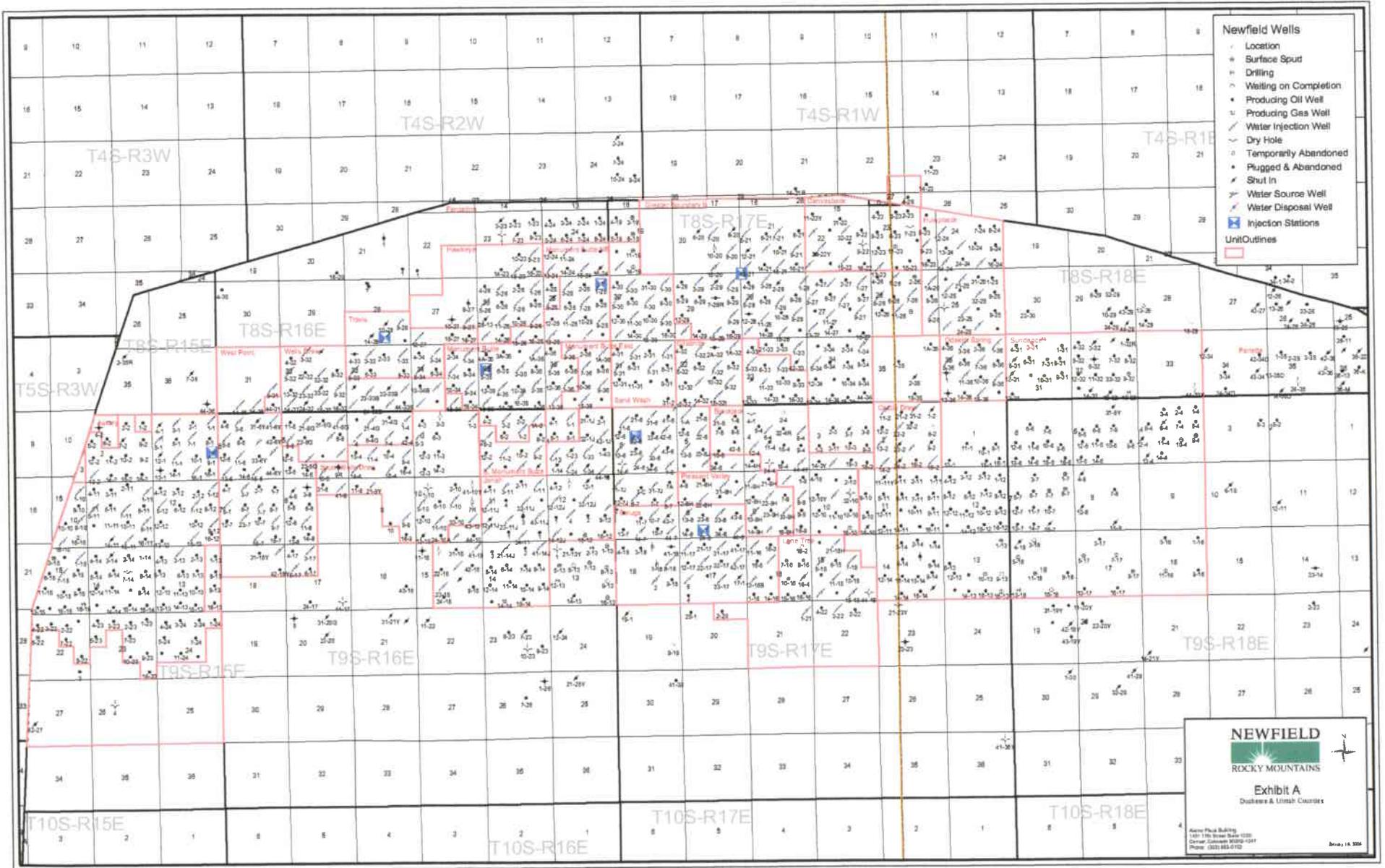
  
**Tri-State**  
*Land Surveying Inc.*  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

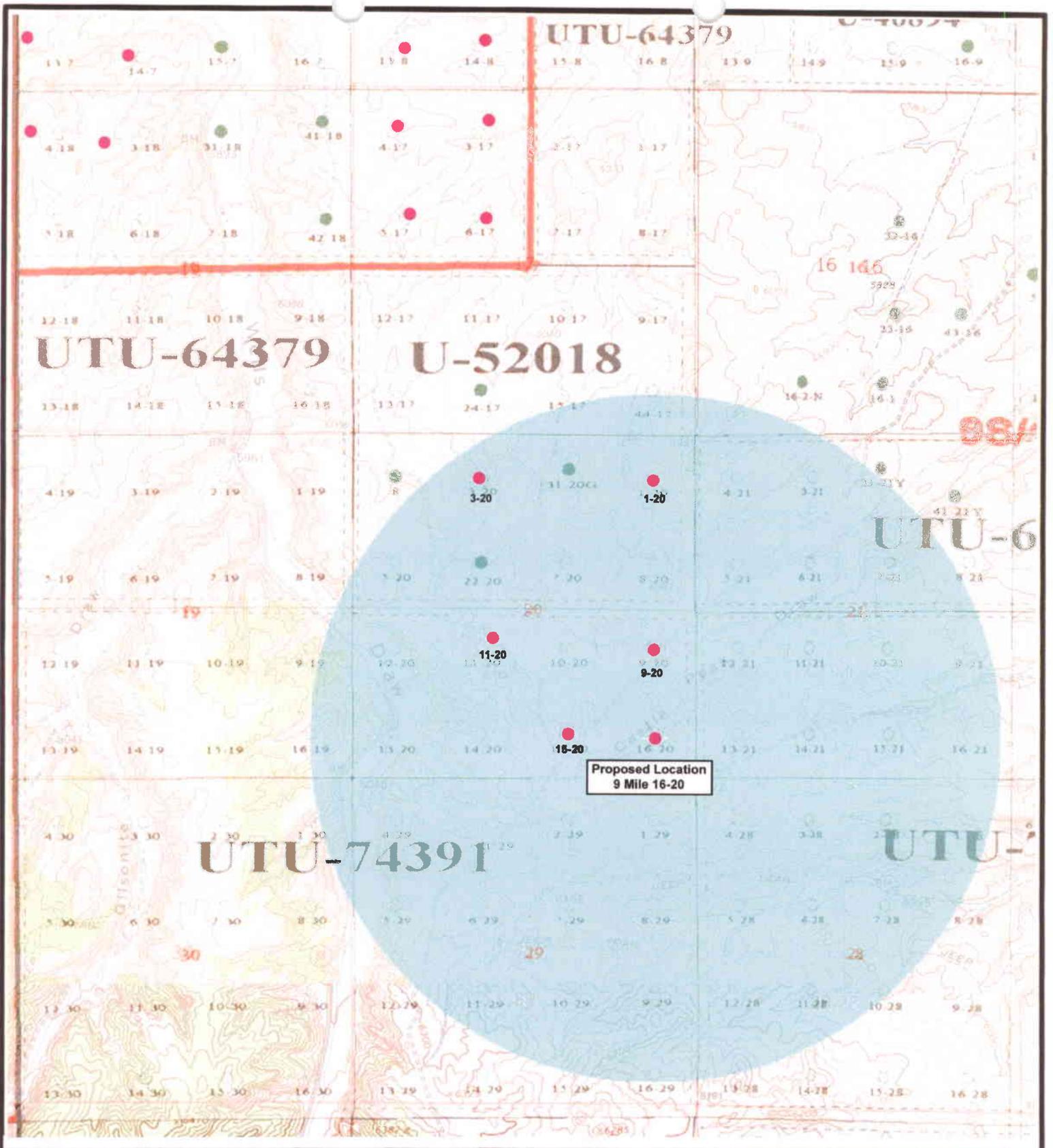
SCALE: 1" = 2000'  
DRAWN BY: mw  
DATE: 03-14-2006

**Legend**

-  Roads
-  Proposed Gas Line

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





 **NEWFIELD**  
Exploration Company

---

**9 Mile 16-20-9-16**  
**SEC. 20, 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: 03-14-2006

**Legend**

- Well Locations
- One-Mile Radius

---

**Exhibit "B"**

# 2-M SYSTEM

Blowout Prevention Equipment Systems

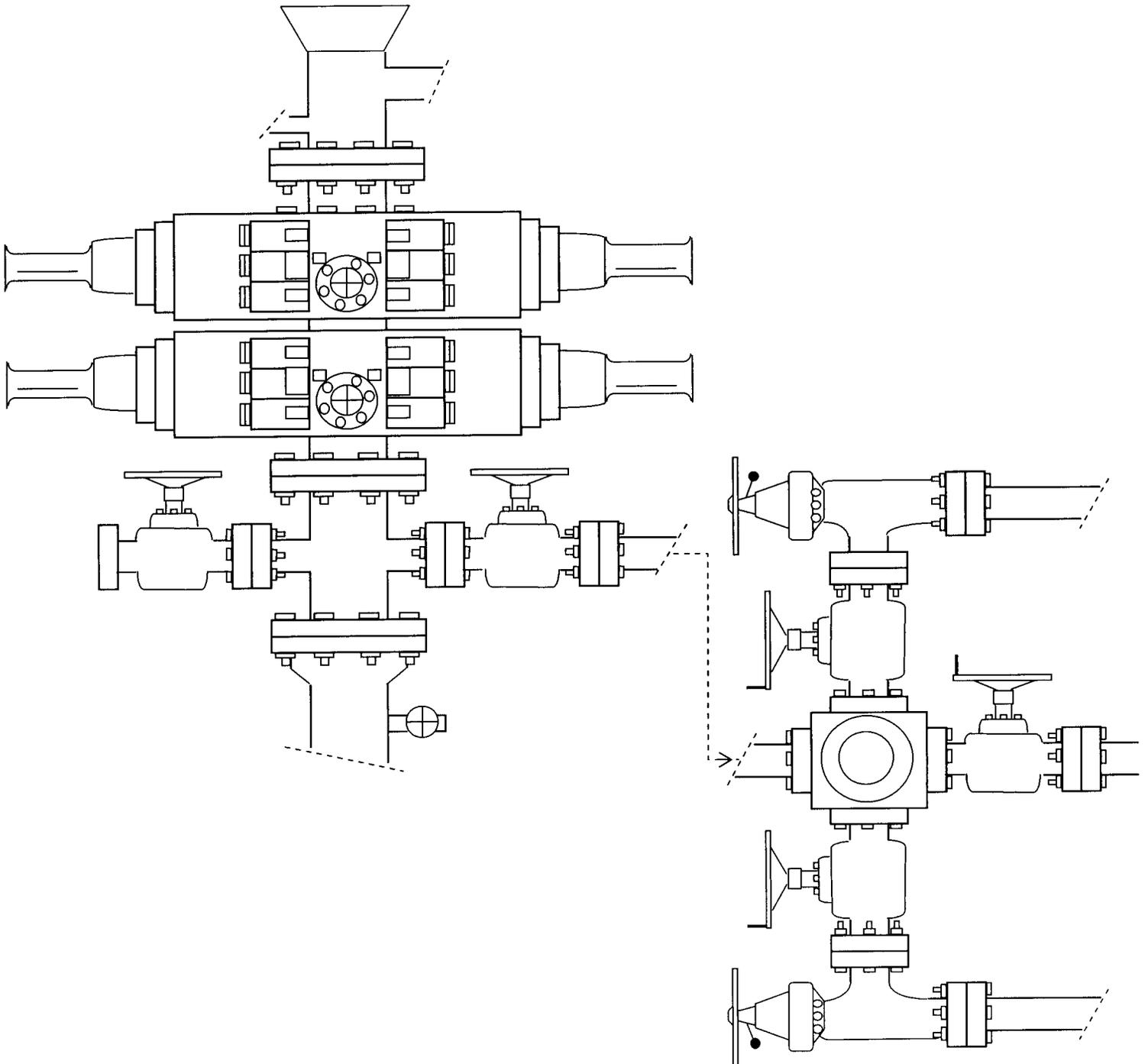


EXHIBIT C

Exhibit "D"  
Page 1 of 2

CULTURAL RESOURCE INVENTORY OF  
NEWFIELD EXPLORATION'S BLOCK PARCEL  
IN TOWNSHIP 9S, RANGE 16E, SECTION 19 AND 20,  
DUCHESNE COUNTY, UTAH

By:

Shari Maria Silverman

Prepared For:

Bureau of Land Management  
Vernal Field Office

Prepared Under Contract With:

Newfield Exploration Company  
Rt. 3 Box 3630  
Myton, UT 84052

Prepared By:

Montgomery Archaeological Consultants, Inc.  
P.O. Box 147  
Moab, Utah 84532

MOAC Report No. 05-225

July 13, 2005

United States Department of Interior (FLPMA)  
Permit No. 05-UT-60122

State of Utah Antiquities Project (Survey)  
Permit No. U-05-MQ-0668b

**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: 03/23/2006

API NO. ASSIGNED: 43-013-33109

WELL NAME: FEDERAL 16-20-9-16  
 OPERATOR: NEWFIELD PRODUCTION ( N2695 )  
 CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

SESE 20 090S 160E  
 SURFACE: 0716 FSL 0920 FEL  
 BOTTOM: 0716 FSL 0920 FEL  
 COUNTY: DUCHESNE  
 LATITUDE: 40.01112 LONGITUDE: -110.1363  
 UTM SURF EASTINGS: 573712 NORTHINGS: 4429138  
 FIELD NAME: MONUMENT BUTTE ( 105 )

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

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: UTU-74391  
 SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

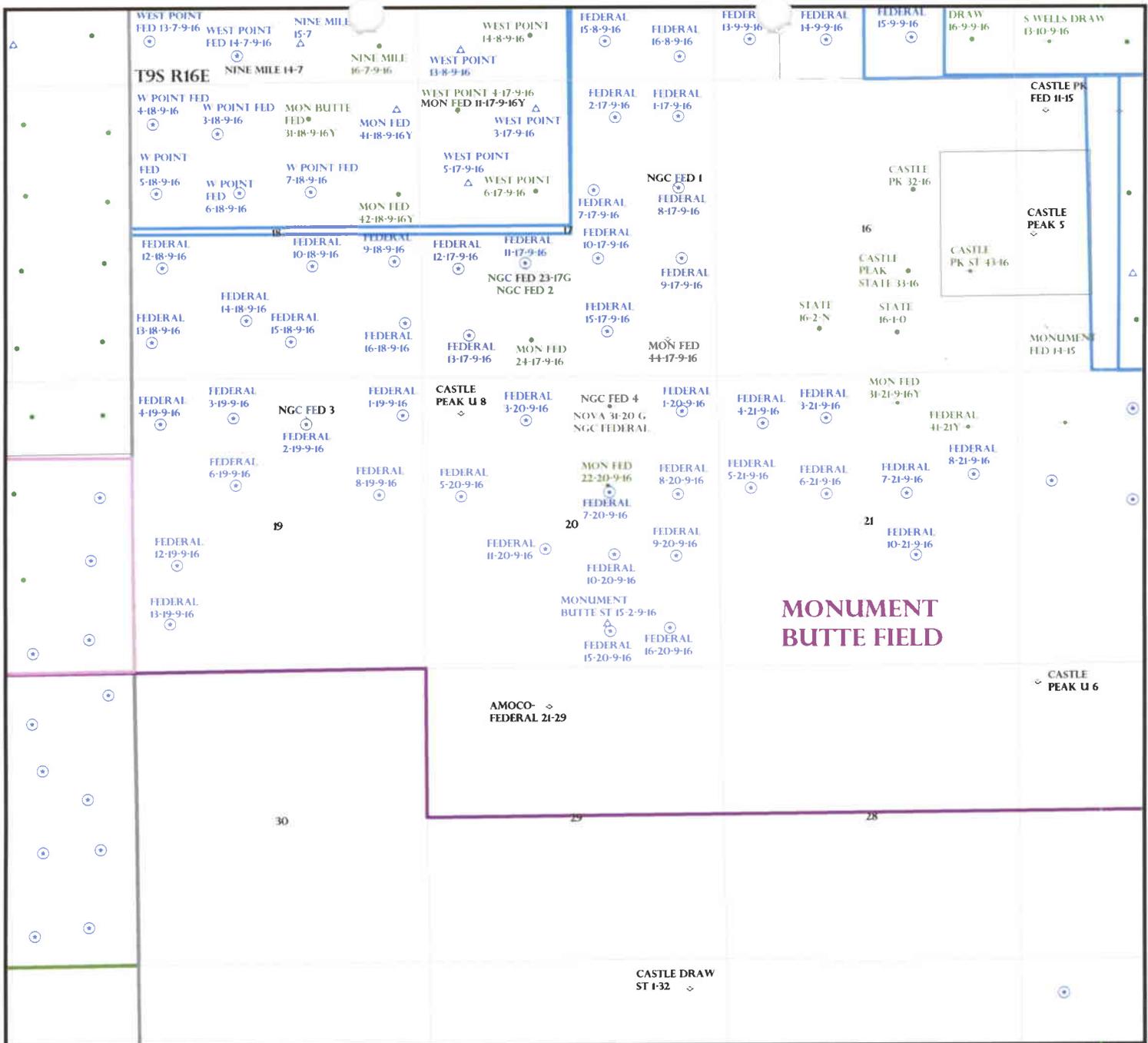
- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. UTB000192 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. MUNICIPAL )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

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 Strip



**MONUMENT BUTTE FIELD**

OPERATOR: NEWFIELD PROD CO (N2695)

SEC: ,20 T. 9S R. 16E

FIELD: MONUMENT BUTTE (105)

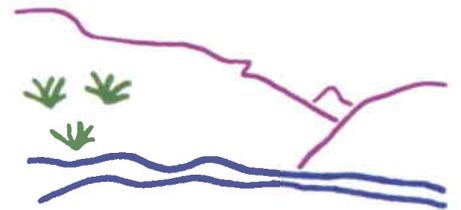
COUNTY: DUCHESNE

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: 24-MARCH-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 16-20-9-16 Well, 716' FSL, 920' FEL, SE SE, Sec. 20, 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 43-013-33109.

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 16-20-9-16  
API Number: 43-013-33109  
Lease: UTU-74391

Location: SE SE                      Sec. 20                      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

MAR 24 2006

ENVIRONMENTAL UTILITY

Form 3160-3  
(September 2001)

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-74391

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 16-20-9-16

9. API Well No.  
43 013 33109

1a. Type of Work:  DRILL  REENTER

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

2. Name of Operator  
Newfield Production Company

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

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

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 716' FSL 920' FEL  
At proposed prod. zone

11. Sec., T., R., M., or Blk. and Survey or Area  
SE/SE Sec. 20, T9S R16E

14. Distance in miles and direction from nearest town or post office\*  
Approximatley 15.2 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. 920' f/lse, NA' f/unit

16. No. of Acres in lease  
2139.50

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. 1116'

19. Proposed Depth  
5920'

20. BLM/BIA Bond No. on file  
UTB000192

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
6129' 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.
- 2. A Drilling Plan.
- 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).

- 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- 5. Operator certification.
- 6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature *Mandie Crozier* Name (Printed/Typed) Mandie Crozier Date 3/21/06  
Title Regulatory Specialist

Approved by (Signature) *Jerry Kewerka* Name (Printed/Typed) Jerry Kewerka Date 2-8-2007  
Title Field Manager Office Lands & Mineral Resources

Application approval 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.  
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)

RECEIVED

RECEIVED

JAN 14 2007

DIV. OF OIL, GAS & MINING

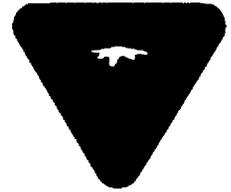


07BM4705A



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 20, T9S, R16E  
**Well No:** Federal 16-20-9-16      **Lease No:** UTU-74391  
**API No:** 43-013-33109      **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 Macdonald	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)***

**STIPULATIONS:**

Lands in this lease have been identified as containing Golden eagle and Ferruginous hawk habitat. Modifications to the Surface Use Plan of Operations may be required in order to protect the Golden eagle and Ferruginous hawk 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.

**CONDITIONS OF APPROVAL:**

1. All applicable local, state, and/or federal laws, regulations, and/or statutes will be complied with.
2. All traffic related to this action will be restricted to approved routes. Cross-country vehicle travel will not be allowed.
3. No vehicle travel, construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support vehicles and/or construction equipment. If such equipment creates ruts in excess of three inches deep, the soil shall be deemed too wet to adequately support construction equipment.
4. The access road will be crowned and ditched. Flat-bladed roads are not allowed.
5. If additional erosion occurs during the life of this project, more culverts, low water crossings, berms, wing ditches or etc. will be needed to control the erosion.
6. Low-water crossings will be appropriately constructed to avoid sedimentation of drainage ways and other water resources.
7. Pipelines will be buried at all major drainage crossings.
8. Prevent fill and stock piles from entering drainages.
9. The reserve pit will be lined with a 12 ml or greater liner and felt prior to spudding.
10. The liner is to be cut 5 feet below ground surface or at the level of the cuttings, whichever is deeper, and the excess liner material is to be disposed of at an authorized disposal site.
11. When the reserve pit contains fluids or toxic substances, the operator must ensure animals do not ingest or become entrapped in pit fluids.
12. If paleontologic or cultural materials are uncovered during construction, the operator shall immediately stop work that might further disturb or move such materials and contact the Authorized Officer (AO) within 48 hours. A determination will be made by the AO as to necessary mitigation for the discovered paleontologic/cultural material.
13. If Uinta Basin hookless cactus or other special status plants are found, construction will cease and the AO will be notified to determine the appropriate mitigation.

14. The interim seed mix for this location shall be:

Indian Ricegrass ( <i>Oryzopsis hymenoides</i> )	4 lbs/acre
Needle and Threadgrass ( <i>Stipa comata</i> ):	4 lbs/acre
Scarlet Globemallow ( <i>Sphaeralcea coccinea</i> ):	1 lb/acre
Winter Fat ( <i>Ceratoides lanata</i> )	3 lbs/acre

- All pounds are in pure live seed.
- Rates are set for drill seeding; double the rate if broadcasting.
- Reseeding may be required if initial seeding is not successful.

15. The operator will be responsible for treatment and control of invasive and noxious weeds.
16. The topsoil from the reserve pit shall be stripped and piled separately near the reserve pit. When the reserve pit is closed, it shall be re-contoured and the topsoil re-spread, and the area shall be seeded in the same manner as the location topsoil.
17. Once the location is plugged and abandoned, it shall be re-contoured to natural topology, topsoil shall be re-spread, and the entire location shall be seeded with a seed mix recommended by the AO (preferably of native origin). Seed application will follow all guidelines in the interim seed mix bullet statement above. If reclamation seeding should take place using the broadcast method, the seed at a minimum will be walked into the soil with a dozer immediately after the seeding is completed.
18. The authorized officer may prohibit surface disturbing activities during severe winter conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
19. The authorized officer may prohibit surface disturbing activities during wet or muddy conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
20. All well facilities not regulated by OSHA will be painted Carlsbad Canyon.
21. All boulders with a length or diameter greater than 3 feet, that are found showing at the surface, will be stockpiled for use during final reclamation.
22. Notify the Authorized Officer 48 hours prior to surface disturbing activities.

### **23. 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 a 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 (¼¼, Sec., Twn, Rng, and P.M.).
  - d. Date well was placed in a producing status (date of first production for which royalty will be paid).
  - e. The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - f. The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

**SUBMIT IN TRIPLICATE**

1. Type of Well

Oil Well     Gas Well     Other

2. Name of Operator

**NEWFIELD PRODUCTION COMPANY**

3. Address and Telephone No.

**Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721**

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

**716 FSL 920 FEL SE/SE Section 20, T9S R16E**

5. Lease Designation and Serial No.

**UTU-74391**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**N/A**

8. Well Name and No.

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

9. API Well No.

**43-013-33109**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UT.**

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

TYPE OF SUBMISSION

Notice of Intent  
 Subsequent Report  
 Final Abandonment Notice

TYPE OF ACTION

Abandonment  
 Recompletion  
 Plugging Back  
 Casing Repair  
 Altering Casing  
 Other **Permit Extension**

Change of Plans  
 New Construction  
 Non-Routine Fracturing  
 Water Shut-Off  
 Conversion to Injection  
 Dispose Water

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

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

Newfield Production Company requests to extend the Permit to Drill this well for one year. The original approval date was 4/25/06 (expiration 4/25/07).

This APD was approved by the BLM on 2/8/07.

Approved by the  
Utah Division of  
Oil, Gas and Mining

4-10-07  
RM

Date: 04-09-07  
By: [Signature]

RECEIVED  
APR 09 2007

DIV. OF OIL, GAS & MINING

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

Signed

[Signature]  
Mandie Crozier

Title

Regulatory Specialist

Date

4/4/2007

CC: UTAH DOGM

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

CC: Utah DOGM

**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 43-013-33109  
**Well Name:** Federal 16-20-9-16  
**Location:** SE/SE Section 20,T9S R16E  
**Company Permit Issued to:** Newfield Production Company  
**Date Original Permit Issued:** 4/25/2006

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes  No

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes  No

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes  No

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes  No

Has the approved source of water for drilling changed? Yes  No

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes  No

Is bonding still in place, which covers this proposed well? Yes  No

  
Signature

4/4/2007

Date

Title: Regulatory Specialist

Representing: Newfield Production Company

RECEIVED

APR 09 2007

DIV. OF OIL, GAS & MINING

# DIVISION OF OIL, GAS AND MINING

## **SPUDDING INFORMATION**

Name of Company: NEWFIELD PRODUCTION COMPANY

Well Name: FEDERAL 16-20-9-16

Api No: 43-013-33109 Lease Type: FEDERAL

Section 02 Township 09S Range 16E County DUCHESNE

Drilling Contractor NDSI RIG # NS#1

### **SPUDDED:**

Date 05/29/07

Time 4:30 PM

How DRY

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

Reported by TROY ZUFEIT

Telephone # (435) 823-6013

Date 05/31/07 Signed CHD

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

OPERATOR: **NEWFIELD PRODUCTION COMPANY**  
 ADDRESS: **RT. 3 BOX 3630**  
**MYTON, UT 84052**

OPERATOR ACCT. NO. **N2695**

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	16146	4301332958	FEDERAL 2-22-9-16	NWNE	22	9S	16E	DUCHESNE	5/23/2007	5/31/07
WELL 1 COMMENTS: <b>GRRV</b>											
A	99999	16147	4301333067	FEDERAL 3-20-9-16	NENW	20	9S	16E	DUCHESNE	5/23/2007	5/31/07
WELL 2 COMMENTS: <b>GRRV</b>											
B	99999	16148	4301333138	FEDERAL 5-15-9-16	SWNW	15	9S	16E	DUCHESNE	5/25/2007	5/31/07
WELL 3 COMMENTS: <b>GRRV * OUTSIDE JONAH BOUNDARIES</b>											
A	99999	16170	4301333109	FEDERAL 16-20-9-16	SESE	20	9S	16E	DUCHESNE	5/29/2007	6/14/07
WELL 4 COMMENTS: <b>GRRV</b>											
WELL 6 COMMENTS:											
WELL 5 COMMENTS:											

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

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

RECEIVED  
 MAY 31 2007

DIV. OF OIL, GAS & MINING

*Jentri Park*  
 Signature  
 Jentri Park  
 Production Clerk  
 April 18, 2007  
 Date

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

5. Lease Serial No.  
USA UTU-74391

6. If Indian, Allottee or Tribe Name.

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

8. Well Name and No.  
FEDERAL 16-20-9-16

9. API Well No.  
4301333109

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)  
716 FSL 920 FEL  
SESE Section 20 T9S R16E

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

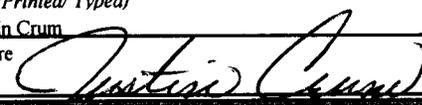
TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production(Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/>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

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

On 5/29/07 MIRU NDSI NS # 1. Spud well @ 4:30 PM. Drill 303' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24 # csgn. Set @ 306.32 KB. On 6/5/06 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.

RECEIVED  
JUN 08 2007  
DIV. OF OIL, GAS & MINING

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

Signature 

Title  
Drilling Foreman

Date  
06/06/2007

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)

8 5/8

LAST CASING 8 5/8" set @ 306.32  
 DATUM 12' KB  
 DATUM TO CUT OFF CASING \_\_\_\_\_  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER 303 LOGGER \_\_\_\_\_  
 HOLE SIZE 12 1/4

Newfield Production Company  
 6-20-9-16  
 Monument Butte  
 NDSI NS # 1

LOG OF CASING STRING:		
PIECES	OD	ITEM - MAKE - DESC
		Shoe 41.70'
		WHI - 92 csg head
7	8 5/8"	Maverick ST&C csg
<b>GUIDE</b>		
CASING INVENTORY BAL.		FEET
TOTAL LENGTH OF STRING		296.32
LESS NON CSG. ITEMS		1.00
PLUS FULL JTS. LEFT OUT		
TOTAL		294.32
TOTAL CSG. DEL. (W/O THRDS)		294.47
TIMING		1ST STAGE
BEGIN RUN CSG.	Spud	5/29/2007
CSG. IN HOLE		5/30/2007
BEGIN CIRC		6/5/2007
BEGIN PUMP CMT		6/5/2007
BEGIN DSPL. CMT		6/5/2007
PLUG DOWN		6/5/2007
CEMENT USED		
STAGE	# SX	
1	160	Class "G" w/ 2% CaCL <sub>2</sub>
CENTRALIZER & SCRATCHER PLACEMENT		
Centralizers - Middle first, top second & third		

THREAD	CONDT	LENGTH
8rd	A	0.95
8rd	A	295.42
8rd	A	0.9
RING		296.32
		2
CUT OFF CSG		12
		<b>306.32</b>

3 Yes  
 SURFACE 5  
 FOR NA  
120

1.17 cf/sk yield
WEIGHT & SPACING

COMPANY REPRESENTATIVE Justin Crum

DATE 6/6/2007

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.

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

1. Type of Well  
 Oil Well    Gas Well    Other

2. Name of Operator  
 NEWFIELD PRODUCTION COMPANY

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

3b. Phone    (include are code)  
                   435.646.3721

4. Location of Well    (Footage, Sec., T., R., M., or Survey Description)  
 716 FSL 920 FEL  
 SESE Section 20 T9S R16E

5. Lease Serial No.  
 USA UTU-74391

6. If Indian, Allottee or Tribe Name.

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

8. Well Name and No.  
 FEDERAL 16-20-9-16

9. API Well No.  
 4301333109

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

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

On 7/21/07 MIRU NDSI Rig # 1. Set all equipment. Pressure test Kelly, TIW, Choke manifold, & Bop's to 2,000 psi. Test 8.625 csgn to 1,500 psi. Vernal BLM field, & Roosevelt DOGM office was notified of test. PU BHA and tag cement @ 270'. Drill out cement & shoe. Drill a 7.875 hole with fresh water to a depth of 6,060'. Lay down drill string & BHA. Open hole log w/ Dig/SP/GR log's TD to surface. PU & TIH with Guide shoe, shoe jt, float collar, 155 jt's of 5.5 J-55, 15.5# csgn. Set @ 5978' / KB. Cement with 300 sks cement mixed @ 11.0 ppg & 3.49 yld. Then 400 sks cement mixed @ 14.4 ppg & 1.24 yld. With 0 bbls cement returned to pit. Nipple down Bop's. Drop slips @62,000 #'s tension. Release rig 6:00 AM 7/28/07

I hereby certify that the foregoing is true and correct (Printed/ Typed) Alvin Nielsen	Title Drilling Foreman
Signature <i>Alvin Nielsen</i>	Date 07/29/2007

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

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

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

(Instructions on reverse)

**RECEIVED**  
**JUL 31 2007**  
 DIV. OF OIL, GAS & MINING

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

5 1/2" CASING SET AT 5978.62

Fit clr @ 5939

LAST CASING 8 5/8" SET AT 306'

OPERATOR Newfield Production Company

DATUM 12

WELL Federal 16-20-9-16

DATUM TO CUT OFF CASING 12

FIELD/PROSPECT Monument Butte

DATUM TO BRADENHEAD FLANGE \_\_\_\_\_

CONTRACTOR & RIG # NDSI Rig # 1

TD DRILLER 6060' LOGGE 6070'

HOLE SIZE 7 7/8"

LOG OF CASING STRING:							
PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		Landing Jt					
		<b>Short jt @ 3931' 5.63'</b>					
<b>154</b>	<b>5 1/2"</b>	ETC LT & C casing	<b>15.5#</b>	<b>J-55</b>	<b>8rd</b>	<b>A</b>	5939.26
							0.6
<b>1</b>	<b>5 1/2"</b>	ETC LT&C csg	<b>15.5#</b>	<b>J-55</b>	<b>8rd</b>	<b>A</b>	38.11
		<b>GUIDE</b> shoe			<b>8rd</b>	<b>A</b>	0.65
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			5978.62
TOTAL LENGTH OF STRING		5978.62	155	LESS CUT OFF PIECE			
LESS NON CSG. ITEMS		1.25		PLUS DATUM TO T/CUT OFF CSG			
PLUS FULL JTS. LEFT OUT		172.4	4	CASING SET DEPTH			<b>5978.62</b>
TOTAL		<b>6149.77</b>	159	} COMPARE			
TOTAL CSG. DEL. (W/O THRDS)		6149.77	159				
TIMING		1ST STAGE	2nd STAGE				
BEGIN RUN CSG.		7/27/2007	11:00 AM	GOOD CIRC THRU JOB <u>YES</u>			
CSG. IN HOLE		7/28/2007	12:00 AM	Bbls CMT CIRC TO SURFACE <u>None</u>			
BEGIN CIRC		7/28/2007	12:00 AM	RECIPROCATED PIPE FOR _____ THRU _____ FT STROKE			
BEGIN PUMP CMT		7/28/2007	2:17 AM	DID BACK PRES. VALVE HOLD ? <u>YES</u>			
BEGIN DSPL. CMT		7/28/2007	2:59 AM	BUMPED PLUG TO <u>2173</u> PSI			
PLUG DOWN		7/28/2007	3:27 AM				
CEMENT USED				CEMENT COMPANY- <b>B. J.</b>			
STAGE	# SX			CEMENT TYPE & ADDITIVES			
<b>1</b>	<b>300</b>	Premilite II w/ 10% gel + 3 % KCL, 3#s /sk CSE + 2# sk/kolseal + 1/2#s/sk Cello Flake					
		mixed @ 11.0 ppg W / 3.49 cf/sk yield					
<b>2</b>	<b>400</b>	50/50 poz W/ 2% Gel + 3% KCL, .5%EC1, 1/4# sk C.F. 2% gel. 3% SM mixed @ 14.4 ppg W/ 1.24 YLD					
CENTRALIZER & SCRATCHER PLACEMENT			SHOW MAKE & SPACING				
Centralizers - Middle first, top second & third. Then every third collar for a total of 20.							

COMPANY REPRESENTATIVE Alvin Nielsen

DATE 7/28/2007

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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
USA UTU-74391

**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 16-20-9-16

2. NAME OF OPERATOR:

NEWFIELD PRODUCTION COMPANY

9. API NUMBER:  
4301333109

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: 716 FSL 920 FEL

COUNTY: DUCHESNE

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

STATE: UT

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: 08/30/2007	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Weekly Status Report
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

The above subject well was completed on 08/21/07, attached is a daily completion status report.

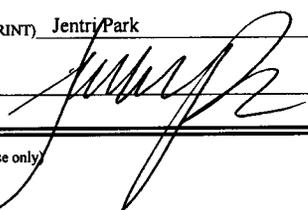
**RECEIVED**

**SEP 04 2007**

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

NAME (PLEASE PRINT) Jentri Park

TITLE Production Clerk

SIGNATURE 

DATE 08/30/2007

(This space for State use only)

**Daily Activity Report**

Format For Sundry

**FEDERAL 16-20-9-16****6/1/2007 To 10/30/2007****8/8/2007 Day: 1****Completion**

Rigless on 8/7/2007 - 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 @ 5918' & cement top @ 343'. Perforate stage #1 W/ 4" ported gun as follows: CP1 sds @ 5440-53' W/ 4 JSPF for total of 52 shots. RD WLT. SIFN W/ est 144 BWTR.

---

**8/14/2007 Day: 2****Completion**

Rigless on 8/13/2007 - RU BJ Services "Ram Head" frac flange. RU BJ & frac stage #1, CP1 sds down casing w/ 29,557#'s of 20/40 sand in 412 bbls of Lightning 17 frac fluid. Open well w/ 0 psi on casing. Perfs broke down @ 3183. Treated @ ave pressure of 2090 @ ave rate of 25.4 bpm w/ 6.5 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2215. 556 bbls EWTR. Leave pressure on well. RU Perforators LLC WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" (6K) composite flow through frac plug & 8' perf gun. When setting frac plug & 5120' charge went off but setting tool didn't shear off plug. Try to work loose. Decision made to pull off. Pulled out of rope socket. Flow well back. Well flowed back 20 bbls. SIFN. Wait on rig. Top of fish @ 5099' (3-1/8").

---

**8/15/2007 Day: 3****Completion**

Western #3 on 8/14/2007 - Open well w/ 0 psi on casing. MIRUSU. Cannot get tools in well due to welded bead on bell to thread nipple in 5-1/2" casing. ND BOP's & frac head. Get welder to grind bead off. Instal frac head. NU Cameron BOP's. Tally, pickup TIH w/ graphel, Bumper sub, Jares & 162 jts tbg to tag fish @ 5099'. RU pump & tanks. Circulate well clean. Lay down 2 jts tbg. SIFN.

---

**8/16/2007 Day: 4****Completion**

Western #3 on 8/15/2007 - Open well w/ 0 psi on casing. TIH w/ tbg & latch onto fish @ 5099'. Jar on fish for 3-1/2 hours to get loose. TOOH w/ tbg. LD fish tools. TIH w/ NC, 163 jts tbg to tag plug @ 5120'. Circulate well clean w/ KCL water. TOOH w/ tbg. SIFN. No water lose.

---

**8/17/2007 Day: 5****Completion**

Western #3 on 8/16/2007 - RU Zubiate Hot Oil & test frac plug, BOP's & frac head to 4500 psi. RU Perforators LLC WLT & lubricator. RIH w/ 8' perf gun. Perforate LODC sds @ 5027-35' w/ 3-1/8" Slick Guns ( 23 gram, .43HE", 120° ) w/ 4 spf for total of 32 shots. RU BJ Services "Ram Head" frac flange. BJ broke down. RU BJ & frac LODC sds, stage #2 down casing w/ 19,063#'s of 20/40 sand in 311 bbls of Lightning 17 frac fluid. Open well w/ 0 psi on casing. Perfs broke down @ 3462 psi. Treated @ ave pressure of 2091 @ ave rate of 24.8 bpm w/ 6.5 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2350. 847 bbls EWTR. Leave pressure on well. RU WLT. RIH Weatherford 5-1/2" composite flow through (10K) frac plug & 8' perf gun. Set plug @ 4880'. Perforate B1 sds @ 4771-79' w/ 4 spf for total of 32 shots. RU BJ & frac stage #3 w/ 46,260#'s of 20/40 sand in 432 bbls of Lightning 17 frac fluid. Open well w/ 1875 psi on casing. Perfs broke down @ 3882

psi. Treated @ ave pressure of 2079 @ ave rate of 24.8 bpm w/ 6.5 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 1940. 1279 bbls EWTR. Leave pressure on well. RU WLT. RIH frac plug & 8' perf gun. Set plug @ 4730'. Perforate C sds @ 4701-09' w/ 4 spf for total of 32 shots. RU BJ & frac stage #4 w/ 108,507#'s of 20/40 sand in 795 bbls of Lightning 17 frac fluid. Open well w/ 1570 psi on casing. Perfs broke down @ 3774 psi. Treated @ ave pressure of 2113 @ ave rate of 24.8 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 1995. 2074 bbls EWTR. Leave pressure on well. RU WLT. RIH frac plug & 8' perf gun. Set plug @ 4650'. Perforate D2 sds @ 4596-4604' w/ 4 spf for total of 32 shots. RU BJ & frac stage #5 w/ 44,879#'s of 20/40 sand in 429 bbls of Lightning 17 frac fluid. Open well w/ 1115 psi on casing. Perfs broke down @ 3349 psi. Treated @ ave pressure of 2001 ave rate of 24.8 bpm w/ 8 ppg of sand. ISIP was 1840. 2503 bbls EWTR. RD BJ & WLT. Flow well back. Well flowed for 5 hours & died w/ 350 bbls rec'd. SIFN.

**8/18/2007 Day: 6**

**Completion**

Western #3 on 8/17/2007 - Open well w/ 450 psi on casing. Well flowing 1/2 bpm w/ oil & gas show. Pump 55 bbls down casing pressured to 850 psi @ 1-1/2 bpm. Flow well back & ND Cameron BOP's & 5K frac head. Instal 3K tbg production head & Schaefer BOP's. TIH w/ 4-3/4" Chomp bit, bit sub & 149 jts tbg to tag sand @ 4620' (30'). RU Swivel, pump/tanks. C/O sand to plug drlg up plug #1. TIH w/ tbg to tag 50' sand, C/O to plug @ 4730'. Drlg up plug #2. TIH w/ tbg to tag 18' of sand. C/O to plug @ 4880'. Drlg up plug #3. TIH w/ tbg to tag 160' of sand, C/O to plug @ 5120'. Drlg out plug #4. TIH w/ tbg to tag 160' of sand. C/O to PBTD @ 5939'. Lay down 2 jts tbg. SIFN.

**8/21/2007 Day: 7**

**Completion**

Western #3 on 8/20/2007 - No pressure on well. RU swab equipment. IFL @ sfc. Made 15 swb runs rec 135 BTF W/ light gas, tr oil & no sand. FFL @ 1600'. TIH W/ tbg. Tag sd @ 5934' (5' new fill). C/O sd to PBTD @ 5939'. Circ hole clean. Lost est 45 BW & rec 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, 1 jt tbg, new CDI 5 1/2" TA (45K) & 172 jts 2 7/8 8rd 6.5# J-55 tbg. ND BOP. Set TA @ 5422' W/ SN @ 5456' & EOT @ 5521'. Land tbg W/ 16,000# tension. NU wellhead. PU & TIH W/ pump and "A" grade rod string to 2950'. PU polished rod & SIFN. Est 2018 BWTR.

**8/22/2007 Day: 8**

**Completion**

Western #3 on 8/21/2007 - Con't PU & TIH W/ pump and "A" grade rod string f/ 2950' (complete as follows): new CDI 2 1/2" X 1 1/2" X 18' RHAC pump, 6-1 1/2" weight rods, 20-3/4" scraped rods, 92-3/4" plain rods, 100-3/4" scraped rods, 1-8' & 1-2' X 3/4" pony rods and 1 1/2" X 26' polished rod. Seat pump & RU pumping unit. Fill tbg W/ 2 BW. Pressure test tbg & pump to 200 psi. Stroke pump up W/ unit to 800 psi. Good pump action. RDMOSU. Est 2020 BWTR. Place well on production @ 12:00 PM 8/21/2007 W/ 102" SL @ 5 SPM. FINAL REPORT!!

**Pertinent Files: Go to File List**

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

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

5. LEASE DESIGNATION AND SERIAL NO.

**UTU-74391**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NA

7. UNIT AGREEMENT NAME

Federal

8. FARM OR LEASE NAME, WELL NO.

Federal 16-209-14

9. WELL NO.

43-013-33109

10. FIELD AND POOL OR WILDCAT

Monument Butte

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

Sec. 20, T9S, R16E

1a. TYPE OF WORK

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

1b. TYPE OF WELL

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

2. NAME OF OPERATOR

Newfield Exploration Company

3. ADDRESS AND TELEPHONE NO.

1401 17th St. Suite 1000 Denver, CO 80202

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

At Surface 716' FSL & 920' FEL (SE/SE) Sec. 20, T9S, R16E

At top prod. Interval reported below

At total depth

14. API NO.

43-013-33109

DATE ISSUED

04/25/07

12. COUNTY OR PARISH

Duchesne

13. STATE

UT

15. DATE SPUNDED

05/29/07

16. DATE T.D. REACHED

07/26/07

17. DATE COMPL. (Ready to prod.)

08/20/07

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

6129' GL

19. ELEV. CASINGHEAD

6141' KB

20. TOTAL DEPTH, MD & TVD

6060'

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

5939'

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 4596'-5453'

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

23. 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#	306'	12-1/4"	To surface with 160 sx Class "G" cmt	
5-1/2" - J-55	15.5#	5979'	7-7/8"	300 sx Premlite II and 400 sx 50/50 Poz	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	EOT @ 5521'	TA @ 5422'

30. TUBING RECORD

31. PERFORATION RECORD (Interval, size and number)

INTERVAL	SIZE	SPF/NUMBER	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
(CP1) 5440'-5453'	.46"	4/52	5440'-5453'	Frac w/ 29,557# 20/40 sand in 412 bbls fluid
(LODC) 5027'-5035'	.43"	4/32	5027'-5035'	Frac w/ 19,063# 20/40 sand in 311 bbls fluid
(B1) 4771'-4779'	.43"	4/32	4771'-4779'	Frac w/ 46,260# 20/40 sand in 432 bbls fluid
(C) 4701'-4709'	.43"	4/32	4701'-4709'	Frac w/ 108,507# 20/40 sand in 795 bbls fluid
(D2) 4596'-4604'	.43"	4/32	4596'-4604'	Frac w/ 44,879# 20/40 sand in 429 bbls fluid

33.\* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump)	WELL STATUS (Producing or shut-in)					
08/20/07	2-1/2" x 1-1/2" x 18' RHAC SM Plunger Pump	PRODUCING					
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL--BBL.	GAS--MCF.	WATER--BBL.	GAS-OIL RATIO
10 day ave			----->	84	0	31	0
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	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

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

TITLE

Production Clerk

DATE

9/7/2007

Jentz 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 16-20-9-16	Garden Gulch Mkr	3532'	
				Garden Gulch 1	3751'	
				Garden Gulch 2	3857'	
				Point 3 Mkr	4097'	
				X Mkr	4365'	
				Y-Mkr	4397'	
				Douglas Creek Mkr	4509'	
				BiCarbonate Mkr	4741'	
				B Limestone Mkr	4831'	
				Castle Peak	5398'	
				Basal Carbonate	5839'	
				Wasatch	5964'	
				Total Depth (LOGGERS)	6070'	

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.

**SUBMIT IN TRIPlicate** (Other instructions on reverse side)

1. Type of Well  
 Oil Well    Gas Well    Other

2. Name of Operator  
 NEWFIELD PRODUCTION COMPANY

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

3b. Phone    (include area code)  
                   435.646.3721

4. Location of Well    (Footage, Sec., T., R., M., or Survey Description)  
 716 FSL 920 FEL  
 SESE Section 20 T9S R16E

5. Lease Serial No.  
 USA UTU-74391

6. If Indian, Allottee or Tribe Name.

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

8. Well Name and No.  
 FEDERAL 16-20-9-16

9. API Well No.  
 4301333109

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

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 Promer	Title Regulatory Specialist
Signature <i>Mandie Promer</i>	Date 08/22/2007

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

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

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

(Instructions on reverse)

**RECEIVED**  
**AUG 24 2007**  
DIV. OF OIL, GAS & MINING

**NEWFIELD**



**Newfield Exploration Company**

1001 17th Street | Suite 2000

Denver, Colorado 80202

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

April 22, 2013

RECEIVED

APR 24 2013

DIV. OF OIL, GAS & MINING

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

RE: Permit Application for Water Injection Well  
Federal #16-20-9-16  
Monument Butte Field, Lease #UTU-74391  
Section 20-Township 9S-Range 16E  
Duchesne County, Utah

Dear Mr. Reinbold:

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

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

Sincerely,

Eric Sundberg  
Environmental Manager

**NEWFIELD PRODUCTION COMPANY**  
**APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL**  
**FEDERAL #16-20-9-16**  
**MONUMENT BUTTE FIELD (GREEN RIVER) FIELD**  
**LEASE #UTU-74391**  
**APRIL 22, 2013**

## TABLE OF CONTENTS

LETTER OF INTENT	
COVER PAGE	
TABLE OF CONTENTS	
UIC FORM 1 – APPLICATION FOR INJECTION WELL	
WELLBORE DIAGRAM OF PROPOSED INJECTION	
WORK PROCEDURE FOR INJECTION CONVERSION	
COMPLETED RULE R615-5-1 QUESTIONNAIRE	
COMPLETED RULE R615-5-2 QUESTIONNAIRE	
ATTACHMENT A	ONE-HALF MILE RADIUS MAP
ATTACHMENT A-1	WELL LOCATION PLAT
ATTACHMENT B	LIST OF SURFACE OWNERS WITHIN ONE-HALF MILE RADIUS
ATTACHMENT C	CERTIFICATION FOR SURFACE OWNER NOTIFICATION
ATTACHMENT E	WELLBORE DIAGRAM – FEDERAL #16-20-9-16
ATTACHMENT E-1	WELLBORE DIAGRAM – FEDERAL #5-21-9-16
ATTACHMENT E-2	WELLBORE DIAGRAM – FEDERAL #12-21-9-16
ATTACHMENT E-3	WELLBORE DIAGRAM – FEDERAL #13-21-9-16
ATTACHMENT E-4	WELLBORE DIAGRAM – FEDERAL #7-20-9-16
ATTACHMENT E-5	WELLBORE DIAGRAM – FEDERAL #8-20-9-16
ATTACHMENT E-6	WELLBORE DIAGRAM – FEDERAL #9-20-9-16
ATTACHMENT E-7	WELLBORE DIAGRAM – FEDERAL #10-20-9-16
ATTACHMENT E-8	WELLBORE DIAGRAM – FEDERAL #11-20-9-16
ATTACHMENT E-9	WELLBORE DIAGRAM – FEDERAL #15-20-9-16
ATTACHMENT E-10	WELLBORE DIAGRAM – FEDERAL #4-28-9-16
ATTACHMENT E-11	WELLBORE DIAGRAM – FEDERAL #1-29-9-16
ATTACHMENT E-12	WELLBORE DIAGRAM – FEDERAL #2-29-9-16
ATTACHMENT E-13	WELLBORE DIAGRAM – FEDERAL #3-29-9-16
ATTACHMENT F	WATER ANALYSIS
ATTACHMENT G	FRACTURE GRADIENT CALCULATIONS
ATTACHMENT G-1	FRACTURE REPORTS DATED – 8/8/07 -8/22/07
ATTACHMENT H	WORK PROCEDURE FOR PROPOSED PLUG AND ABANDON
ATTACHMENT H-1	WELLBORE DIAGRAM OF PROPOSED PLUGGED WELL

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

RECEIVED  
MAY 13 2013  
DIV. OF OIL, GAS & MINING

Well Name and number: Federal #16-20-9-16  
Field or Unit name: Monument Butte (Green River) Lease No. UTU-74391  
Well Location: QQ SESE section 20 township 9S range 16E county Duchesne

Is this application for expansion of an existing project? ..... Yes [ X ] No [ ]  
Will the proposed well be used for: Enhanced Recovery? ..... Yes [ X ] No [ ]  
Disposal? ..... Yes [ ] No [ X ]  
Storage? ..... Yes [ ] No [ X ]  
Is this application for a new well to be drilled? ..... Yes [ ] No [ X ]  
If this application is for an existing well,  
has a casing test been performed on the well? ..... Yes [ ] No [ X ]  
Date of test: \_\_\_\_\_  
API number: 43-013-33109

Proposed injection interval: from 3857 to 5964  
Proposed maximum injection: rate 500 bpd pressure 1810 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 4/22/2013  
Phone No. (303) 893-0102

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

Comments:

# FEDERAL 16-20-9-16

Spud Date: 05/29/07  
 Put on Production: 08/21/07  
 GL: 6129' KB: 6141'

Initial Production: BOPD,  
 MCFD, BWPD

## Proposed Injection Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (295.42')  
 DEPTH LANDED: 306.32' 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: 155 jts. (5977.37')  
 DEPTH LANDED: 5978.62' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.

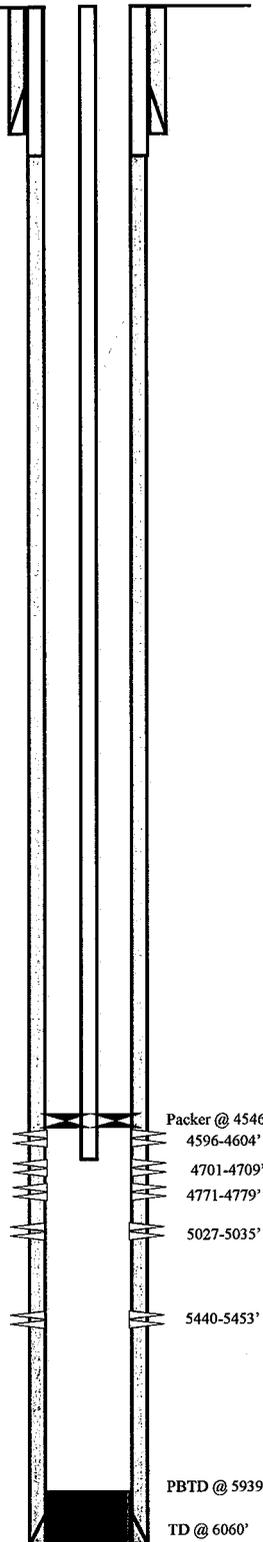
### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 172 jts (5410.01')  
 TUBING ANCHOR: 5422.01' KB  
 NO. OF JOINTS: 1 jts (31.47')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5456.28' KB  
 NO. OF JOINTS: 2 jts (63.01')  
 TOTAL STRING LENGTH: EOT @ 5520.84' KB

### FRAC JOB

08/13/07	5440-5453'	<b>Frac C1 sands as follows:</b> 29557# 20/40 sand in 412 bbls Lightning 17 frac fluid. Treated @ avg press of 2090 psi w/avg rate of 24.5 BPM. ISIP 2215 psi. Calc flush: 5438 gal. Actual flush: 4956 gal.
08/16/07	5027-5035'	<b>Frac LODC sands as follows:</b> 19063# 20/40 sand in 311 bbls Lightning 17 frac fluid. Treated @ avg press of 2091 psi w/avg rate of 24.8 BPM. ISIP 2350 psi. Calc flush: 5025 gal. Actual flush: 4536 gal.
08/16/07	4771-4779'	<b>Frac B1 sands as follows:</b> 46260# 20/40 sand in 432 bbls Lightning 17 frac fluid. Treated @ avg press of 2079 psi w/avg rate of 24.8 BPM. ISIP 1940 psi. Calc flush: 4769 gal. Actual flush: 4326 gal.
08/16/07	4701-4709'	<b>Frac C sands as follows:</b> 108507# 20/40 sand in 795 bbls Lightning 17 frac fluid. Treated @ avg press of 2113 psi w/avg rate of 24.8 BPM. ISIP 1995 psi. Calc flush: 4698 gal. Actual flush: 4200 gal.
08/16/07	4596-4604'	<b>Frac D2 sands as follows:</b> 44879# 20/40 sand in 429 bbls Lightning 17 frac fluid. Treated @ avg press of 2001 psi w/avg rate of 24.8 BPM. ISIP 1840 psi. Calc flush: 4594 gal. Actual flush: 4536 gal.

Cement Top @ 343'



Packer @ 4546'  
 4596-4604'  
 4701-4709'  
 4771-4779'  
 5027-5035'  
 5440-5453'  
 PBD @ 5939'  
 TD @ 6060'

### PERFORATION RECORD

08/07/07	5440-5453'	4 JSPF	52 holes
08/16/07	5027-5035'	4 JSPF	32 holes
08/16/07	4771-4779'	4 JSPF	32 holes
08/16/07	4701-4709'	4 JSPF	32 holes
08/16/07	4596-4604'	4 JSPF	32 holes

<b>NEWFIELD</b>
<b>FEDERAL 16-20-9-16</b>
716' FSL & 920' FEL
SE/SE Section 20-T9S-R16E
Duchesne Co, Utah
API #43-013-33109; Lease # UTU-74391

## 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 #16-20-9-16 from a producing oil well to a water injection well in Monument Butte (Green River) Field.
  
  - 2.4 A description of the pools from which the identified wells are producing or have produced.**

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

The injection zone is in the Green River Formation. For the Federal #16-20-9-16 well, the proposed injection zone is from Garden Gulch to Wasatch (3857' - 5964'). 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 3530' and the TD is at 6060'.
  
  - 2.6 A copy of a log of a representative well completed in the pool.**

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

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

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

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

See Attachment B.

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

See Attachment C.

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

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

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

This proposed injection well is on a Federal lease (Lease #UTU-74391) 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 306' KB, and 5-1/2", 15.5# casing run from surface to 5979' 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 1810 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 #16-20-9-16, for existing perforations (4596' – 5453') calculates at 0.83 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 1810 psig. We may add additional perforations between 3530' and 5939'. 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 #16-20-9-16, the proposed injection zone (3857' - 5964') is in the Garden Gulch to the Wasatch 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-13.

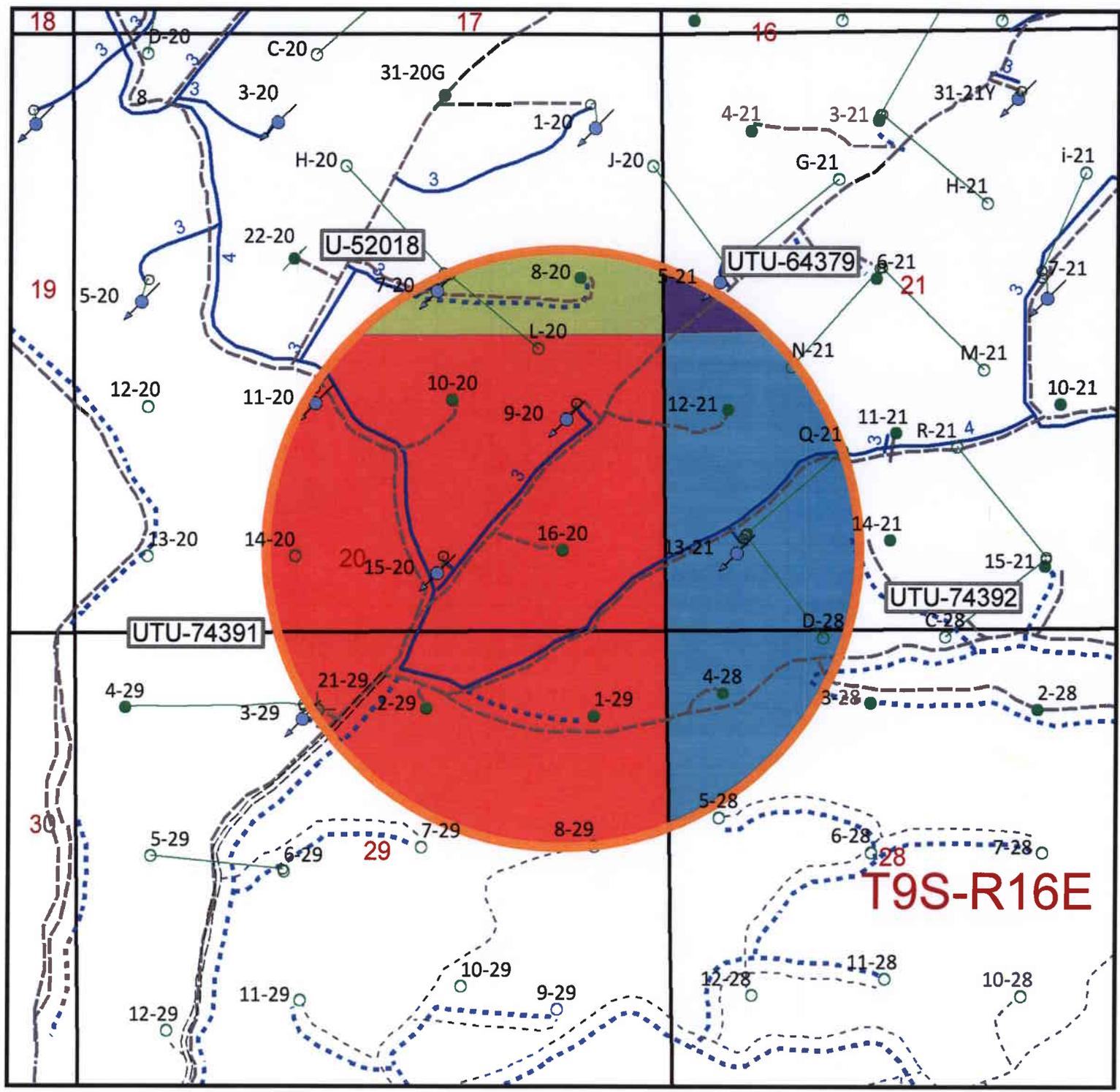
Additionally, the injection system will be equipped with high and low pressure shut down devices that will automatically shut in injection waters if a system blockage or leakage occurs. One way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure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

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

See Attachment C.

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

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



**Leases**

- U-52018
- UTU-64379
- UTU-74391
- UTU-74392
- WellStatus\_HalfMile\_Buffer

**Well Status**

- Location
- +
 CTI
- ⊠
 Surface Spud
- ◇
 Drilling
- △
 Waiting on Completion
- Producing Oil Well
- ★
 Producing Gas Well
- ↻
 Water Injection Well
- ⊕
 Dry Hole
- ⊥
 Temporarily Abandoned
- ⊞
 Plugged & Abandoned
- ⊞
 Shut In

**Countyline**

- Countyline

**Injection system**

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

Federal 16-20  
Section 20, T9S-R16E

**T9S-R16E**

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

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

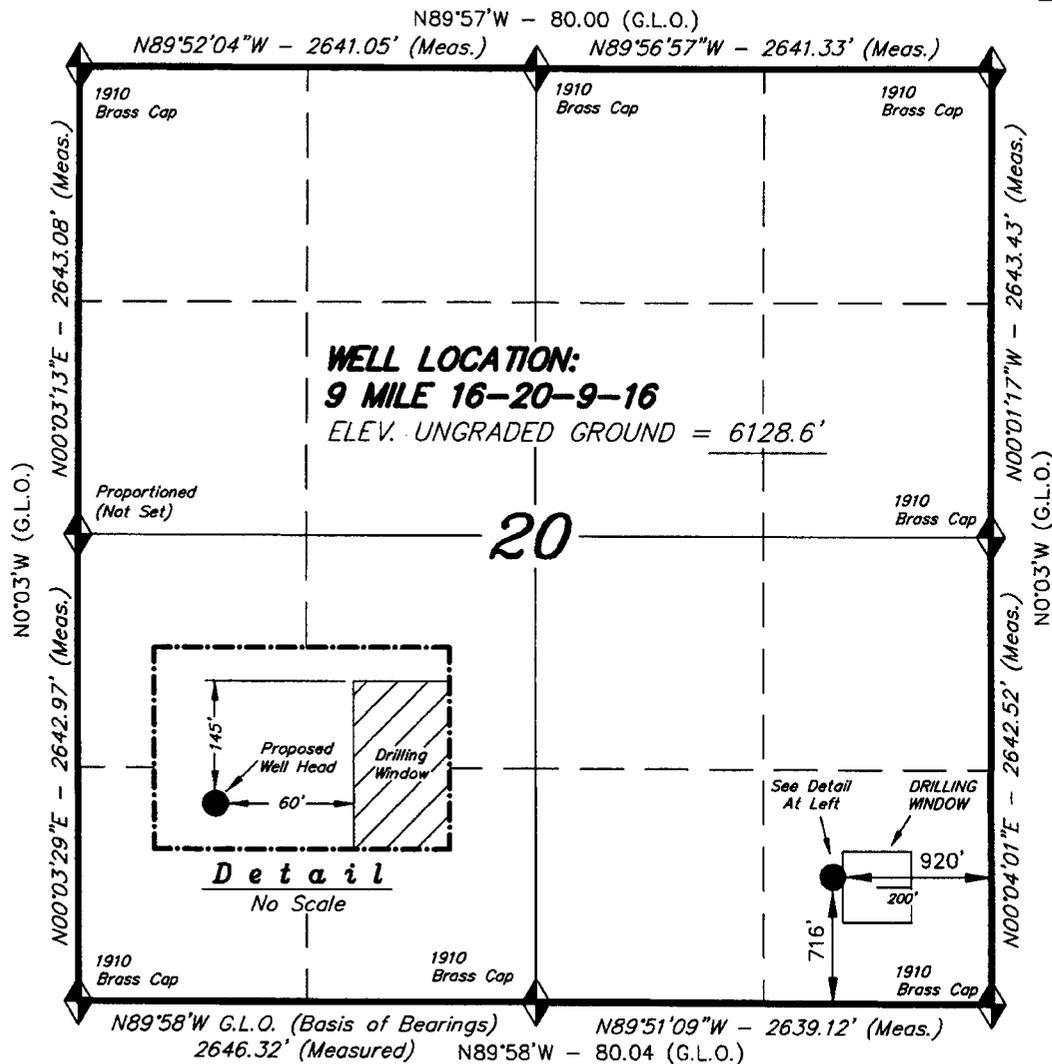
1001 17th Street Suite 2000  
Denver, Colorado 80202  
Phone: (303) 899-0102

April 16, 2013

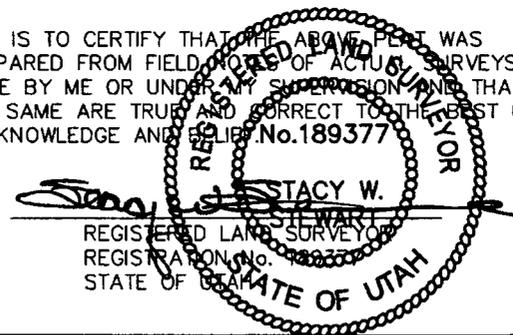
## T9S, R16E, S.L.B.&M.

## NEWFIELD PRODUCTION COMPANY

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



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



◆ = SECTION CORNERS LOCATED

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

**9 MILE 16-20-9-16**  
 (Surface Location) NAD 83  
 LATITUDE = 40° 00' 39.89"  
 LONGITUDE = 110° 08' 13.40"

### TRI STATE LAND SURVEYING & CONSULTING

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

DATE SURVEYED: 03-09-06	SURVEYED BY: C.M.
DATE DRAWN: 03-14-06	DRAWN BY: F.T.M.
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 19: E2SW, SE, LOTS 3, 4 Section 20: S2 Section 29: All Section 30: All	USA UTU-74391 HBP	Newfield Production Company Newfield RMI LLC ABO Petroleum Corp MYCO Industries Inc OXY Y-1 Company Yates Petroleum Corp	USA
2	T9S-R16E SLM Section 21: S2 Section 22: NENE, S2 Section 23: SWSW Section 24: SESE Section 26: NENE Section 27: All Section 28: All	USA UTU-74392 HBP	Newfield Production Company Newfield RMI LLC ABO Petroleum Corp MYCO Industries Inc OXY Y-1 Company Yates Petroleum Corp	USA
3	T9S-R16E SLM Section 8: SWNE, SE Section 9: SWSW Section 17: NE Section 18: E2SW, SE, LOTS 3,4 Section 19: NE, E2NW, LOTS 1,2 Section 21: N2 Section 22: W2NE, SENE, NW	USA UTU-64379 HBP	Newfield Production Company Newfield RMI LLC Yates Petroleum Corp	USA
4	T9S-R16E SLM Section 17: S2 Section 20: N2	USA UTU-52018 HBP	Newfield Production Company Newfield RMI LLC	USA

ATTACHMENT C

CERTIFICATION FOR SURFACE OWNER NOTIFICATION

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

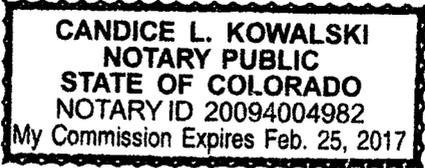
I hereby certify that a copy of the injection application has been provided to all surface owners within a one-half mile radius of the proposed injection well.

Signed:   
Newfield Production Company  
Eric Sundberg  
Environmental Manager

Sworn to and subscribed before me this 22<sup>nd</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 16-20-9-16

Spud Date: 05/29/07  
 Put on Production: 08/21/07  
 GL: 6129' KB: 6141'

Initial Production: BOPD,  
 MCFD, BWPD

Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (295.42')  
 DEPTH LANDED: 306.32' 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: 155 jts. (5977.37')  
 DEPTH LANDED: 5978.62' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.

### TUBING

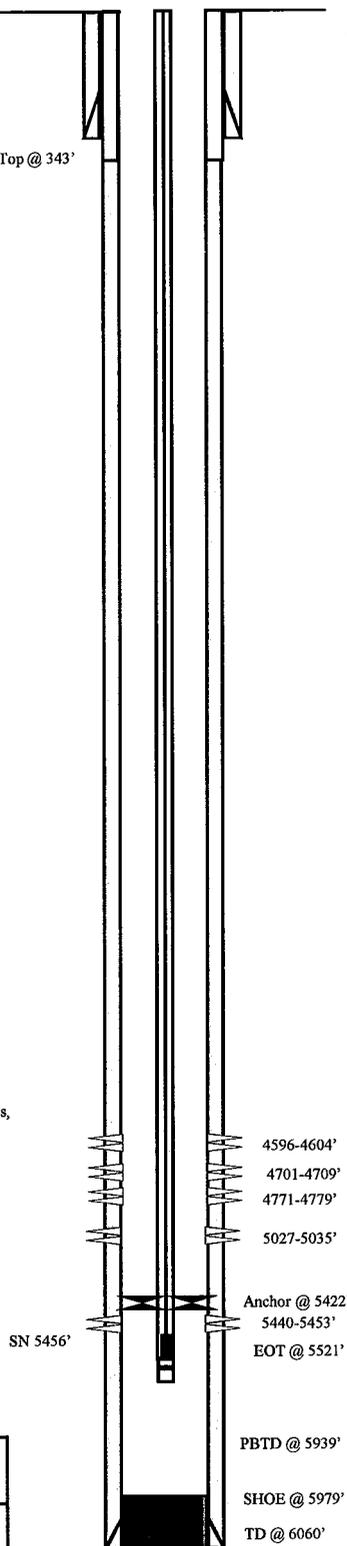
SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 172 jts (5410.01')  
 TUBING ANCHOR: 5422.01' KB  
 NO. OF JOINTS: 1 jts (31.47')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5456.28' KB  
 NO. OF JOINTS: 2 jts (63.01')  
 TOTAL STRING LENGTH: EOT @ 5520.84' KB

### SUCKER RODS

POLISHED ROD: 1-1/2" x 26' SM polished rods  
 SUCKER RODS: 1-2' & 1-8' x 7/8" pony rods, 100-3/4" scraped rods,  
 92-3/4" plain rods, 20-3/4" scraped rods  
 6-1 1/2" weight rods.  
 PUMP SIZE: CDI 2-1/2" x 1-1/2" x 18' RHAC  
 STROKE LENGTH: 102"  
 PUMP SPEED, 5 SPM:

### FRAC JOB

08/13/07	5440-5453'	<b>Frac CP1 sands as follows:</b> 29557# 20/40 sand in 412 bbls Lightning 17 frac fluid. Treated @ avg press of 2090 psi w/avg rate of 24.5 BPM. ISIP 2215 psi. Calc flush: 5438 gal. Actual flush: 4956 gal.
08/16/07	5027-5035'	<b>Frac LODC sands as follows:</b> 19063# 20/40 sand in 311 bbls Lightning 17 frac fluid. Treated @ avg press of 2091 psi w/avg rate of 24.8 BPM. ISIP 2350 psi. Calc flush: 5025 gal. Actual flush: 4536 gal.
08/16/07	4771-4779'	<b>Frac B1 sands as follows:</b> 46260# 20/40 sand in 432 bbls Lightning 17 frac fluid. Treated @ avg press of 2079 psi w/avg rate of 24.8 BPM. ISIP 1940 psi. Calc flush: 4769 gal. Actual flush: 4326 gal.
08/16/07	4701-4709'	<b>Frac C sands as follows:</b> 108507# 20/40 sand in 795 bbls Lightning 17 frac fluid. Treated @ avg press of 2113 psi w/avg rate of 24.8 BPM. ISIP 1995 psi. Calc flush: 4698 gal. Actual flush: 4200 gal.
08/16/07	4596-4604'	<b>Frac D2 sands as follows:</b> 44879# 20/40 sand in 429 bbls Lightning 17 frac fluid. Treated @ avg press of 2001 psi w/avg rate of 24.8 BPM. ISIP 1840 psi. Calc flush: 4594 gal. Actual flush: 4536 gal.



### PERFORATION RECORD

08/07/07	5440-5453'	4 JSPF	52 holes
08/16/07	5027-5035'	4 JSPF	32 holes
08/16/07	4771-4779'	4 JSPF	32 holes
08/16/07	4701-4709'	4 JSPF	32 holes
08/16/07	4596-4604'	4 JSPF	32 holes

**NEWFIELD**

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

716' FSL & 920' FEL

SE/SE Section 20-T9S-R16E

Duchesne Co, Utah

API #43-013-33109; Lease # UTU-74391

Spud Date: 10/21/06  
 Put on Production: 12/02/06  
 K.B.: 6048' G.L.: 6036'

## Federal 5-21-9-16

### Injection Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (310.62')  
 DEPTH LANDED: 322.47' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 4 bbls cmt to surf.

#### PRODUCTION CASING

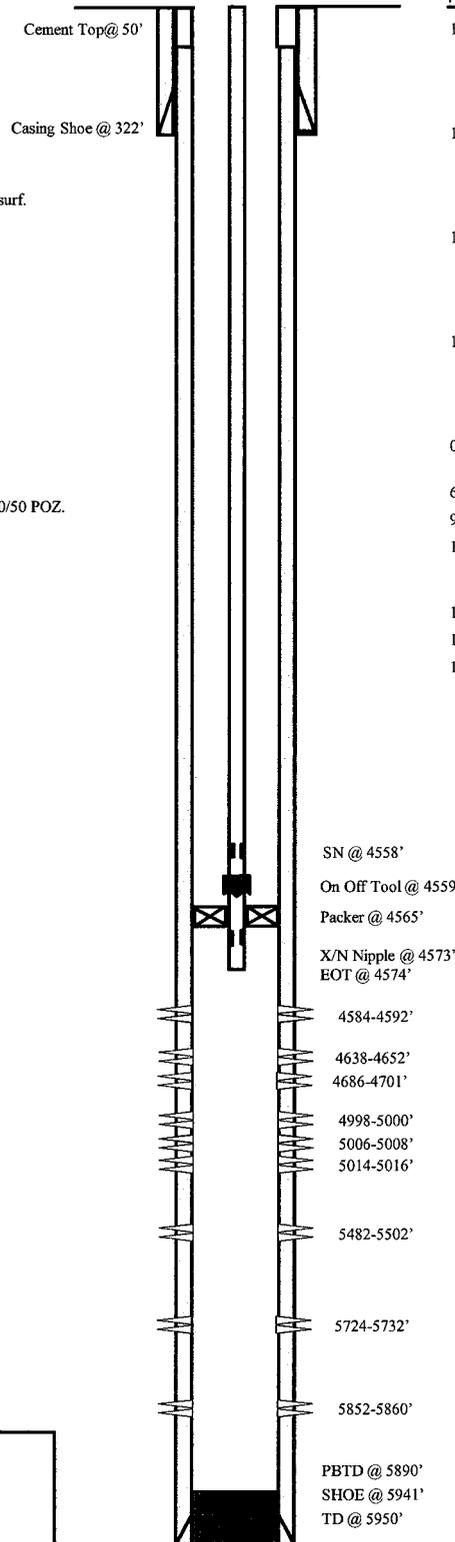
CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 135 jts. (5927.96')  
 DEPTH LANDED: 5941.21' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 325 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
 CEMENT TOP: 50'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 141 jts (4545.8')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4557.8' KB  
 ON/OFF TOOL AT: 4558.9'  
 ARROW #1 PACKER CE AT: 4564.8'  
 XO 2-3/8 x 2-7/8 J-55 AT: 4567.7'  
 TBG PUP 2-3/8 J-55 AT: 4568.2'  
 X/N NIPPLE AT: 4572.3'  
 TOTAL STRING LENGTH: EOT @ 4574'

#### FRAC JOB

11/22/06	5852-5860'	<b>Frac CP5 sands as follows:</b> 24030# 20/40 sand in 364 bbls Lightning 17 frac fluid. Treated @ avg press of 2590 psi w/avg rate of 24.8 BPM. ISIP 2850 psi. Calc flush: 5858 gal. Actual flush: 5334 gal.
11/22/06	5724-5732'	<b>Frac CP4 sands as follows:</b> 37476# 20/40 sand in 415 bbls Lightning 17 frac fluid. Treated @ avg press of 2400 psi w/avg rate of 24.9 BPM. ISIP 2500 psi. Calc flush: 5730 gal. Actual flush: 5216 gal.
11/22/06	5482-5502'	<b>Frac CP1 sands as follows:</b> 56615# 20/40 sand in 467 bbls Lightning 17 frac fluid. Treated @ avg press of 1940 psi w/avg rate of 24.9 BPM. ISIP 2200 psi. Calc flush: 5500 gal. Actual flush: 4977 gal.
11/24/06	4584-4652'	<b>Frac D1, D2 sands as follows:</b> 156867# 20/40 sand in 1002 bbls Lightning 17 frac fluid. Treated @ avg press of 1675 psi w/avg rate of 25.1 BPM. ISIP 1960 psi. Calc flush: 4650 gal. Actual flush: 4494 gal.
03/21/07		<b>Pump Change:</b> Updated rod and tubing detail.
6/1/2010		<b>Pump change.</b> Updated rod and tubing detail.
9/7/2010		<b>Pump change.</b> Updated rod and tubing detail.
10/22/10	4998-5016'	<b>Frac A3 sands as follows:</b> 61766# 20/40 sand in 501 bbls Lightning 17 frac fluid.
10/25/10		<b>Re-Completion Finalized</b>
12/13/12		<b>Convert to Injection Well</b>
12/14/12		<b>Conversion MIT Finalized</b> - update tbg detail



#### PERFORATION RECORD

Date	Interval	Tool	Holes
11/09/06	5852-5860'	4 JSPF	32 holes
11/22/06	5724-5732'	4 JSPF	32 holes
11/22/06	5482-5502'	4 JSPF	80 holes
11/24/06	4686-4701'	4 JSPF	60 holes
11/24/06	4638-4652'	4 JSPF	56 holes
11/24/06	4584-4592'	4 JSPF	32 holes
10/22/10	5014-5016'	3 JSPF	6 holes
10/22/10	5006-5008'	3 JSPF	6 holes
10/22/10	4998-5000'	3 JSPF	6 holes



**Federal 5-21-9-16**  
 2033' FNL & 551' FWL  
 SW/NW Section 21-T9S-R16E  
 Duchesne Co, Utah  
 API # 43-013-33020; Lease # UTU-64379

## Federal 12-21-9-16

Spud Date: 7-30-07  
 Put on Production: 8-28-07  
 GL: 6054' KB: 6066'

Initial Production: BOPD,  
 MCFD, BWPD

### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (302.22')  
 DEPTH LANDED: 313.23' 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: 149 jts. (6047.38')  
 DEPTH LANDED: 6061.02' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP AT: 152'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55  
 NO. OF JOINTS: 181 jts (5688.')

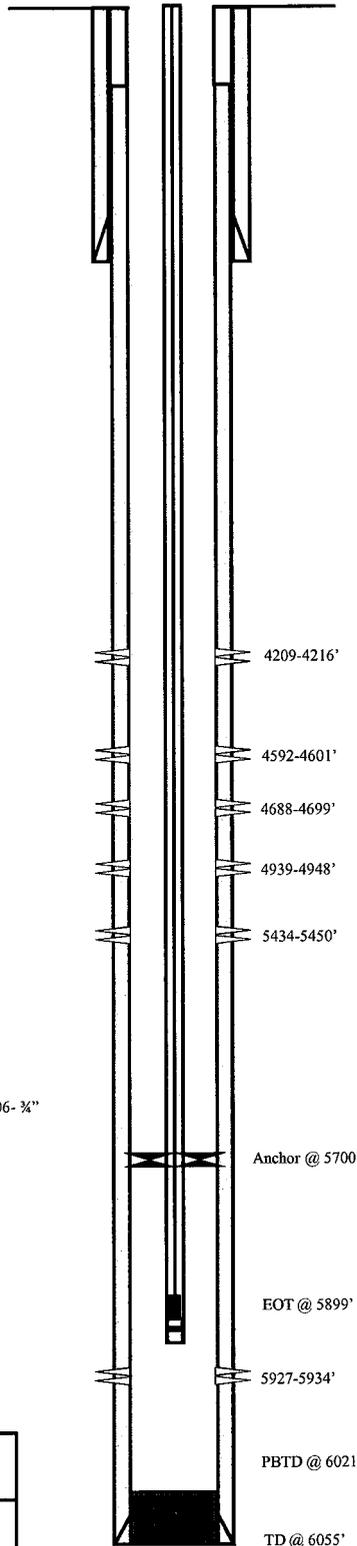
TUBING ANCHOR: 5700.' KB  
 NO. OF JOINTS: 2 jts (63.00')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5766.' KB  
 NO. OF JOINTS: 1 jts (31.50')  
 GAS ANCHOR: 5799  
 NO. OF JOINTS: 3 jts (94.6)  
 TOTAL STRING LENGTH: EOT @ 5899' KB

#### SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM  
 SUCKER RODS: 1-4', 1-8' X 3/8" Pony Rods, 99- 3/4" guided rods, 106- 3/4" plain rods, 19- 3/4" guided rods, 6-1 1/2" sinker bars.  
 PUMP SIZE: 2-1/2" x 1-1/2" x 16' RHAC w/SM plunger  
 STROKE LENGTH: 86"  
 PUMP SPEED, SPM: 5 SPM

#### FRAC JOB

08-24-07	5927-5934'	<b>Frac BSLs sands as follows:</b> 29629# 20/40 sand in 415 bbls Lightning 17 frac fluid. Treated @ avg press of 2275 psi w/avg rate of 24.7 BPM. ISIP 2025 psi. Calc flush: 5925 gal. Actual flush: 5376 gal.
08-24-07	5434-5450'	<b>Frac CPI sands as follows:</b> 70328# 20/40 sand in 585 bbls Lightning 17 frac fluid. Treated @ avg press of 2158 psi w/avg rate of 24.7 BPM. ISIP 2435 psi. Calc flush: 5432 gal. Actual flush: 4872 gal.
08-24-07	4939-4948'	<b>Frac A3 sands as follows:</b> 39870# 20/40 sand in 412 bbls Lightning 17 frac fluid. Treated @ avg press of 2105 psi w/avg rate of 24.7 BPM. ISIP 2375 psi. Calc flush: 4937 gal. Actual flush: 4410 gal.
08-24-07	4688-4699'	<b>Frac C sand as follows:</b> 47661# 20/40 sand in 452 bbls Lightning 17 frac fluid. Treated @ avg press of 1903 w/ avg rate of 24.7 BPM. ISIP 2075 psi. Calc flush: 4686 gal. Actual flush: 4221 gal.
08-24-07	4592-4601'	<b>Frac D2 sand as follows:</b> 48185# 20/40 sand in 445 bbls Lightning 17 frac fluid. Treated @ avg press of 1687 w/ avg rate of 24.7 BPM. ISIP 1740 psi. Calc flush: 4590 gal. Actual flush: 4074 gal.
08-24-07	4209-4216'	<b>Frac pb8 sand as follows:</b> 37092# 20/40 sand in 322 bbls Lightning 17 frac fluid. Treated @ avg press of 2218 w/ avg rate of 24.7 BPM. ISIP 3225 psi. Calc flush: 4207 gal. Actual flush: 1718 gal.
12-12-07		Pump Change. Updated rod & tubing details.
10/26/09		Pump Change. Updated rod & tubing details.
10/14/11		Pump Change. Updated rod & tubing details.



#### PERFORATION RECORD

08-20-07	5927-5934'	4 JSPF	28 holes
08-24-07	5434-5450'	4 JSPF	64 holes
08-24-07	4939-4948'	4 JSPF	36 holes
08-24-07	4688-4699'	4 JSPF	44 holes
08-24-07	4592-4601'	4 JSPF	36 holes
08-24-07	4209-4216'	4 JSPF	28 holes

**NEWFIELD**

**Federal 12-21-9-16**

1952' FSL & 557' FWL

NW/SW Section 21-T9S-R16E

Duchesne Co, Utah

API # 43-013-33143; Lease # UTU-74392

## Federal 13-21-9-16

Spud Date: 4-30-07  
 Put on Production: 7-30-07  
 GL: 6105' KB: 6117'

### Injection Wellbore Diagram

#### SURFACE CASING

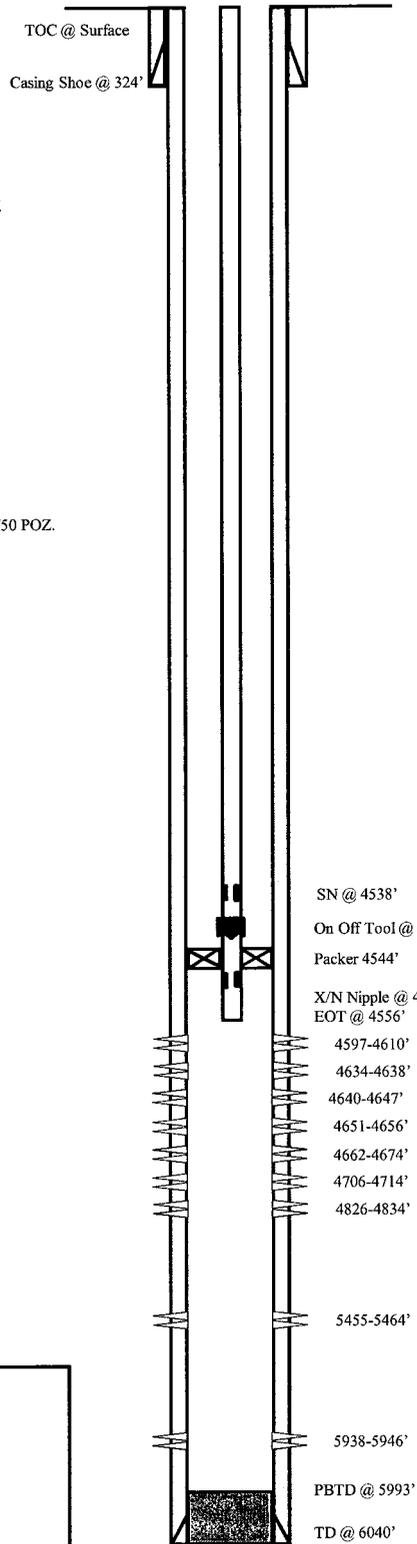
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jnts (312.15')  
 DEPTH LANDED: 324.01' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 137 jts. (6025.88')  
 DEPTH LANDED: 6039.13' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP: surface.

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 144 jts. (4526.0')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4538'  
 ON/OFF TOOL AT: 4539.1'  
 ARROW #1 PACKER CE AT: 4544.37'  
 XO 2-3/8 x 2-7/8 J-55 AT: 4548.1'  
 TBG PUP 2-3/8 J-55 AT: 4548.7'  
 X/N NIPPLE AT: 4554.8'  
 TOTAL STRING LENGTH: EOT @ 4556'



#### FRAC JOB

7-25-07	5938-5946'	<b>Frac BSC sands as follows:</b> 14827# 20/40 sand in 293 bbls Lightning 17 frac fluid. Treated @ avg press of 1898 psi w/avg rate of 24.8 BPM. ISIP 1983 psi. Calc flush: 5936 gal. Actual flush: 5418 gal.
7-25-07	5455-5464'	<b>Frac CPI sands as follows:</b> 152957# 20/40 sand in 275 bbls Lightning 17 frac fluid. Treated @ avg press of 2098 psi w/avg rate of 24.7 BPM. ISIP 2085 psi. Calc flush: 5453 gal. Actual flush: 4914 gal.
7-26-07	4826-4834'	<b>Frac B2 sands as follows:</b> 45217# 20/40 sand in 434 bbls Lightning 17 frac fluid. Treated @ avg press of 2144 psi w/avg rate of 28.1 BPM. ISIP 2377 psi. Calc flush: 4824 gal. Actual flush: 4368 gal.
7-26-07	4706-4714'	<b>Frac C sands as follows:</b> 42292# 20/40 sand in 354 bbls Lightning 17 frac fluid. 24.8 BPM. ISIP 1463 psi.
2-19-08		<b>Pump Change.</b> Updated rod & tubing details.
05/15/09		<b>Recompletion.</b>
05/15/09	4597-4610'	<b>Frac D3 &amp; D2 sands as follows:</b> 124935# 20/40 sand in 1196 bbls Lightning 17 frac fluid. 26 BPM. ISIP 1764 psi.
04/19/10		<b>Tubing Leak.</b> Rod & Tubing Updated.
03/24/11		<b>Tubing Leak.</b> Rod & tubing details updated.
12/22/11		<b>Tubing Leak:</b> Rod & tubing details updated.
10/26/12		<b>Conversion to Injection Well</b>
10/30/12		<b>Conversion MIT Finalized</b> - update tbg detail

#### PERFORMANCE RECORD

7-18-07	5938-5946'	4 JSPF	32 holes
7-25-07	5455-5464'	4 JSPF	36 holes
7-25-07	4826-4834'	4 JSPF	32 holes
7-26-07	4706-4714'	4 JSPF	32 holes
5-16-09	4662-4674'	4 JSPF	48 holes
5-16-09	4651-4656'	4 JSPF	20 holes
5-16-09	4640-4647'	4 JSPF	28 holes
5-16-09	4634-4638'	4 JSPF	16 holes
5-16-09	4597-4610'	4 JSPF	52 holes

**NEWFIELD**

**Federal 13-21-9-16**

811' FSL & 687' FWL  
 SW/SW Section 21-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33142; Lease #UTU-74392

## Federal 7-20-9-16

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

### Injection Wellbore Diagram

#### SURFACE CASING

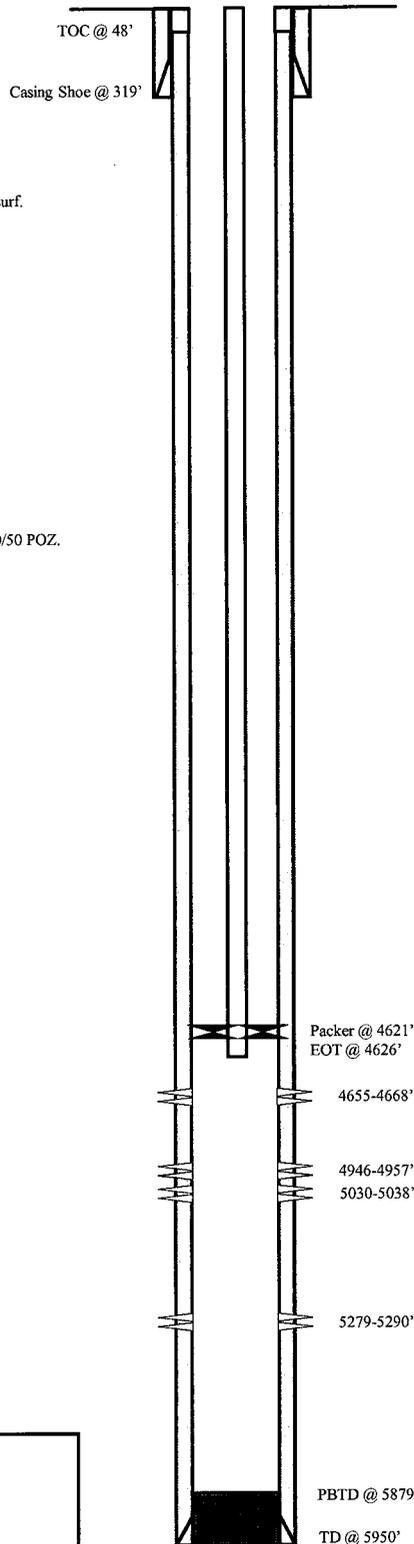
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (306.9')  
 DEPTH LANDED: 318.75' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 3 bbls cmt to surf.

#### PRODUCTION CASING

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

#### TUBING

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



#### FRAC JOB

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

#### PERFORATION RECORD

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



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

## FEDERAL 8-20-9-16

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

### Wellbore Diagram

#### SURFACE CASING

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

#### PRODUCTION CASING

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

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

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

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

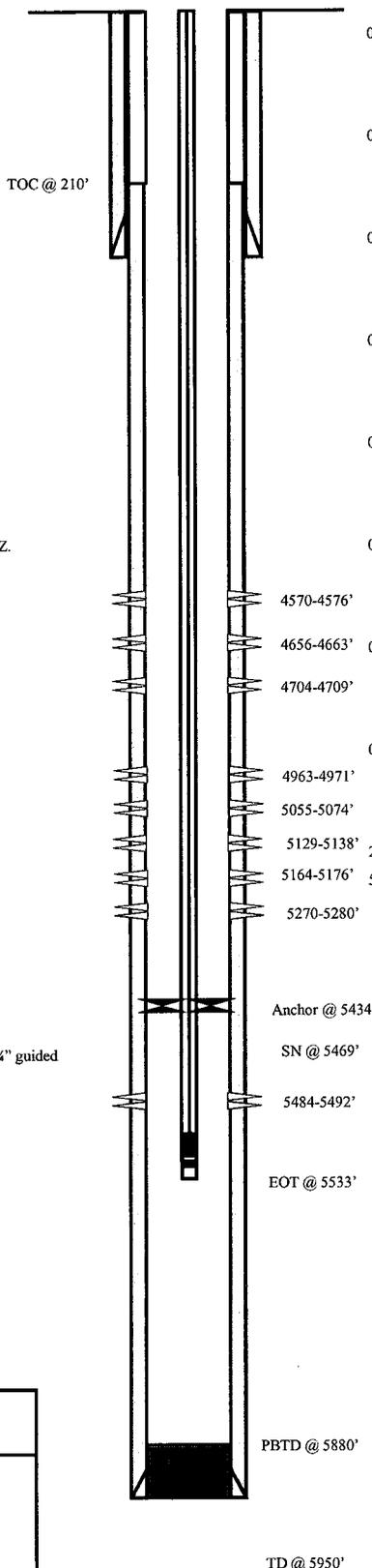
POLISHED ROD: 1-1/2" x 26' SM polished rods  
 SUCKER RODS: 100 x 3/8" guided rods, 58 x 3/8" sucker rods, 54 x 3/8" guided rods, 6 x 1-1/2" weight bars  
 PUMP SIZE: 2-1/2" x 1-1/2" x 12' x 16' RHAC  
 STROKE LENGTH: 86"  
 PUMP SPEED, SPM: 4.0  
 PUMPING UNIT: WEATHERFORD C-228-213-86

#### FRAC JOB

07/02/07	5484-5492'	<b>Frac CP1 sands as follows:</b> 15470# 20/40 sand in 274 bbls Lightning 17 frac fluid. Treated @ avg press of 2490 psi w/avg rate of 24.6 BPM. ISIP 2369 psi. Calc flush: 5482 gal. Actual flush: 4981 gal.
07/02/07	5270-5280'	<b>Frac LODC sands as follows:</b> 29548# 20/40 sand in 365 bbls Lightning 17 frac fluid. Treated @ avg press of 2397 psi w/avg rate of 24.4 BPM. ISIP 2486 psi. Calc flush: 5268 gal. Actual flush: 4796 gal.
07/02/07	5129-5176'	<b>Frac LODC sands as follows:</b> 4712# 20/40 sand in 389 bbls Lightning 17 frac fluid. Blender Broke. Need to Refrac. ISIP 2340 psi. Calc. flush: 5127 gal. Actual flush: 5292 gal.
07/03/07	5129-5176'	<b>Frac LODC sands as follows:</b> 95147# 20/40 sand in 706 bbls Lightning 17 frac fluid. Treated @ avg press of 2554 psi w/avg rate of 24 BPM. ISIP 2775 psi. Calc flush: 5127 gal. Actual flush: 4662 gal.
07/03/07	5055-5074'	<b>Frac LODC sands as follows:</b> 71220# 20/40 sand in 719 bbls Lightning 17 frac fluid. Treated @ avg press of 2372 psi w/avg rate of 24.3 BPM. ISIP 2680 psi. Calc flush: 5053 gal. Actual flush: 5095 gal.
07/03/07	4963-4971'	<b>Frac A1 sands as follows:</b> 40277# 20/40 sand in 492 bbls Lightning 17 frac fluid. Treated @ avg press of 2725 psi w/avg rate of 24.5 BPM. ISIP 2290 psi. Calc flush: 4961 gal. Actual flush: 4452 gal
	4570-4576'	<b>Frac D3&amp;C sands as follows:</b> 29723# 20/40 sand in 376 bbls Lightning 17 frac fluid. Treated @ avg press of 1630 psi w/avg rate of 24.5 BPM. ISIP 1700 psi. Calc flush: 4654 gal. Actual flush: 4200 gal
	4656-4663'	
	4704-4709'	
07/05/07	4570-4576'	<b>Frac D1 sands as follows:</b> 42080# 20/40 sand in 356 bbls Lightning 17 frac fluid. Treated @ avg press of 1829 psi w/avg rate of 24.4 BPM. ISIP 1875 psi. Calc flush: 4568 gal. Actual flush: 4494 gal.
	4963-4971'	
	5055-5074'	
	5129-5138'	
2/10/09	5164-5176'	Pump Change. Updated r & t details.
5/26/2010	5270-5280'	Tubing leak. Updated rod and tubing detail.

#### PERFORATION RECORD

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



**NEWFIELD**

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

2133' FNL & 746' FEL

SE/NE Section 20-T9S-R16E

Duchesne Co, Utah

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

## Federal 9-20-9-16

Spud Date: 6-14-07  
 Put on Production: 8-23-07  
 GL: 6095' KB: 6107'

### Injection Wellbore Diagram

#### SURFACE CASING

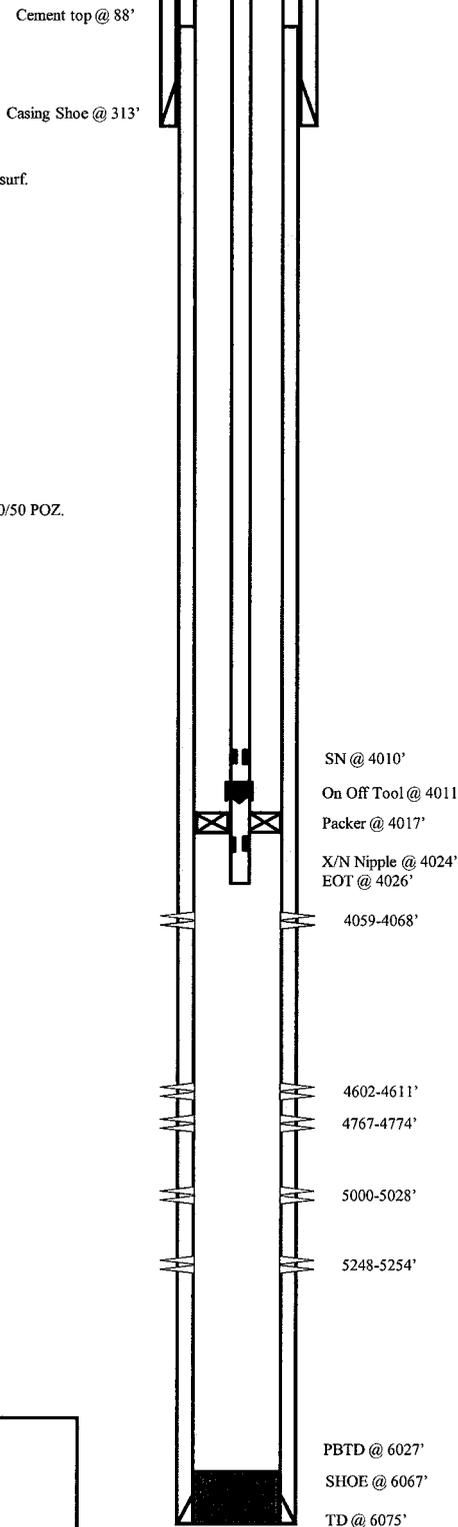
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (302.22')  
 DEPTH LANDED: 313.12' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 8 bbls cmt to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 156 jts (6053.98')  
 DEPTH LANDED: 6067.23' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 425 sxs 50/50 POZ.  
 CEMENT TOP AT: 88'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 127 jts (3997.8')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4009.8' KB  
 ON/OFF TOOL AT: 4010.9'  
 ARROW #1 PACKER CE AT: 4016.8'  
 XO 2-3/8 x 2-7/8 J-55 AT: 4019.7'  
 TBG PUP 2-3/8 J-55 AT: 4020.2'  
 X/N NIPPLE AT: 4024.3'  
 TOTAL STRING LENGTH: EOT @ 4026'



#### FRAC JOB

08-17-07	5248-5254'	<b>Frac LODC sands as follows:</b> 14994# 20/40 sand in 282 bbls Lightning 17 frac fluid. Treated @ avg press of 2477 psi w/avg rate of 24.8 BPM. ISIP 2540 psi. Calc flush: 5246 gal. Actual flush: 4704 gal.
08-17	5000-5028'	<b>Frac LODC sands as follows:</b> 151355# 20/40 sand in 1050 bbls Lightning 17 frac fluid. Treated @ avg press of 1647 psi w/avg rate of 24.8 BPM. ISIP 2100 psi. Calc flush: 4998 gal. Actual flush: 4494 gal.
08-17-07	4764-4774'	<b>Frac B.5 sands as follows:</b> 19761# 20/40 sand in 294 bbls Lightning 17 frac fluid. Treated @ avg press of 2232 psi w/avg rate of 24.8 BPM. ISIP 4148 psi. Calc flush: 4762 gal. Actual flush: 3839 gal.
08-17-07	4602-4611'	<b>Frac D2 sand as follows:</b> 45991# 20/40 sand in 435 bbls Lightning 17 frac fluid. Treated @ avg press of 2094 w/ avg rate of 24.8 BPM. ISIP 1850 psi. Calc flush: 4600 gal. Actual flush: 4515 gal.
2/1/2010		<b>Pump change.</b> Updated rod and tubing detail.
12/05/12	4059-4068'	<b>Frac GB4 sand as follows:</b> 21580# 20/40 sand in 250 bbls Lightning 17 frac fluid.
12/06/12		<b>Convert to Injection Well</b>
12/11/12		<b>Conversion MIT Finalized</b> – update tbg detail

#### PERFORATION RECORD

08-13-07	5248-5254'	4 JSPF	24 holes
08-17-07	5000-5028'	4 JSPF	112 holes
08-17-07	4767-4774'	4 JSPF	28 holes
08-17-07	4602-4611'	4 JSPF	36 holes
12/04/12	4059-4068'	3 JSPF	27 holes

**NEWFIELD**



**Federal 9-20-9-16**  
 2011' FSL & 789' FEL  
 NE/SE Section 20-T9S-R16E  
 Duchesne Co, Utah  
 API # 43-013-33068; Lease # UTU-74391

## Federal 10-20-9-16

Spud Date: 7-25-07  
 Put on Production: 8-31-07  
 GL: 6105' KB: 6117'

Initial Production: BOPD,  
 MCFD, BWPD

### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (303.36')  
 DEPTH LANDED: 315.21' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 7 bbls cmt to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 155 jts. (5927.26')  
 DEPTH LANDED: 5943.51' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP AT: 226'

#### TUBING

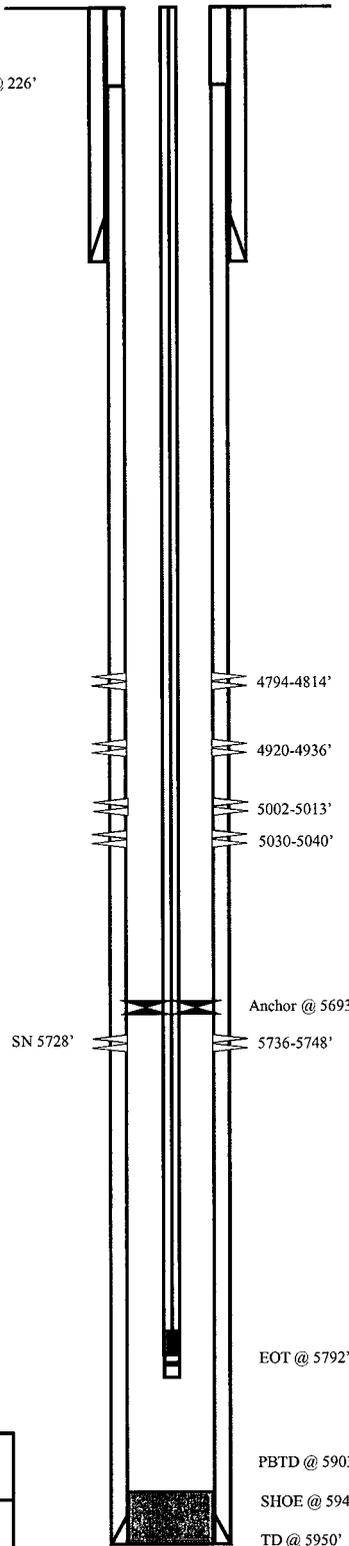
SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 181 jts (5693')  
 TUBING ANCHOR: 5693' KB  
 NO. OF JOINTS: 1 jts (31.6')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5728.4' KB  
 NO. OF JOINTS: 2 jts (63.0')  
 TOTAL STRING LENGTH: EOT @ 5792.90' KB

#### SUCKER RODS

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

#### FRAC JOB

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



#### PERFORATION RECORD

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



**Federal 10-20-9-16**  
 2041' FSL & 1892' FEL  
 NW/SE Section 20-T9S-R16E  
 Duchesne Co, Utah  
 API # 43-013-33108; Lease # UTU-74391

## Federal 11-20-9-16

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

### Injection Wellbore Diagram

#### SURFACE CASING

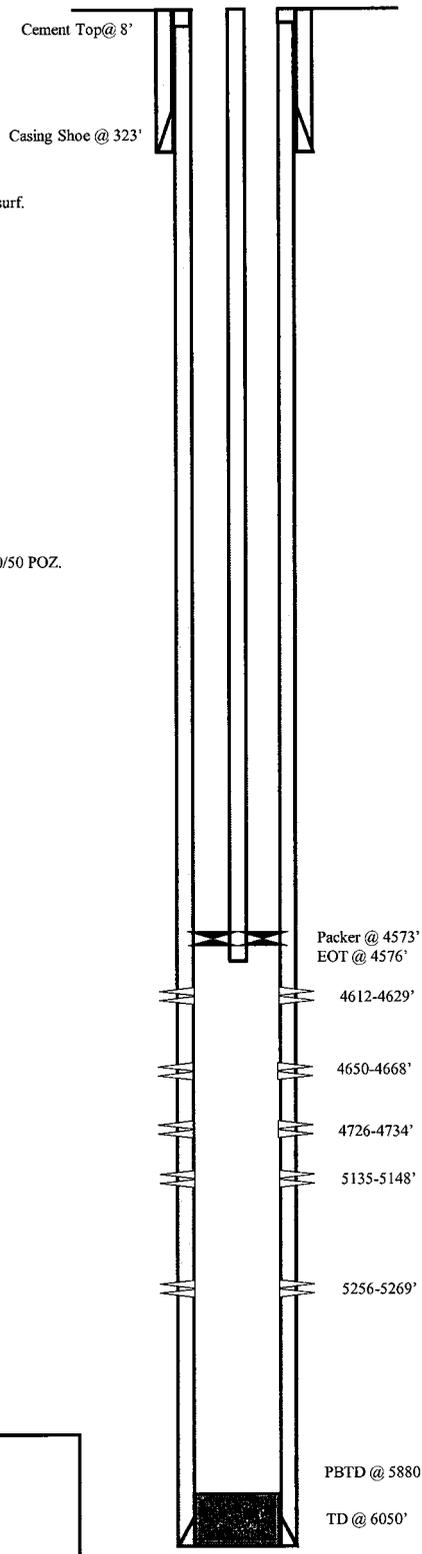
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (262.90')  
 DEPTH LANDED: 323.15' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 300 sxs Class "G" cmt, est 5 bbls cmt to surf.

#### PRODUCTION CASING

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

#### TUBING

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



#### FRAC JOB

11/13/06 5256-5269' **Frac LODC sands as follows:**  
 78169# 20/40 sand in 622 bbls Lightning 17 frac fluid. Treated @ avg press of 2527 psi w/avg rate of 25.4 BPM. ISIP 2720 psi. Calc flush: 5267 gal. Actual flush: 4746 gal.

11/13/06 5135-5148' **Frac LODC sands as follows:**  
 101332# 20/40 sand in 784 bbls Lightning 17 frac fluid. Treated @ avg press of 1660 psi w/avg rate of 24.2 BPM. ISIP 1800 psi. Calc flush: 5146 gal. Actual flush: 4620 gal.

11/13/06 4612-4629' **Frac C, D3 sands as follows:**  
 184392# 20/40 sand in 1225 bbls Lightning 17 frac fluid. Treated @ avg press of 1436 psi w/avg rate of 24.3BPM. 1640 psi. Calc flush: 4627 gal. Actual flush: 4494 gal.

11/27/06 **Pump Change.** Update rod and tubing details.  
**Major Workover**

05/14/08 4612-4629' **Acidize D2 sands:**  
 Pump 16.6 bbls techni-hib 767, W/ 10.1 bbls acid., ISIP @ 950 psi.

05/14/08 4650-4668' **Acidize D3 sands:**  
 Pump 16 bbls techni-hib 767, W/ 10.7 bbls acid., ISIP @ 675 psi.

1/9/09 **Tubing Leak.** Updated rod & tubing details.  
 2/2/2010 **Tubing leak.** Updated rod and tubing details.  
 11/20/2010 **Tubing leak.** Updated rod and tubing detail.  
 3/20/2012 **Tubing leak:** Updated rod and tubing detail.  
 04/11/12 **Convert to Injection Well**  
 04/17/12 **Conversion MIT Finalized** - update tbg detail

#### PERFORATION RECORD

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



**NEWFIELD**

**Federal 11-20-9-16**

2143' FSL & 2155' FWL

NE/SW Section 20-T9S-R15E

Duchesne Co, Utah

API #43-013-32598; Lease #UTU-74391

## Federal 15-20-9-16

Spud Date: 6-13-07  
 Put on Production: 08-14-07  
 GL: 6153' KB: 6165'

### Injection Wellbore Diagram

#### SURFACE CASING

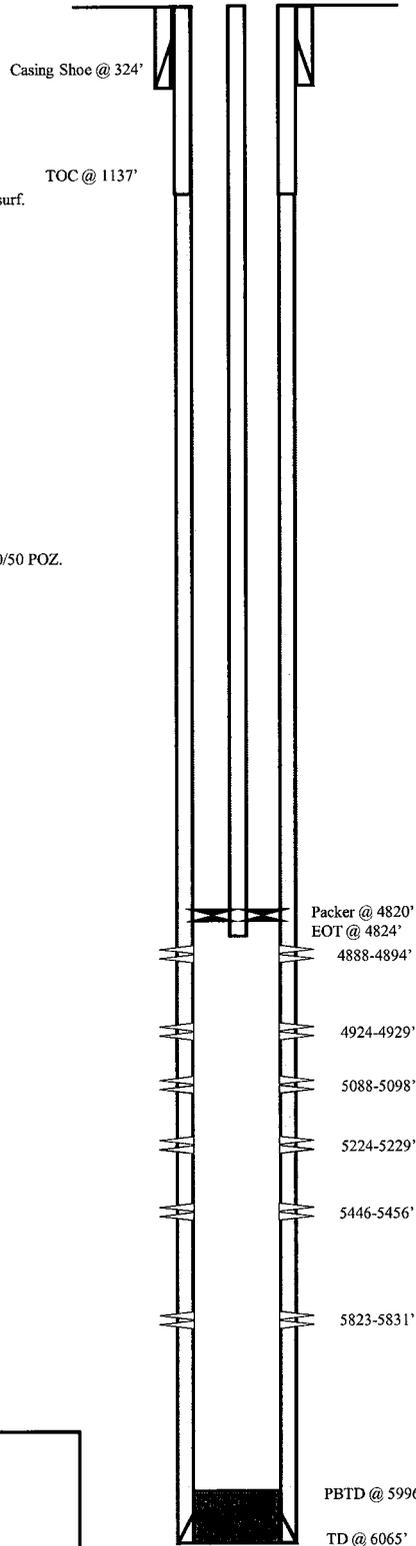
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (312.79')  
 DEPTH LANDED: 323.69' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 8 bbls cmt to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 139 jts. (6043.69')  
 DEPTH LANDED: 6030.94' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 325 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP AT: 1137'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 153 jts (4803.5')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4815.5' KB  
 CE @ 4819.71'  
 TOTAL STRING LENGTH: EOT @ 4824' KB



#### FRAC JOB

08-08-07	5823-5831'	<b>Frac BS sands as follows:</b> 19449# 20/40 sand in 339 bbls Lightning 17 frac fluid. Treated @ avg press of 2516 psi w/avg rate of 24.8 BPM. ISIP 2815 psi. Calc flush: 5821 gal. Actual flush: 5292 gal.
08-08-07	5446-5456'	<b>Frac CP1 sands as follows:</b> 19887# 20/40 sand in 339 bbls Lightning 17 frac fluid. Treated @ avg press of 2181 psi w/avg rate of 24.8 BPM. ISIP 2290 psi. Calc flush: 5444 gal. Actual flush: 4914 gal.
08-08-07	5224-5229'	<b>Frac LODC sands as follows:</b> 15479# 20/40 sand in 292 bbls Lightning 17 frac fluid. Treated @ avg press of 2849 psi w/avg rate of 24.8 BPM. ISIP 2870 psi. Calc flush: 5222 gal. Actual flush: 4717 gal.
08-08-07	5088-5098'	<b>Frac LODC sand as follows:</b> 29995# 20/40 sand in 397 bbls Lightning 17 frac fluid. Treated @ avg press of 2440 w/ avg rate of 24.8 BPM. ISIP 2430 psi. Calc flush: 5086 gal. Actual flush: 4578 gal.
08-08-07	4888-4929'	<b>Frac A1, &amp; A.5 sand as follows:</b> 31089# 20/40 sand in 391 bbls Lightning 17 frac fluid. Treated @ avg press of 2233 w/ avg rate of 24.8 BPM. ISIP 2255 psi. Calc flush: 4886 gal. Actual flush: 4830 gal.
4-10-08		<b>Major workover.</b> Acidized fracs and updated rod and tubing details.
07/15/11		<b>Pump Change.</b> Rods & tubing updated.
04/12/12		<b>Convert to Injection Well</b>
04/17/12		<b>Conversion MIT Finalized</b> - tbg detail updated

#### PERFORATION RECORD

08-02-07	5823-5831'	4 JSPF	32 holes
08-08-07	5446-5456'	4 JSPF	40 holes
08-08-07	5224-5229'	4 JSPF	20 holes
08-08-07	5088-5098'	4 JSPF	40 holes
08-08-07	4924-4929'	4 JSPF	20 holes
08-08-07	4888-4894'	4 JSPF	24 holes



**Federal 15-20-9-16**  
 660' FSL & 1980' FEL  
 SW/SE Section 20-T9S-R16E  
 Duchesne Co, Utah  
 API # 43-013-33105; Lease # UTU-74391

## Federal 4-28-9-16

Spud Date: 6/24/2009  
 Put on Production: 8/7/2009  
 GL: 6157' KB: 6169'

### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (267.77')  
 DEPTH LANDED: 316.80' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sx class 'G' cmt

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 150 jts (5833.3')  
 DEPTH LANDED: 5885.91'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 275 sx Prem Lite and 400 sx 50/50 Poz  
 CEMENT TOP AT: 160'

#### TUBING

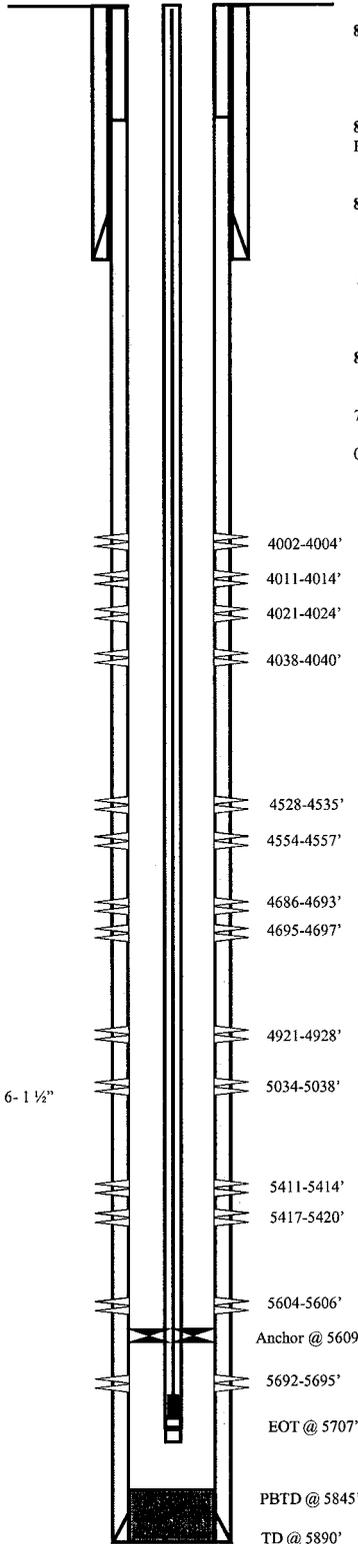
SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 178 jts (5597.7')  
 TUBING ANCHOR: 5609' KB  
 NO. OF JOINTS: 1 jt (31.4')  
 SEATING NIPPLE: 2-7/8" (1.1')  
 SN LANDED AT: 5643' KB  
 NO. OF JOINTS: 2 jts (63.1')  
 TOTAL STRING LENGTH: EOT @ 5707'

#### SUCKER RODS

POLISHED ROD: 1 1/2" x 30'  
 SUCKER RODS: 1- 6', 4' x 3/4" pony rod, 219-3/4" guided rods (4 per), 6- 1 1/2" sinker bars  
 PUMP SIZE: 2 1/2" x 1 1/2" x 16' x 20' RHAC  
 STROKE LENGTH: 122"  
 PUMP SPEED, SPM: 4.5

#### FRAC JOB

8-7-09 5411-5695' **Frac CP1, CP4, & CP5 sands as follows:** Frac with 20,0331#s of 20/40 sand in 120 bbls of Lightning 17 frac fluid.  
 8-7-09 4921-5038' **Frac LODC & A1 sands as follows:** 20/40 sand in 240 bbls of Lightning 17 frac fluid. Frac with 55,558#s of  
 8-7-09 4686-4697' **Frac C sands as follows:** Frac with 75,264#s of 20/40 sand in 317 bbls of Lightning 17 frac fluid.  
 8-7-09 4528-4557' **Frac D1 sands as follows:** Frac with 50,682#s of 20/40 sand in 215 bbls of Lightning 17 frac fluid.  
 8-7-09 4002-4040' **Frac GB4 sands as follows:** Frac with 86,985#s of 20/40 sand in 379 bbls of Lightning 17 frac fluid.  
 7/16/2010 Parted rods. Updated rod and tubing detail.  
 03/12/11 Pump Change Rod & tubing updated.



#### PERFORATION RECORD

5692-5695'	3 JSPP	9 holes
5604-5606'	3 JSPP	6 holes
5417-5420'	3 JSPP	9 holes
5411-5414'	3 JSPP	9 holes
5034-5038'	3 JSPP	12 holes
4921-4928'	3 JSPP	21 holes
4695-4697'	3 JSPP	6 holes
4686-4693'	3 JSPP	21 holes
4554-4557'	3 JSPP	9 holes
4528-4535'	3 JSPP	21 holes
4038-4040'	3 JSPP	6 holes
4021-4024'	3 JSPP	9 holes
4011-4014'	3 JSPP	9 holes
4002-4004'	3 JSPP	6 holes

**NEWFIELD**

**Federal 4-28-9-16**

560' FNL & 494' FWL NW/NW

Section 28-T9S-R16E

Duchesne Co, Utah

API # 43-013-33407; Lease # UTU-74392

## Federal 1-29-9-16

Spud Date: 4/20/2009  
 Put on Production: 7/24/2009  
 GL: 6171' KB: 6183'

### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (269')  
 DEPTH LANDED: 320' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sx class 'g' cmt

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 149 jts (5904')  
 DEPTH LANDED: 5904.02'  
 CEMENT DATA: 275 sx Prem. Lite and 400 sx 50/50 poz  
 CEMENT TOP AT: 102'

#### TUBING

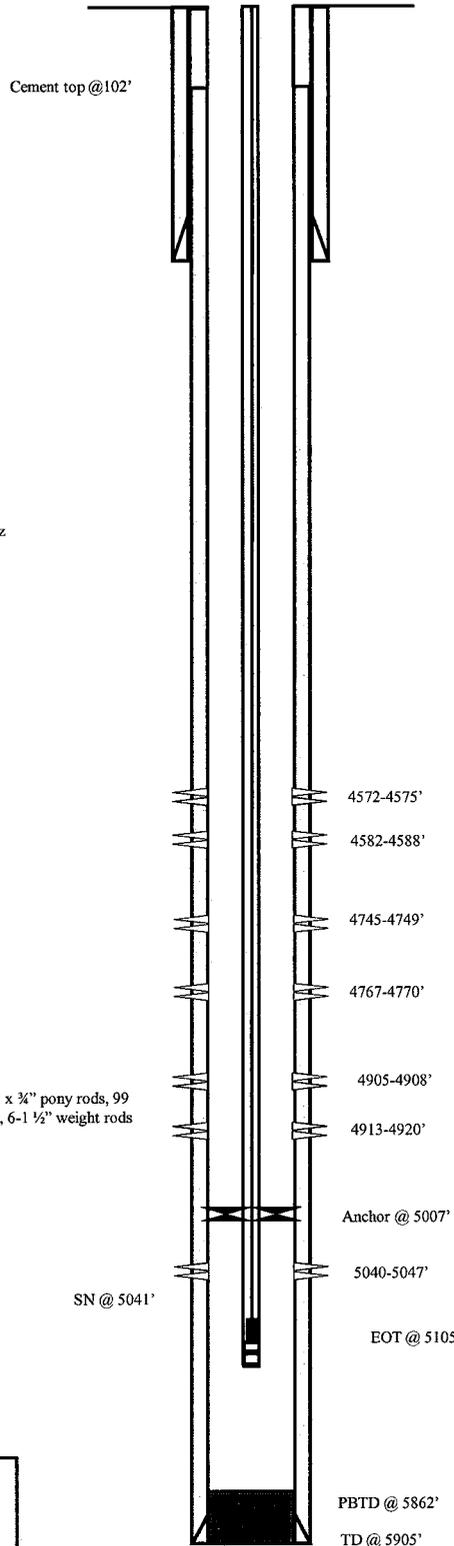
SIZE/GRADE/WT.: 2-7/8" / J-55  
 NO. OF JOINTS: 159 jts (4995')  
 TUBING ANCHOR: 5007' KB  
 NO. OF JOINTS: 1 jts (31.5')  
 SEATING NIPPLE: 2-7/8" (1.1')  
 SN LANDED AT: 5041' KB  
 NO. OF JOINTS: 2 jts (63.1')  
 TOTAL STRING LENGTH: EOT @ 5105'

#### SUCKER RODS

POLISHED ROD: 1- 1/2" x 26'  
 SUCKER RODS: 1- 2' x 3/4"; 1- 4' x 3/4"; 1- 6' x 3/4"; 1- 8' x 3/4" pony rods, 99 - 3/4" guided rods, 75 - 3/4" sucker rods, 20 - 3/4" guided rods, 6- 1 1/2" weight rods  
 PUMP SIZE: 2 1/2" x 1 1/2" x 17' RHAC  
 STROKE LENGTH: 84"  
 PUMP SPEED, SPM: 5

#### FRAC JOB

7-24-09	5040-5047'	<b>Frac LODC sands as follows:</b> Frac with 44,434# 20/40 sand in 204 bbls of Lightning 17 fluid.
7-24-09	4905-4920'	<b>Frac A1 sands as follows:</b> Frac with 115222# 20/40 sand in 483 bbls of Lightning 17 fluid.
7-24-09	4745-4770'	<b>Frac B1 &amp; B.5 sands as follows:</b> Frac with 14402# 20/40 sand in 88 bbls of Lightning 17 fluid.
7-24-09	4572-4588'	<b>Frac D2 sands as follows:</b> Frac with 67875# 20/40 sand in 296 bbls of Lightning 17 fluid.



#### PERFORATION RECORD

5040-5047'	3 JSPF	21 holes
4913-4920'	3 JSPF	21 holes
4905-4908'	3 JSPF	9 holes
4767-4770'	3 JSPF	9 holes
4745-4749'	3 JSPF	12 holes
4582-4588'	3 JSPF	18 holes
4572-4575'	3 JSPF	9 holes

**NEWFIELD**

**Federal 1-29-9-16**

758' FNL & 655' FEL NE/NE  
 Section 29-T9S-R16E  
 Duchesne Co, Utah  
 API # 43-013-33423; Lease # UTU-74391

## Federal 2-29-9-16

Spud Date: 4/28/2009  
Put on Production: 7/312/009

GL: 6198' KB: 6210'

### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts (271.62')  
DEPTH LANDED: 323.45' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sx class 'G' cmt

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 151 jts (5873.42')  
DEPTH LANDED: 5925.97'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 275 sx Prem Lite II and 400 sx 50/50 poz  
CEMENT TOP AT: 140'

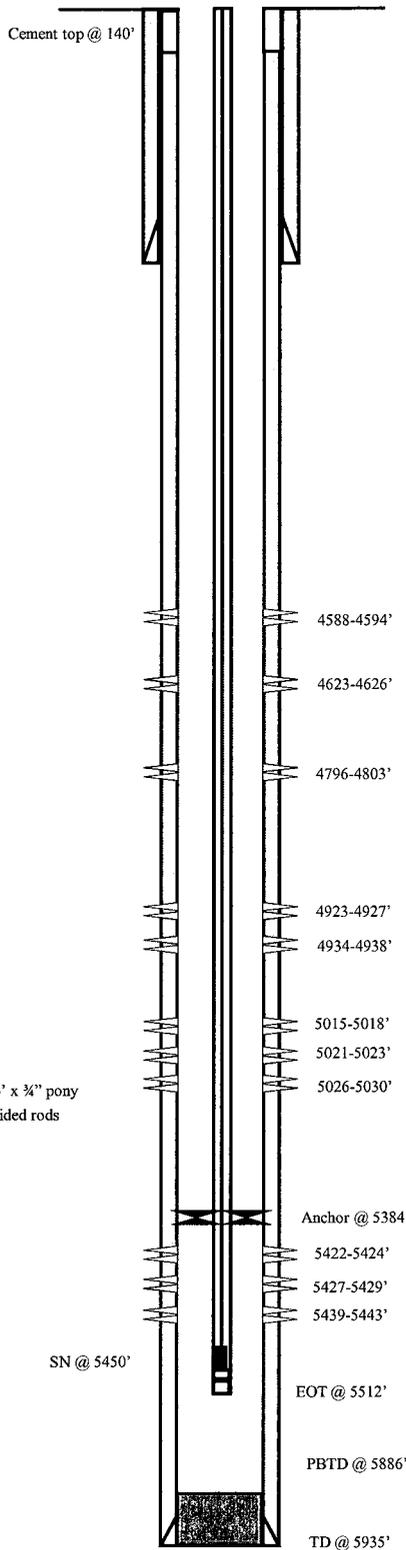
### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 171 jts (5374.2')  
TUBING ANCHOR: 5384.2' KB  
NO. OF JOINTS: 2 jts (63.1')  
SEATING NIPPLE: 2-7/8" (1.1')  
SN LANDED AT: 5450.1' KB  
NO. OF JOINTS: 2 jts (60.8')  
TOTAL STRING LENGTH: EOT @ 5512'

### SUCKER RODS

POLISHED ROD: 1 1/2' x 26'  
SUCKER RODS: 1 - 2' x 3/8" pony rod, 1-4' x 3/8" pony rod, 1-6' x 3/8" pony rod, 99 - 3/4" guided rods (4per), 65 - 3/4" sucker rods, 47 - 3/4" guided rods (4per), 6 - 1 1/2" weight bars.  
PUMP SIZE: 2 1/2 x 1 1/2 x 16' x 20'  
STROKE LENGTH: 74  
PUMP SPEED, SPM: 5

### Wellbore Diagram



### FRAC JOB

8-2-09	5422-5443'	<b>Frac CP1 sands as follows:</b> Frac with 19,772# 20/40 sand in 167 bbls of Lightning 17 fluid.
8-2-09	5015-5030'	<b>Frac LODC sands as follows:</b> Frac with 40,496# 20/40 sand in 262 bbls of Lightning 17 fluid.
8-2-09	4923-4938'	<b>Frac A1 sands as follows:</b> Frac with 75,830# 20/40 sand in 461 bbls of Lightning 17 fluid.
8-2-09	4796-4803'	<b>Frac B2 sands as follows:</b> Frac with 30,004# 20/40 sand in 246 bbls of Lightning 17 fluid.
8-2-09	4588-4626'	<b>Frac D2/D3 sands as follows:</b> Frac with 87,549# 20/40 sand in 636 bbls of Lightning 17 fluid.
1-27-10		<b>Tubing Leak.</b> Updated rod and tubing detail.
3/18/2010		<b>Tubing Leak.</b> Updated rod and tubing detail.

### PERFORATION RECORD

5439-5443'	3 JSPF	12 holes
5427-5429'	3 JSPF	6 holes
5422-5424'	3 JSPF	6 holes
5026-5030'	3 JSPF	12 holes
5021-5023'	3 JSPF	6 holes
5015-5018'	3 JSPF	9 holes
4934-4938'	3 JSPF	12 holes
4923-4927'	3 JSPF	12 holes
4796-4803'	3 JSPF	21 holes
4623-4626'	3 JSPF	9 holes
4588-4594'	3 JSPF	18 holes

**NEWFIELD**



**Federal 2-29-9-16**

693' FNL & 2146' FEL NW/NE

Section 29-T9S-R16E

Duchesne Co, Utah

API # 43-013-33424; Lease # UTU-74391

Spud Date: 5/20/09  
 Put on Production: 8/12/09  
 GL: 6214' KB: 6226'

## Federal 3-29-9-16

### Injection Wellbore Diagram

#### SURFACE CASING

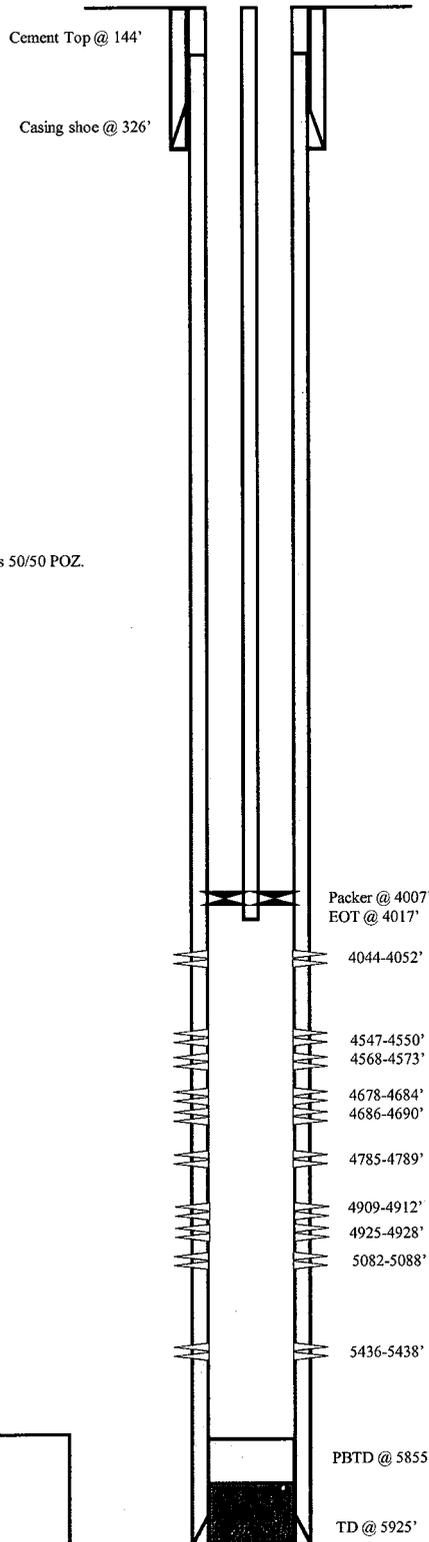
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (276')  
 DEPTH LANDED: 326'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 149 jts. (5843')  
 HOLE SIZE: 7-7/8"  
 DEPTH LANDED: 5896.02'  
 CEMENT DATA: 275 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP AT: 144'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 127 jts (3989.2')  
 SEATING NIPPLE: 2-7/8" (1.1')  
 SN LANDED AT: 4001.2' KB  
 ON/OFF TOOL AT: 4002.3'  
 PACKER CE @ 4007.42'  
 XO AT: 4011.1'  
 TBG PUP 2-3/8" AT: 4011.6'  
 XN 2-3/8" AT: 4015.8'  
 TOTAL STRING LENGTH: EOT @ 4017'



#### FRAC JOB

8-13-09	5082'-5438'	Frac LODC & CP1 sands as follows: Frac with 14872# 20/40 sand in 126 bbls Lightning 17 fluid.
8-13-09	4785'-4928'	Frac A1 & B2 sands as follows: Frac with 19797# 20/40 sand in 167 bbls Lightning 17 fluid.
8-13-09	4678'-4690'	Frac C sands as follows: Frac with 40332# 20/40 sand in 276 bbls Lightning 17 fluid.
8-13-09	4547'-4573'	Frac D1 & D2 sands as follows: Frac with 20179# 20/40 sand in 167 bbls Lightning 17 fluid.
8-13-09	4044'-4052'	Frac GB4 sands as follows: Frac with 48825# 20/40 sand in 307 bbls Lightning 17 fluid.
08/09/12		Convert to Injection Well
08/13/12		Conversion MIT Finalized - update tbg detail

#### PERFORATION RECORD

5436-5438'	3 JSPP	6 holes
5082-5088'	3 JSPP	18 holes
4925-4928'	3 JSPP	9 holes
4909-4912'	3 JSPP	9 holes
4785-4789'	3 JSPP	12 holes
4686-4690'	3 JSPP	12 holes
4678-4684'	3 JSPP	18 holes
4568-4573'	3 JSPP	15 holes
4547-4550'	3 JSPP	9 holes
4044-4052'	3 JSPP	24 holes

**NEWFIELD**

Federal 3-29-9-16  
 674' FNL & 2054' FWL NE/NW  
 Section 29-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33425; Lease #UTU-74391

Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078

Units of Measurement: **Standard**

**Water Analysis Report**

Production Company: **NEWFIELD PRODUCTION**

Well Name: **SWDIF**

Sample Point: **After Filter**

Sample Date: **12/4/2012**

Sample ID: **WA-229142**

Sales Rep: **Michael McBride**

Lab Tech: **Gary Peterson**

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

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

**Notes:**

9:30

(PTB = Pounds per Thousand Barrels)

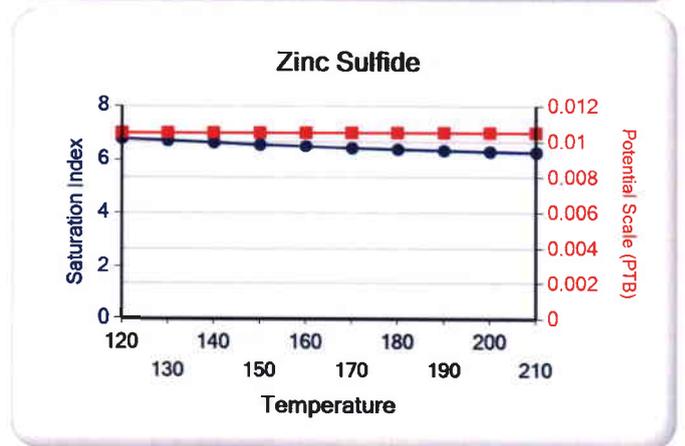
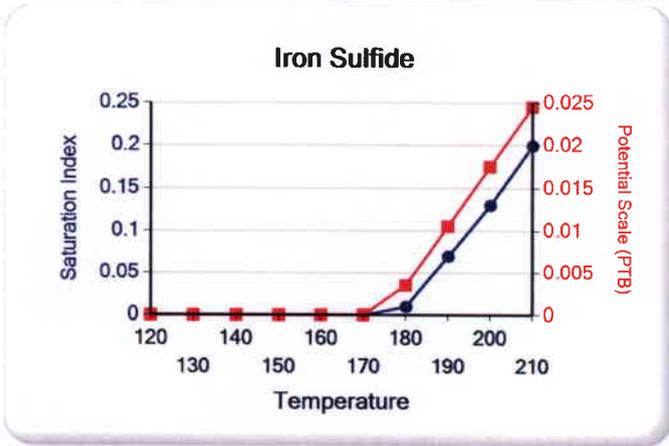
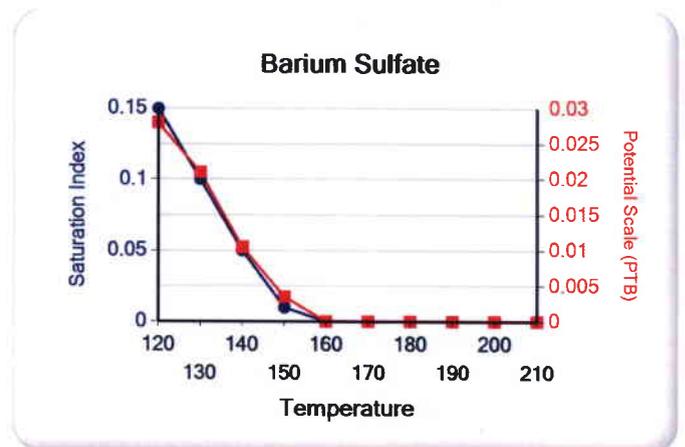
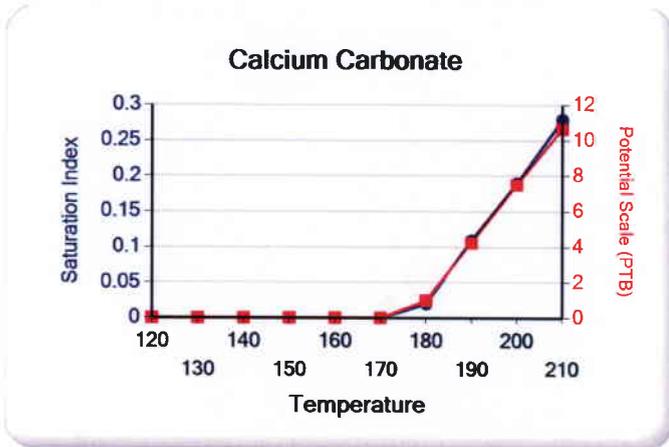
Temp (°F)	PSI	Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO <sub>4</sub> 2H <sub>2</sub> O		Celestite SrSO <sub>4</sub>		Halite NaCl		Zinc Sulfide		
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	
210.00	60.00	0.28	10.64	0.00	0.00	0.20	0.02	0.00	0.00	0.00	0.00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

Water Analysis Report

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

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

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



Units of Measurement: **Standard**

**Water Analysis Report**

Production Company: **NEWFIELD PRODUCTION**  
 Well Name: **FEDERAL 16-20-9-16**  
 Sample Point: **Treater**  
 Sample Date: **3/11/2013**  
 Sample ID: **WA-236953**

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

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

Sample Specifics		Analysis @ Properties in Sample Specifics			
		Cations		Anions	
		mg/L		mg/L	
Test Date:	3/20/2013	Sodium (Na):	15184.72	Chloride (Cl):	21000.00
System Temperature 1 (°F):	120.00	Potassium (K):	84.00	Sulfate (SO4):	775.00
System Pressure 1 (psig):	60.0000	Magnesium (Mg):	1.10	Bicarbonate (HCO3):	3342.80
System Temperature 2 (°F):	210.00	Calcium (Ca):	3.60	Carbonate (CO3):	
System Pressure 2 (psig):	60.0000	Strontium (Sr):	1.40	Acetic Acid (CH3COO)	
Calculated Density (g/ml):	1.025	Barium (Ba):	1.80	Propionic Acid (C2H5COO)	
pH:	9.00	Iron (Fe):	7.60	Butanoic Acid (C3H7COO)	
Calculated TDS (mg/L):	40417.17	Zinc (Zn):	0.05	Isobutyric Acid ((CH3)2CHCOO)	
CO2 in Gas (%):		Lead (Pb):	0.07	Fluoride (F):	
Dissolved CO2 (mg/L):	0.00	Ammonia NH3:		Bromine (Br):	
H2S in Gas (%):		Manganese (Mn):	0.12	Silica (SiO2):	14.91
H2S in Water (mg/L):	105.00				

Notes:  
**B=8.4 AI=.03**

(PTB = Pounds per Thousand Barrels)

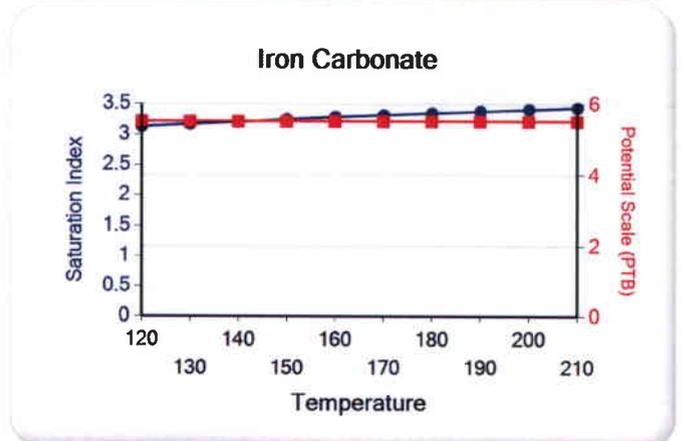
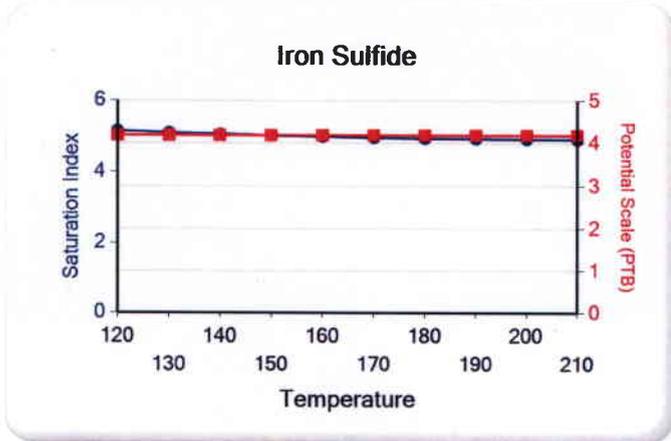
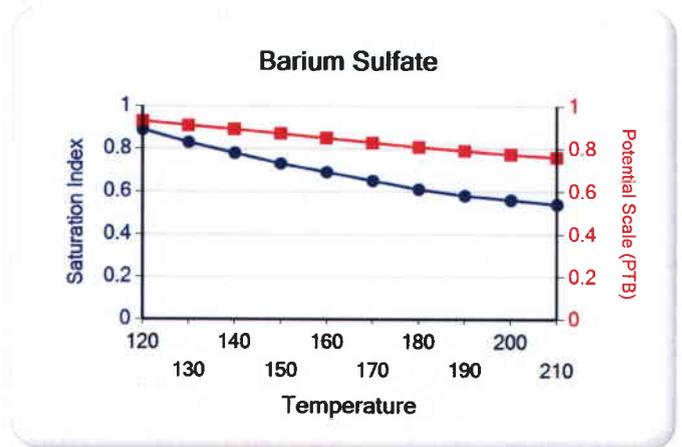
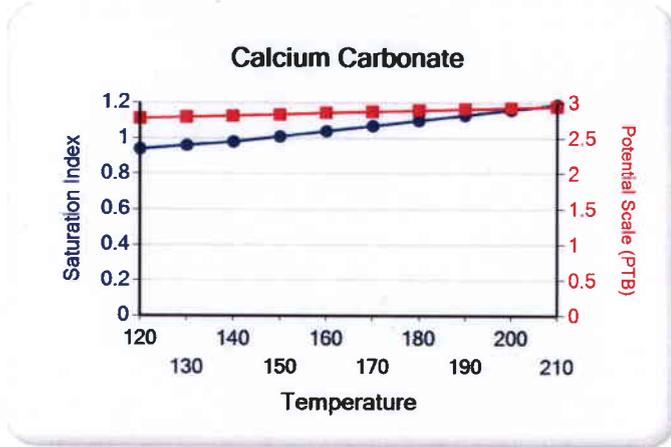
Temp (°F)	PSI	Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO4 2H2O		Celestite SrSO4		Halite NaCl		Zinc Sulfide	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
210.00	60.00	1.19	2.95	0.54	0.76	4.91	4.19	3.44	5.52	0.00	0.00	0.00	0.00	0.00	0.00	9.38	0.02
200.00	60.00	1.16	2.93	0.56	0.77	4.92	4.19	3.41	5.52	0.00	0.00	0.00	0.00	0.00	0.00	9.48	0.02
190.00	60.00	1.13	2.91	0.58	0.79	4.93	4.19	3.38	5.52	0.00	0.00	0.00	0.00	0.00	0.00	9.59	0.02
180.00	60.00	1.10	2.90	0.61	0.81	4.94	4.19	3.35	5.52	0.00	0.00	0.00	0.00	0.00	0.00	9.71	0.02
170.00	60.00	1.07	2.88	0.65	0.83	4.96	4.19	3.32	5.52	0.00	0.00	0.00	0.00	0.00	0.00	9.83	0.02
160.00	60.00	1.04	2.86	0.69	0.85	4.99	4.19	3.29	5.52	0.00	0.00	0.00	0.00	0.00	0.00	9.96	0.02
150.00	60.00	1.01	2.84	0.73	0.87	5.02	4.19	3.25	5.52	0.00	0.00	0.00	0.00	0.00	0.00	10.09	0.02
140.00	60.00	0.98	2.82	0.78	0.89	5.06	4.19	3.21	5.52	0.00	0.00	0.00	0.00	0.00	0.00	10.23	0.02
130.00	60.00	0.96	2.80	0.83	0.91	5.10	4.19	3.17	5.52	0.00	0.00	0.00	0.00	0.00	0.00	10.39	0.02
120.00	60.00	0.94	2.78	0.89	0.93	5.15	4.19	3.13	5.52	0.00	0.00	0.00	0.00	0.00	0.00	10.55	0.02

### Water Analysis Report

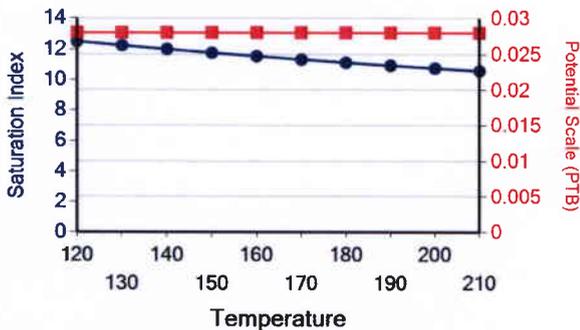
Temp (°F)	PSI	Hemihydrate CaSO4·0.5H2O		Anhydrate CaSO4		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
210.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.17	0.03	10.59	0.03	4.82	2.16	2.14	3.40	13.63	5.91
200.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.11	0.03	10.76	0.03	4.51	2.15	1.97	3.38	13.44	5.91
190.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05	0.03	10.94	0.03	4.19	2.13	1.79	3.36	13.26	5.91
180.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98	0.03	11.13	0.03	3.86	2.11	1.62	3.32	13.07	5.91
170.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.91	0.03	11.33	0.03	3.53	2.09	1.44	3.25	12.88	5.91
160.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.03	11.54	0.03	3.19	2.05	1.26	3.16	12.69	5.91
150.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.03	11.76	0.03	2.85	2.01	1.08	3.03	12.50	5.91
140.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.02	12.00	0.03	2.50	1.95	0.89	2.85	12.31	5.91
130.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.02	12.24	0.03	2.15	1.86	0.71	2.61	12.12	5.91
120.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.02	12.50	0.03	1.79	1.76	0.53	2.31	11.93	5.91

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

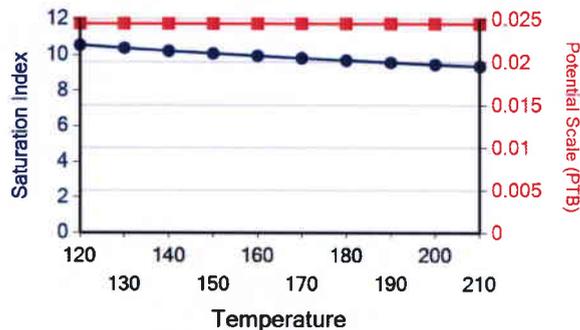
These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Mg Silicate Ca Mg Silicate Fe Silicate



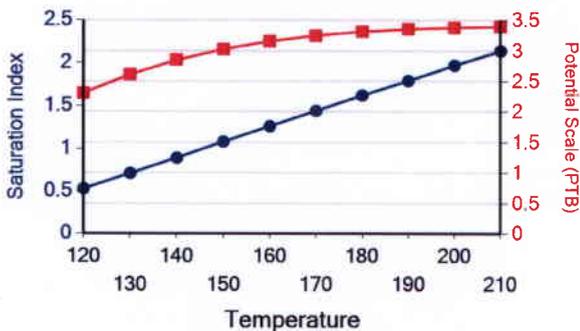
**Lead Sulfide**



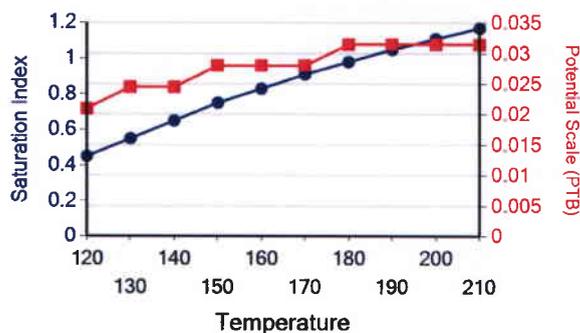
**Zinc Sulfide**



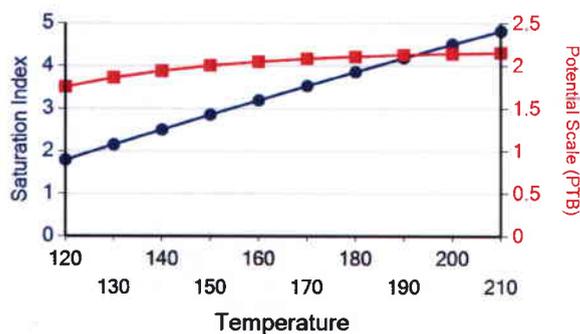
**Ca Mg Silicate**



**Zinc Carbonate**



**Mg Silicate**

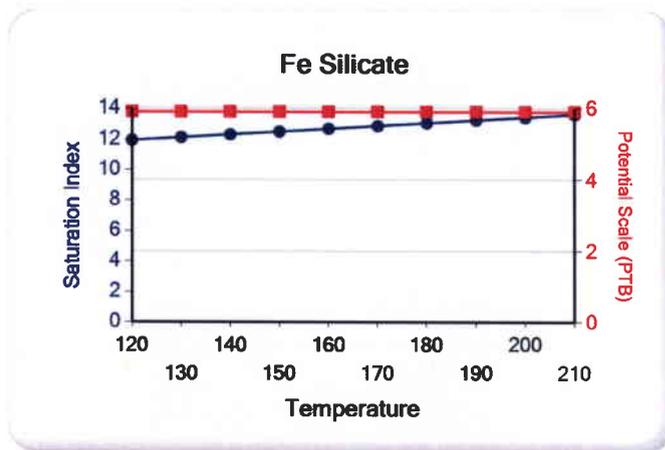


Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078

## Water Analysis Report



**Attachment "G"**

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

Frac Interval (feet)		Avg. Depth (feet)	ISIP (psi)	Calculated Frac Gradient (psi/ft)	Pmax
Top	Bottom				
5440	5453	5447	2215	0.84	2180
5027	5035	5031	2350	0.90	2317
4771	4779	4775	1940	0.84	1909
4701	4709	4705	1995	0.86	1964
4596	4604	4600	1840	0.83	1810 ←
				<b>Minimum</b>	<u><u>1810</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.



DAILY COMPLETION REPORT

WELL NAME: Federal 16-20-9-16 Report Date: 08/08/07 Day: 1  
Operation: Completion Rig: Rigless

WELL STATUS

Surf Csg: 8 5/8" @ 306' Prod Csg: 5 1/2" @ 5978' Csg PBTD: 5918' WL  
Tbg: Size: Wt: Grd: Pkr/EOT @: BP/Sand PBTD:

PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
CP1 sds	5440-5453'	4/52			

CHRONOLOGICAL OPERATIONS

Date Work Performed: 08/07/07 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 @ 5918' & cement top @ 343' Perforate stage #1 W/ 4" ported gun as follows: CP1 sds @ 5440-53' W/ 4 JSPF for total of 52 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  
Zubiate 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: Don Dulen

DAILY COST: \$0  
TOTAL WELL COST:



**DAILY COMPLETION REPORT**

**WELL NAME:** Federal 16-20-9-16 **Report Date:** 8/14/2007 **Day:** 2  
**Operation:** Completion **Rig:** Rigless

**WELL STATUS**

**Surf Csg:** 8 5/8" @ 306' **Prod Csg:** 5 1/2" @ 5978' **Csg PBTD:** 5918' WL  
**Tbg:** Size: \_\_\_\_\_ **Wt:** \_\_\_\_\_ **Grd:** \_\_\_\_\_ **Pkr/EOT @:** \_\_\_\_\_ **BP/Sand PBTD:** 5120'

**PERFORATION RECORD**

<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>	<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>
<b>CP1 sds</b>	<b>5440-5453'</b>	<b>4/52</b>			

**CHRONOLOGICAL OPERATIONS**

**Date Work Performed:** 08/13/07 **SITP:** \_\_\_\_\_ **SICP:** \_\_\_\_\_

RU BJ Services "Ram Head" frac flange. RU BJ & frac stage #1, CP1 sds down casing w/ 29,557#'s of 20/40 sand in 412 bbls of Lightning 17 frac fluid. Open well w/ 0 psi on casing. Perfs broke down @ 3183. Treated @ ave pressure of 2090 @ ave rate of 25.4 bpm w/ 6.5 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2215. 556 bbls EWTR. Leave pressure on well. RU Perforators LLC WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" (6K) composite flow through frac plug & 8' perf gun. When setting frac plug & 5120' charge went off but setting tool didn't shear off plug. Try to work loose. Decision made to pull off. Pulled out of rope socket. Flow well back Well flowed back 20 bbls. SIFN. Wait on rig. Top of fish @ 5099' (3-1/8").

**FLUID RECOVERY (BBLs)**

**Starting fluid load to be recovered:** 144 **Starting oil rec to date:** \_\_\_\_\_  
**Fluid lost/recovered today:** 392 **Oil lost/recovered today:** \_\_\_\_\_  
**Ending fluid to be recovered:** 536 **Cum oil recovered:** \_\_\_\_\_  
**IFL:** \_\_\_\_\_ **FFL:** \_\_\_\_\_ **FTP:** \_\_\_\_\_ **Choke:** \_\_\_\_\_ **Final Fluid Rate:** \_\_\_\_\_ **Final oil cut:** \_\_\_\_\_

**STIMULATION DETAIL**

**Base Fluid used:** Lightning 17 **Job Type:** Sand frac  
**Company:** BJ Services  
**Procedure or Equipment detail:** CP1 sds down casing  
1680 gals w/ 767W & to cross link  
2982 gals of pad  
2319 gals w/ 1-4 ppg of 20/40 sand  
4863 gals w/ 4-6.5 ppg of 20/40 sand  
504 gals of 15% HCL acid  
Flush w/ 4956 gals of slick water

**COSTS**

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

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

**Max TP:** 2290 **Max Rate:** 25.5 **Total fluid pmpd:** 412 bbls  
**Avg TP:** 2090 **Avg Rate:** 25.4 **Total Prop pmpd:** 29,557#'s  
**ISIP:** 2215 **5 min:** \_\_\_\_\_ **10 min:** \_\_\_\_\_ **FG:** .84

**Completion Supervisor:** Ron Shuck

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



## DAILY COMPLETION REPORT

**WELL NAME:** Federal 16-20-9-16      **Report Date:** 8/15/2007      **Day:** 3  
**Operation:** Completion      **Rig:** Western #3

### WELL STATUS

**Surf Csg:** 8 5/8" @ 306'      **Prod Csg:** 5 1/2" @ 5978'      **Csg PBTD:** 5918' WL  
**Tbg:** Size: 2-7/8" Wt: 6.5#      **Grd:** J-55 **Pkr/EOT @:** 5061'      **BP/Sand PBTD:** 5120'

### PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
<b>CP1 sds</b>	<b>5440-5453'</b>	<b>4/52</b>			

### CHRONOLOGICAL OPERATIONS

**Date Work Performed:** 08/14/07      **SITP:** \_\_\_\_\_ **SICP:** 0

Open well w/ 0 psi on casing. MIRUSU. Cannot get tools in well due to welded bead on bell to thread nipple in 5-1/2' casing. ND BOP's & frac head. Get welder to grind bead off. Instal frac head. NU Cameron BOP's. Tally, pickup TII w/ graphel, Bumper sub, Jares & 162 jts tbg to tag fish @ 5099'. RU pump & tanks. Circulate well clean. Lay down 2 jts tbg. SIFN.

### FLUID RECOVERY (BBLs)

**Starting fluid load to be recovered:** 536      **Starting oil rec to date:** \_\_\_\_\_  
**Fluid lost/recovered today:** 0      **Oil lost/recovered today:** \_\_\_\_\_  
**Ending fluid to be recovered:** 536      **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:**

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

### COSTS

Western #3  
Four Star fishing  
B&L new J-55 tbg  
NDSI trkg  
NDSI wtr & trkg  
Unichem Chemicals  
Monks pit reclaim  
NPC sfc equipment  
Boren labor/welding  
NDSI wtr disposal  
NPC location cleanup  
MTN West Sanitation  
NPC Supervisor

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

**Completion Supervisor:** Ron Shuck

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

# NEWFIELD



ATTACHMENT G-1  
4 of 11

## DAILY COMPLETION REPORT

WELL NAME: Federal 16-20-9-16 Report Date: 08/16/07 Day: 4  
Operation: Completion Rig: Western #3

### WELL STATUS

Surf Csg: 8 5/8" @ 306' Prod Csg: 5 1/2" @ 5978' Csg PBTD: 5918' WL  
Tbg: Size: 2-7/8" Wt: 6.5# Grd: J-55 Pkr/EOT @: \_\_\_\_\_ BP/Sand PBTD: 5120'

### PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
CP1 sds	5440-5453'	4/52	_____	_____	_____

### CHRONOLOGICAL OPERATIONS

Date Work Performed: 08/15/07 SITP: \_\_\_\_\_ SICP: 0

Open well w/ 0 psi on casing. TIH w/ tbg & latch onto fish @ 5099'. Jar on fish for 3-1/2 hours to get loose. TOO H w/ tbg. LD fish tools. TIH w/ NC, 163 jts tbg to tag plug @ 5120'. Circulate well clean w/ KCL water. TOO H w/ tbg SIFN. No water lose.

### FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 536 Starting oil rec to date: \_\_\_\_\_  
Fluid lost/recovered today: 0 Oil lost/recovered today: \_\_\_\_\_  
Ending fluid to be recovered: 536 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:

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

### COSTS

Western #3  
Weatherford BOP's  
NPC trucking  
Four Star  
C-D trucking  
BJ Chemical  
NP Supervisor  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

Completion Supervisor: Ron Shuck

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



**DAILY COMPLETION REPORT**

**WELL NAME:** Federal 16-20-9-16 **Report Date:** 08/17/07 **Day:** 5a  
**Operation:** Completion **Rig:** Western #3

**WELL STATUS**

**Surf Csg:** 8 5/8" @ 306' **Prod Csg:** 5 1/2" @ 5978' **Csg PBTD:** 5918' WL  
**Tbg:** **Size:** 2-7/8" **Wt:** 6.5# **Grd:** J-55 **Pkr/EOT @:** \_\_\_\_\_ **BP/Sand PBTD:** 5120'

**PERFORATION RECORD**

<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>	<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
<b>LODC sds</b>	<b>5027-5035'</b>	<b>4/32</b>	_____	_____	_____
<b>CP1 sds</b>	<b>5440-5453'</b>	<b>4/52</b>	_____	_____	_____

**CHRONOLOGICAL OPERATIONS**

**Date Work Performed:** 08/16/07 **SITP:** \_\_\_\_\_ **SICP:** 0

Day5a.

RU Zubiate Hot Oil & test frac plug, BOP's & frac head to 4500 psi. RU Perforators LLC WLT & lubricator. RIH w/ 8 perf gun. Perforate LODC sds @ 5027-35' w/ 3-1/8" Slick Guns ( 23 gram, .43HE", 120 ) w/ 4 spf for total of 32 shots RU BJ Services "Ram Head" frac flange. BJ broke down. RU BJ & frac LODC sds, stage #2 down casing w/ 19,063#'s of 20/40 sand in 311 bbls of Lightning 17 frac fluid. Open well w/ 0 psi on casing. Perfs broke down @ 3462 psi. Treated @ ave pressure of 2091 @ ave rate of 24.8 bpm w/ 6.5 ppg of sand. Spot 12 bbls of 15% HCL acid ir flush for next stage. ISIP was 2350. 847 bbls EWTR. Leave pressure on well. **See day5b.**

**FLUID RECOVERY (BBLs)**

**Starting fluid load to be recovered:** 536 **Starting oil rec to date:** \_\_\_\_\_  
**Fluid lost/recovered today:** 311 **Oil lost/recovered today:** \_\_\_\_\_  
**Ending fluid to be recovered:** 847 **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:** LODC sds down casing  
1470 gals of Techni Hib & to cross link  
1974 gals of pad  
1511 gals w/ 1-4 ppg of 20/40 sand  
3067 gals w/ 4-6.5ppg of 20/40 sand  
504 gals of 15% HCL acid  
Flush w/ 4536 bbls of Slick Water

\_\_\_\_\_ C-D trucking  
 \_\_\_\_\_ NPC fuel gas  
 \_\_\_\_\_ BJ Services LODC sds  
 \_\_\_\_\_ Perforators LODC sds  
 \_\_\_\_\_ Weatherford Services  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

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

**Max TP:** 2473 **Max Rate:** 24.8 **Total fluid pmpd:** 311 bbls  
**Avg TP:** 2091 **Avg Rate:** 24.8 **Total Prop pmpd:** 19,063#'s  
**ISIP:** 2350 **5 min:** \_\_\_\_\_ **10 min:** \_\_\_\_\_ **FG:** .90

**Completion Supervisor:** Ron Shuck

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

# NEWFIELD



ATTACHMENT G-1

6 of 11

## DAILY COMPLETION REPORT

**WELL NAME:** Federal 16-20-9-16      **Report Date:** 08/17/07      **Day:** 5b  
**Operation:** Completion      **Rig:** Western #3

### WELL STATUS

**Surf Csg:** 8 5/8" @ 306'      **Prod Csg:** 5 1/2" @ 5978'      **Csg PBDT:** 5918' WL  
**Tbg:** **Size:** 2-7/8"    **Wt:** 6.5#    **Grd:** J-55    **Pkr/EOT @:** \_\_\_\_\_    **BP/Sand PBDT:** 4880'  
plug 5120'

### PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
<u>B1 sds</u>	<u>4771-4779'</u>	<u>4/32</u>	_____	_____	_____
<u>LODC sds</u>	<u>5027-5035'</u>	<u>4/32</u>	_____	_____	_____
<u>CP1 sds</u>	<u>5440-5453'</u>	<u>4/52</u>	_____	_____	_____

### CHRONOLOGICAL OPERATIONS

**Date Work Performed:** 08/16/07      **SITP:** \_\_\_\_\_      **SICP:** 0

Day5b.

RU WLT. RIH Weatherford 5-1/2" composite flow through (10K) frac plug & 8' perf gun. Set plug @ 4880'. Perforate B1 sds @ 4771-79' w/ 4 spf for total of 32 shots. RU BJ & frac stage #3 w/ 46,260#'s of 20/40 sand in 432 bbls of Lightning 17 frac fluid. Open well w/ 1875 psi on casing. Perfs broke down @ 3882 psi. Treated @ ave pressure of 2079 @ ave rate of 24.8 bpm w/ 6.5 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 1940. 1279 bbls EWTR. Leave pressure on well. **See day5c.**

### FLUID RECOVERY (BBLs)

**Starting fluid load to be recovered:** 847      **Starting oil rec to date:** \_\_\_\_\_  
**Fluid lost/recovered today:** 432      **Oil lost/recovered today:** \_\_\_\_\_  
**Ending fluid to be recovered:** 1279      **Cum oil recovered:** \_\_\_\_\_  
**IFL:** \_\_\_\_\_    **FFL:** \_\_\_\_\_    **FTP:** \_\_\_\_\_    **Choke:** \_\_\_\_\_    **Final Fluid Rate:** \_\_\_\_\_    **Final oil cut:** \_\_\_\_\_

### STIMULATION DETAIL

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

**Procedure or Equipment detail:**    B1 sds down casing  
1554 gals of Techni Hib & to cross link  
3570 gals of pad  
2819 gals w/ 1-4 ppg of 20/40 sand  
5371 gals w/ 4-6.5ppg of 20/40 sand  
504 gals of 15% HCL acid  
Flush w/ 4326 bbls of Slick Water

### COSTS

\_\_\_\_\_  
C-D trucking  
 \_\_\_\_\_  
NPC fuel gas  
 \_\_\_\_\_  
BJ Services B1 sds  
 \_\_\_\_\_  
Perforators B1 sds  
 \_\_\_\_\_  
Weatherford Services  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

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

**Max TP:** 2365    **Max Rate:** 24.8    **Total fluid pmpd:** 432 bbls  
**Avg TP:** 2079    **Avg Rate:** 24.8    **Total Prop pmpd:** 46,260#'s  
**ISIP:** 1940    **5 min:** \_\_\_\_\_    **10 min:** \_\_\_\_\_    **FG:** .84

**Completion Supervisor:** Ron Shuck

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



7 of 11

**DAILY COMPLETION REPORT**

**WELL NAME:** Federal 16-20-9-16 **Report Date:** 08/17/07 **Day:** 5c  
**Operation:** Completion **Rig:** Western #3

**WELL STATUS**

**Surf Csg:** 8 5/8" @ 306' **Prod Csg:** 5 1/2" @ 5978' **Csg PBTD:** 5918' WL  
**Tbg:** **Size:** 2-7/8" **Wt:** 6.5# **Grd:** J-55 **Pkr/EOT @:** \_\_\_\_\_ **BP/Sand PBTD:** 4730'  
plug 5120' 4880'

**PERFORATION RECORD**

<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>	<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>
<u>C sds</u>	<u>4701-4709'</u>	<u>4/32</u>	_____	_____	_____
<u>B1 sds</u>	<u>4771-4779'</u>	<u>4/32</u>	_____	_____	_____
<u>LODC sds</u>	<u>5027-5035'</u>	<u>4/32</u>	_____	_____	_____
<u>CP1 sds</u>	<u>5440-5453'</u>	<u>4/52</u>	_____	_____	_____

**CHRONOLOGICAL OPERATIONS**

**Date Work Performed:** 08/16/07 **SITP:** \_\_\_\_\_ **SICP:** 1570

Day5c.  
 RU WLT. RIH frac plug & 8' perf gun. Set plug @ 4730'. Perforate C sds @ 4701-09' w/ 4 spf for total of 32 shots  
 RU BJ & frac stage #4 w/ 108,507#'s of 20/40 sand in 795 bbls of Lightning 17 frac fluid. Open well w/ 1570 psi or  
 casing. Perfs broke down @ 3774 psi. Treated @ ave pressure of 2113 @ ave rate of 24.8 bpm w/ 8 ppg of sand  
 Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 1995. 2074 bbls EWTR. Leave pressure on well. See  
 day5d.

**FLUID RECOVERY (BBLs)**

**Starting fluid load to be recovered:** 1279 **Starting oil rec to date:** \_\_\_\_\_  
**Fluid lost/recovered today:** 795 **Oil lost/recovered today:** \_\_\_\_\_  
**Ending fluid to be recovered:** 2074 **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 sds down casing  
1428 gals of Techni Hib & to cross link  
8274 gals of pad  
8300 gals w/ 1-5 ppg of 20/40 sand  
11250 gals w/ 5-8 ppg of 20/40 sand  
2109 gals w/ 8 ppg of 20/40 sand  
504 gals of 15% HCL acid  
Flush w/ 4200 bbls of Slick Water

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

**Max TP:** 2694 **Max Rate:** 24.8 **Total fluid pmpd:** 795 bbls  
**Avg TP:** 2113 **Avg Rate:** 24.8 **Total Prop pmpd:** 108,507#'s  
**ISIP:** 1995 **5 min:** \_\_\_\_\_ **10 min:** \_\_\_\_\_ **FG:** .86

**Completion Supervisor:** Ron Shuck

**COSTS**

\_\_\_\_\_ C-D trucking \_\_\_\_\_  
 \_\_\_\_\_ NPC fuel gas \_\_\_\_\_  
 \_\_\_\_\_ BJ Services C sds \_\_\_\_\_  
 \_\_\_\_\_ Perforators C sds \_\_\_\_\_  
 \_\_\_\_\_ Weatherford Services \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
**DAILY COST:** \_\_\_\_\_ \$0  
**TOTAL WELL COST:** \_\_\_\_\_ \$0



## DAILY COMPLETION REPORT

**WELL NAME:** Federal 16-20-9-16      **Report Date:** 08/17/07      **Day:** 5d  
**Operation:** Completion      **Rig:** Western #3

### WELL STATUS

**Surf Csg:** 8 5/8" @ 306'      **Prod Csg:** 5 1/2" @ 5978'      **Csg PBTD:** 5918' WL  
**Tbg:** **Size:** 2-7/8"    **Wt:** 6.5#    **Grd:** J-55    **Pkr/EOT @:** \_\_\_\_\_    **BP/Sand PBTD:** 4650'  
plug 5120' 4880' 4730'

### PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
D2 sds	4596-4604'	4/32	_____	_____	_____
C sds	4701-4709'	4/32	_____	_____	_____
B1 sds	4771-4779'	4/32	_____	_____	_____
LODC sds	5027-5035'	4/32	_____	_____	_____
CP1 sds	5440-5453'	4/52	_____	_____	_____

### CHRONOLOGICAL OPERATIONS

**Date Work Performed:** 08/16/07      **SITP:** \_\_\_\_\_      **SICP:** 1115

Day 5d.

RU WLT. RIH frac plug & 8' perf gun. Set plug @ 4650'. Perforate D2 sds @ 4596-4604' w/ 4 spf for total of 32 shots. RU BJ & frac stage #5 w/ 44,879#'s of 20/40 sand in 429 bbls of Lightning 17 frac fluid. Open well w/ 1115 ps on casing. Perfs broke down @ 3349 psi. Treated @ ave pressure of 2001 ave rate of 24.8 bpm w/ 8 ppg of sand ISIP was 1840. 2503 bbls EWTR. RD BJ & WLT. Flow well back. Well flowed for 5 hours & died w/ 350 bbls rec'd SIFN.

### FLUID RECOVERY (BBLs)

**Starting fluid load to be recovered:** 2503      **Starting oil rec to date:** \_\_\_\_\_  
**Fluid lost/recovered today:** 350      **Oil lost/recovered today:** \_\_\_\_\_  
**Ending fluid to be recovered:** 2153      **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:**    D2 sds down casing  
1386 gals of Techni Hib & to cross link  
3570 gals of pad  
2819 gals w/ 1-5 ppg of 20/40 sand  
3707 gals w/ 5-8 ppg of 20/40 sand  
Flush w/ 4536 bbls of Slick Water

### COSTS

Western #3  
Weatherford BOP's  
C-D trucking  
NPC fuel gas  
BJ Services C sds  
Perforators C sds  
Weatherford Services  
C-D trkg water transfer  
NPC flow back hand  
NPC Supervisor

**Max TP:** 2236    **Max Rate:** 24.8    **Total fluid pmpd:** 429 bbls  
**Avg TP:** 2001    **Avg Rate:** 24.8    **Total Prop pmpd:** 44,879#'s  
**ISIP:** 1840    **5 min:** \_\_\_\_\_    **10 min:** \_\_\_\_\_    **FG:** .83

**Completion Supervisor:** Ron Shuck

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



DAILY COMPLETION REPORT

WELL NAME: Federal 16-20-9-16 Report Date: 08/18/07 Day: 6
Operation: Completion Rig: Western #3

WELL STATUS

Surf Csg: 8 5/8" @ 306' Prod Csg: 5 1/2" @ 5978' Csg PBDT: 5939'
Tbg: Size: 2-7/8" Wt: 6.5# Grd: J-55 Pkr/EOT @: 5978' BP/Sand PBDT:

PERFORATION RECORD

Table with 6 columns: Zone, Perfs, SPF/#shots, Zone, Perfs, SPF/#shots. Rows include D2 sds, C sds, B1 sds, LODC sds, CP1 sds.

CHRONOLOGICAL OPERATIONS

Date Work Performed: 08/17/07 SITP: SICP: 450

Open well w/ 450 psi on casing. Well flowing 1/2 bpm w/ oil & gas show. Pump 55 bbls down casing pressured to 850 psi @ 1-1/2 bpm. Flow well back & ND Cameron BOP's & 5K frac head. Instal 3K tbg production head & Schaefer BOP's. TIH w/ 4-3/4" Chomp bit, bit sub & 149 jts tbg to tag sand @ 4620' (30'). RU Swivel, pump/tanks. C/O sand to plug drlg up plug #1. TIH w/ tbg to tag 50' sand, C/O to plug @ 4730'. Drlg up plug #2. TIH w/ tbg to tag 18' of sand C/O to plug @ 4880'. Drlg up plug #3. TIH w/ tbg to tag 160' of sand, C/O to plug @ 5120'. Drlg out plug #4. TIH w/ tbg to tag 160' of sand. C/O to PBDT @ 5939'. Lay down 2 jts tbg. SIFN.

FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 2153 Starting oil rec to date:
Fluid lost/recovered today: 45 Oil lost/recovered today:
Ending fluid to be recovered: 2108 Cum oil recovered:
IFL: FFL: FTP: Choke: Final Fluid Rate: Final oil cut:

STIMULATION DETAIL

COSTS

Base Fluid used: Job Type: Western #3
Company: Weatherford BOP's
Procedure or Equipment detail: Nabors swivel
NPC trucking
NDSI trucking
Unichem Chemical
NPC Supervisor

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

Completion Supervisor: Ron Shuck

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



**DAILY COMPLETION REPORT**

**WELL NAME:** Federal 16-20-9-16 **Report Date:** August 21, 2007 **Day:** 7  
**Operation:** Completion **Rig:** Western #3

**WELL STATUS**

**Surf Csg:** 8 5/8" @ 306' **Prod Csg:** 5 1/2" @ 5978' **Csg PBTD:** 5939'  
**Tbg:** **Size:** 2-7/8" **Wt:** 6.5# **Grd:** J-55 **Anchor @:** 5422' **BP/Sand PBTD:** 5939'

**PERFORATION RECORD**

<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>	<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>
D2 sds	4596-4604'	4/32			
C sds	4701-4709'	4/32			
B1 sds	4771-4779'	4/32			
LODC sds	5027-5035'	4/32			
CP1 sds	5440-5453'	4/52			

**CHRONOLOGICAL OPERATIONS**

**Date Work Performed:** August 20, 2007 **SITP:** 0 **SICP:** 0

No pressure on well. RU swab equipment. IFL @ sfc. Made 15 swb runs rec 135 BTF W/ light gas, tr oil & no sand FFL @ 1600'. TIH W/ tbg. Tag sd @ 5934' (5' new fill). C/O sd to PBTD @ 5939'. Circ hole clean. Lost est 45 BW 8 rec 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, 1 j tbg, new CDI 5 1/2" TA (45K) & 172 jts 2 7/8 8rd 6.5# J-55 tbg. ND BOP. Set TA @ 5422' W/ SN @ 5456' & EOT @ 5521'. Land tbg W/ 16,000# tension. NU wellhead. PU & TIH W/ pump and "A" grade rod string to 2950'. PL polished rod & SIFN. Est 2018 BWTR.

**FLUID RECOVERY (BBLs)**

**Starting fluid load to be recovered:** 2108 **Starting oil rec to date:** \_\_\_\_\_  
**Fluid lost/recovered today:** 90 **Oil lost/recovered today:** \_\_\_\_\_  
**Ending fluid to be recovered:** 2018 **Cum oil recovered:** \_\_\_\_\_  
**IFL:** sfc **FFL:** 1600' **FTP:** \_\_\_\_\_ **Choke:** \_\_\_\_\_ **Final Fluid Rate:** \_\_\_\_\_ **Final oil cut: tr**

**STIMULATION DETAIL**

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

**COSTS**

Western #3  
Weatherford BOP's  
Marta-Co WH parts  
CDI TA & SN  
NPC trucking  
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:** \_\_\_\_\_ **\$0**



## ATTACHMENT H

### WORK PROCEDURE FOR PLUGGING AND ABANDONMENT

1. Set CIBP @ 4546'
2. Plug #1 Set 100' plug on top of CIBP using 12 sx Class "G" cement
3. Plug #2 174' balance plug using 21 sx Class "G" cement 50' above Trona-Bird's Nest extending 50' below base of Mahogany Oil Shale
4. Plug #3 120' balance plug using 14sx Class "G" cement 60' above Uinta/Green River and extending 60' below
5. Perforate 4 JSPF @ 356'
6. Plug #4 Circulate 103 sx Class "G" cement down 5 ½" casing and up the 5-1/2" x 8-5/8" annulus

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

## FEDERAL 16-20-9-16

Spud Date: 05/29/07  
 Put on Production: 08/21/07  
 GL: 6129' KB: 6141'

Initial Production: BOPD,  
 MCFD, BWPD

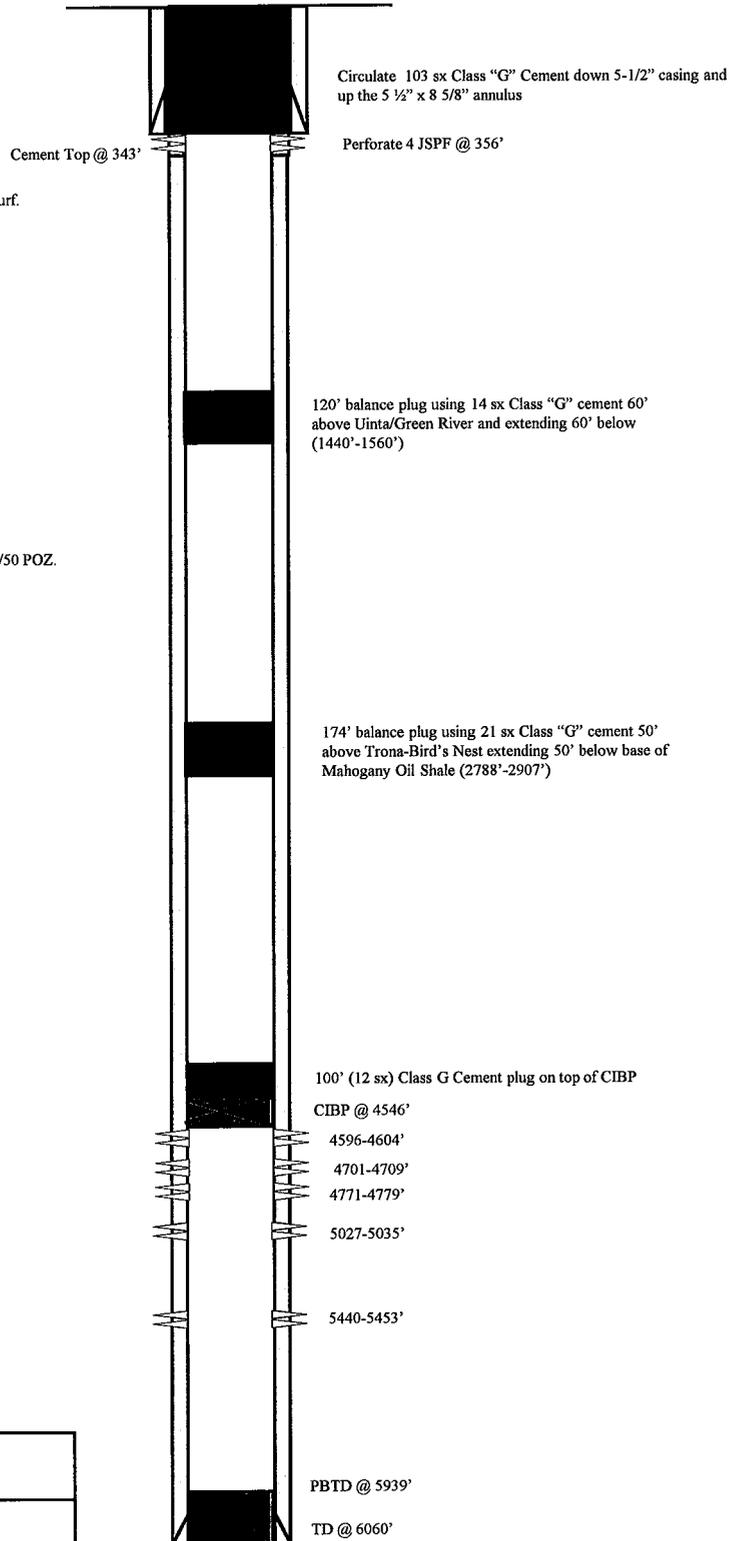
### Proposed P & A Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (295.42')  
 DEPTH LANDED: 306.32' 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: 155 jts. (5977.37')  
 DEPTH LANDED: 5978.62' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.




<b>FEDERAL 16-20-9-16</b> 716' FSL & 920' FEL SE/SE Section 20-T9S-R16E Duchesne Co, Utah API #43-013-33109; Lease # UTU-74391

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-408

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 20 and 21, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

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

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

Greater Monument Butte Unit:

Federal 16-20-9-16 well located in SE/4 SE/4, Section 20, Township 9 South, Range 16 East  
API 43-013-33109

Federal 14-21-9-16 well located in SE/4 SW/4, Section 21, Township 9 South, Range 16 East  
API 43-013-33141

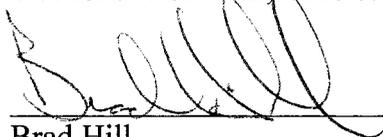
The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

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 2nd day of May, 2013.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING



Brad Hill  
Permitting Manager

**Newfield Production Company**

**FEDERAL 16-20-9-16, FEDERAL 14-21-9-16**

**Cause No. UIC-408**

Publication Notices were sent to the following:

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

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

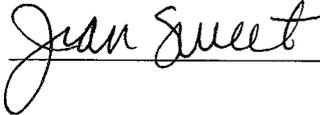
Uintah Basin Standard  
268 South 200 East  
Roosevelt, UT 84066  
via e-mail [legals@ubstandard.com](mailto:legals@ubstandard.com)

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

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

Newfield Production Company  
Rt 3 Box 3630  
Myton, UT 84052

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

  
\_\_\_\_\_



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

May 2, 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-408

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:

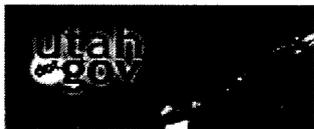
Division of Oil, Gas and Mining  
PO Box 145801  
Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet  
Executive Secretary

Enclosure





Jean Sweet &lt;jsweet@utah.gov&gt;

---

**Re: Notice of Agency Action – Newfield Production Company Cause No. UIC-408**

1 message

---

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

Fri, May 3, 2013 at 10:25 AM

To: Jean Sweet &lt;jsweet@utah.gov&gt;

On 5/2/2013 2:51 PM, Jean Sweet wrote:

To Whom It May Concern:

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

Please send proof of publication and billing to:

Division of Oil, Gas and Mining

PO Box 145801

Salt Lake City, UT 84114-5801

Sincerely,

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

This will publish May 7. Thank you.

Cindy



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

May 2, 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-408

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>

---

## Legal Notice

1 message

---

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

Thu, May 2, 2013 at 3:24 PM

AD# 877312  
Run Trib/DNews - 5/5  
Cost \$203.24  
Thank you  
Mark

 **OrderConf.pdf**  
120K

## Order Confirmation for Ad #000877312-01

<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>E-Mail</b>	juliecarter@utah.gov	Jean	mfultz

<b>Total Amount</b>	<b>\$203.24</b>			
<b>Payment Amt</b>	<b>\$0.00</b>			
<b>Amount Due</b>	<b>\$203.24</b>	<b>Tear Sheets</b>	<b>Proofs</b>	<b>Affidavits</b>
		0	0	1
<b>Payment Method</b>		<b>PO Number</b>	20130502	

**Confirmation Notes:**

**Text:** Jean

<b>Ad Type</b>	<b>Ad Size</b>	<b>Color</b>
Legal Liner	2.0 X 59 Li	<NONE>

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

**Ad Content Proof Actual Size**

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-408

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 20 and 21, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

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

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

Greater Monument Butte Unit  
Federal 16-20-9-16 well located in SE/4 SE/4, Section 20, Township 9 South, Range 16 East  
API 43-013-33109  
Federal 14-21-9-16 well located in SE/4 SW/4, Section 21, Township 9 South, Range 16 East  
API 43-013-33141

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 2nd day of May, 2013.  
STATE OF UTAH  
DIVISION OF OIL, GAS & MINING  
/s/  
Brad Hill  
Permitting Manager  
877312

UPAXLP

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

**The Salt Lake Tribune**  
WWW.SLTTRIB.COM

**MEDIAOne**  
AN NEWSPAPER AGENCY COMPANY  
WWW.MEDIAONEUTAH.COM

**Deseret News**  
WWW.DESERETNEWS.COM

PROOF OF PUBLICATION

CUSTOMER'S COPY

CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	DATE
DIV OF OIL-GAS & MINING,  1594 W NORTH TEMP #1210 P.O. BOX 145801 SALT LAKE CITY, UT 84114	9001402352	5/6/2013

<b>ACCOUNT NAME</b>			
DIV OF OIL-GAS & MINING,			
<b>TELEPHONE</b>		<b>ADORDER# / INVOICE NUMBER</b>	
8015385340		0000877312 /	
<b>SCHEDULE</b>			
Start 05/05/2013		End 05/05/2013	
<b>CUST. REF. NO.</b>			
20130502			
<b>CAPTION</b>			
BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL R			
<b>SIZE</b>			
59	Lines	2.00	COLUMN
<b>TIMES</b>		<b>RATE</b>	
4			
<b>MISC. CHARGES</b>		<b>AD CHARGES</b>	
<b>TOTAL COST</b>			
203.24			

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-408

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 20 AND 21, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

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Dated this 2nd day of May, 2013.  
STATE OF UTAH  
DIVISION OF OIL, GAS & MINING  
/s/ Brad Hill

AFFIDAVIT OF PUBLICATION

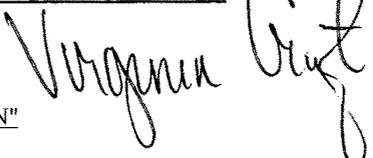
AS NEWSPAPER AGENCY COMPANY, LLC dba MEDIAONE OF UTAH LEGAL BOOKER, I CERTIFY THAT THE ATTACHED ADVERTISEMENT OF **BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH NOTICE OF AGENCY ACTION CAUSE NO. UIC-408 IN THE MATTER OF THE APPLICA** FOR **DIV OF OIL-GAS & MINING**, WAS PUBLISHED BY THE NEWSPAPER AGENCY COMPANY, LLC dba MEDIAONE OF UTAH, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET NEWS, DAILY NEWSPAPERS PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN UTAH, AND PUBLISHED IN SALT LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH. NOTICE IS ALSO POSTED ON UTAHLEGALS.COM ON THE SAME DAY AS THE FIRST NEWSPAPER PUBLICATION DATE AND REMAINS ON UTAHLEGALS.COM INDEFINATELY.

PUBLISHED ON Start 05/05/2013 End 05/05/2013

SIGNATURE 

5/6/2013

 VIRGINIA GRAY  
Notary Public, State of Utah  
Commission # 1311469  
My Commission Expires  
January 12, 2014



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 7 day of May, 20 13, and that the last publication of such notice was in the issue of such newspaper dated the 7 day of May, 20 13, and that said notice was published on Utahlegals.com on the same day as the first newspaper publication and the notice remained on Utahlegals.com until the end of the scheduled run.

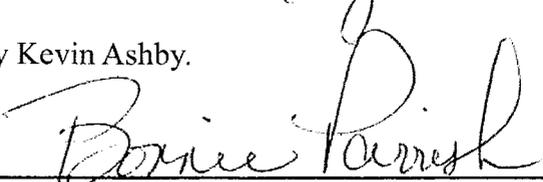


Publisher

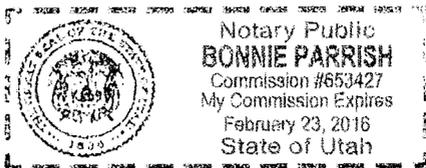
Subscribed and sworn to before me on this

8 day of May, 20 13

by Kevin Ashby.



Notary Public



## NOTICE OF AGENCY ACTION CAUSE NO. UIC-408

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

IN THE MATTER OF THE APPLICATION OF NEW-FIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 20 and 21, 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.

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Greater Monument Butte Unit:

Federal 16-20-9-16 well located in SE/4 SE/4, Section 20 Township 9 South

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Dated this 2nd day of May, 2013.

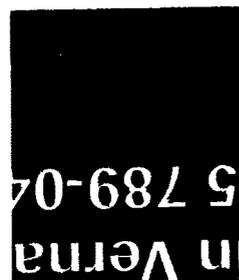
STATE OF UTAH  
DIVISION OF OIL,  
GAS & MINING

/s/

Brad Hill

Permitting Manager

Published in the  
Uintah Basin Standard  
May 7, 2013.



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

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

**Location:** 20/9S/16E      **API:** 43-013-33109

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

**Well Integrity:** The proposed well has surface casing set at 343 feet and has a cement top at the surface. A 5½ inch production casing is set at 5,979 feet. The cement bond log is somewhat problematic but appears to demonstrate adequate bond in this well up to about 2,984 feet. A 2 7/8 inch tubing with a packer is proposed at 4,546 feet. Higher perforations will 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, 4 injection wells, and 1 P/A well in 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 2800 feet. Injection shall be limited to the interval between 3,857 feet and 5,964 feet in the Green River Formation. Information submitted by Newfield indicates that the fracture gradient for the 16-20-9-16 well is 0.83 psi/ft., which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 1,810 psig. The requested maximum pressure is 1,810 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 16-20-9-16**

**page 2**

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

**Bonding:** Bonded with the BLM

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

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

Reviewer(s): Mark Reinbold

Date: 5/14/2013



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 23, 2013

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

Subject: Greater Monument Butte Unit Well: Federal 16-20-9-16, Section 20, Township 9 South, Range 16 East, SLBM, Duchesne County, Utah, API Well # 43-013-33109

Gentlemen:

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

1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.
2. Conformance with all conditions and requirements of the complete application submitted by Newfield Production Company.
3. A casing/tubing pressure test shall be conducted prior to commencing injection.
4. Pressure shall be monitored between the surface casing and the production casing on a regular basis. Any pressure changes observed shall be reported to the Division immediately.
5. The top of the injection interval shall be limited to a depth no higher than 3,857 feet in the Federal 16-20-9-16 well.

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

Sincerely,

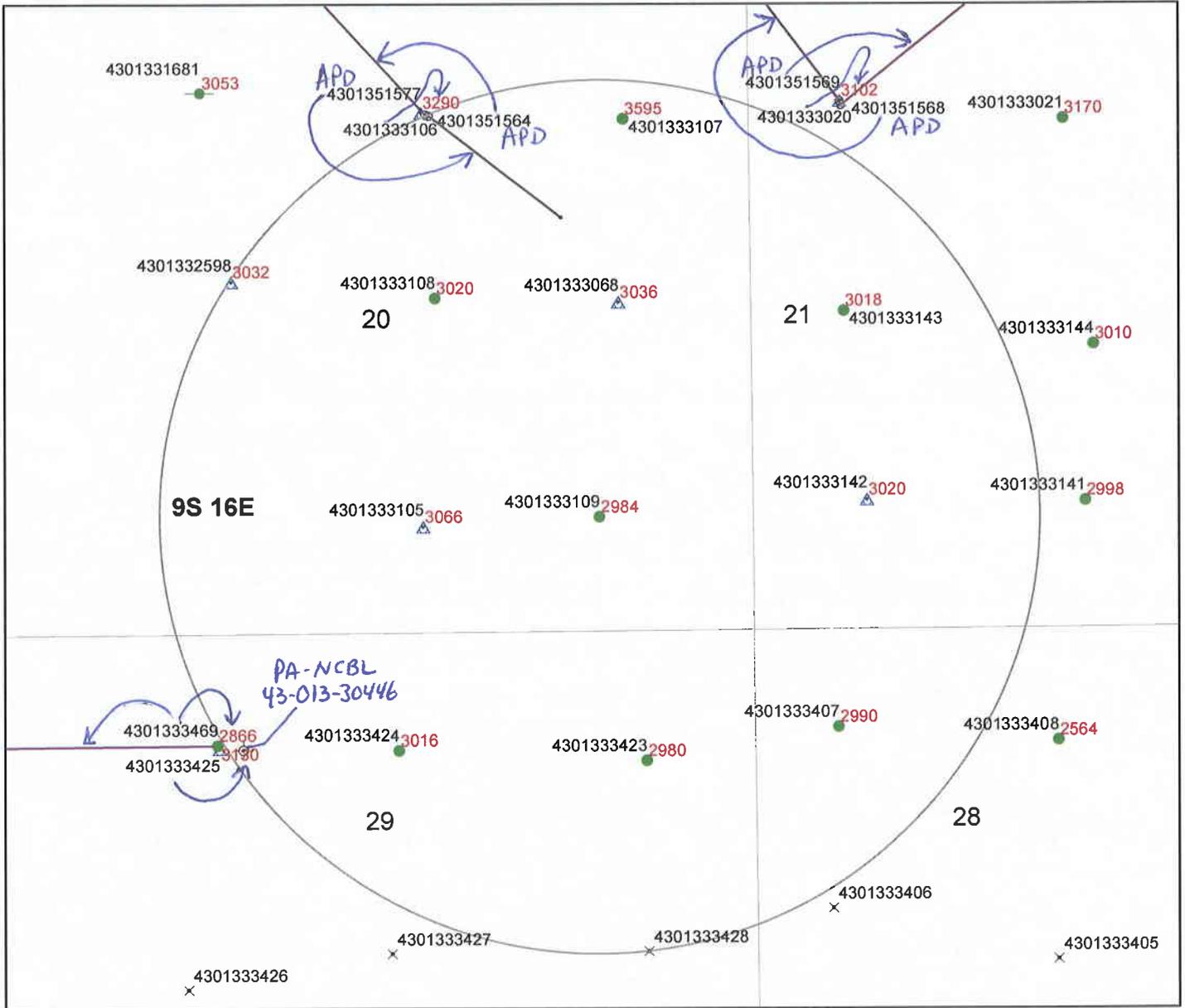
John Rogers  
Associate Director

JR/MLR/js

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

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





**Legend**

**Oil & Gas Well Type**

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

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

**Cement Bond Tops  
Federal 16-20-9-16  
API #43-013-33109  
UIC-408.1**





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

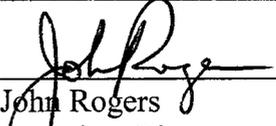
Cause No. UIC-408

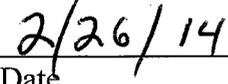
**Operator:** Newfield Production Company  
**Well:** Federal 16-20-9-16  
**Location:** Section 20, Township 9 South, Range 16 East  
**County:** Duchesne  
**API No.:** 43-013-33109  
**Well Type:** Enhanced Recovery (waterflood)

### Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on May 23, 2013.
2. Maximum Allowable Injection Pressure: 1,810 psig
3. Maximum Allowable Injection Rate: (restricted by pressure limitation)
4. Injection Interval: Green River Formation (3,857' – 5,964')
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  
Jill Loyle, Newfield Production Company, Denver  
Newfield Production Company, Myton  
Duchesne County  
Well File

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





GARY R. HERBERT  
Governor  
SPENCER J. COX  
Lieutenant Governor

# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

July 29, 2014

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

RE: Designation of Workover or Recompletion, Form 15.

Dear Rosie Purnell,

Enclosed is a copy of the referenced form received by the Division of Oil, Gas and Mining for the FEDERAL 16-20-9-16 well (43013331090000). Total expenses in the amount of \$ 28044.00 were submitted for the Production Enhancement work that commenced on February 4, 2014 and was completed on February 5, 2014.

The total submitted expenses fall within the statutory definition of workover or recompletion. ***Therefore, your request for designation of the expenses as qualifying workover recompletion expenses is being approved as submitted for the amount of \$ 28044.00.***

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

Sincerely,

Dustin K Doucet  
Petroleum Engineer

Enclosures

cc: Utah Tax Commission w/enclosure  
Operator file



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

5 LEASE DESIGNATION AND SERIAL NUMBER:

USA UTU-74391

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

GMBU

8. WELL NAME and NUMBER:

FEDERAL 16-20-9-16

9. API NUMBER:

4301333109

10. FIELD AND POOL, OR WILDCAT:

GREATER MB UNIT

## 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.

1. TYPE OF WELL:		OIL WELL <input checked="" type="checkbox"/>	GAS WELL <input type="checkbox"/>	OTHER <input type="checkbox"/>
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY				
3. ADDRESS OF OPERATOR: Route 3 Box 3630			CITY Myton	STATE UT
			ZIP 84052	PHONE NUMBER 435.646.3721
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 716 FSL 920 FEL				
OTR/OTR SECTION, TOWNSHIP, RANGE, MERIDIAN: SESE, 20, T9S, R16E				
COUNTY: DUCHESNE				
STATE: UT				

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

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

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

The subject well has been converted from a producing oil well to an injection well on 02/04/2014. On 02/04/2014 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 02/05/2014 the casing was pressured up to 1588 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 700 psig during the test. There was not a State representative available to witness the test.

NAME (PLEASE PRINT) Lucy Chavez-Naupoto TITLE Water Services Technician  
SIGNATURE \_\_\_\_\_ DATE 02/19/2014

## Summary Rig Activity

**Daily Activity Report**

Format For Sundry

**FEDERAL 16-20-9-16****12/1/2013 To 4/28/2014****2/4/2014 Day: 3****Conversion**

Nabors #1108 on 2/4/2014 - FINISH POOH WITH TBG. PU/MU PACKER ASSY, TIH WITH PACKER ASSY AND TBG - SPOT RIG, RU RIG. PUMP 50 BBLS DOWN CSG @ 250 F. - SPOT RIG, RU RIG. PUMP 50 BBLS DOWN CSG @ 250 F. - SPOT RIG, RU RIG. PUMP 50 BBLS DOWN CSG @ 250 F. - UNHANG RODS AND HORSES HEAD, UNSEAT PUMP AND RU HOT OILER TO TBG. - UNHANG RODS AND HORSES HEAD, UNSEAT PUMP AND RU HOT OILER TO TBG. - UNHANG RODS AND HORSES HEAD, UNSEAT PUMP AND RU HOT OILER TO TBG. - FLUSH 40 BBLS DOWN TBG @ 250 F USING HOT OILER - FLUSH 40 BBLS DOWN TBG @ 250 F USING HOT OILER - FLUSH 40 BBLS DOWN TBG @ 250 F USING HOT OILER - SWIFN, CLEAN LOCATION, SDFN. - SWIFN, CLEAN LOCATION, SDFN. - SWIFN, CLEAN LOCATION, SDFN. - TRAVEL TIME - CHECK TBG AND CSG PRESSURES, TBG 20 PSI, CSG 100 PSI, BD WELL. RU HOT OILER TO TBG, PT TBG TO 3000 PSI, GOOD TEST. - CHECK TBG AND CSG PRESSURES, TBG 20 PSI, CSG 100 PSI, BD WELL. RU HOT OILER TO TBG, PT TBG TO 3000 PSI, GOOD TEST. - CHECK TBG AND CSG PRESSURES, TBG 20 PSI, CSG 100 PSI, BD WELL. RU HOT OILER TO TBG, PT TBG TO 3000 PSI, GOOD TEST. - POOH WITH RODS LAYING DOWN ON TRAILER. HAD TO FLUSH 2 TIMES ON WAY OUT. - POOH WITH RODS LAYING DOWN ON TRAILER. HAD TO FLUSH 2 TIMES ON WAY OUT. - POOH WITH RODS LAYING DOWN ON TRAILER. HAD TO FLUSH 2 TIMES ON WAY OUT. - ND WH, RELEASE TAC, NU BOP, RU WORK FLOOR. - ND WH, RELEASE TAC, NU BOP, RU WORK FLOOR. - ND WH, RELEASE TAC, NU BOP, RU WORK FLOOR. - POOH WITH 116 JNTS TBG BREAKING EVERY CONNECTION, CLEANING THREADS AND INSPECTING THEM FOR DAMAGE OR GAULDING.APPLY LIQUID O RING AND RETORQUE TO SPEC. SWIFN, CLEAN LOCATION, SDFN. - POOH WITH 116 JNTS TBG BREAKING EVERY CONNECTION, CLEANING THREADS AND INSPECTING THEM FOR DAMAGE OR GAULDING.APPLY LIQUID O RING AND RETORQUE TO SPEC. SWIFN, CLEAN LOCATION, SDFN. - POOH WITH 116 JNTS TBG BREAKING EVERY CONNECTION, CLEANING THREADS AND INSPECTING THEM FOR DAMAGE OR GAULDING.APPLY LIQUID O RING AND RETORQUE TO SPEC. SWIFN, CLEAN LOCATION, SDFN. - TRAVEL TIME - CHECK PRESSURES, TBG AND CSG 120 PSI, RU HOT OILER LINES TO BLEED DOWN WELL. BD WELL. OPEN BOP. - CHECK PRESSURES, TBG AND CSG 120 PSI, RU HOT OILER LINES TO BLEED DOWN WELL. BD WELL. OPEN BOP. - CHECK PRESSURES, TBG AND CSG 120 PSI, RU HOT OILER LINES TO BLEED DOWN WELL. BD WELL. OPEN BOP. - TBG BROUGHT BACK OIL, PUMP 20 BBLS DOWN TBG AND CSG, 40 TOTAL BBLS PUMPED. - TBG BROUGHT BACK OIL, PUMP 20 BBLS DOWN TBG AND CSG, 40 TOTAL BBLS PUMPED. - TBG BROUGHT BACK OIL, PUMP 20 BBLS DOWN TBG AND CSG, 40 TOTAL BBLS PUMPED. - FINISH POOH WITH TBG BREAKING AND DOPING COLLARS ON WAY OUT, LD 31 JNTS EXCESS TBG FROM BOTTOM OF STRING. - FINISH POOH WITH TBG BREAKING AND DOPING COLLARS ON WAY OUT, LD 31 JNTS EXCESS TBG FROM BOTTOM OF STRING. - FINISH POOH WITH TBG BREAKING AND DOPING COLLARS ON WAY OUT, LD 31 JNTS EXCESS TBG FROM BOTTOM OF STRING. - PU/MU PACKER ASSY, TIH WITH PACKER ASSY AND TBG, TBG DETAIL AS FOLLOWS: 2 3/8 XN NIPPLE, 2 3/8 TBG SUB, 2 3/8 X 2 7/8 XO, PACKER, ON/ OFF TOOL, 2 7/8 PSN, 144 JNTS TBG. - PU/MU PACKER ASSY, TIH WITH PACKER ASSY AND TBG, TBG DETAIL AS FOLLOWS: 2 3/8 XN NIPPLE, 2 3/8 TBG SUB, 2 3/8 X 2 7/8 XO, PACKER, ON/ OFF TOOL, 2 7/8 PSN, 144 JNTS TBG. - PU/MU PACKER ASSY, TIH WITH PACKER ASSY AND TBG, TBG DETAIL AS FOLLOWS: 2 3/8 XN NIPPLE, 2 3/8 TBG SUB, 2 3/8 X 2 7/8 XO, PACKER, ON/ OFF TOOL, 2 7/8 PSN, 144 JNTS TBG. - PUMP 10 BBLS PAD AND DROP S.V. PUMP TO PSN AND PRESSURE UP TBG TO 3000 PSI, HAD TO BUMP UP AND RETEST BUT FINALLY GOT A GOOD TEST. - PUMP 10 BBLS PAD AND DROP S.V. PUMP TO PSN AND PRESSURE UP TBG TO 3000 PSI, HAD TO BUMP UP AND RETEST BUT FINALLY GOT A

## Summary Rig Activity

GOOD TEST. - PUMP 10 BBLS PAD AND DROP S.V. PUMP TO PSN AND PRESSURE UP TBG TO 3000 PSI, HAD TO BUMP UP AND RETEST BUT FINALLY GOT A GOOD TEST. - RU SANDLINE AND FISHING TOOLS, RIH WITH SANDLINE TO CATCH S.V. POOH WITH SANDLINE AND RD TOOLS. - RU SANDLINE AND FISHING TOOLS, RIH WITH SANDLINE TO CATCH S.V. POOH WITH SANDLINE AND RD TOOLS. - RU SANDLINE AND FISHING TOOLS, RIH WITH SANDLINE TO CATCH S.V. POOH WITH SANDLINE AND RD TOOLS. - RD WORK FLOOR, ND BOP, LAND TBG ON WH FLANGE, NU WH. SWIFN, CLEAN LOCATION, SDFN. - RD WORK FLOOR, ND BOP, LAND TBG ON WH FLANGE, NU WH. SWIFN, CLEAN LOCATION, SDFN. - TRAVEL TIME - TRAVEL TIME

**Daily Cost:** \$0

**Cumulative Cost:** \$29,555

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**2/5/2014 Day: 4****Conversion**

Nabors #1108 on 2/5/2014 - ND WH, SET PACKER AND PACK OFF, LAND TBG IN 17K TENSION, NU WH. RD ROAD RIG TO 16-18-9-16 - TRAVEL TIME - PUMP 50 BBLS PACKER FLUID DOWN CSG. - ND WH, SET PACKER AND PACK OFF, LAND TBG IN 17K TENSION, NU WH. - LOAD CSG AND PT CSG TO 1400 PSI, FAILED TEST, HAD TO BUMP UP AND RETEST, FINALLY GOT A GOOD 30 MIN TEST. - RD RIG, RACK OUT WINCH TRUCK AND TOOLS. PREP TO MOVE RIG. - ROAD RIG FROM THE 16-20-9-16 TO THE 16-18-9-16.

**Daily Cost:** \$0

**Cumulative Cost:** \$33,450

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**2/6/2014 Day: 5****Conversion**

Rigless on 2/6/2014 - Conduct initial MIT - On 02/04/2014 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 02/05/2014 the casing was pressured up to 1588 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 700 psig during the test. There was not a State representative available to witness the test. **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$65,662

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**Pertinent Files: Go to File List**



Source (Multiple Items) FEDERAL 16-20-9-16

Sum of Line Amount				
Account	Account Name	Service Date	Party Name	Total
885107	Chemical Treatment-Subsurface	1/31/2014	MULTI-CHEM GROUP LLC	285.94
		1/31/2014 Total		285.94
	Chemical Treatment-Subsurface Total			285.94
885107 Total				285.94
885128	Hot Oiling Services	1/30/2014	HIGH DESERT TRUCKING INC	1114.8
		1/30/2014 Total		1114.8
		1/31/2014	HIGH DESERT TRUCKING INC	1907
		1/31/2014 Total		1907
		2/3/2014	HIGH DESERT TRUCKING INC	1786
		2/3/2014 Total		1786
	2/14/2014	HIGH DESERT TRUCKING INC	942.9	
2/14/2014 Total		942.9		
Hot Oiling Services Total			5750.7	
885128 Total				5750.7
885138	Automation	2/13/2014	WINDRIVER WIRELESS LLC	191.43
		2/13/2014 Total		191.43
		2/17/2014	WINN-MARION BARBER LLC	3698.14
		2/17/2014 Total		3698.14
		2/20/2014	ROCKY MOUNTAIN AUTOMATION LLC	559.5
		2/20/2014 Total		559.5
		2/21/2014	WINN-MARION BARBER LLC	7672.57
		2/21/2014 Total		7672.57
		2/25/2014	RYAN ROSS SERVICES INC	228
		2/25/2014 Total		228
	2/27/2014	CIMATION LLC	331.54	
2/27/2014 Total		331.54		
2/28/2014	PARAGON AUTOMATION INC	3126.53		
2/28/2014 Total		3126.53		
Automation Total			15807.71	
885138 Total				15807.71
885140	Labor - Company Employees	3/31/2014	(blank)	313.88
		3/31/2014 Total		313.88
Labor - Company Employees Total			313.88	
885140 Total				313.88
885141	Labor - Contract Employees	1/22/2014	HAMMER OILFIELD SERVICE COMPANY INC	575
		1/22/2014 Total		575
		1/31/2014	JESSEN ELECTRIC INC	176.18
		1/31/2014 Total		176.18
	2/18/2014	US OILFIELD SERVICES LLC	1900	
2/18/2014 Total		1900		
Labor - Contract Employees Total			2651.18	
885141 Total				2651.18
885144	Location Remediation & Maintenance	2/6/2014	RASMUSSEN ROCK	46.84
		2/6/2014 Total		46.84
Location Remediation & Maintenance Total			46.84	
885144 Total				46.84
885146	Miscellaneous Services	1/23/2014	BENCO OIL SERVICES INC	455
		1/23/2014 Total		455
Miscellaneous Services Total			455	
885146 Total				455
885150	Rig Costs - Dayrate	1/30/2014	NABORS COMPLETION & PRODUCTION SERVICES	15394
		1/30/2014 Total		15394
Rig Costs - Dayrate Total			15394	
885150 Total				15394
885162	Transportation - Land	1/30/2014	IOWA TANKLINES INC	357
			RUSTIN MAIR TRUCKING INC	262.5
			ZUBIATE HOT OIL	625.5
		1/30/2014 Total		1245
		2/4/2014	RUNNERS INC	1259.11
			RUSTIN MAIR TRUCKING INC	225
	2/4/2014 Total		1484.11	
2/5/2014	ZUBIATE HOT OIL	417		
2/5/2014 Total		417		
Transportation - Land Total			3146.11	
885162 Total				3146.11
885604	Packers & Liner Hangers	2/1/2014	WEATHERFORD	7255.64
		2/1/2014 Total		7255.64

Source (Multiple Items) FEDERAL 16-20-9-16

Sum of Line Amount				Total
Account	Account Name	Service Date	Party Name	Total
885604	Packers & Liner Hangers Total			7255.64
885604 Total				7255.64
885613	Pipe - Tubing	2/5/2014	(blank)	-965
		2/5/2014 Total		-965
	Pipe - Tubing Total			-965
885613 Total				-965
885614	Rods	1/31/2014	(blank)	-1326
		1/31/2014 Total		-1326
	Rods Total			-1326
885614 Total				-1326
885617	Wellhead	12/19/2013	VETCO GRAY INC	2998.89
		12/19/2013 Total		2998.89
		2/13/2014	PARAGON OILFIELD PRODUCTS	5611.62
		2/13/2014 Total		5611.62
		2/17/2014	US OILFIELD SERVICES LLC	1925
		2/17/2014 Total		1925
		2/20/2014	PARAGON OILFIELD PRODUCTS	207.64
		2/20/2014 Total		207.64
	Wellhead Total			10743.15
885617 Total				10743.15
(blank)	(blank)	(blank)	(blank)	0
		(blank) Total		0
	(blank) Total			0
(blank) Total				0
Grand Total				59559.15



**Well Costs**

<b>Code</b>	<b>Description</b>	<b>Comments</b>	<b>Daily</b>	<b>Cumulative</b>
885120	Fluid Disposal	Fluid Disposal	\$600.00	\$600.00
885128	Hot Oiling Services	Hot Oiler	\$1,900.00	\$7,651.00
885138	Instrumentation	Instrumentation	\$8,400.00	\$8,400.00
885139	Labor - Company Supervision	NFX Supervision	\$600.00	\$1,800.00
885140	Labor - Company Employees	NFX Labor	\$160.00	\$160.00
885141	Labor - Contract Employees	Contract Labor	\$11,774.00	\$11,774.00
885144	Location Remediation & Maintenance		\$0.00	\$500.00
885146	Miscellaneous Services		\$0.00	\$300.00
885150	Rig costs - Dayrate		\$0.00	\$15,394.00
885162	Transportation - Land	Transportation	\$1,300.00	\$2,300.00
885302	Blow Out Preventors		\$0.00	\$1,050.00
885304	Completion Fluids		\$0.00	\$1,200.00
885603	Miscellaneous Subsurface Equip Rental		\$0.00	\$0.00
885963	Contingency		\$0.00	\$0.00
<b>Total Intangibles:</b>			<b>\$24,734.00</b>	<b>\$51,129.00</b>
885604	Packers & Liner Hangers		\$0.00	\$6,700.00
885613	Pipe - Tubing		\$0.00	\$355.00
885617	Wellhead	Wellhead	\$7,478.00	\$7,478.00
<b>Total Tangibles:</b>			<b>\$7,478.00</b>	<b>\$14,533.00</b>
<b>Total Daily Costs:</b>			<b>\$32,212.00</b>	<b>\$65,662.00</b>



**Well Costs**

Code	Description	Comments	Daily	Cumulative
885120	Fluid Disposal		\$0.00	\$0.00
885128	Hot Oiling Services	High Desert	\$943.00	\$5,751.00
885139	Labor - Company Supervision	NFX Supervision	\$300.00	\$1,200.00
885140	Labor - Company Employees		\$0.00	\$0.00
885141	Labor - Contract Employees		\$0.00	\$0.00
885144	Location Remediation & Maintenance		\$0.00	\$500.00
885146	Miscellaneous Services		\$0.00	\$300.00
885150	Rig costs - Dayrate	#1108	\$2,652.00	\$15,394.00
885162	Transportation - Land		\$0.00	\$1,000.00
885302	Blow Out Preventors		\$0.00	\$1,050.00
885304	Completion Fluids		\$0.00	\$1,200.00
885603	Miscellaneous Subsurface Equip Rental		\$0.00	\$0.00
885963	Contingency		\$0.00	\$0.00
<b>Total Intangibles:</b>			<b>\$3,895.00</b>	<b>\$26,395.00</b>

885604	Packers & Liner Hangers		\$0.00	\$6,700.00
885613	Pipe - Tubing		\$0.00	\$355.00
885617	Wellhead		\$0.00	\$0.00
<b>Total Tangibles:</b>			<b>\$0.00</b>	<b>\$7,055.00</b>
<b>Total Daily Costs:</b>			<b>\$3,895.00</b>	<b>\$33,450.00</b>



**Well Costs**

Code	Description	Comments	Daily	Cumulative
885120	Fluid Disposal		\$0.00	\$0.00
885128	Hot Oiling Services	High Desert	\$1,786.00	\$4,808.00
885139	Labor - Company Supervision	NFX Supervision	\$300.00	\$900.00
885140	Labor - Company Employees		\$0.00	\$0.00
885141	Labor - Contract Employees		\$0.00	\$0.00
885144	Location Remediation & Maintenance		\$0.00	\$500.00
885146	Miscellaneous Services		\$0.00	\$300.00
885150	Rig costs - Dayrate	#1108	\$5,635.00	\$12,742.00
885162	Transportation - Land		\$0.00	\$1,000.00
885302	Blow Out Preventors	BOP	\$350.00	\$1,050.00
885304	Completion Fluids		\$0.00	\$1,200.00
885603	Miscellaneous Subsurface Equip Rental		\$0.00	\$0.00
885963	Contingency		\$0.00	\$0.00
<b>Total Intangibles:</b>			<b>\$8,071.00</b>	<b>\$22,500.00</b>

885604	Packers & Liner Hangers		\$0.00	\$6,700.00
885613	Pipe - Tubing		\$0.00	\$355.00
885617	Wellhead		\$0.00	\$0.00
<b>Total Tangibles:</b>			<b>\$0.00</b>	<b>\$7,055.00</b>
<b>Total Daily Costs:</b>			<b>\$8,071.00</b>	<b>\$29,555.00</b>



**Well Costs**

Code	Description	Comments	Daily	Cumulative
885120	Fluid Disposal		\$0.00	\$0.00
885128	Hot Oiling Services	High Desert	\$1,907.00	\$3,022.00
885139	Labor - Company Supervision	NFX Supervision	\$300.00	\$600.00
885140	Labor - Company Employees		\$0.00	\$0.00
885141	Labor - Contract Employees		\$0.00	\$0.00
885144	Location Remediation & Maintenance		\$0.00	\$500.00
885146	Miscellaneous Services		\$0.00	\$300.00
885150	Rig costs - Dayrate	#1108	\$5,571.00	\$7,107.00
885162	Transportation - Land		\$0.00	\$1,000.00
885302	Blow Out Preventors	BOP	\$350.00	\$700.00
885304	Completion Fluids		\$0.00	\$1,200.00
885603	Miscellaneous Subsurface Equip Rental		\$0.00	\$0.00
885963	Contingency		\$0.00	\$0.00
<b>Total Intangibles:</b>			<b>\$8,128.00</b>	<b>\$14,429.00</b>

885604	Packers & Liner Hangers		\$0.00	\$6,700.00
885613	Pipe - Tubing		\$0.00	\$355.00
885617	Wellhead		\$0.00	\$0.00
<b>Total Tangibles:</b>			<b>\$0.00</b>	<b>\$7,055.00</b>
<b>Total Daily Costs:</b>			<b>\$8,128.00</b>	<b>\$21,484.00</b>



## Well Costs

Code	Description	Comments	Daily	Cumulative
885120	Fluid Disposal		\$0.00	\$0.00
885128	Hot Oiling Services	High Desert	\$1,115.00	\$1,115.00
885139	Labor - Company Supervision	NFX Supervision	\$300.00	\$300.00
885140	Labor - Company Employees		\$0.00	\$0.00
885141	Labor - Contract Employees		\$0.00	\$0.00
885144	Location Remediation & Maintenance	MWS (100) Benco (400)	\$500.00	\$500.00
885146	Miscellaneous Services	Liquid O-Ring	\$300.00	\$300.00
885150	Rig costs - Dayrate	#1108	\$1,536.00	\$1,536.00
885162	Transportation - Land	Runners	\$1,000.00	\$1,000.00
885302	Blow Out Preventors	BOP	\$350.00	\$350.00
885304	Completion Fluids	NDSI (800) MultiChem(400)	\$1,200.00	\$1,200.00
885603	Miscellaneous Subsurface Equip Rental		\$0.00	\$0.00
885963	Contingency		\$0.00	\$0.00
			<b>Total Intangibles: \$6,301.00</b>	<b>\$6,301.00</b>
885604	Packers & Liner Hangers	Weatherford	\$6,700.00	\$6,700.00
885613	Pipe - Tubing	SN (80) SV (275)	\$355.00	\$355.00
885617	Wellhead		\$0.00	\$0.00
			<b>Total Tangibles: \$7,055.00</b>	<b>\$7,055.00</b>
			<b>Total Daily Costs: \$13,356.00</b>	<b>\$13,356.00</b>

<b>NEWFIELD</b>		<b>Perforation Report</b>				<b>Well Name:</b> FEDERAL 16-20-9-16						
		INJCNV				<b>Report Date:</b> 2/6/2014						
<b>Field:</b> GMBU CTB5		<b>Rig Name:</b> Rigless		<b>Operation:</b> Conversion MIT		<b>Day:</b> 5						
<b>Location:</b> S20 T9S R16E		<b>Supervisor:</b> Rusty Bird		<b>Work Performed:</b> 2/5/2014		<b>AFE No.:</b> 42637						
<b>County:</b> DUCHESNE		<b>Phone:</b> 435-823-7388		<b>AFE No.:</b> 42637		<b>Daily Cost:</b> \$32,212						
<b>State:</b> UT		<b>Email:</b> rustybird@newfield.com		<b>Daily Cost:</b> \$32,212								
Stage	Date	Bore Type	Formation	Zone	Top Depth (ft)	Bottom Depth (ft)	SPF	Shots	Phase (deg)	Gun Type	Charges	Comments
0	8/21/2007	Vertical	Green River	D2	4596	4604	4	32				
0	8/21/2007	Vertical	Green River	C	4701	4709	4	32				
0	8/21/2007	Vertical	Green River	B1	4771	4779	4	32				
0	8/21/2007	Vertical	Green River	LODC	5027	5035	4	32				
0	8/21/2007	Vertical	Green River	CP1	5440	5453	4	52				

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-74391
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)
1. TYPE OF WELL Water Injection Well	8. WELL NAME and NUMBER: FEDERAL 16-20-9-16
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY	9. API NUMBER: 43013331090000
3. ADDRESS OF OPERATOR: Rt 3 Box 3630, Myton, UT, 84052	PHONE NUMBER: 435 646-4825 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0716 FSL 0920 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 20 Township: 09.0S Range: 16.0E Meridian: S	9. FIELD and POOL or WILDCAT: MONUMENT BUTTE  COUNTY: DUCHESNE  STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 3/3/2014	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input checked="" type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input checked="" type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

The above reference well was put on injection at 10:00 AM on  
03/03/2014.

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining**  
  
 Date: March 11, 2014  
 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> 3/10/2014

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-74391
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: FEDERAL 16-20-9-16
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY	9. API NUMBER: 43013331090000
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052	PHONE NUMBER: 435 646-4825 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0716 FSL 0920 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 20 Township: 09.0S Range: 16.0E Meridian: S	9. FIELD and POOL or WILDCAT: MONUMENT BUTTE  COUNTY: DUCHESNE  STATE: UTAH

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

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

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

The subject well has been converted from a producing oil well to an injection well on 02/04/2014. On 02/04/2014 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 02/05/2014 the casing was pressured up to 1588 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 700 psig during the test. There was not a State representative available to witness the test.

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

Date: February 20, 2014

By:

NAME (PLEASE PRINT) Lucy Chavez-Naupoto	PHONE NUMBER 435 646-4874	TITLE Water Services Technician
SIGNATURE N/A	DATE 2/19/2014	

# Mechanical Integrity Test Casing or Annulus Pressure Test

Newfield Production Company

Rt. 3 Box 3630

Myton, UT 84052

435-646-3721

Witness: \_\_\_\_\_ Date 2/15/14 Time 11:44 am pm

Test Conducted by: Riley Bugh

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

Well: <u>Federal 16-209-16</u>	Field: <u>Monument Butte</u>
Well Location: <u>Federal 16-209-16</u>	API No: <u>4301333109</u>

<u>Time</u>	<u>Casing Pressure</u>	
0 min	<u>1587</u>	psig
5	<u>1587</u>	psig
10	<u>1587</u>	psig
15	<u>1587</u>	psig
20	<u>1588</u>	psig
25	<u>1588</u>	psig
30 min	<u>1588</u>	psig
35	_____	psig
40	_____	psig
45	_____	psig
50	_____	psig
55	_____	psig
60 min	_____	psig

Tubing pressure: 700 psig

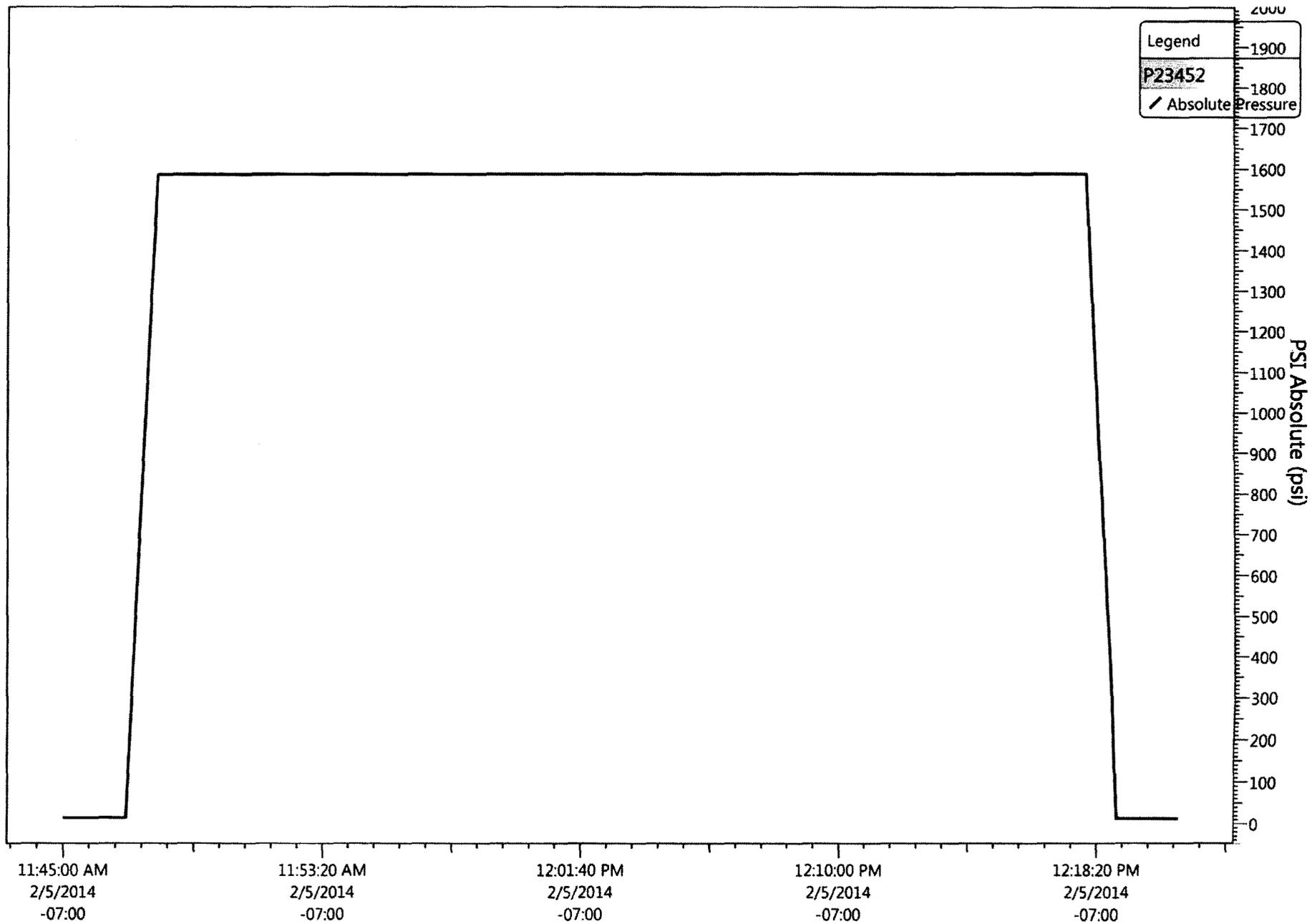
Result: Pass Fail

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

Signature of Person Conducting Test: Riley Bugh

16-20-9-16 (mit 2/5/14)

2/5/2014 11:43:37 AM



Legend  
P23452  
/ Absolute Pressure

## Daily Activity Report

Format For Sundry

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

**12/1/2013 To 4/28/2014**

**2/4/2014 Day: 3**

**Conversion**

Nabors #1108 on 2/4/2014 - FINISH POOH WITH TBG. PU/MU PACKER ASSY, TIH WITH PACKER ASSY AND TBG - SPOT RIG, RU RIG. PUMP 50 BBLs DOWN CSG @ 250 F. - SPOT RIG, RU RIG. PUMP 50 BBLs DOWN CSG @ 250 F. - SPOT RIG, RU RIG. PUMP 50 BBLs DOWN CSG @ 250 F. - UNHANG RODS AND HORSES HEAD, UNSEAT PUMP AND RU HOT OILER TO TBG. - UNHANG RODS AND HORSES HEAD, UNSEAT PUMP AND RU HOT OILER TO TBG. - UNHANG RODS AND HORSES HEAD, UNSEAT PUMP AND RU HOT OILER TO TBG. - FLUSH 40 BBLs DOWN TBG @ 250 F USING HOT OILER - FLUSH 40 BBLs DOWN TBG @ 250 F USING HOT OILER - FLUSH 40 BBLs DOWN TBG @ 250 F USING HOT OILER - SWIFN, CLEAN LOCATION, SDFN. - SWIFN, CLEAN LOCATION, SDFN. - SWIFN, CLEAN LOCATION, SDFN. - TRAVEL TIME - CHECK TBG AND CSG PRESSURES, TBG 20 PSI, CSG 100 PSI, BD WELL. RU HOT OILER TO TBG, PT TBG TO 3000 PSI, GOOD TEST. - CHECK TBG AND CSG PRESSURES, TBG 20 PSI, CSG 100 PSI, BD WELL. RU HOT OILER TO TBG, PT TBG TO 3000 PSI, GOOD TEST. - CHECK TBG AND CSG PRESSURES, TBG 20 PSI, CSG 100 PSI, BD WELL. RU HOT OILER TO TBG, PT TBG TO 3000 PSI, GOOD TEST. - POOH WITH RODS LAYING DOWN ON TRAILER. HAD TO FLUSH 2 TIMES ON WAY OUT. - POOH WITH RODS LAYING DOWN ON TRAILER. HAD TO FLUSH 2 TIMES ON WAY OUT. - POOH WITH RODS LAYING DOWN ON TRAILER. HAD TO FLUSH 2 TIMES ON WAY OUT. - ND WH, RELEASE TAC, NU BOP, RU WORK FLOOR. - ND WH, RELEASE TAC, NU BOP, RU WORK FLOOR. - ND WH, RELEASE TAC, NU BOP, RU WORK FLOOR. - POOH WITH 116 JNTS TBG BREAKING EVERY CONNECTION, CLEANING THREADS AND INSPECTING THEM FOR DAMAGE OR GAULDING. APPLY LIQUID O RING AND RETORQUE TO SPEC. SWIFN, CLEAN LOCATION, SDFN. - POOH WITH 116 JNTS TBG BREAKING EVERY CONNECTION, CLEANING THREADS AND INSPECTING THEM FOR DAMAGE OR GAULDING. APPLY LIQUID O RING AND RETORQUE TO SPEC. SWIFN, CLEAN LOCATION, SDFN. - POOH WITH 116 JNTS TBG BREAKING EVERY CONNECTION, CLEANING THREADS AND INSPECTING THEM FOR DAMAGE OR GAULDING. APPLY LIQUID O RING AND RETORQUE TO SPEC. SWIFN, CLEAN LOCATION, SDFN. - TRAVEL TIME - CHECK PRESSURES, TBG AND CSG 120 PSI, RU HOT OILER LINES TO BLEED DOWN WELL. BD WELL. OPEN BOP. - CHECK PRESSURES, TBG AND CSG 120 PSI, RU HOT OILER LINES TO BLEED DOWN WELL. BD WELL. OPEN BOP. - CHECK PRESSURES, TBG AND CSG 120 PSI, RU HOT OILER LINES TO BLEED DOWN WELL. BD WELL. OPEN BOP. - TBG BROUGHT BACK OIL, PUMP 20 BBLs DOWN TBG AND CSG, 40 TOTAL BBLs PUMPED. - TBG BROUGHT BACK OIL, PUMP 20 BBLs DOWN TBG AND CSG, 40 TOTAL BBLs PUMPED. - TBG BROUGHT BACK OIL, PUMP 20 BBLs DOWN TBG AND CSG, 40 TOTAL BBLs PUMPED. - FINISH POOH WITH TBG BREAKING AND DOPING COLLARS ON WAY OUT, LD 31 JNTS EXCESS TBG FROM BOTTOM OF STRING. - FINISH POOH WITH TBG BREAKING AND DOPING COLLARS ON WAY OUT, LD 31 JNTS EXCESS TBG FROM BOTTOM OF STRING. - FINISH POOH WITH TBG BREAKING AND DOPING COLLARS ON WAY OUT, LD 31 JNTS EXCESS TBG FROM BOTTOM OF STRING. - PU/MU PACKER ASSY, TIH WITH PACKER ASSY AND TBG, TBG DETAIL AS FOLLOWS: 2 3/8 XN NIPPLE, 2 3/8 TBG SUB, 2 3/8 X 2 7/8 XO, PACKER, ON/ OFF TOOL, 2 7/8 PSN, 144 JNTS TBG. - PU/MU PACKER ASSY, TIH WITH PACKER ASSY AND TBG, TBG DETAIL AS FOLLOWS: 2 3/8 XN NIPPLE, 2 3/8 TBG SUB, 2 3/8 X 2 7/8 XO, PACKER, ON/ OFF TOOL, 2 7/8 PSN, 144 JNTS TBG. - PU/MU PACKER ASSY, TIH WITH PACKER ASSY AND TBG, TBG DETAIL AS FOLLOWS: 2 3/8 XN NIPPLE, 2 3/8 TBG SUB, 2 3/8 X 2 7/8 XO, PACKER, ON/ OFF TOOL, 2 7/8 PSN, 144 JNTS TBG. - PUMP 10 BBLs PAD AND DROP S.V. PUMP TO PSN AND PRESSURE UP TBG TO 3000 PSI, HAD TO BUMP UP AND RETEST BUT FINALLY GOT A GOOD TEST. - PUMP 10 BBLs PAD AND DROP S.V. PUMP TO PSN AND PRESSURE UP TBG TO 3000 PSI, HAD TO BUMP UP AND RETEST BUT FINALLY GOT A

GOOD TEST. - PUMP 10 BBLS PAD AND DROP S.V. PUMP TO PSN AND PRESSURE UP TBG TO 3000 PSI, HAD TO BUMP UP AND RETEST BUT FINALLY GOT A GOOD TEST. - RU SANDLINE AND FISHING TOOLS, RIH WITH SANDLINE TO CATCH S.V. POOH WITH SANDLINE AND RD TOOLS. - RU SANDLINE AND FISHING TOOLS, RIH WITH SANDLINE TO CATCH S.V. POOH WITH SANDLINE AND RD TOOLS. - RU SANDLINE AND FISHING TOOLS, RIH WITH SANDLINE TO CATCH S.V. POOH WITH SANDLINE AND RD TOOLS. - RD WORK FLOOR, ND BOP, LAND TBG ON WH FLANGE, NU WH. SWIFN, CLEAN LOCATION, SDFN. - RD WORK FLOOR, ND BOP, LAND TBG ON WH FLANGE, NU WH. SWIFN, CLEAN LOCATION, SDFN. - RD WORK FLOOR, ND BOP, LAND TBG ON WH FLANGE, NU WH. SWIFN, CLEAN LOCATION, SDFN. - TRAVEL TIME - TRAVEL TIME

**Daily Cost:** \$0

**Cumulative Cost:** \$29,555

**2/5/2014 Day: 4**

**Conversion**

Nabors #1108 on 2/5/2014 - ND WH, SET PACKER AND PACK OFF, LAND TBG IN 17K TENSION, NU WH. RD ROAD RIG TO 16-18-9-16 - TRAVEL TIME - PUMP 50 BBLS PACKER FLUID DOWN CSG. - ND WH, SET PACKER AND PACK OFF, LAND TBG IN 17K TENSION, NU WH. - LOAD CSG AND PT CSG TO 1400 PSI, FAILED TEST, HAD TO BUMP UP AND RETEST, FINALLY GOT A GOOD 30 MIN TEST. - RD RIG, RACK OUT WINCH TRUCK AND TOOLS. PREP TO MOVE RIG. - ROAD RIG FROM THE 16-20-9-16 TO THE 16-18-9-16.

**Daily Cost:** \$0

**Cumulative Cost:** \$33,450

**2/6/2014 Day: 5**

**Conversion**

Rigless on 2/6/2014 - Conduct initial MIT - On 02/04/2014 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 02/05/2014 the casing was pressured up to 1588 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 700 psig during the test. There was not a State representative available to witness the test. **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$65,662

**Pertinent Files: Go to File List**

# FEDERAL 16-20-9-16

Spud Date: 05/29/07  
 Put on Production: 08/21/07  
 GL: 6129' KB: 6141'

## Injection Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (295 42')  
 DEPTH LANDED: 306.32' 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: 155 jts. (5977 37')  
 DEPTH LANDED: 5978.62' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.

### TUBING

SIZE/GRADE/WT: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 144 jts (4536 4')  
 SEATING NIPPLE: 2-7/8" (1 10')  
 SN LANDED AT: 4548 4' KB  
 ON/OFF TOOL AT: 4549 5'  
 ARROW #1 PACKER CE AT: 4554 45'  
 XO 2-3/8 x 2-7/8 J-55 AT: 4558 2'  
 TBG PUP 2-3/8 J-55 AT: 4558 7'  
 X/N NIPPLE AT: 4562 8'  
 TOTAL STRING LENGTH: EOT @ 4564.4'

### FRAC JOB

08/13/07 5440-5453' **Frac C1 sands as follows:**  
 29557# 20/40 sand in 412 bbls Lightning 17 frac fluid. Treated @ avg press of 2090 psi w/avg rate of 24.8 BPM. ISIP 2215 psi. Calc flush: 5438 gal. Actual flush: 4956 gal.

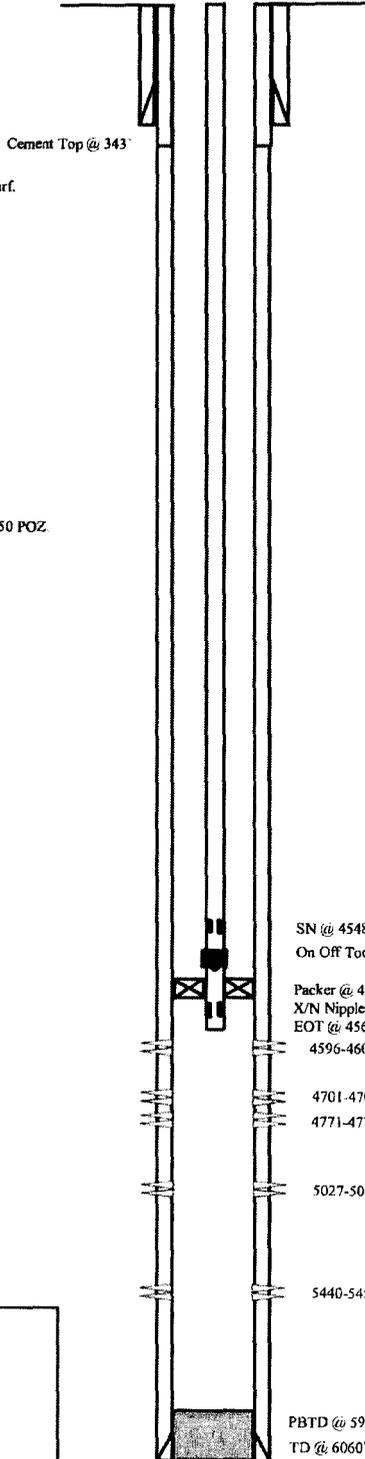
08/16/07 5027-5035' **Frac LODC sands as follows:**  
 19063# 20/40 sand in 311 bbls Lightning 17 frac fluid. Treated @ avg press of 2091 psi w/avg rate of 24.8 BPM. ISIP 2350 psi. Calc flush: 5025 gal. Actual flush: 4536 gal.

08/16/07 4771-4779' **Frac B1 sands as follows:**  
 46260# 20/40 sand in 432 bbls Lightning 17 frac fluid. Treated @ avg press of 2079 psi w/avg rate of 24.8 BPM. ISIP 1940 psi. Calc flush: 4769 gal. Actual flush: 4326 gal.

08/16/07 4701-4709' **Frac C sands as follows:**  
 108507# 20/40 sand in 795 bbls Lightning 17 frac fluid. Treated @ avg press of 2113 psi w/avg rate of 24.8 BPM. ISIP 1995 psi. Calc flush: 4698 gal. Actual flush: 4200 gal.

08/16/07 4596-4604' **Frac D2 sands as follows:**  
 44879# 20/40 sand in 429 bbls Lightning 17 frac fluid. Treated @ avg press of 2001 psi w/avg rate of 24.8 BPM. ISIP 1840 psi. Calc flush: 4594 gal. Actual flush: 4536 gal.

02/04/14 **Convert to Injection Well**  
 02/05/14 **Conversion MIT Finalized - update tbg detail**



### PERFORATION RECORD

Date	Interval	Number of Holes	Completion Type
08/07/07	5440-5453'	4	JSPF 32 holes
08/16/07	5027-5035'	4	JSPF 32 holes
08/16/07	4771-4779'	4	JSPF 32 holes
08/16/07	4701-4709'	4	JSPF 32 holes
08/16/07	4596-4604'	4	JSPF 32 holes



**FEDERAL 16-20-9-16**  
 716' FSL & 920' FEL  
 SE/SE Section 20-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33109; Lease # UTU-74391