



December 6, 2005

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: 5-18-9-16, 6-18-9-16, 12-18-9-16, 13-18-9-16, 14-18-9-16, 15-18-9-16, 1-23-9-16, 2-23-9-16, and 4-24-9-16.

Dear Diana:

Enclosed find APD's on the above referenced wells. The proposed 13-18-9-16, 14-18-9-16 and 15-18-9-16 are Exception Locations. 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,

Mandie Crozier  
Regulatory Specialist

mc  
enclosures

RECEIVED  
DEC 08 2005  
DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**APPLICATION FOR PERMIT TO DRILL OR REENTER**

5. Lease Serial No.  
UTU-64379

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

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

8. Lease Name and Well No.  
Federal 15-18-9-16

9. API Well No.  
43-013-33001

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		
2. Name of Operator Newfield Production Company		
3a. Address Route #3 Box 3630, Myton UT 84052	3b. Phone No. (include area code) (435) 646-3721	10. Field and Pool, or Exploratory Monument Butte
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface SW/SE 657' FSL 2350' FEL 571654X 40.025540 At proposed prod. zone 4430720Y 110.160282		11. Sec., T., R., M., or Blk. and Survey or Area SW/SE Sec. 18, T9S R16E
14. Distance in miles and direction from nearest town or post office* Approximatley 15.0 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. 1983' f/lse, NA' f/unit		13. State UT
16. No. of Acres in lease 1626.36		17. Spacing Unit dedicated to this well 40 Acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1266'		20. BLM/BIA Bond No. on file UT0056
19. Proposed Depth 5865'		21. Estimated duration Approximately seven (7) days from spud to rig release.
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6049' GL	22. Approximate date work will start* 1st Quarter 2006	

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 12/6/05
Title Regulatory Specialist		
Approved by (Signature) 	Name (Printed/Typed) BRADLEY G. HILL ENVIRONMENTAL SCIENTIST III	Date 02-07-06
Title [Blank]		

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

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

\*(Instructions on reverse)

**Federal Approval of this  
Action is Necessary**

RECEIVED

DEC 08 2005

DEPT. OF OIL, GAS & MINING



NEWFIELD PRODUCTION COMPANY  
FEDERAL #15-18-9-16  
SW/SE SECTION 18, 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' - 2500'
Green River	2500'
Wasatch	5865'

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

Green River Formation 2500' - 5865' - 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 #15-18-9-16  
SW/SE SECTION 18, 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 #15-18-9-16 located in the SW 1/4 SE 1/4 Section 18, 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 along Hwy 53 - 1.8 miles  $\pm$  to it's junction with an existing dirt road to the southwest; proceed southwesterly - 10.8 miles  $\pm$  to it's junction with the beginning of the proposed access road to the northeast; proceed northeasterly along the proposed access road - 4,105'  $\pm$  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 #04-328, 1/19/05. Paleontological Resource Survey prepared by, Wade E. Miller, 5/11/05. See attached report cover pages, Exhibit "D".

For the Federal #15-18-9-16 Newfield Production Company requests 195' of disturbed area in Least UTU-02458 and 3910' of disturbed area be granted in Lease UTU-64379 to allow for construction of the proposed access road. **Refer to Topographic Map "B"**. The proposed access road will be an 18' crown road (9' either side of the centerline) with drainage ditches along either side of the proposed road whether it is deemed necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area. The maximum grade will be less than 8%. There will be no culverts required along this access road. There will be barrow ditches and turnouts as needed along this road. There are no fences encountered along this proposed road. There will be no new gates or cattle guards required. All construction material for this access road will be borrowed material accumulated during construction of the access road.

Newfield Production Company requests 195' of disturbed area be granted in Least UTU-02458 and 3910' of disturbed area be granted in Lease UTU-64379 to allow for construction of the proposed gas lines. It is proposed that the disturbed area will be 50' wide to allow for construction of a 6" gas gathering line, and a 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.

Newfield Production Company requests 195' of disturbed area be granted in Least UTU-02458 and 3910' of disturbed area be granted in Lease UTU-64379 to allow for construction of the proposed water lines. It is proposed that the ROW and disturbed area will be 50' wide to allow for construction of a buried 3" steel water injection line and a buried 3" poly water return line. **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.

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

**Reserve Pit Liner**

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

**Location and Reserve Pit Reclamation**

Please refer to the Monument Butte Field SOP.

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

Crested Wheatgrass	<i>Agropyron Cristatum</i>	12 lbs/acre
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**Details of the On-Site Inspection**

The proposed Federal #15-18-9-16 was on-sited on 8/30/05. The following were present; Shon Mckinnon (Newfeild Production), Byron Tolman (Bureau of Land Management), and Todd MaGrath (Bureau of Landmanagement). Weather conditions were clear and ground cover was 100% open.

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

Representative

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

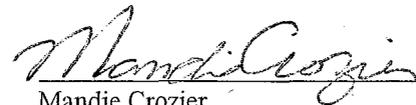
Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #15-18-9-16 SW/SE Section 18, Township 9S, Range 16E: Lease UTU-64379 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4488944.

I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and

subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

12/16/05  
Date

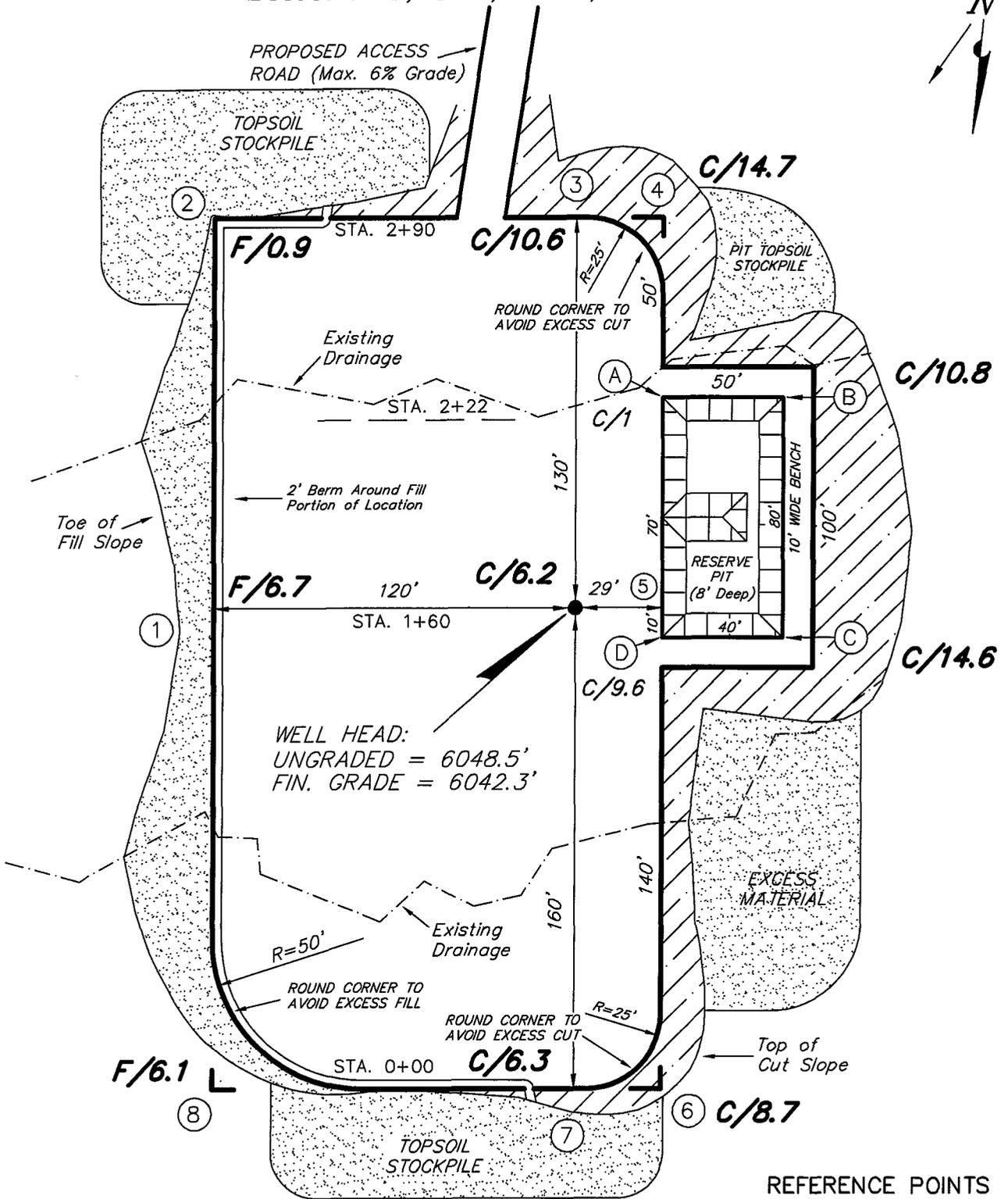


Mandie Crozier  
Regulatory Specialist  
Newfield Production Company

# NEWFIELD PRODUCTION COMPANY

9 MILE 15-18-9-16

Section 18, T9S, R16E, S.L.B.&M.



WELL HEAD:  
UNGRADED = 6048.5'  
FIN. GRADE = 6042.3'

REFERENCE POINTS  
170' EAST = 6030.7'  
220' EAST = 6023.7'  
210' NORTH = 6041.3'  
260' NORTH = 6028.2'

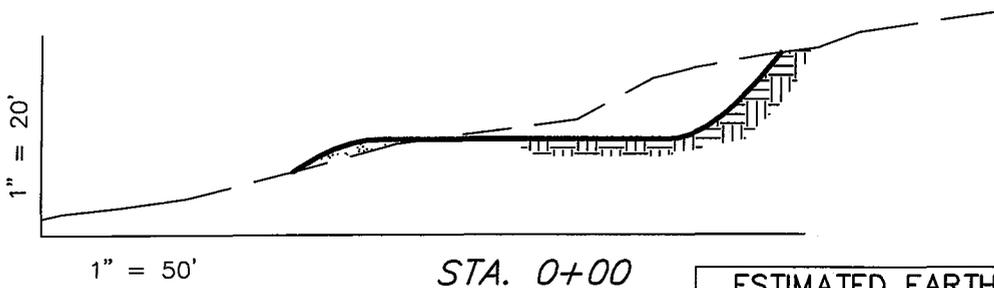
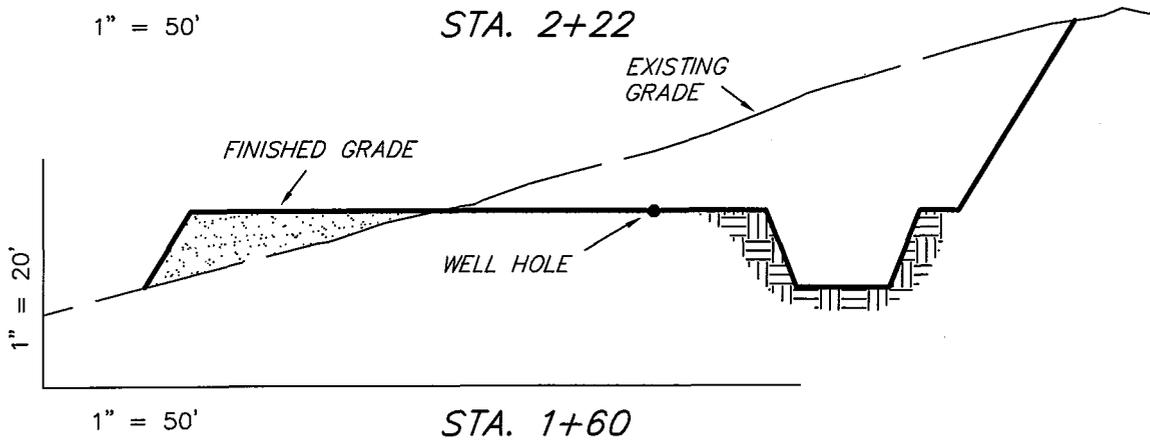
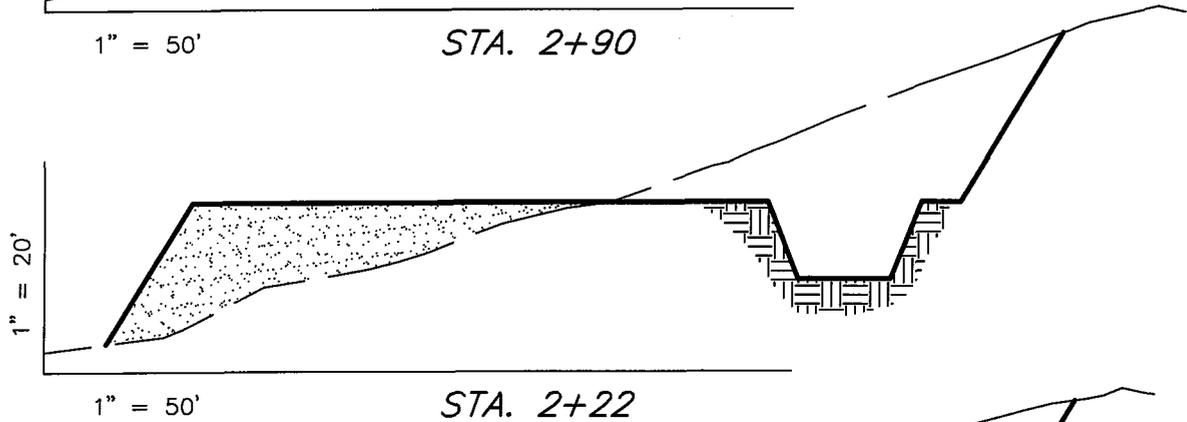
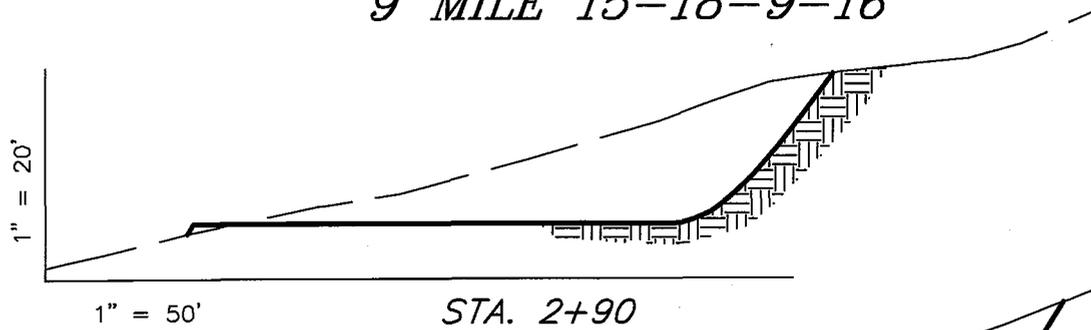
SURVEYED BY: K.G.S.	SCALE: 1" = 50'
DRAWN BY: F.T.M.	DATE: 11-22-05

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

# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS

### 9 MILE 15-18-9-16



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	6,390	6,390	Topsoil is not included in Pad Cut	0
PIT	640	0		640
TOTALS	7,030	6,390	1,150	640

SURVEYED BY: K.G.S.

SCALE: 1" = 50'

DRAWN BY: F.T.M.

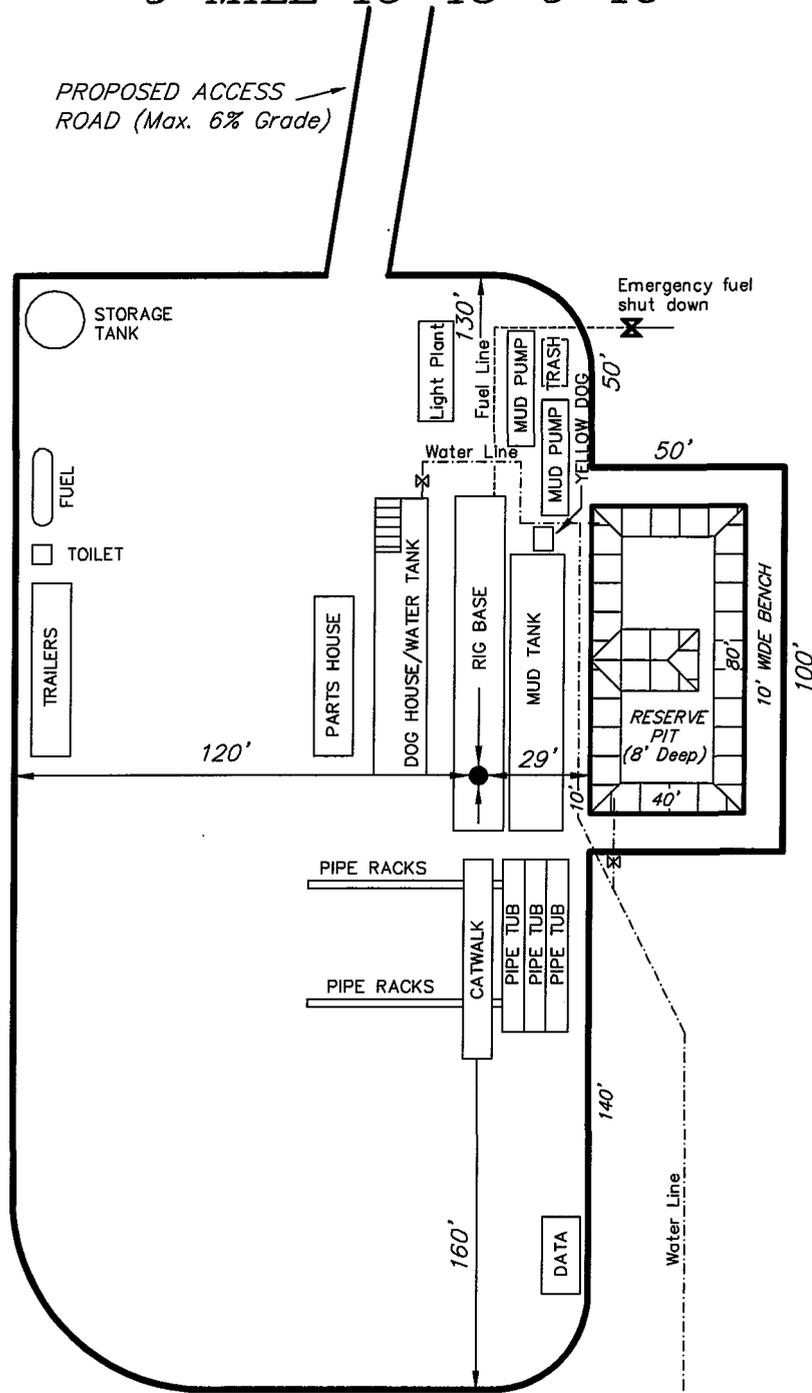
DATE: 11-22-05

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

# NEWFIELD PRODUCTION COMPANY

## TYPICAL RIG LAYOUT

### 9 MILE 15-18-9-16



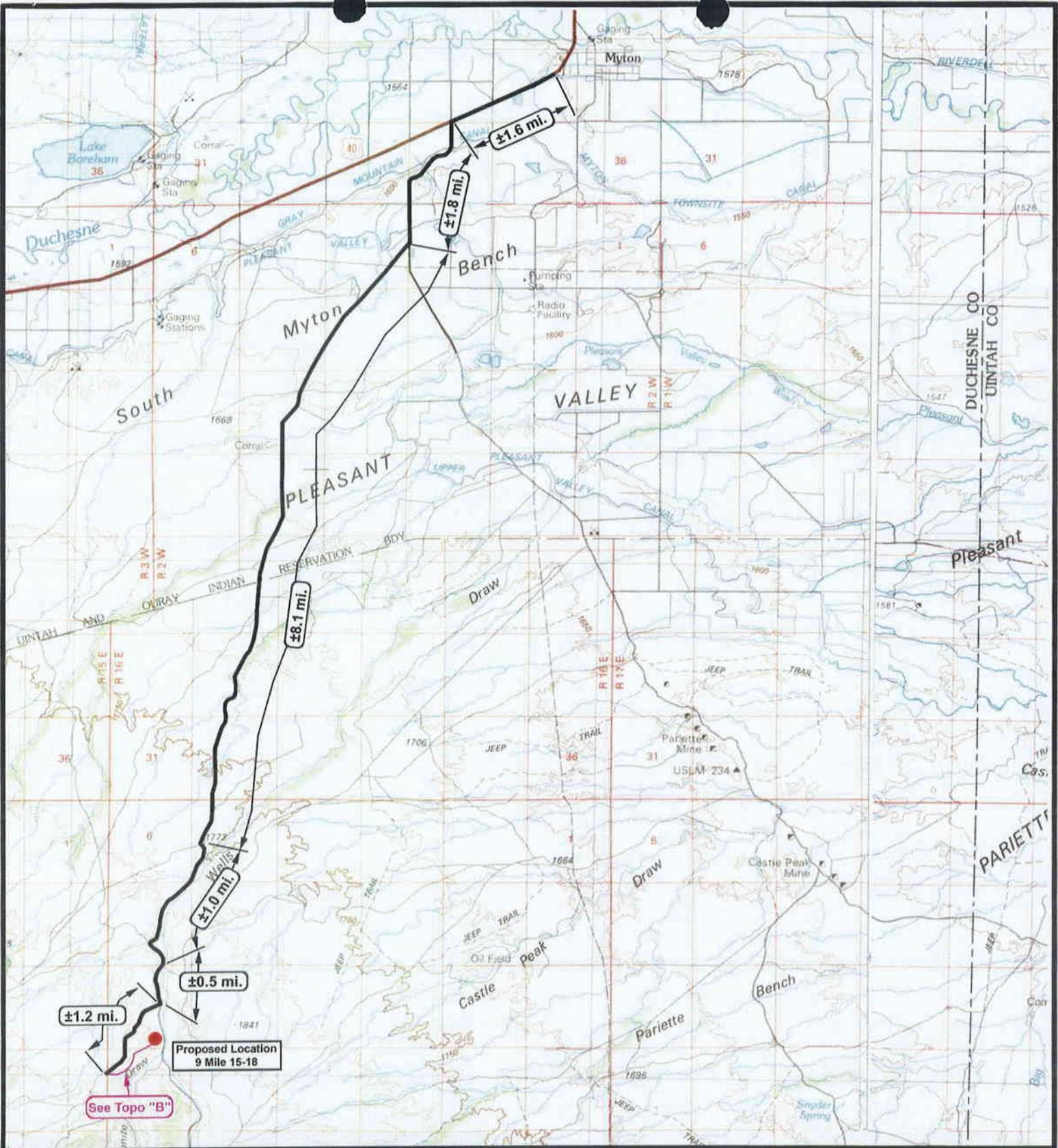
SURVEYED BY: K.G.S.

SCALE: 1" = 50'

DRAWN BY: F.T.M.

DATE: 11-22-05

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



**NEWFIELD**  
Exploration Company

**9 Mile 15-18-9-16**  
**SEC. 18, T9S, R16E, S.L.B.&M.**

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

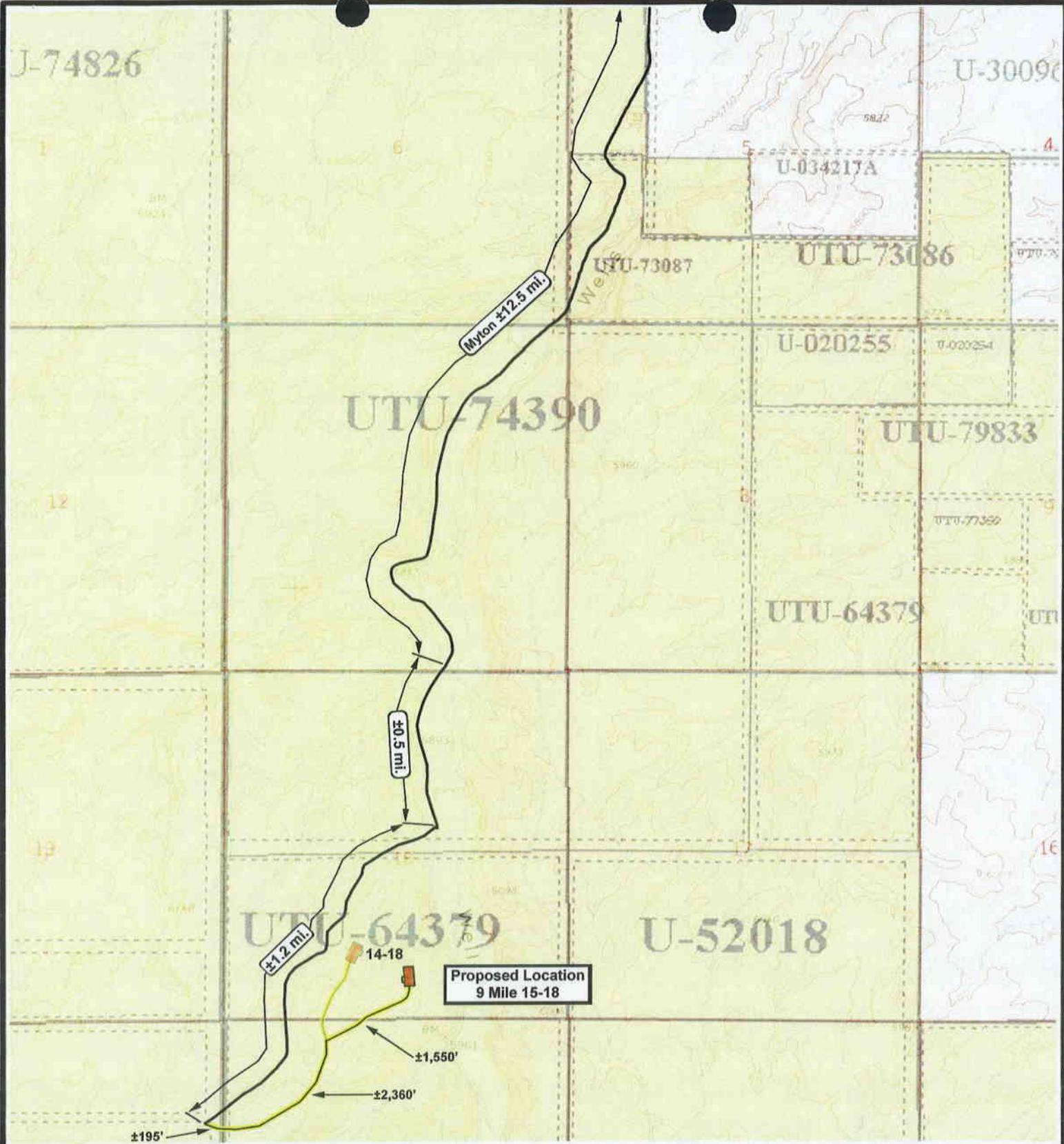
SCALE: 1 = 100,000  
DRAWN BY: bgm  
DATE: 11-23-2005

**Legend**

- Existing Road
- Proposed Access

**TOPOGRAPHIC MAP**

**"A"**



**NEWFIELD**  
Exploration Company

---

**9 Mile 15-18-9-16**  
**SEC. 18, 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: bgm  
DATE: 11-23-2005

**Legend**

- Existing Road
- Proposed Access

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**TOPOGRAPHIC MAP**

**"B"**

J-74826

U-30096

U-034217A

UTU-73087

UTU-73086

U-020255

UTU-74390

UTU-79833

UTU-64379

UTU-64379

U-52018

Proposed Location  
9 Mile 15-18

Tie-in to  
Existing  
Pipelines



**NEWFIELD**  
Exploration Company

**9 Mile 15-18-9-16**  
**SEC. 18, 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: bgm

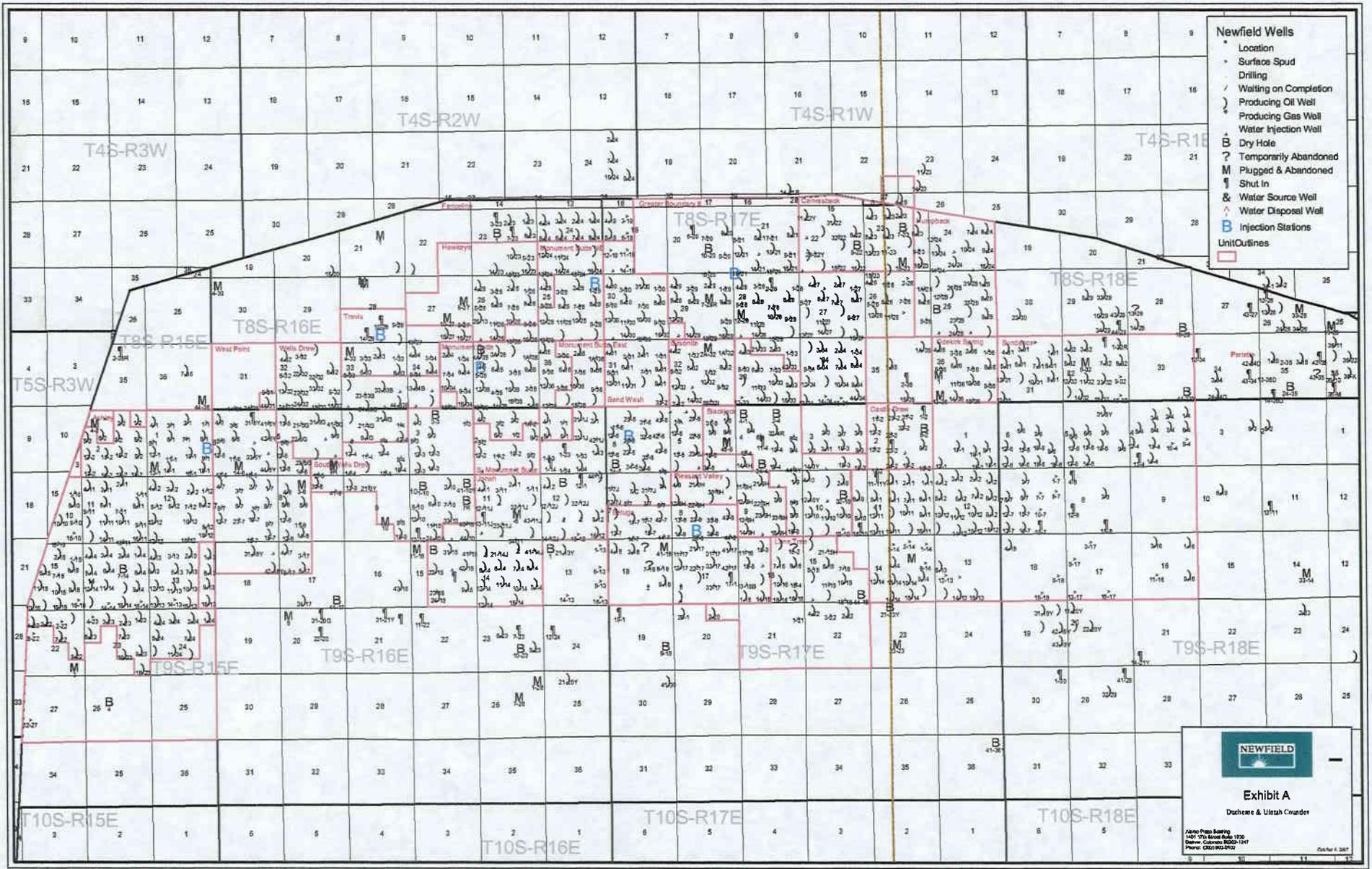
DATE: 11-23-2005

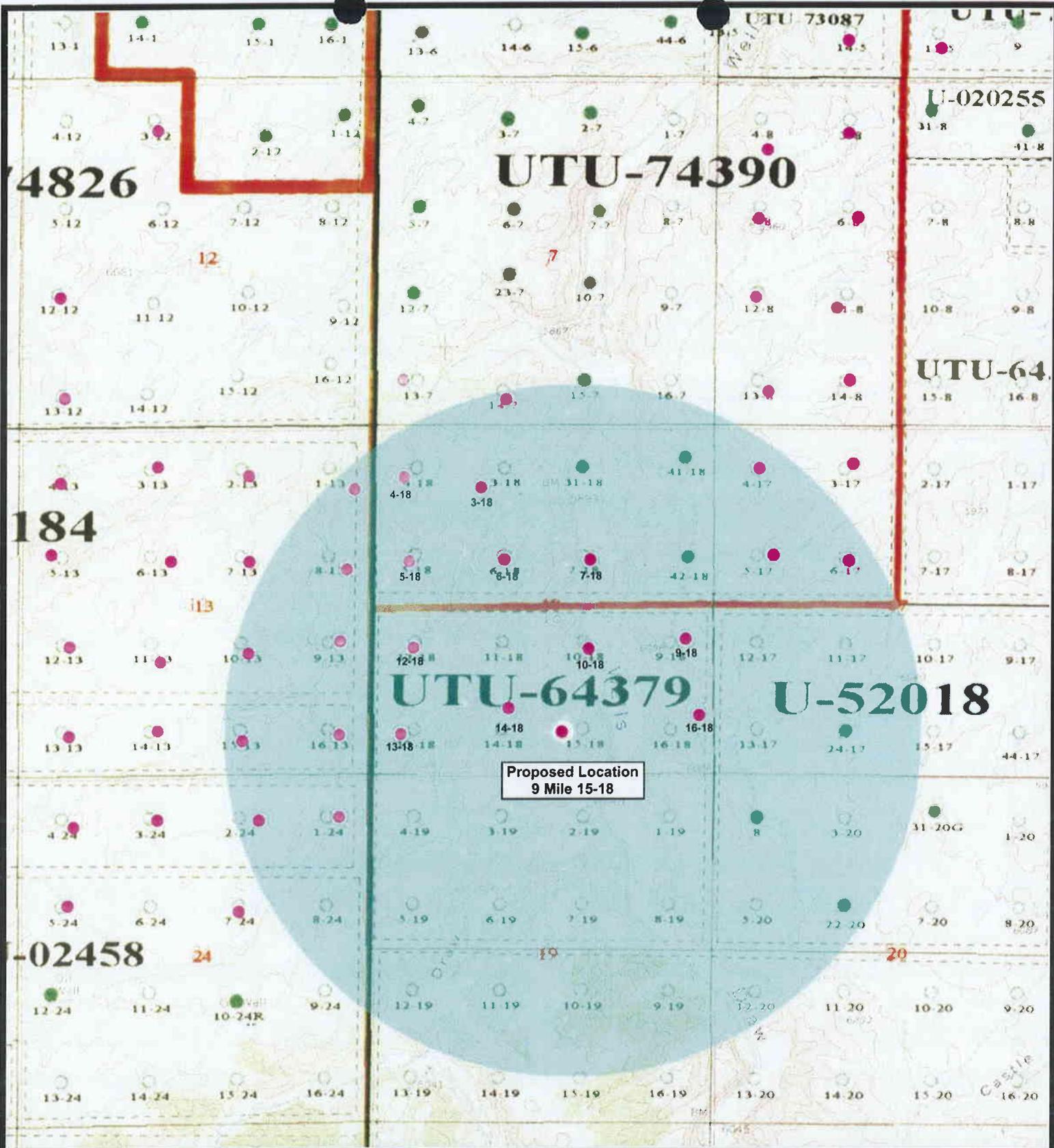
Legend

- Existing Road
- Proposed Access
- Proposed Gas Line
- Proposed Water Line

TOPOGRAPHIC MAP

"C"





Proposed Location  
9 Mile 15-18

**NEWFIELD**  
Exploration Company

---

**9 Mile 15-18-9-16**  
**SEC. 18, 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: bgm  
DATE: 11-23-2005

**Legend**

- Well Locations
- One-Mile Radius

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**Exhibit "B"**

# 2-M SYSTEM

Blowout Prevention Equipment Systems

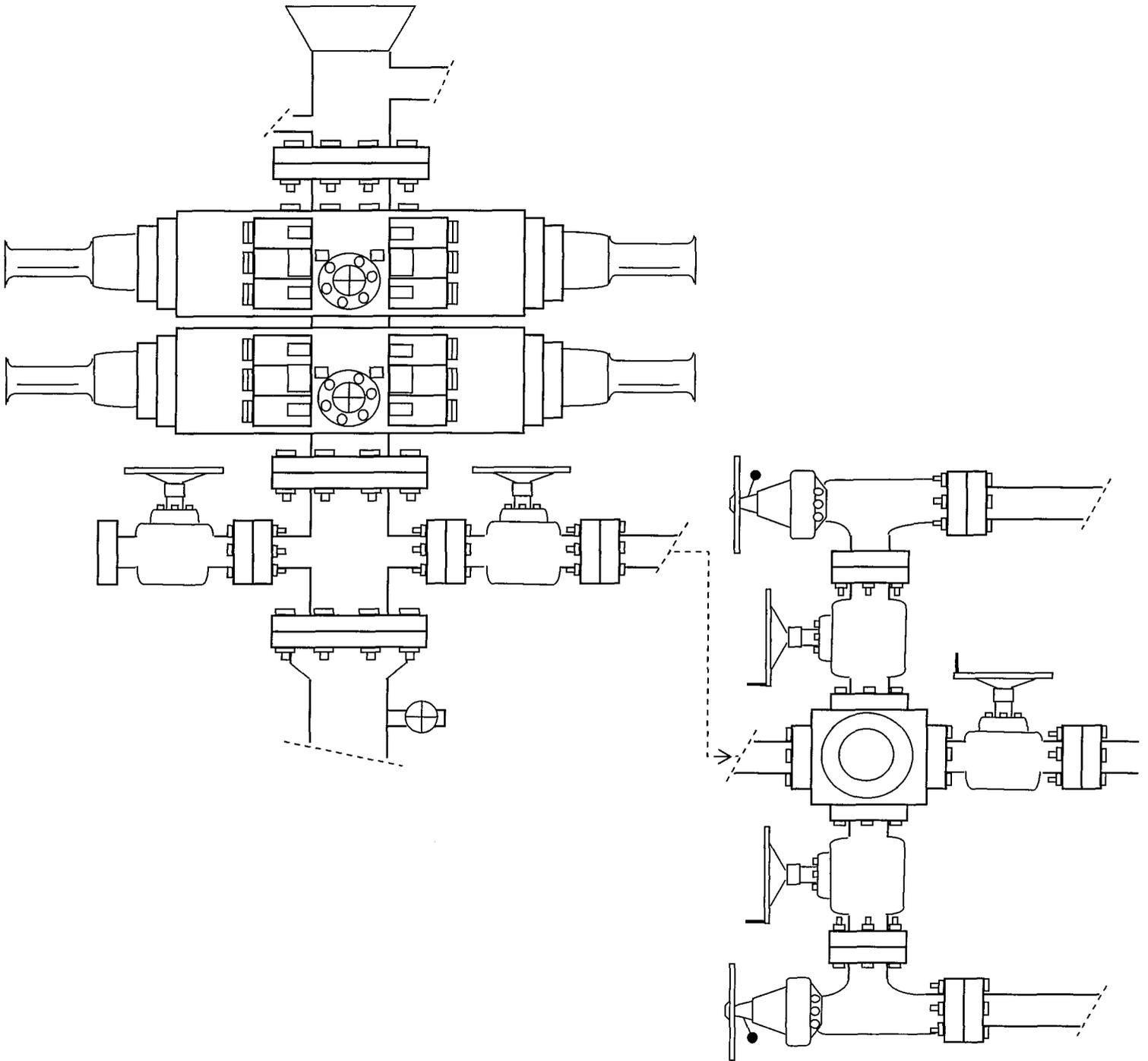


EXHIBIT C

Exhibit "D"

Page 1 of 2

CULTURAL RESOURCE INVENTORY OF  
NEWFIELD EXPLORATION'S BLOCK PARCEL  
IN TOWNSHIP 9S, RANGE 16E, SECTION 18,  
DUCHESNE COUNTY, UTAH

By:

Kylie Lower-Eskelson  
and  
Keith R. Montgomery

Prepared For:

Bureau fo 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. 04-328

January 19, 2005

United States Department of Interior (FLPMA)  
Permit No. 04-UT-60122

State of Utah Antiquities Project (Survey)  
Permit No. U-04-MQ-1477b

**NEWFIELD PRODUCTION COMPANY**

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

Section 3, T 9 S, R 17 E [NE 1/4 & NW 1/4, NE 1/4 and NE 1/4, NW 1/4  
& SW 1/4, NW 1/4, and NE 1/4 & NW 1/4, SE 1/4]; Section 18, T 9 S, R 16 E  
[excluding NE 1/4, NW 1/4, & SE 1/4, NE 1/4]; Section 15, T 9 S, R 17 E [SE 1/4/ NE 1/4];  
Section 18, T 9 S, R 17 E [western half of section plus SE 1/4 & SW 1/4, SE 1/4];  
Section 33, T 8 S, R 16 E [NW 1/4, NW 1/4 and SW 1/4, NE 1/4]

**REPORT OF SURVEY**

Prepared for:

**Newfield Production Company**

Prepared by:

Wade E. Miller  
Consulting Paleontologist  
May 11, 2005

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 12/08/2005

API NO. ASSIGNED: 43-013-33001

WELL NAME: FEDERAL 15-18-9-16  
 OPERATOR: NEWFIELD PRODUCTION ( N2695 )  
 CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

SWSE 18 090S 160E  
 SURFACE: 0657 FSL 2350 FEL  
 BOTTOM: 0657 FSL 2350 FEL  
 DUCHESNE  
 MONUMENT BUTTE ( 105 )

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

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: UTU-64379  
 SURFACE OWNER: 1 - Federal  
 PROPOSED FORMATION: GRRV  
 COALBED METHANE WELL? NO

LATITUDE: 40.02554  
 LONGITUDE: -110.1603

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. UT0056 )
- 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:

*Sep, Separate file*

STIPULATIONS:

*1- Federal Approval  
2- Spacing Sep*



OPERATOR: NEWFIELD PROD CO (N2695)

SEC: 18 T. 9S R. 16E

FIELD: MONUMENT BUTTE (105)

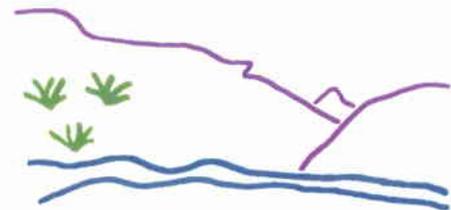
COUNTY: DUCHESNE

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: 12-DECEMBER-2005



February 1, 2006

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

Re: Exception Location: Federal 13-18-9-16  
Federal 14-18-9-16, Federal 15-18-9-16 ✓  
Duschene Cty., Utah; Lease UTU-64379

Dear Ms. Whitney:

Pursuant to Rule R649-3-3 of the Oil & Gas Rules and Regulations of the State of Utah, Newfield Production Company, Inc. hereby requests exception locations for the drilling of the captioned wells. 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.

1) Fed 13-18-9-16; (SWSW Sec 18-T9S-R16E, U-64379). This location is found 57' west of the drilling window tolerance as stated in Rule R649-3-2. The attached plat depicts the proposed drillsite location and the deviation from the drilling window. The exception location is requested due to drainage.

2) Fed 14-18-9-16; (SESW Sec 18-T9S-R16E, U-64379) This location is found 179' north of the drilling window tolerance as state in Rule R649-3-2. The attached plat depicts the proposed drillsite location and the deviation from the drilling window. The exception location is requested due to the terrain.

3) Fed 15-18-9-16; (SESW Sec 18-T9S-R16E, U-64379). This location is found 190' west of the drilling window tolerance as state in Rule R649-3-2. The attached plat depicts the proposed drillsite location and the deviation from the drilling window. The exception location is requested due to the terrain.

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FEB 06 2006

DIV. OF OIL, GAS & MINING

Page 2

The drillsite lease and all surrounding acreage within a four hundred sixty foot (460') radius of the proposed locations are owned by Newfield Production Company and Yates Petroleum Corporation. We have contacted this owner 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 style with a large initial "L" and a long, sweeping underline.

Laurie Deseau  
Properties Administrator

Exception Locations

Federal 13-18-9-16, UTU-64379

Federal 14-18-9-16, UTU-64379

Federal 15-18-9-16, UTU-64379

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

By: *Amy Waldorf*

Date: 1-27-06

Senior Landman  
Print Name and Title



**State of Utah**

**Department of  
Natural Resources**

MICHAEL R. STYLER  
*Executive Director*

**Division of  
Oil, Gas & Mining**

JOHN R. BAZA  
*Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

February 7, 2006

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

Re: Federal 15-18-9-16 Well, 657' FSL, 2350' FEL, SW SE, Sec. 18, 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 43-013-33001.

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 15-18-9-16  
**API Number:** 43-013-33001  
**Lease:** UTU-64379

**Location:** SW SE                      Sec. 18                      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.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

5. Lease Designation and Serial No.  
**UTU-64379**

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

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

8. Well Name and No.  
**FEDERAL 15-18-9-16**

9. API Well No.  
**43-013-33001**

10. Field and Pool, or Exploratory Area  
**MONUMENT BUTTE**

11. County or Parish, State  
**DUCHESNE COUNTY, UT.**

**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)  
**657 FSL 2350 FEL SW/SE Section 18, T9S R16E**

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

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

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

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

Newfield Production Company requests to extend the Permit to Drill this well for one year. The original approval date was 2/7/06 (expiration 2/7/07).

This APD has not been approved yet by the BLM.

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 02-07-07  
By: [Signature]

FEB 06 2007

2-8-07  
RM

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

Signed Mandie Crozier Title Regulatory Specialist Date 2/2/2007  
Mandie Crozier

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:** 43-013-33001  
**Well Name:** Federal 15-18-9-16  
**Location:** SW/SE Section 18,T9S R16E  
**Company Permit Issued to:** Newfield Production Company  
**Date Original Permit Issued:** 2/7/2006

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  NA

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

2/2/2007  
Date

Title: Regulatory Specialist

Representing: Newfield Production Company

FEB 06 2007

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DEC 07 2005

BLM VERNAL, UTAH

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-64379
6. If Indian, Allottee or Tribe Name	N/A
7. If Unit or CA Agreement, Name and No.	N/A
8. Lease Name and Well No.	Federal 15-18-9-16
9. API Well No.	4301333001
10. Field and Pool, or Exploratory	Monument Butte
11. Sec., T., R., M., or Blk. and Survey or Area	SW/SE Sec. 18, T9S R16E
12. County or Parish	Duchesne
13. State	UT

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER	
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone	
2. Name of Operator Newfield Production Company	
3a. Address Route #3 Box 3630, Myton UT 84052	3b. Phone No. (include area code) (435) 646-3721
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SW/SE 657' FSL 2350' FEL At proposed prod. zone	
14. Distance in miles and direction from nearest town or post office* Approximatley 15.0 miles southwest of Myton, Utah	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 1983' /l/ise, NA' /f/unit	16. No. of Acres in lease 1626.36
17. Spacing Unit dedicated to this well 40 Acres	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1266'	19. Proposed Depth 5865'
20. BLM/BIA Bond No. on file UT0056	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5049' GL	22. Approximate date work will start* 1st Quarter 2006
23. Estimated duration Approximately seven (7) days from spud to rig release.	

24. Attachments

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

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

25. Signature 	Name (Printed/Typed) Mandie Crozier	Date 12/6/05
Title Regulatory Specialist		
Approved by (Signature) 	Name (Printed/Typed) Terry Newell	Date 3-8-2007
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

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

Conditions of approval, if any, are attached.

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)

CONDITIONS OF APPROVAL ATTACHED  
RECEIVED

NOTICE OF APPROVAL

MAR 16 2007

DIV. OF OIL, GAS & MINING



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  
**Well No:** Federal 15-18-9-16  
**API No:** 43-013-33001

**Location:** SWSE, Sec 18, T9S, R16E  
**Lease No:** UTU-64379  
**Agreement:** N/A

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	435-781-4490	435-828-4470
Petroleum Engineer:	Michael Lee	435-781-4432	435-828-7875
Petroleum Engineer:	James Ashley	435-781-4470	435-828-7874
Petroleum Engineer:	Ryan Angus	435-781-4430	
Supervisory Petroleum Technician:	Jamie Sparger	435-781-4502	435-828-3913
NRS/Enviro Scientist:	Paul Buhler	435-781-4475	435-828-4029
NRS/Enviro Scientist:	Karl Wright	435-781-4484	
NRS/Enviro Scientist:	Holly Villa	435-781-4404	
NRS/Enviro Scientist:	Melissa Hawk	435-781-4476	435-828-7381
NRS/Enviro Scientist:	Chuck MacDonald	435-781-4441	
NRS/Enviro Scientist:	Jannice Cutler	435-781-3400	
NRS/Enviro Scientist:	Michael Cutler	435-781-3401	
NRS/Enviro Scientist:	Anna Figueroa	435-781-3407	
NRS/Enviro Scientist:	Verlyn Pindell	435-781-3402	
NRS/Enviro Scientist:	Darren Williams	435-781-4447	
NRS/Enviro Scientist:	Nathan Packer	435-781-3405	
<b>After Hours Contact Number: 435-781-4513</b>		Fax: 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/Enviro Scientist)	- Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify NRS/Enviro Scientist)	- 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 strings
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)**

- All applicable local, state, and/or federal laws, regulations, and/or statutes must be complied with.
- Prior to construction the operator must consult with the U.S. Army Corps of Engineers regarding compliance with Section 404 of the Clean Water Act.
- In accordance with the Migratory Bird Treaty Act if a nest is found the operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer.
- Construction related traffic shall be restricted to approved routes. Cross-country vehicle travel shall not be allowed.
- If additional erosion occurs during the life of this project, more culverts, low water crossings, berms, wing ditches or etc. may be needed to control the erosion. The operator shall submit a proposal to control erosion to the BLM.
- The reserve pit shall be double lined with felt and a 12 ml or greater liner.
- No vehicle travel, construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support vehicles and/or construction equipment. If such equipment creates ruts in excess of four inches deep, the soil shall be deemed too wet to adequately support construction equipment.
- The liner is to be cut at the level of the cuttings or treated to prevent the reemergence of the pit liner and pit material to the surface or its interference with long-term successful re-vegetation. Any excess liner material removed from the pit is to be disposed of at an authorized disposal site.
- When the reserve pit contains fluids or toxic substances, the operator must ensure that animals do not ingest or become entrapped in pit fluids.
- Drill cuttings and mud shall remain in the reserve pit until DRY. The reserve pit must be free of oil and other liquid and solid wastes, allowed to dry, be pumped dry, or solidified in-situ prior to filling. The reserve pit shall not be "squeezed," (filled with soil while still containing fluids) or "cut" (puncturing the pit liner while still containing fluids to allow pit fluids to drain from the pit).
- Prevent fill and stock piles from entering drainages.
- **CULTURAL AND PALEONTOLOGICAL RESOURCES** - Any cultural and/or paleontological resource (historic or prehistoric site or object or fossil) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the authorized officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery shall be made by the authorized officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder shall be responsible for the cost of evaluation and a decision as to proper mitigation measures shall be made by the authorized officer after consulting with the holder.

- The access road shall be crowned and ditched. Flat-bladed roads are NOT allowed.
- Notify the Authorized Officer 48 hours prior to surface disturbing activities.
- Following well plugging and abandonment, the location, access roads, pipelines, and other facilities shall be reclaimed. All disturbed surfaces shall be reshaped to approximate the original contour; the top soil respread over the surface; and, the surface revegetated. The surface of approved staging areas where construction activities did not occur may require disking or ripping and reseeding.
- Noxious weeds and any undesirable plants, as determined by the BLM, shall be controlled by the operator. The operator shall submit a pesticide use proposal to control weeds if they develop on the location or access road.
- Trees must be removed from the location must be piled separately off location and saved for final reclamation purposes.

#### INTERIM RECLAMATION

- Where possible, strip six inches of topsoil from the location as shown on the cut sheet. After the well is completed, the topsoil shall be spread and re-contoured on the location and immediately seeded with the seed mix below. Topsoil shall not be piled deeper than 2 feet.

#### Interim Reclamation Seed Mix for location:

Crested wheatgrass	Agropyron cristatum	4 lbs/acre
	Per Live Seed Total	4 lbs/acre

- Certified weed free seed and straw shall be used for final and interim reclamation. The operator shall submit a receipt with certification for the seed and any straw used on location.
- The topsoil from the reserve pit should be stripped and piled separately near the reserve pit. When the reserve pit is closed it should be re-contoured, then the area should be seeded in the same manner as the topsoil.
- There shall be no primary or secondary noxious weeds in the seed mixture.
- The above listed seed mix shall be used to seed all unused portions of the pad including the topsoil and stock piles, and the reserve pits. Re-seeding may be required if the first seeding is not successful.
- The seed shall be drilled or disked into the ground or hand broadcast onto the ground. Planting depth shall not exceed one-half inch using a seed drill. If the seed is hand broadcast then the seed mixture shall be doubled and the area raked or chained to cover the seed. Seeding shall be conducted in fall.

#### COMPLETION AND PRODUCTION

- All Blow back fluids from completion operations shall be contained in such a manner that no oil reaches the reserve pit.
- During all road building, pad construction, drilling, well completion, producing and abandonment activities, all gasoline, diesel powered equipment used must be equipped with approved spark arresters or mufflers.

- The dikes for the production facilities will be constructed of compacted subsoil, be impervious, hold 110% the capacity of the largest tank with (one) 1 foot of freeboard and be independent of the backcut. All galvanized material used for dikes shall be painted on the inside and outside. Dikes shall be installed before production starts. Diking of the entire location will only be used as a secondary means of containment.
- Production facilities (including dikes) shall be placed on cut and a minimum of 20' from the toe of the backcut.
- Pesticides may not be used to control undesirable woody and herbaceous vegetation, aquatic plants, insects, rodents, trash fish, etc., without the prior written approval of the BLM. A request for approval of planned uses of pesticides shall be submitted 4 months prior to the proposed starting date.
- No production pits shall be allowed on the location.
- Load outs shall be inside the dike. A drip barrel shall be installed under the end of the loadout line.
- All production facilities, i.e. pump, pump house, storage tanks, oil-water separator, galvanized dikes, propane tanks, etc. shall be painted with a lusterless color (see well stipulations for color specific to each well). All facilities shall be painted within twelve (12) months of installation.
- The well location shall be maintained in a clean environmentally friendly manner, using good house keeping practices.
- Equipment not being used for production shall not be stored on the well location.
- All oil and chemical barrels shall be labeled and have a spill containment device to protect soils from possible contamination.

#### ABANDONED WELL – FINAL RECLAMATION

- A sundry notice shall be submitted to the BLM prior to abandonment, a final reclamation seed mix shall be designated at the time the sundry is approved.
- The cut and fill slopes shall be recontoured to original contours. The entire disturbed area shall then be back-filled with topsoil, landscaped, seeded and fenced to exclude livestock. The fence shall remain in place. It shall be removed prior to approval of final abandonment.
- The seed shall be drilled or hand broadcast and harrowed into the ground during September of the year following earthwork for initial or final reclamation. Planting depth shall not exceed one-half inch using a seed drill. Weed free mulch shall also be applied to the planting area sufficiently to uniformly cover 80% of the seeded area. Hydroseeding and mulching can also be used, but seeding rates will need to be doubled.
- When seeding *Artemisia* spp or shrubs broadcast seed and chain the area.
- Final reclamation shall be a stage process.

- If invasive or undesirable species are present in the area the location to be reclaimed will be sprayed with a pesticide in fall preferably October. (pesticide determined by the Vernal Field Office).
- 30 days after treatment drill seed the location with 4 lbs/acre Crested wheatgrass.
- Once the desired pioneer species has established (2 yrs +) the seeded area shall be sprayed in a mosaic pattern with the above determined pesticide.
- Reseed within 30 days with an approved native final reclamation seed mix.
- Final reclamation will be considered complete once desired plants are > 5 plants per square meter and invasive or un-desirable species are < 100 plants per square meter.
- Sage Grouse Lek Nest Area—No surface use is allowed within the lek nesting areas March 1 through June 30. No drilling or construction from February 1 through July 15 to protect nesting Golden Eagles. All production facilities shall be painted Olive Drab. 6" and 4" surface poly gas lines, 3" buried poly water return line and 3" steel buried water injection line.

#### **General Surface COA**

**Operator shall notify any active Gilsonite mining operation within 2 miles of the location 48 hours prior to any blasting during construction for this well.**

## **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**

- The operator's proposed production casing of 5.5" 17 #J-55 LT&C (straight string) set at a depth of 8500' does 'not' meet the regulatory standards for a collapse design coefficient greater than 1.12(depth TD 8500 ft, mud weight 10.5 g) and is therefore deficient.
- The operator is required to upgrade the production casing up to an appropriate API rated grade of production casing which will meet or exceed the regulatory standards.

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

- 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.
- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- **Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.**
- 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.
- **Cement baskets shall not be run on surface casing.**
- 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).

- All oil and gas shows shall be adequately tested for commercial possibilities, reported, and protected.
- The lessee/operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, etc.) to Peter Sokolosky or another geologist of the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- All shows of fresh water and minerals shall be reported and protected. A sample shall be taken of any water flows and a water analysis furnished the BLM, Vernal Field Office. All oil and gas shows shall be adequately tested for commercial possibilities, reported, and protected.
- 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.
- 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.
- 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\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- 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.
- 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.
- 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.
- 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:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - 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).
  - 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.
  - Unit agreement and / or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- 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.
- 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.

- 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.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

# DIVISION OF OIL, GAS AND MINING

## **SPUDDING INFORMATION**

Name of Company: NEWFIELD PRODUCTION COMPANY

Well Name: FEDERAL 15-18-9-16

Api No: 43-013-33001 Lease Type: FEDERAL

Section 18 Township 09S Range 16E County DUCHESNE

Drilling Contractor NDSI RIG # NS#1

### **SPUDDED:**

Date 09/14/07

Time 7:30 AM

How DRY

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

Reported by DELL RAY

Telephone # (435) 828-6110

Date 09/14/07 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				COUNTY	SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG			
A	99999	16365	4301333001	FEDERAL 15-18-9-16	SWSE	18	9S	16E	DUCHESNE	9/14/2007	9/25/07
WELL 1 COMMENTS: <i>GRRV</i>											
B	99999	12417	4301333287	LONE TREE FED 8-21-9-17	SENE	21	9S	17E	DUCHESNE	9/15/2007	9/25/07
WELL 2 COMMENTS: <i>GRRV</i>											
B	99999	12417	4301333288	LONE TREE FED 7-21-9-17	SWNE	21	9S	17E	DUCHESNE	9/17/2007	9/25/07
WELL 3 COMMENTS: <i>GRRV</i>											
A	99999	16366	4301333701	HANCOCK 4-20-4-1	NWNW	20	4S	1E	DUCHESNE	9/18/2007	9/25/07
WELL 4 COMMENTS: <i>GRRV</i>											
WELL 5 COMMENTS:											
WELL 6 COMMENTS:											

ACTION CODES (See instructions on back of form)  
 A - 1 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)

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 SEP 20 2007

DIV. OF OIL, GAS & MINING

*Jentri Park*  
 Signature  
 Jentri Park  
 Production Clerk  
 09/20/07  
 Date

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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

5. Lease Serial No.  
USA UTU-64379

6. If Indian, Allottee or Tribe Name.

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

8. Well Name and No.  
FEDERAL 15-18-9-16

9. API Well No.  
4301333001

10. Field and Pool, or Exploratory Area  
MONUMENT BUTTE

11. County or Parish, State  
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)  
657 FSL 2350 FEL  
SWSE Section 18 T9S R16E

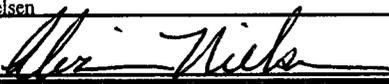
12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA

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

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

On 9/14/07 MIRU NDSI NS # 1. Spud well @ 7:30 AM. Drill 320' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24 # csgn. Set @ 324.21 KB On 2/18/07 we could not get circ so we pumped 30 sx of saw dust & 3 buckets of polymer then pumped 160 sks of class "G" neat cement w/ 2% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cf/ sk yeild. Returned 0 bbls cement to pit. Cement was 145' down. Come back on 9/19/07 run 140' of 1" pipe in hole & pumped 300 sks Class " G " neat cement w/2% CCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg-1.17 cf/ sk yeild. 7 BBLs cement returned to pit it stayed WOC.

RECEIVED  
SEP 21 2007  
DIV. OF OIL, GAS & MINING

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

Title  
Drilling Foreman

Date  
09/20/2007

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

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

Office \_\_\_\_\_

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

(Instructions on reverse)

**NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT**

8 5/8 CASING SET AT 324.21

LAST CASING 8 5/8" set @ 324.21  
 DATUM 12' KB  
 DATUM TO CUT OFF CASING \_\_\_\_\_  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER 320' LOGGER \_\_\_\_\_  
 HOLE SIZE 12 1/4

OPERATOR Newfield Production Company  
 WELL Federal 15-18-9-16  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # NDSI NS # 1

**LOG OF CASING STRING:**

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH	
		Shoe Joint 44.75'						
		WHI - 92 csg head			8rd	A	0.95	
7	8 5/8"	Maverick ST&C csg	24#	J-55	8rd	A	312.36	
		<b>GUIDE</b> shoe			8rd	A	0.9	
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			314.21	
TOTAL LENGTH OF STRING		314.21	7	LESS CUT OFF PIECE			2	
LESS NON CSG. ITEMS		1.85		PLUS DATUM TO T/CUT OFF CSG			12	
PLUS FULL JTS. LEFT OUT		0		CASING SET DEPTH			<b>324.21</b>	
TOTAL		312.36	7	} COMPARE				
TOTAL CSG. DEL. (W/O THRDS)		312.36	7					
TIMING		1ST STAGE		GOOD CIRC THRU JOB			NO	
BEGIN RUN CSG.		Spud	9/14/2007	7:30 AM	Bbis CMT CIRC TO SURFACE			7
CSG. IN HOLE			6/14/2006	2:00 PM	RECIPROCATED PIPE FOR			N/A
BEGIN CIRC			9/18/2007	3:27 PM	BUMPED PLUG TO			340 PSI
BEGIN PUMP CMT			9/18/2007	3:29 PM				
BEGIN DSPL. CMT			9/18/2007	3:44 PM				
PLUG DOWN			9/18/2007	3:53 PM				
CEMENT USED		CEMENT COMPANY- <b>B. J.</b>						
STAGE	# SX	CEMENT TYPE & ADDITIVES						
1	160	Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield						
2	300	Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield						
# 2 was a 1" job		on 9/19/07						
CENTRALIZER & SCRATCHER PLACEMENT			SHOW MAKE & SPACING					
Centralizers - Middle first, top second & third for 3								

COMPANY REPRESENTATIVE Alvin Nielse DATE 9/18/2007

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)  
657 FSL 2350 FEL  
SWSE Section 18 T9S R16E

5. Lease Serial No.  
USA UTU-64379

6. If Indian, Allottee or Tribe Name.

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

8. Well Name and No.  
FEDERAL 15-18-9-16

9. API Well No.  
4301333001

10. Field and Pool, or Exploratory Area  
MONUMENT BUTTE

11. County or Parish, State  
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 Crozier

Signature

Title

Regulatory Specialist

Date

10/19/2007

**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**

OCT 24 2007

DIV. OF OIL, GAS & MINING

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-64379

6. If Indian, Allottee or Tribe Name.

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

8. Well Name and No.  
FEDERAL 15-18-9-16

9. API Well No.  
4301333001

10. Field and Pool, or Exploratory Area  
MONUMENT BUTTE

11. County or Parish, State  
UT

**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)  
657 FSL 2350 FEL  
SWSE Section 18 T9S R16E

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

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

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or 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 9/21/07 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 6020'. 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, 149 jt's of 5.5 J-55, 15.5# csgn. Set @ 5999' / KB. Cement with 300 sks cement mixed @ 11.0 ppg & 3.43 yld. The 450 sks cement mixed @ 14.4 ppg & 1.24 yld. Returned 34 bbls of cement to reserve pit. Nipple down Bop's. Drop slips @ 80,000 #'s tension. Release rig @ 6:00 AM on 9/27/07.

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

Jim Smith  
Signature

Title  
Drilling Foreman

Date  
09/28/2007

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

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

Office \_\_\_\_\_

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

(Instructions on reverse)

**RECEIVED**  
OCT 02 2007

**NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT**

5 1/2" CASING SET AT 5999.62

Flt c/lr @ 5961.59

LAST CASING 8 5/8" Set @ 324'

OPERATOR Newfield F

DATUM 12' KB

WELL Federal 15-18-9-16

DATUM TO CUT OFF CASING 12'

FIELD/PROSPECT Monument Butte

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

CONTRACTOR & RIG # NDSI # 1

TD DRILLER 6020' Loggers 6017'

HOLE SIZE 7 7/8"

**LOG OF CASING STRING:**

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		Landing Jt					14
		<b>Short jt</b> 4080' / 6.32'					
153	5 1/2"	ETC LT & C casing	15.5#	J-55	8rd	A	5946.99
		Float collar					0.6
1	5 1/2"	ETC LT&C csg	15.5#	J-55	8rd	A	39.38
		<b>GUIDE</b> shoe			8rd	A	0.65
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			6001.62
TOTAL LENGTH OF STRING		6001.62	149	LESS CUT OFF PIECE			14
LESS NON CSG. ITEMS		15.25		PLUS DATUM TO T/CUT OFF CSG			12
PLUS FULL JTS. LEFT OUT		199.31	5	CASING SET DEPTH			<b>5999.62</b>
TOTAL		<b>6185.68</b>	154				

TOTAL CSG. DEL. (W/O THRDS)	6185.68	154	} COMPARE	
TIMING	1ST STAGE	2nd STAGE		
BEGIN RUN CSG.	9/26/2007	6:00 PM	GOOD CIRC THRU JOB	Yes
CSG. IN HOLE	9/26/2007	9:00 PM	Bbls CMT CIRC TO SURFACE	35
BEGIN CIRC	9/26/2007	9:30 PM	RECIPROCATED PIPE FOR	THRU STROKE NA
BEGIN PUMP CMT	9/27/2007	1:25 AM	DID BACK PRES. VALVE HOLD ?	Yes
BEGIN DSPL. CMT	9/27/2007	2:14 AM	BUMPED PLUG TO	480 PSI
PLUG DOWN	9/27/2007	2:41 AM		

CEMENT USED		CEMENT COMPANY- <b>B. J.</b>
STAGE	# SX	CEMENT TYPE & ADDITIVES
1	300	Premilite II w/ 10% gel + 3% KCL, 5#s /sk CSE + 2# sk/kolseal + 1/2#s/sk Cello Flake mixed @ 11.0 ppg W / 3.43 cf/sk yield
2	450	50/50 poz W/ 2% Gel + 3% KCL, .5%EC1, 1/4# sk C.F. 2% gel. 3% SM mixed @ 14.4 ppg W/ 1.24 YLD.
CENTRALIZER & SCRATCHER PLACEMENT		SHOW MAKE & SPACING
Centralizers - Middle first, top second & third. Then every third collar for a total of 20.		

COMPANY REPRESENTATIVE Jim Smith DATE 9/27/2007

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

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL:  
OIL WELL  GAS WELL  OTHER

8. WELL NAME and NUMBER:  
FEDERAL 15-18-9-16

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:  
4301333001

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: 657 FSL 2350 FEL

COUNTY:

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SWSE, 18, T9S, R16E

STATE: UT

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

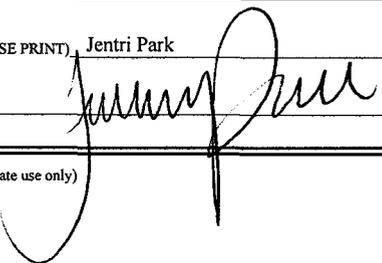
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> 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: 10/30/2007	<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 10/16/07, attached is a daily completion status report.

NAME (PLEASE PRINT) Jentri Park

TITLE Production Clerk

SIGNATURE 

DATE 10/30/2007

(This space for State use only)

**RECEIVED**  
**NOV 09 2007**  
DIV. OF OIL, GAS & MINING

## Daily Activity Report

Format For Sundry

FEDERAL 15-18-9-16

8/1/2007 To 12/30/2007

10/10/2007 Day: 1

Completion

Rigless on 10/9/2007 - Install 5m frac head. NU 6" 5K Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head, csg & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 5919' & cement top @ 30'. Perforate stage #1, CP3 sds @ 5649-58' w/ 3-1/8" Slick Guns (19 gram, .49"EH. 120°) w/ 4 spf for total of 36 shots. 110 BWTR. SWIFN.

10/12/2007 Day: 2

Completion

Rigless on 10/11/2007 - RU BJ Services "Ram Head" frac flange. RU BJ & frac CP3 sds, stage #1 down casing w/ 15,067#'s of 20/40 sand in 290 bbls of Lightning 17 frac fluid. Open well w/ 0 psi on casing. Perfs broke down @ 3284 psi. Pump 30 gallons of Techna Hib before pad. Treated @ ave pressure of 2158 w/ 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 1805. 400 bbls EWTR. Leave pressure on well. RU Perforators LLC WLT, crane & lubricator. RIH Weatherford 5-1/2" (6K) composite flow through frac plug & 16' perf gun. Set plug @ 5370'. Perforate LODC sds @ 5236-72' w/ 3-1/8" Slick Guns (19 gram, .49"EH. 120°) w/ 4 spf for total of 144 shots in 2 runs. RU BJ & frac stage #2 w/ 159,885#'s of 20/40 sand in 1115 bbls of Lightning 17 frac fluid. Open well w/ 1180 psi on casing. Perfs broke down @ 2442 psi. Pump 30 gallons of Techna Hib before pad. Treated @ ave pressure of 1955 w/ ave rate of 24.8 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2340. 1515 bbls EWTR. Leave pressure on well. RU WLT. RIH w/ frac plug & 9' perf gun. Set plug @ 5080'. Perforate A1 sds @ 4976-85' w/ 4 spf for total of 36 shots. RU BJ & frac stage #3 w/ 34,607#'s of 20/40 sand in 423 bbls of Lightning 17 frac fluid. Open well w/ 2007 psi on casing. Perfs broke down @ 3899 psi. Pump 30 gallons of Techna Hib before pad. Treated @ ave pressure of 2543 w/ ave rate of 29.9 bpm w/ 6.5 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 3582. 1937 bbls EWTR. Leave pressure on well. RU WLT. RIH w/ frac plug & 9' perf gun. Set plug @ 4900'. Perforate B1 sds @ 4828-37' w/ 4 spf for total of 36 shots. RU BJ & frac stage #4 w/ 15,082#'s of 20/40 sand in 267 bbls of Lightning 17 frac fluid. Open well w/ 1485 psi on casing. Perfs broke down @ 3333 psi. Pump 30 gallons of Techna Hib before pad. Treated @ ave pressure of 2075 w/ 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 1935. 2204 bbls EWTR. Leave pressure on well. RU WLT. RIH w/ frac plug & 14' perf gun. Set plug @ 4690'. Perforate D1 sds @ 4584-98' w/ 4 spf for total of 56 shots. RU BJ & frac stage #4 w/ 47,763#'s of 20/40 sand in 455 bbls of Lightning 17 frac fluid. Open well w/ 1515 psi on casing. Perfs broke down @ 3012 psi. Pump 30 gallons of Techna Hib before pad. Treated @ ave pressure of 1975 w/ ave rate of 24.8 bpm w/ 8 ppg of sand. ISIP was 2078. 2659 bbls EWTR. RD BJ & WLT. Flow well back. Well flowed for 3 hours & died w/ 210 bbls rec'd. SIFN.

10/15/2007 Day: 3

Completion

Western #4 on 10/14/2007 - Open well w/ 140 psi on casing. PU bit & bit sub (Chomp). Tally & pickup new J-55, 2-7/8", 6.5# tbg. TIH w/ tbg to tag sand @ 4617'. RU pump/tank & swivel. C/O to plug @ 4690' Drlg out plug #1. TIH w/ tbg to tag fill @ 4813'. C/O to plug @ 4900'. Drlg out plug #2. TIH w/ tbg to tag plug @ 5080'. Drlg out plug #3. TIH w/ tbg to tag plug @ 5370'. Drlg out plug #4. TIH / tbg

to tag fill @ 5841'. C/O to PBTB @ 5959'. LD 2 jts tbg to leave EOT @ 5881'. SIFN.

10/16/2007 Day: 4

Completion

Western #4 on 10/15/2007 - Open well w/ 0 psi on casing. Made 15 swab runs to rec'd 140 bbls fluid. IFL was surface. FFL was 1100'. Last run showed trace of oil w/ trace of sand. RD swab. TIH w/ tbg to tag 4' of new sand. C/O to PBTB @ 5959'. TOOH w/ tbg. LD bit & bit sub. TIH w/ NC, 2 jts tbg, SN, 2 jt tbg, TA (new 45,000# shear), 182 jts tbg. RD BOP's. Set TA @ 5610' w/ 16,000#'s tension w/ SN 5675', & EOT @ 5739'. Flush tbg w/ 60 bbls water. Pickup prime pump. TIH w/ 2-1/2" X 1-1/2" X 14' X 18' new CDI pump W/ 159"SL, 6- 1-1/2", 20- 3/4" guided rods, 100-3/4" slick rods. SIFN.

10/17/2007 Day: 5

Completion

Western #4 on 10/16/2007 - Open well w/ 0 psi on casing. Continue TIH w/ 100-3/4" guided rods, 2', 6' X 3/4" pony rods, 1-1/2" x 26' polish rod. Space pump. Test tbg & pump to 800 psi w/ pumping unit. RD MOSU. POP @ 9 AM w/ 102"SL @ 4.5 SPM. Final Report.

**Pertinent Files: Go to File List**

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

5. LEASE DESIGNATION AND SERIAL NO.

UTU-64379

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NA

1a. TYPE OF WORK

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

7. UNIT AGREEMENT NAME

Federal

1b. TYPE OF WELL

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

8. FARM OR LEASE NAME, WELL NO.

Federal 15-18-9-16

2. NAME OF OPERATOR

Newfield Exploration Company

9. WELL NO.

43-013-33001

3. ADDRESS AND TELEPHONE NO.

1401 17th St. Suite 1000 Denver, CO 80202

10. FIELD AND POOL OR WILDCAT

Monument Butte

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

At Surface 657' FSL & 2350' FEL (SW/SE) Sec. 18, T9S, R16E

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

Sec. 18, T9S, R16E

At top prod. Interval reported below

At total depth

14. API NO. 43-013-33001 DATE ISSUED 02/07/07

12. COUNTY OR PARISH

Duchesne

13. STATE

UT

15. DATE SPUDDED

09/18/07

16. DATE T.D. REACHED

09/25/07

17. DATE COMPL. (Ready to prod.)

10/16/07

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

6049' GL

19. ELEV. CASINGHEAD

6061' KB

20. TOTAL DEPTH, MD & TVD

6020'

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

5959'

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 4584'-5658'

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#	324'	12-1/4"	To surface with 460 sx Class "G" cmt	
5-1/2" - J-55	15.5#	6000'	7-7/8"	300 sx Premilite II and 450 sx 50/50 Poz	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	EOT @ 5739'	TA @ 5611'

31. PERFORATION RECORD (Interval, size and number)

INTERVAL	SIZE	SPF/NUMBER	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
(CP3) 5649'-5658'	.49"	4/36	5649'-5658'	Frac w/ 15,067# 20/40 sand in 290 bbls fluid
(LODC) 5236'-5272'	.49"	4/144	5236'-5272'	Frac w/ 159,885# 20/40 sand in 1115 bbls fluid
(A1) 4976'-4985'	.49"	4/36	4976'-4985'	Frac w/ 34,607# 20/40 sand in 423 bbls fluid
(B1) 4828'-4837'	.49"	4/36	4828'-4837'	Frac w/ 15,082# 20/40 sand in 267 bbls fluid
(D1) 4584'-4598'	.49"	4/56	4584'-4598'	Frac w/ 47,763# 20/40 sand in 455 bbls fluid

33.\* PRODUCTION

DATE FIRST PRODUCTION 10/16/07	PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump) 2-1/2" x 1-1/2" x 14' x 18' RHAC SM Plunger Pump					WELL STATUS (Producing or shut-in) PRODUCING	
DATE OF TEST 10 day ave	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD -->	OIL--BBL. 66	GAS--MCF. 17	WATER--BBL. 50	GAS-OIL RATIO 258
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

**RECEIVED**  
TEST WITNESSED BY  
**NOV 09 2007**

35. LIST OF ATTACHMENTS

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

SIGNED

Jentri Park

TITLE

Production Clerk

DATE

10/31/2007

DIV. OF OIL, GAS & MINING

\*(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 15-18-9-16	Garden Gulch Mkr	3571'	
				Garden Gulch 1	3791'	
				Garden Gulch 2	3898'	
				Point 3 Mkr	4146'	
				X Mkr	4413'	
				Y-Mkr	4445'	
				Douglas Creek Mkr	4555'	
				BiCarbonate Mkr	4785'	
				B Limestone Mkr	4884'	
				Castle Peak	5457'	
				Basal Carbonate	5894'	
				Total Depth (LOGGERS)	6017'	



June 14, 2012

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

**RECEIVED**  
**JUN 18 2012**

RE: Permit Application for Water Injection Well  
Federal #15-18-9-16  
Monument Butte Field, Lease #UTU-64379  
Section 18-Township 9S-Range 16E  
Duchesne County, Utah

DIV. OF OIL, GAS & MINING

Dear Mr. Reinbold:

Newfield Production Company herein requests approval to convert the Federal #15-18-9-16 from a producing oil well to a water injection well in the Monument Butte (Green River) Field.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Eric Sundberg", with a long horizontal line extending to the right.

Eric Sundberg  
Regulatory Lead

**NEWFIELD PRODUCTION COMPANY**  
**APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL**  
**FEDERAL #15-18-9-16**  
**MONUMENT BUTTE FIELD (GREEN RIVER) FIELD**  
**LEASE #UTU-64379**  
**JUNE 14, 2012**

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# FEDERAL 15-18-9-16

Spud Date: 09/18/07  
 Put on Production: 10/16/07  
 GL: 6049' KB: 6061'

Initial Production: BOPD,  
 MCFD, BWPD

## Proposed Injection Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (312.36')  
 DEPTH LANDED: 324.21' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 1- 160, 2-300 sxs Class "G" cmt, est 7 bbls cmt to surf.

### PRODUCTION CASING

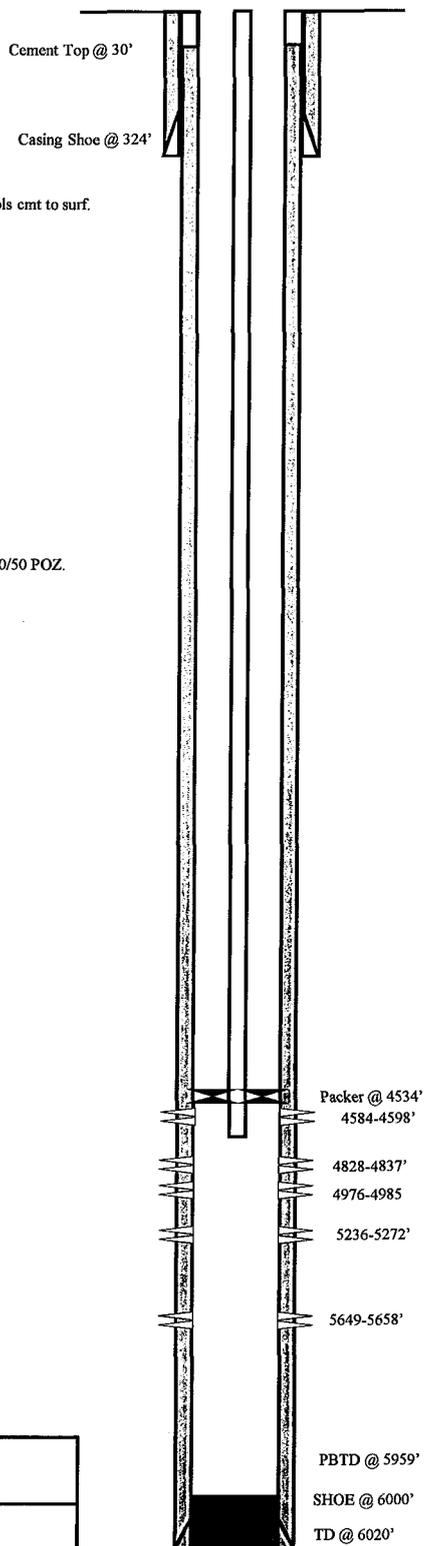
CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 154 jts. (5986.37')  
 DEPTH LANDED: 5999.62' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
 CEMENT TOP: 30'

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55  
 NO. OF JOINTS: 182 jts (5610.75')  
 TUBING ANCHOR: 5610.75' KB  
 NO. OF JOINTS: 2 jts (62.42')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5675.97' KB  
 NO. OF JOINTS: 2 jts (61.58')  
 TOTAL STRING LENGTH: EOT @ 5739.10' KB

### FRAC JOB

10/11/07	5649-5658'	<b>Frac CP3 sands as follows:</b> 15067# 20/40 sand in 290 bbls Lightning 17 frac fluid. Treated @ avg press of 2158 psi w/avg rate of 24.8 BPM. ISIP 1805 psi. Calc flush: 5647 gal. Actual flush: 5166 gal.
10/11/07	5236-5272'	<b>Frac LODC sands as follows:</b> 159885# 20/40 sand in 1115 bbl Lightning 17 frac fluid. Treated @ avg press of 1955 psi w/avg rate of 24.8 BPM. ISIP 2340 psi. Calc flush: 5234 gal. Actual flush: 4746 gal.
10/11/07	4976-4985'	<b>Frac A1 sands as follows:</b> 34607# 20/40 sand in 423 bbls Lightning 17 frac fluid. Treated @ avg press of 2543 psi w/avg rate of 29.9 BPM. ISIP 3582 psi. Calc flush: 4974 gal. Actual flush: 4494 gal.
10/11/07	4828-4837'	<b>Frac B1 sands as follows:</b> 15082# 20/40 sand in 267 bbls Lightning 17 frac fluid. Treated @ avg press of 2075 psi w/avg rate of 24.8 BPM. ISIP 1935 psi. Calc flush: 4826 gal. Actual flush: 4326 gal.
10/11/07	4584-4598'	<b>Frac D1 sands as follows:</b> 47763# 20/40 sand in 455 bbls Lightning 17 frac fluid. Treated @ avg press of 1975 psi w/avg rate of 24.8 BPM. ISIP 2078 psi. Calc flush: 4582 gal. Actual flush: 4491 gal.
12-31-07		Pump Change. Updated rod & tubing details.



### PERFORATION RECORD

10/11/07	4584-4598'	4 JSPF	56 holes
10/11/07	4828-4837'	4 JSPF	36 holes
10/11/07	4976-4985'	4 JSPF	36 holes
10/11/07	5236-5272'	4 JSPF	144 holes
10/11/07	5649-5658'	4 JSPF	36 holes



**NEWFIELD**

**BELUGA FEDERAL 15-18-9-16**

657' FSL & 2350' FEL

SW/SE Section 18-T9S-R16E

Duchesne Co, Utah

API #43-013-33001; Lease # UTU-64379

## **WORK PROCEDURE FOR INJECTION CONVERSION**

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

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

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

- 2.1 The name and address of the operator of the project.**

Newfield Production Company  
1001 17<sup>th</sup> Street, Suite 2000  
Denver, Colorado 80202

- 2.2 A plat showing the area involved and identifying all wells, including all proposed injection wells, in the project area and within one-half mile of the project area.**

See Attachment A.

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

Approval is requested to convert the Federal #15-18-9-16 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 #15-18-9-16 well, the proposed injection zone is from Garden Gulch to Basal Carbonate (3897' - 5959'). 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 3570' and the TD is at 6020'.

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

The referenced log for the Federal #15-18-9-16 is on file with the Utah Division of Oil, Gas and Mining.

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

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

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

See Attachment B.

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

See Attachment C.

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

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

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

This proposed injection well is on a Federal lease (Lease #UTU-64379) in the Monument Butte Federal (Green River) Field, and this request is for administrative approval.

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

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

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

See Attachments A and B.

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

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

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

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

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

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

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

The casing program is 8-5/8", 24# surface casing run to 324' KB, and 5-1/2", 15.5# casing run from surface to 6000' 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 1768 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 #15-18-9-16, for existing perforations (4584' - 5658') calculates at 0.75 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 1768 psig. We may add additional perforations between 3570' and 6020'. 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 #15-18-9-16, the proposed injection zone (3897' - 5959') is in the Garden Gulch to the Basal Carbonate of the Green River Formation. The reservoir is a very fine-grained sandstone with minor imbedded shale streaks. The estimated porosity is 13%. The members are composed of porous and permeable lenticular calcareous sandstone and low porosity carbonates and calcareous shale. The porous and lenticular sandstone varies in thickness from 0-31' and is confined to the Monument Butte Federal Field. Outside the Monument Butte Federal Field, the sandstone is composed of tight, very fine, silty, calcareous sandstone, less than 3' thick. The stratum confining the injection zone is composed of tight, moderately calcareous, sandy lacustrine shale. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

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

See Attachments E through E-11.

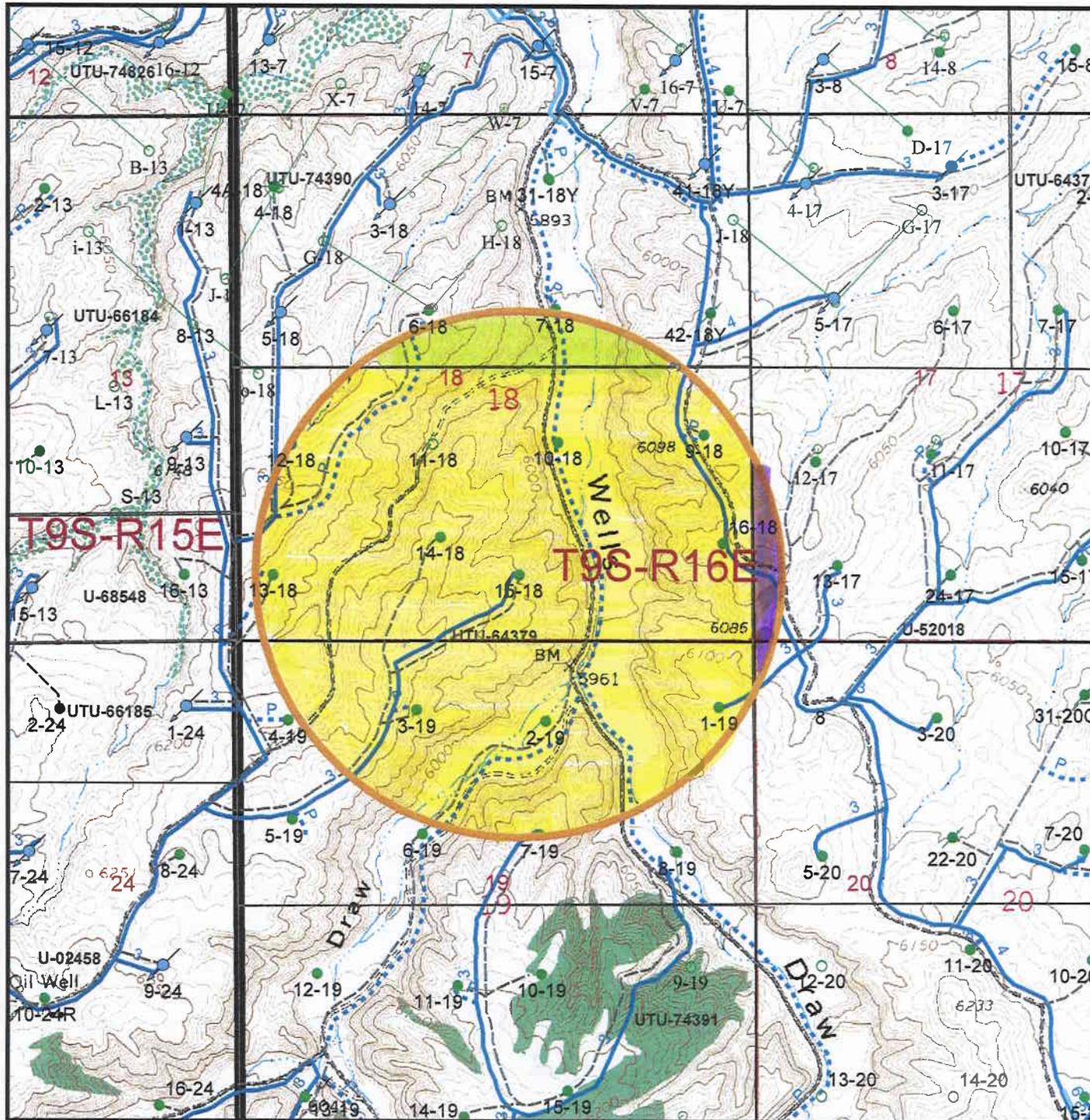
Additionally, the injection system will be equipped with high and low pressure shut down devices that will automatically shut in injection waters if a system blockage or leakage occurs. One way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure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

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

See Attachment C.

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

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



**WellStatus\_HalfMile\_Buffer**

**Well Status**

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

**Injection system**

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

**Leases**

- Leases
- Mining tracts

UTU-64379

UTU-74390

UTU-52018

Federal 15-18  
Section 18, T9S-R16E

**NEWFIELD**

ROCKY MOUNTAINS 1 in = 1,500 feet

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

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

March 13, 2012



**EXHIBIT B**

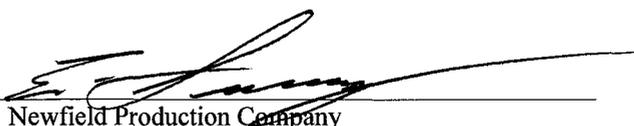
<b>#</b>	<b>Legal Description</b>	<b>Lessor &amp; Expiration</b>	<b>Lessee &amp; Operating Rights</b>	<b>Surface Owner</b>
1	T9S-R16E SLM Section 8: SWNE, SE Section 9: SWSW Section 17: NE Section 18: E2SW, SE, LOTS 3,4 Section 19: NE, E2NW, LOTS 1,2 Section 21: N2 Section 22: W2NE, SENE, NW	USA UTU-64379 HBP	Newfield Production Company Newfield RMI LLC Yates Petroleum Corp	USA
2	T9S-R16E SLM Section 6: All Section 7: All Section 8: W2 Section 17: NW Section 18: NE, E2NW, Lots 1,2	USA UTU-74390 HBP	Newfield Production Company Newfield RMI LLC ABO Petroleum Corp MYCO Industries Inc OXY Y-1 Company Yates Petroleum Corp	
3	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 #15-18-9-16

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  
Regulatory Lead

Sworn to and subscribed before me this 14<sup>th</sup> day of June, 2012.

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

My Commission Expires: 02/10/2013



## FEDERAL 15-18-9-16

Spud Date: 09/18/07  
 Put on Production: 10/16/07  
 GL: 6049' KB: 6061'

Initial Production: BOPD,  
 MCFD, BWPD

Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (312.36')  
 DEPTH LANDED: 324.21' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 1- 160, 2-300 sxs Class "G" cmt, est 7 bbls cmt to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 154 jts. (5986.37')  
 DEPTH LANDED: 5999.62' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
 CEMENT TOP: 30'

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55  
 NO. OF JOINTS: 182 jts (5610.75')  
 TUBING ANCHOR: 5610.75' KB  
 NO. OF JOINTS: 2 jts (62.42')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5675.97' KB  
 NO. OF JOINTS: 2 jts (61.58')  
 TOTAL STRING LENGTH: EOT @ 5739.10' KB

### SUCKER RODS

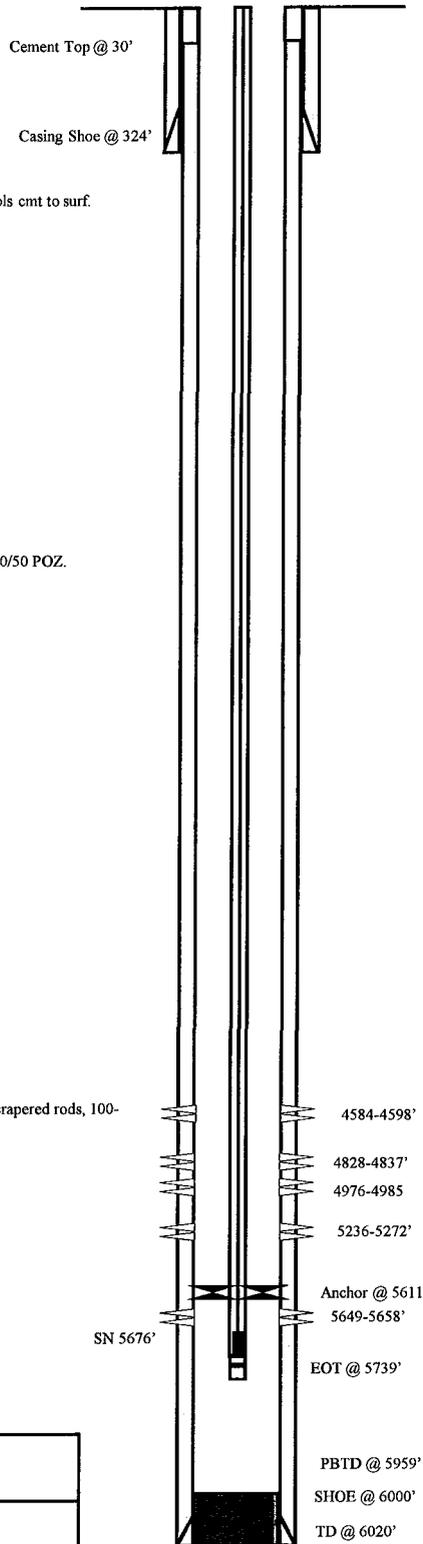
POLISHED ROD: 1-1/2" x 26' SM polished rods  
 SUCKER RODS: 1-2', & 1-6' x 3/4" pony rods, 100-3/4" scraped rods, 100-3/4" plain rods, 20-3/4" scraped rods, 6-1 1/2" weight rods.  
 PUMP SIZE: CDI 2-1/2" x 1-1/2" x 14' x 18 1/2" RHAC  
 STROKE LENGTH: 102"  
 PUMP SPEED, 4.5 SPM:

### FRAC JOB

10/11/07	5649-5658'	<b>Frac CP3 sands as follows:</b> 15067# 20/40 sand in 290 bbls Lightning 17 frac fluid. Treated @ avg press of 2158 psi w/avg rate of 24.8 BPM. ISIP 1805 psi. Calc flush: 5647 gal. Actual flush: 5166 gal.
10/11/07	5236-5272'	<b>Frac LODC sands as follows:</b> 159885# 20/40 sand in 1115 bbl Lightning 17 frac fluid. Treated @ avg press of 1955 psi w/avg rate of 24.8 BPM. ISIP 2340 psi. Calc flush: 5234 gal. Actual flush: 4746 gal.
10/11/07	4976-4985'	<b>Frac A1 sands as follows:</b> 34607# 20/40 sand in 423 bbls Lightning 17 frac fluid. Treated @ avg press of 2543 psi w/avg rate of 29.9 BPM. ISIP 3582 psi. Calc flush: 4974 gal. Actual flush: 4494 gal.
10/11/07	4828-4837'	<b>Frac B1 sands as follows:</b> 15082# 20/40 sand in 267 bbls Lightning 17 frac fluid. Treated @ avg press of 2075 psi w/avg rate of 24.8 BPM. ISIP 1935 psi. Calc flush: 4826 gal. Actual flush: 4326 gal.
10/11/07	4584-4598'	<b>Frac D1 sands as follows:</b> 47763# 20/40 sand in 455 bbls Lightning 17 frac fluid. Treated @ avg press of 1975 psi w/avg rate of 24.8 BPM. ISIP 2078 psi. Calc flush: 4582 gal. Actual flush: 4491 gal.
12-31-07		Pump Change. Updated rod & tubing details.

### PERFORATION RECORD

10/11/07	4584-4598'	4 JSPF	56 holes
10/11/07	4828-4837'	4 JSPF	36 holes
10/11/07	4976-4985'	4 JSPF	36 holes
10/11/07	5236-5272'	4 JSPF	144 holes
10/11/07	5649-5658'	4 JSPF	36 holes



**NEWFIELD**

**BELUGA FEDERAL 15-18-9-16**

657'FSL & 2350' FEL

SW/SE Section 18-T9S-R16E

Duchesne Co, Utah

API #43-013-33001; Lease # UTU-64379

## FED. 9-18-9-16

Spud Date: 7/31/08  
Put on Production: 9/23/08

GL: 5306' KB: 5318'

### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts (296.14')  
DEPTH LANDED: 307.99'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: To surface with 160 sx Class 'G' cmt

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 153 jts (6222.42')  
DEPTH LANDED: 6076.98'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 350 sx Premite II and 450 sx 50/50 poz  
CEMENT TOP : 137'

#### TUBING

SIZE/GRADE/WT.: 2 7/8 J-55  
NO. OF JOINTS: 170 jts 5347'  
TUBING ANCHOR: 5359' KB  
NO. OF JOINTS: 2 jts 62.5'  
SEATING NIPPLE: 1.10'  
SN LANDED AT: 5424.3'  
NO. OF JOINTS: 2 jts. 63'  
TOTAL STRING LENGTH: 5489' W/ 12' KB

#### SUCKER RODS

POLISHED ROD: 1 1/2" X 26' polished rod  
SUCKER RODS: 1-6" X 3/4" pony rod, 99-3/4"=2475' guided rods, 62-3/4"=1550' sucker rods, 50-3/4"=1250' guided rods, 6-1 1/2"=150' weight rods, 1-1"=2.5' sinker bar.  
PUMP SIZE: CDI 2 1/2"x1 1/4" x 12' x 16' RHAC pump  
STROKE LENGTH: 72"  
PUMP SPEED, SPM: 5

#### FRAC JOB

9/18/07 5394-5415' **Frac LODC sds as follows:**  
85,173#'s of 20/40 sand in 688 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2345 psi w/ ave rate of 24.8 BPM. ISIP 2500 psi.

9/18/07 5166-5182' **Frac A3 sds as follows:**  
98,499#'s of 20/40 sand in 773 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1870 psi w/ ave rate of 24.8 BPM. ISIP 2315 psi.

05/28/08 Pump change. Updated rod and tubing details

8/25/08 5052-5064' **RU BJ & frac A.5 sds as follows:**  
49,743#'s of 20/40 sand in 459 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2143 w/ ave rate of 22.9 bpm w/ 8 ppg of sand. ISIP was 2486.

8/25/08 4958-4962' **RU BJ & frac stage #2 as follows:**  
29,943#'s of 20/40 sand in 390 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 1986 w/ ave rate of 23 bpm w/ 6 ppg of sand. ISIP was 1955.

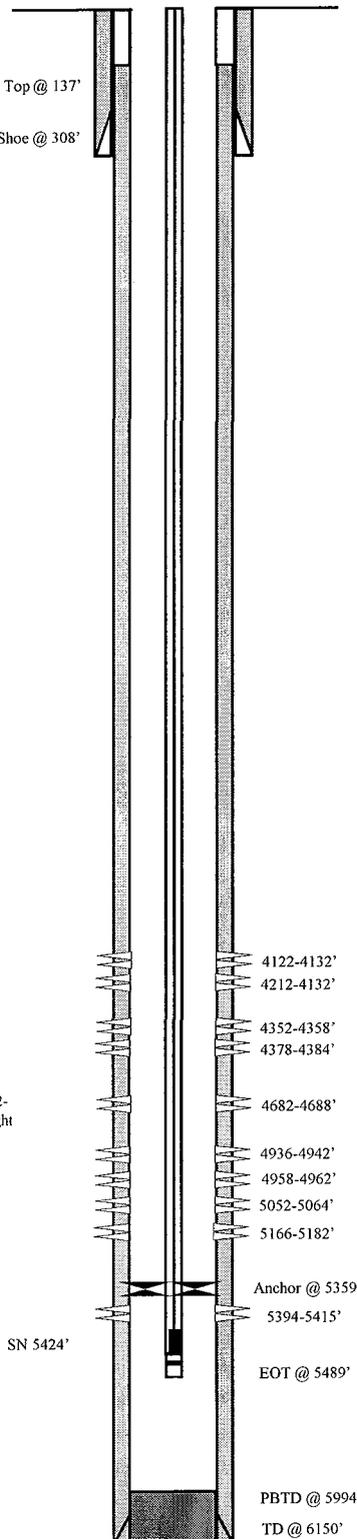
8/25/08 4682-4688' **RU BJ & frac stage #3 as follows:**  
24,780#'s of 20/40 sand in 344 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 1984 w/ ave rate of 23 bpm w/ 6 ppg of sand. ISIP was 2000.

8/25/08 4352-4358' **RU BJ & frac stage #4 as follows:**  
40,471#'s of 20/40 sand in 390 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2224 w/ ave rate of 23 bpm w/ 8 ppg of sand. ISIP was 2177.

8/25/08 4212-4226' **RU BJ & frac stage #5 as follows:**  
40,033#'s of 20/40 sand in 391 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 1474 w/ ave rate of 23 bpm w/ 8 ppg of sand. ISIP was 1715.

8/25/08 4122-4132' **RU BJ & frac stage #5 as follows:**  
40,033#'s of 20/40 sand in 391 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 1474 w/ ave rate of 23 bpm w/ 8 ppg of sand. ISIP was 1715.

6/12/09 **Tubing Leak.** Updated rod & tubing details.  
11/18/2010 **Pump Change.** Update rod and tubing details  
11/29/2011 **Pump Change.** Updated rod & tubing detail.  
2/17/12 **Pump Change:** updated rod & tubing detail



#### PERFORMANCE RECORD

Date	Interval	Stages	Holes
8/25/08	4122-4132'	4 JSPF	40 holes
8/25/08	4212-4226'	4 JSPF	56 holes
8/25/08	4352-4358'	4 JSPF	24 holes
8/25/08	4378-4384'	4 JSPF	24 holes
8/25/08	4682-4688'	4 JSPF	24 holes
8/25/08	4958-4962'	4 JSPF	16 holes
8/25/08	4936-4942'	4 JSPF	24 holes
8/22/08	5052-5064'	4 JSPF	48 holes
9/18/07	5166-5182'	4 JSPF	84 holes
9/18/07	5394-5415'	4 JSPF	84 holes



FED. 9-18-9-16

2054' FSL & 470' FEL

NE/SE Section 18-T9S-R16E

Duchesne Co, Utah

API #43-013-32920; Lease # UTU-64379

## FEDERAL 10-18-9-16

Spud Date: 05/18/07  
 Put on Production: 6/21/07  
 GL: 5921' KB: 5933'

Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (314.33')  
 DEPTH LANDED: 324.33' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, circ 2 bbls to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 135 jts. (5900.07')  
 DEPTH LANDED: 5882.14' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 325 sxs Prem. Lite II mixed & 425 sxs 50/50 POZ.  
 CEMENT TOP: 17' per CBL 6/13/7

### TUBING (GI 6/21/07)

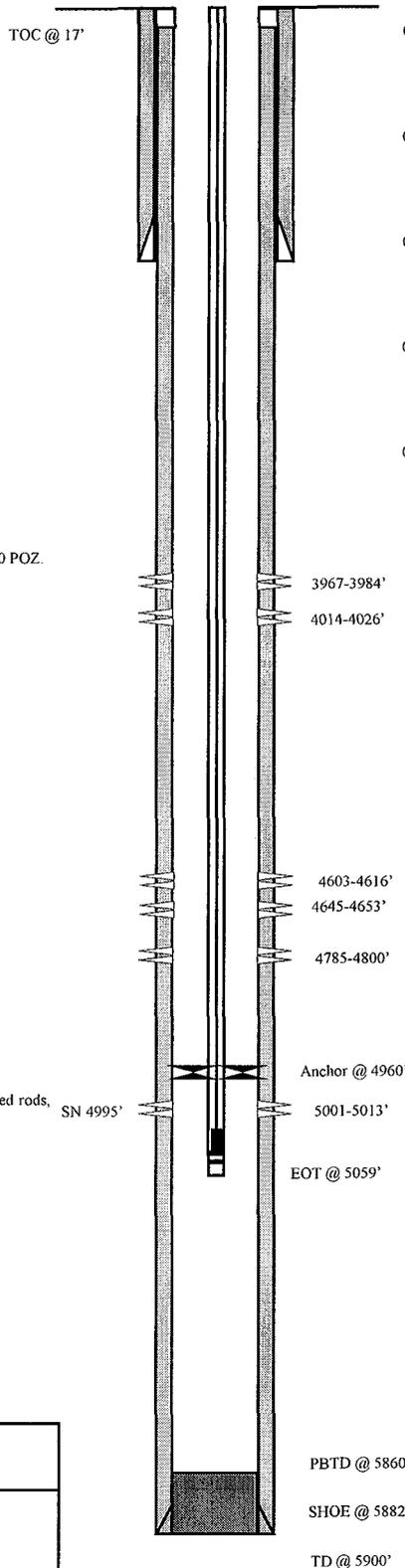
SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 159 jts (4960.31')  
 TUBING ANCHOR: 4960.3' KB  
 NO. OF JOINTS: 1 jt (31.70')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4994.80' KB  
 NO. OF JOINTS: 2 jts (63.10')  
 TOTAL STRING LENGTH: EOT @ 5059' KB

### SUCKER RODS (GI 2/23/10)

POLISHED ROD: 1-1/2" x 26' SM polished rods  
 SUCKER RODS: 1-2", 1-4", 1-6" x 3/4" pony rods, 99-3/4" guided rods, 74-3/4" sucker rods, 20-3/4" guided rods, 6-1 1/2" weight rods.  
 PUMP SIZE: CDI 2-1/2" x 1-1/2" x 16' X 21' RHAC  
 STROKE LENGTH: 102.5"  
 PUMP SPEED, SPM: 5  
 PUMPING UNIT: DARCO C-320-256-120

### FRAC JOB

06/18/07	5001-5013'	<b>Frac A3 sands as follows:</b> 50726# 20/40 sand in 445 bbls Lightning 17 frac fluid. Treated @ avg press of 3230 psi w/avg rate of 24.2 BPM. ISIP 3789 psi. Calc flush: 4999 gal. Actual flush: 4536 gal.
06/18/07	4785-4800'	<b>Frac B2 sands as follows:</b> 70146# 20/40 sand in 555 bbls Lightning 17 frac fluid. Treated @ avg press of 3230 psi w/avg rate of 24.2 BPM. ISIP 2160 psi. Calc flush: 4783 gal. Actual flush: 4326 gal.
06/18/07	4603-4653'	<b>Frac D3&amp;C sands as follows:</b> 46884# 20/40 sand in 409 bbls Lightning 17 frac fluid. Treated @ avg press of 3230 psi w/avg rate of 24.2 BPM. ISIP 2165 psi. Calc flush: 4601 gal. Actual flush: 4116 gal.
06/18/07	3967-4026'	<b>Frac GB4&amp;6 sands as follows:</b> 106590# 20/40 sand in 762 bbls Lightning 17 frac fluid. Treated @ avg press of 1767 psi w/avg rate of 24.8 BPM. ISIP 1980 psi. Calc flush: 3965 gal. Actual flush: 3864 gal.
02/25/10		Pump Change. Rod & Tubing updated



### PERFORATION RECORD

06/12/07	5001-5013'	4 JSPF	48 holes
06/18/07	4785-4800'	4 JSPF	60 holes
06/18/07	4645-4653'	4 JSPF	32 holes
06/18/07	4603-4616'	4 JSPF	52 holes
06/18/07	4014-4026'	4 JSPF	48 holes
06/18/07	3967-3984'	4 JSPF	68 holes



**FEDERAL 10-18-9-16**

1988'FSL & 1938' FEL

NW/SE Section 18-T9S-R16E

Duchesne Co, Utah

API #43-013-32921; Lease # UTU-64379

Federal 12-18-9-16

Spud Date: 10-11-07  
 Put on Production: 11-9-07  
 GL: 6120' KB: 6132'

Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (309')  
 HOLE SIZE: 12-1/4"  
 DEPTH LANDED: 320.05'  
 CEMENT DATA: 160 sxs Class "G" cmt

**PRODUCTION CASING**

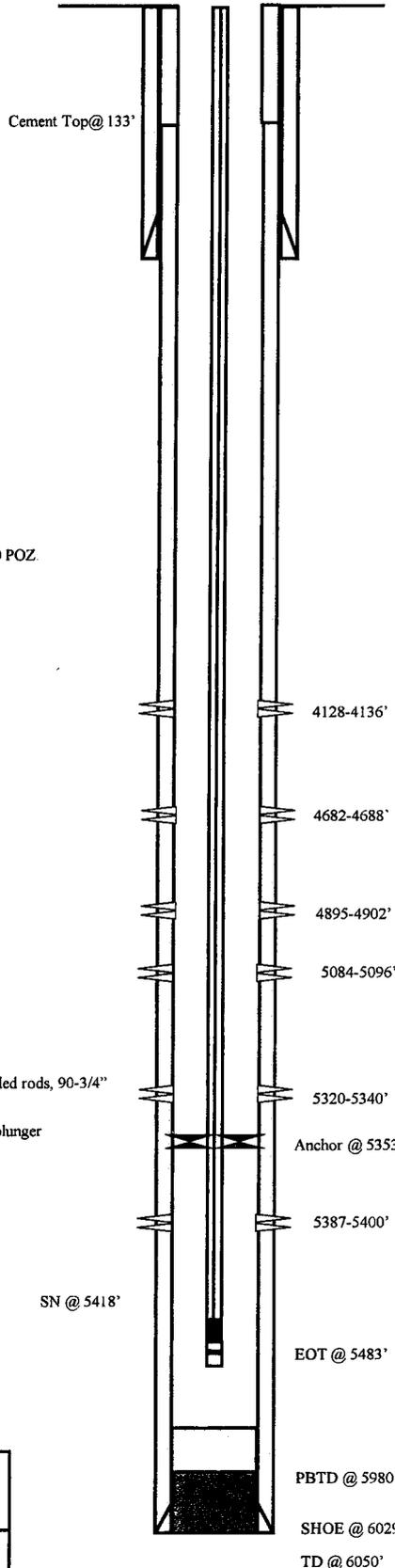
CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 155 jts. (6015') Includes Shoe Jt. (39.35')  
 HOLE SIZE: 7-7/8"  
 DEPTH LANDED: 6029'  
 CEMENT DATA: 300 sk Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP AT: 133'

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 172 jts (5341.4')  
 TUBING ANCHOR: 5353.4'  
 NO. OF JOINTS: 2 jts (62.6')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5418.8' KB  
 NO. OF JOINTS: 2 jts (62.2')  
 TOTAL STRING LENGTH: EOT @ 5483'

**SUCKER RODS**

POLISHED ROD: 1-1/2" x 26'  
 SUCKER RODS: 1-2', 1-4', 1-8 x 3/4" pony rod, 99-3/4" guided rods, 90-3/4" sucker rods, 20-3/4" guided rods, 6-1" weight rods  
 PUMP SIZE: 2-1/2" x 1-1/2" x 16" X 20" RHAC pump w/SM plunger  
 STROKE LENGTH: 102"  
 PUMP SPEED, SPM: 5



**FRAC JOB**

- 11-1-07 5320-5400' **Frac LODC sands as follows:**  
 218,841# 20/40 sand in 1483 bbls  
 Lightning 17 fluid. Treat at 2227 psi @  
 24.8 BPM. ISIP 2451/psi. Calc flush:  
 5318 gal. Actual flush: 4813 gal.
- 11-6-07 5084-5096' **Frac A1 sands as follows:**  
 45,166# 20/40 sand in 448 bbls Lightning  
 17 fluid. Treat at 2174 psi @ 24.8  
 BPM. ISIP 2509 psi. Calc flush: 5082  
 gal. Actual flush: 4578 gal.
- 11-6-07 4895-4902' **Frac B.5 sands as follows:**  
 Frac with 25,406 # 20/40 sand in 352  
 bbls Lightning 17 fluid. Treat at 2034 psi  
 @ 24.8BPM. ISIP 1836 psi. Calc  
 flush: 4893 gal. Actual flush: 4989 gal.
- 11-6-07 4682-4688' **Frac D1 sand as follows:**  
 Frac with 15,5400 # 20/40 sand in 264  
 bbls Lightning 17 fluid. Treat at 2207 psi  
 @ 24.8 BPM. ISIP 2197 psi. Calc  
 flush: 4680 gal. Actual flush: 4175 gal.
- 11-6-07 4128-4136' **Frac GB-2 sands as follows:**  
 Frac with 28,328 # 20/40 sand in 368  
 bbls Lightning 17 fluid. Treat at 1986 psi  
 @ 24.9 BPM. ISIP 2058 psi. Calc  
 flush: 4126 gal. Actual flush: 4032 gal.
- 3/15/12 Tubing Leak: Updated rod & tubing  
 detail

**PERFORATION RECORD**

4128-4136'	4 JSPF	32 holes
4682-4688'	4 JSPF	24 holes
4895-4902'	4 JSPF	28 holes
5084-5096'	4 JSPF	48 holes
5320-5340'	4 JSPF	80 holes
5387-5400'	4 JSPF	52 holes

**NEWFIELD**

Federal 12-18-9-16  
 1980' FSL & 560' FWL  
 NWSW Section 18-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-32998; Lease #UTU-64379

## FEDERAL 13-18-9-16

Spud Date: 10/04/07  
 Put on Production: 11/02/07  
 GL: 6126' KB: 6138'

### Injection Wellbore Diagram

#### SURFACE CASING

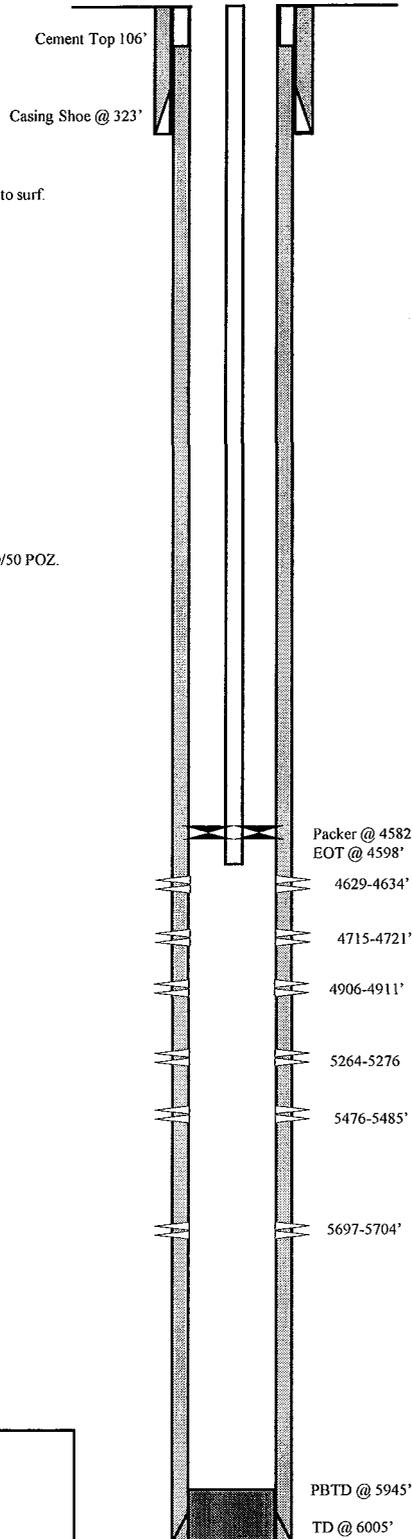
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (312.56')  
 DEPTH LANDED: 323.46' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 1- 160, sxs Class "G" cmt, est 5 bbls cmt to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 154 jts. (5971.92')  
 DEPTH LANDED: 5985.17' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP: 106'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 148 jts (4577.3')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4589.3' KB  
 CE @ 4581.62'  
 TOTAL STRING LENGTH: EOT @ 4598' KB



#### FRAC JOB

10/30/07	5697-5704'	<b>Frac CP3 sands as follows:</b> 14620# 20/40 sand in 297 bbls Lightning 17 frac fluid. Treated @ avg press of 1905 psi w/avg rate of 24.8 BPM. ISIP 1650 psi. Calc flush: 5695 gal. Actual flush: 5191 gal.
10/30/07	5476-5485'	<b>Frac LODC sands as follows:</b> 14860# 20/40 sand in 283 bbls Lightning 17 frac fluid. Treated @ avg press of 2275 psi w/avg rate of 24.8 BPM. ISIP 2160 psi. Calc flush: 5474 gal. Actual flush: 4969 gal.
10/30/07	5264-5276'	<b>Frac LODC sands as follows:</b> 84724# 20/40 sand in 672 bbls Lightning 17 frac fluid. Treated @ avg press of 1940 psi w/avg rate of 24.8 BPM. ISIP 2205 psi. Calc flush: 5262 gal. Actual flush: 4759 gal.
10/30/07	4906-4911'	<b>Frac B2 sands as follows:</b> 19569# 20/40 sand in 313 bbls Lightning 17 frac fluid. Treated @ avg press of 2260 psi w/avg rate of 24.8 BPM. ISIP 1845 psi. Calc flush: 4904 gal. Actual flush: 4402 gal.
10/30/07	4715-4721'	<b>Frac D3 sands as follows:</b> 24711# 20/40 sand in 342 bbls Lightning 17 frac fluid. Treated @ avg press of 1960 psi w/avg rate of 24.8 BPM. ISIP 1890 psi. Calc flush: 4713 gal. Actual flush: 4250 gal.
10/30/07	4629-4634'	<b>Frac D1 sands as follows:</b> 17447# 20/40 sand in 270 bbls Lightning 17 frac fluid. Treated @ avg press of 2298 psi w/avg rate of 24.8 BPM. ISIP 2150 psi. Calc flush: 4627 gal. Actual flush: 4536 gal.
12/15/10		<b>Tubing Leak.</b> Rod & tubing updated.
8/29/11		<b>Tubing Leak.</b> Rod & tubing detail updated.
04/11/12		<b>Convert to Injection Well</b>
04/17/12		<b>Conversion MIT Finalized</b> - update tbg detail

#### PERFORATION RECORD

10/25/07	5697-5704'	4 JSPF	28 holes
10/30/07	5476-5485'	4 JSPF	36 holes
10/30/07	5264-5276'	4 JSPF	48 holes
10/30/07	4906-4911'	4 JSPF	20 holes
10/30/07	4715-4721'	4 JSPF	24 holes
10/30/07	4629-4634'	4 JSPF	20 holes



### FEDERAL 13-18-9-16

674' FSL & 364' FWL  
 SW/SW Section 18-T9S-R16E  
 Duchesne Co, Utah

API #43-013-32999; Lease # UTU-64379

## FEDERAL 14-18-9-16

Spud Date: 09/17/07  
 Put on Production: 10/26/07  
 GL: 6117' KB: 6129'

Initial Production: BOPD,  
 MCFD, BWPD

Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (309.62')  
 DEPTH LANDED: 321.47' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 1- 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. (5943.54')  
 DEPTH LANDED: 5956.79' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP: 114'

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 169 jts (5256.4')  
 TUBING ANCHOR: 5268.4' KB  
 NO. OF JOINTS: 2 jts (60.80')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5332.0' KB  
 NO. OF JOINTS: 2 jts (61.60')  
 TOTAL STRING LENGTH: EOT @ 5396' KB

### SUCKER RODS

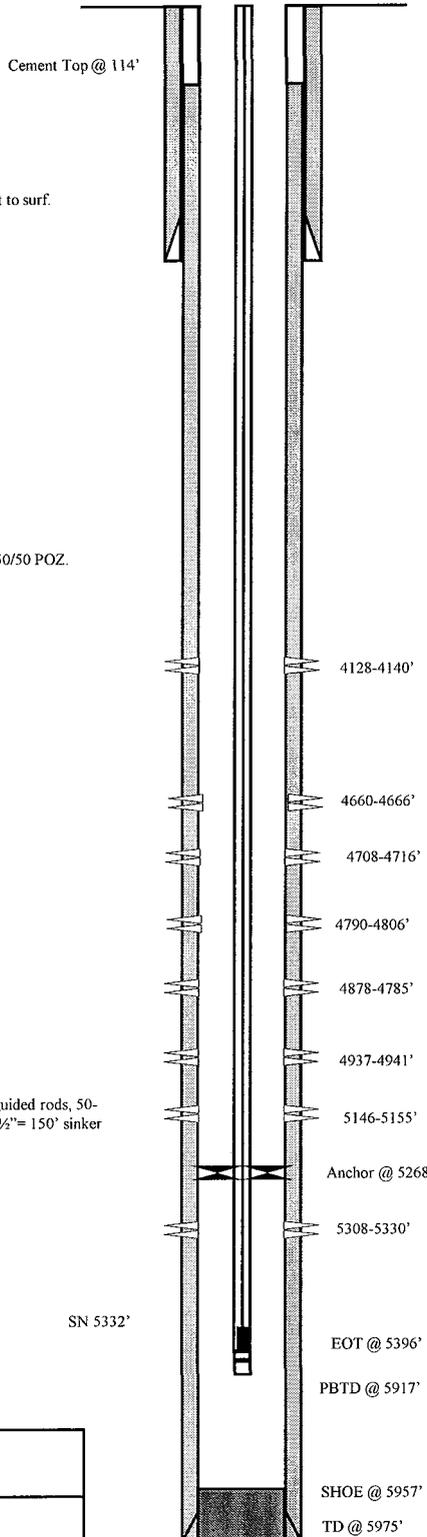
POLISHED ROD: 1-1/2" x 26' SM polished rods  
 SUCKER RODS: 1- 2' x 3/4" pony rods, 100-3/4" = 2500' guided rods, 50-3/4" = 1250' guided rods, 56-3/4" = 1400' guided rods, 6-1 1/2" = 150' sinker rods.  
 PUMP SIZE: CDI 2-1/2" x 1-1/4" x 14' x 18' RHAC  
 STROKE LENGTH: 102"  
 PUMP SPEED, 5 SPM:

### FRAC JOB

10/17/07	5308-5330'	<b>Frac LODC sands as follows:</b> 100563# 20/40 sand in 746 bbls Lightning 17 frac fluid. Treated @ avg press of 1698 psi w/avg rate of 23 BPM. ISIP 2105 psi. Calc flush: 5306 gal. Actual flush: 4796 gal.
10/17/07	5146-5155'	<b>Frac A3 sands as follows:</b> 60790# 20/40 sand in 549 bbl Lightning 17 frac fluid. Treated @ avg press of 2146 psi w/avg rate of 23 BPM. ISIP 2344 psi. Calc flush: 5144 gal. Actual flush: 2344 gal.
10/17/07	4878-4941'	<b>Frac B2 &amp; B.5 sands as follows:</b> 24732# 20/40 sand in 353 bbls Lightning 17 frac fluid. Treated @ avg press of 2039 psi w/avg rate of 23 BPM. ISIP 1949 psi. Calc flush: 4876 gal. Actual flush: 4389 gal.
10/17/07	4790-4806'	<b>Frac C sands as follows:</b> 95455# 20/40 sand in 728 bbls Lightning 17 frac fluid. Treated @ avg press of 1858 psi w/avg rate of 23 BPM. ISIP 1858 psi. Calc flush: 4788 gal. Actual flush: 4305 gal.
10/17/07	4660-4716'	<b>Frac D1 &amp; D2 sands as follows:</b> 70174# 20/40 sand in 571 bbls Lightning 17 frac fluid. Treated @ avg press of 2111 psi w/avg rate of 23 BPM. ISIP 2427 psi. Calc flush: 4658 gal. Actual flush: 4154 gal.
10/17/07	4128-4140'	<b>Frac GB4 sands as follows:</b> 88281# 20/40 sand in 658 bbls Lightning 17 frac fluid. Treated @ avg press of 1695 psi w/avg rate of 23 BPM. ISIP 1814 psi. Calc flush: 4126 gal. Actual flush: 4032 gal.
	4128-4140'	Hole in tubing. Rod & tubing updated.
	11/07/10	Pump change. Rod & Tubing updated
	7/13/2011	Tubing leak. Rod & tubing updated.

### PERFORATION RECORD

10/15/07	5308-5330'	4 JSPF	88 holes
10/17/07	5146-5155'	4 JSPF	36 holes
10/17/07	4937-4941'	4 JSPF	16 holes
10/17/07	4878-4785'	4 JSPF	28 holes
10/17/07	4790-4806'	4 JSPF	64 holes
10/17/07	4708-4716'	4 JSPF	32 holes
10/17/07	4660-4666'	4 JSPF	24 holes
10/17/07	4128-4140'	4 JSPF	48 holes





**FEDERAL 14-18-9-16**

1040' FSL & 2047' FWL

SE/SW Section 18-T9S-R16E

Duchesne Co, Utah

API #43-013-33000; Lease # UTU-64379

## FEDERAL 16-18-9-16

Spud Date: 06/27/07  
 Put on Production: 09/13/07  
 GL: 6111' KB: 6123'

Initial Production: BOPD,  
 MCFD, BWPD

Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (305.53')  
 DEPTH LANDED: 317.38' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, 5 bbls cmt to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 139 jts. (6028.19')  
 DEPTH LANDED: 6041.44' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP: 70'

### TUBING

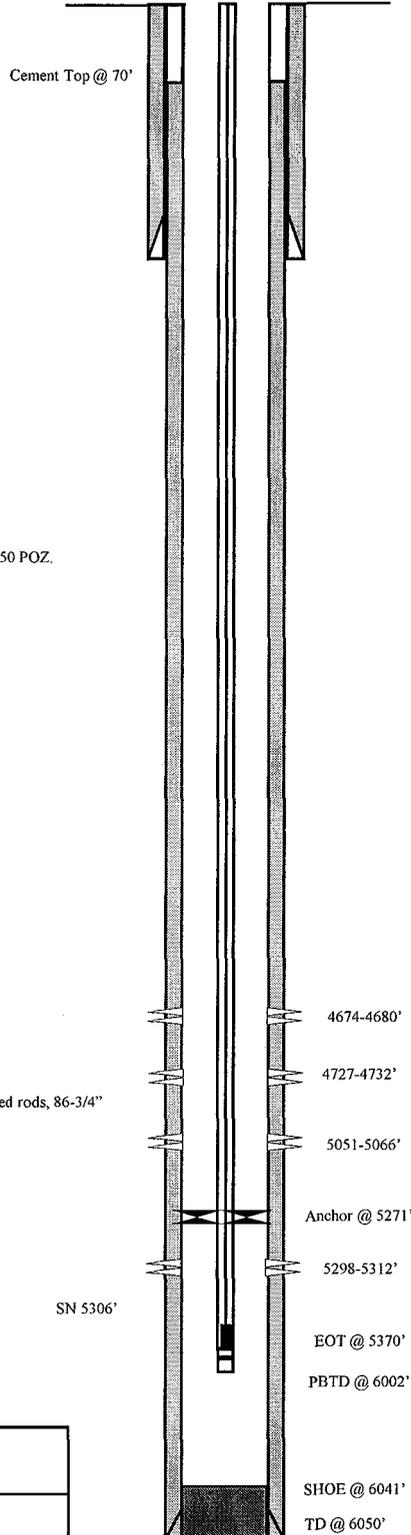
SIZE/GRADE/WT.: 2-7/8" / J-55  
 NO. OF JOINTS: 167 jts (5259.32')  
 TUBING ANCHOR: 5271.32' KB  
 NO. OF JOINTS: 1 jts (31.54')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5305.66' KB  
 NO. OF JOINTS: 2 jts (62.65')  
 TOTAL STRING LENGTH: EOT @ 5369.86' KB

### SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM polished rods  
 SUCKER RODS: 1-2", & 1-8" x 3/4" pony rods, 99-3/4" guided rods, 86-3/4" slick rods, 20-3/4" guided rods, 6-1/2" weight rods.  
 PUMP SIZE: CDI 2-1/2" x 1-1/2" x 12 x 15 RHAC  
 STROKE LENGTH: 86"  
 PUMP SPEED, 5 SPM:

### FRAC JOB

09/10/07	5704-5716'	<b>Frac LODC sands as follows:</b> 49689# 20/40 sand in 465 bbls Lightning 17 frac fluid. Treated @ avg press of 1986 psi w/avg rate of 24.7 BPM. ISIP 2376 psi. Calc flush 5702 gal. Actual flush: 4830 gal.
09/10/07	5051-5066'	<b>Frac A1 sands as follows:</b> 79844# 20/40 sand in 628 bbls Lightning 17 frac fluid. Treated @ avg press of 2030 psi w/avg rate of 24.8 BPM. ISIP 2400 psi. Calc flush: 4999 gal. Actual flush: 4578 gal.
09/12/07	4674-4732'	<b>Frac D2 &amp; D1 sands as follows:</b> 31828# 20/40 sand in 394 bbls Lightning 17 frac fluid. Treated @ avg press of 1974 psi w/avg rate of 24.8 BPM. ISIP 1974 psi. Calc flush: 4672 gal. Actual flush: 4578 gal.
1-10-08		Pump Change. Updated rod & tubing details.
1/14/09		Pump Change. Updated rod & tubing details.



### PERFORATION RECORD

09/11/07	5298-5312'	4 JSPF	56 holes
09/11/07	5051-5066'	4 JSPF	60 holes
09/11/07	4727-4732'	4 JSPF	20 holes
09/11/07	4674-4680'	4 JSPF	24 holes

**NEWFIELD**

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**FEDERAL 16-18-9-16**

964'FSL & 297' FEL

SE/SE Section 18-T9S-R16E

Duchesne Co, Utah

API #43-013-32922; Lease # UTU-64379

## Federal 1-19-9-16

Spud Date: 7-25-07  
Put on Production: 09-11-07

GL: 6123' KB: 6135'

### SURFACE CASING

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

### PRODUCTION CASING

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

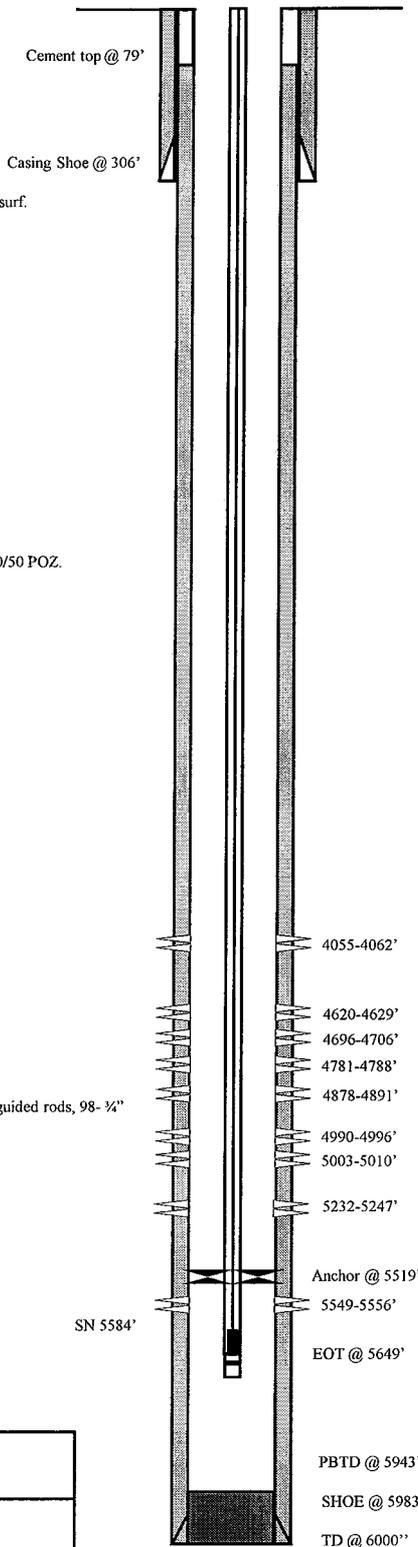
### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 175 jts (5506.57')  
TUBING ANCHOR: 5518.57' KB  
NO. OF JOINTS: 2 jts (62.81')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5584.18' KB  
NO. OF JOINTS: 2 jts (62.98')  
TOTAL STRING LENGTH: EOT @ 5648.71' KB

### SUCKER RODS

POLISHED ROD: 1-1/2" x 26' SM  
SUCKER RODS: 1-2', 1-4', & 1-8' x 3/4" pony rods, 98- 3/4" guided rods, 98- 3/4" slick rods, 20- 3/4" guided rods, 6-1 1/2" weight rods.  
PUMP SIZE: 2-1/2" x 1-1/2" x 18" RHAC w/SM plunger  
STROKE LENGTH: 102"  
PUMP SPEED, SPM: 5 SPM

### Wellbore Diagram



Initial Production: BOPD,  
MCFD, BWPD

### FRAC JOB

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

### PERFORATION RECORD

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



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

## Federal 2-19-9-16

Spud Date: 5/21/2009  
 Put on Production: 6/30/2009  
 GL: 5966' KB: 5978'

Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (276')  
 DEPTH LANDED: 328'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 220 sxs Class "G" cmt

### PRODUCTION CASING

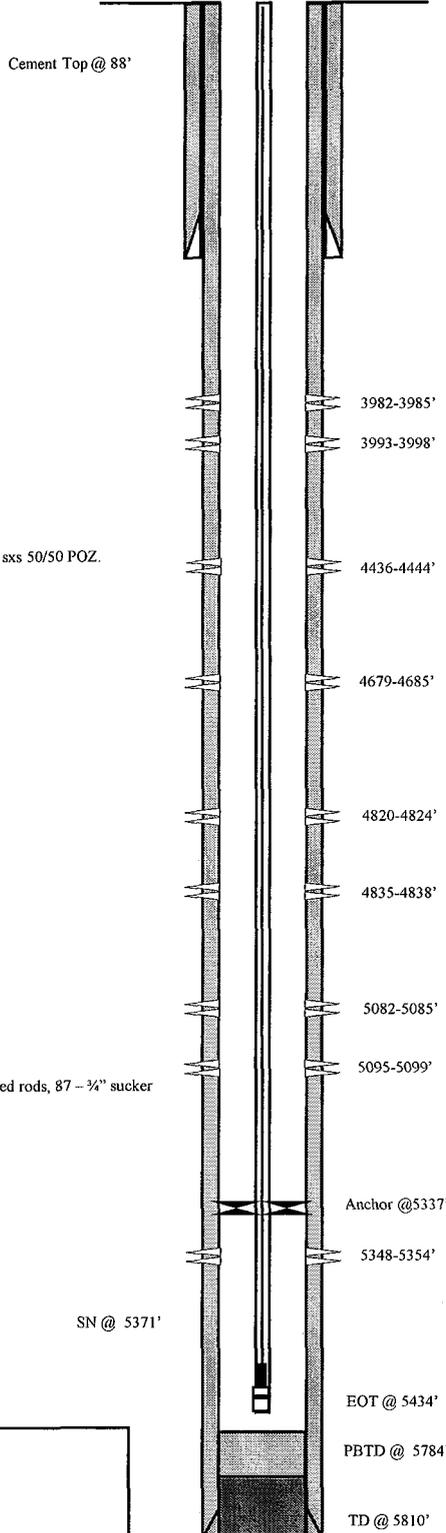
CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 145 jts. (5772')  
 HOLE SIZE: 7-7/8"  
 TOTAL DEPTH: 5799.81'  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP AT: 88'

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 173 jts (5325')  
 TUBING ANCHOR: 5337'  
 NO. OF JOINTS: 1 jts (30.9')  
 SEATING NIPPLE: 2-7/8" (1.1')  
 SN LANDED AT: 5371' KB  
 NO. OF JOINTS: 2 jts (61.7')  
 TOTAL STRING LENGTH: EOT @ 5434'

### SUCKER RODS

POLISHED ROD: 1-1/2" x 26'  
 SUCKER RODS: 1 - 4' x 3/4" pony rods, 101 - 3/4" guided rods, 87 - 3/4" sucker rods, 20 - 3/4" guided rods, 6 - 1 1/2" weight bars  
 PUMP SIZE: 2 1/2 x 1 1/2 x 20" RHAC  
 STROKE LENGTH: 100  
 PUMP SPEED: SPM 5



### FRAC JOB

7-1-09	5348-5354'	Frac CP1 sands as follows: Frac with 19980# 20/40 sand in 165 bbls Lightning 17 fluid.
7-1-09	5082-5099'	Frac LODC sands as follows: Frac with 25225# 20/40 sand in 207 bbls Lightning 17 fluid.
7-1-09	4820-4838'	Frac A1 sands as follows: Frac with 25225# 20/40 sand in 206 bbls Lightning 17 fluid.
7-1-09	4679-4685'	Frac B1 sands as follows: Frac with 31161# 20/40 sand in 248 bbls Lightning 17 fluid.
7-1-09	4436-4444'	Frac D1 sands as follows: Frac with 81584# 20/40 sand in 472 bbls Lightning 17 fluid.
7-1-09	3982-3998'	Frac GB6 sands as follows: Frac with 85303# 20/40 sand in 491 bbls Lightning 17 fluid.

### PERFORATION RECORD

5348-5354'	3 JSPF	18 holes
5095-5099'	3 JSPF	12 holes
5082-5085'	3 JSPF	9 holes
4835-4838'	3 JSPF	9 holes
4820-4824'	3 JSPF	12 holes
4679-4685'	3 JSPF	18 holes
4436-4444'	3 JSPF	24 holes
3993-3998'	3 JSPF	15 holes
3982-3985'	3 JSPF	9 holes



**NEWFIELD**

Federal 2-19-9-16  
 821' FNL & 2093' FEL NW/NE  
 Section 19-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33063; Lease #UTU-64379

## FEDERAL 3-19-9-16

Spud Date: 09/12/07  
 Put on Production: 10/11/07  
 GL: 6131' KB: 6143'

Initial Production: BOPD,  
 MCFD, BWPD

Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (312.15')  
 DEPTH LANDED: 324.27' 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: 153 jts. (5897.02')  
 DEPTH LANDED: 5945.27' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 440 sxs 50/50 POZ.  
 CEMENT TOP: 30'

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 168 jts (5188.32')  
 TUBING ANCHOR: 5188.3' KB  
 NO. OF JOINTS: 1 jts (31.11')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5222.2' KB  
 NO. OF JOINTS: 2 jts (61.63')  
 TOTAL STRING LENGTH: EOT @ 5297.41' KB

### SUCKER RODS

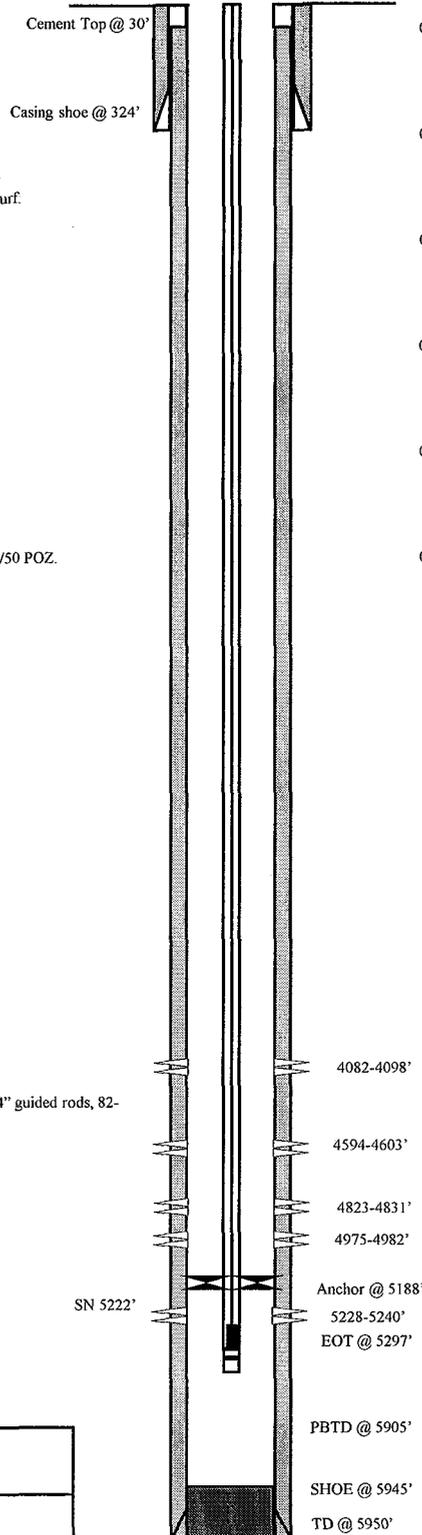
POLISHED ROD: 1-1/2" x 26' SM polished rods  
 SUCKER RODS: 1-2", 1-4' & 1- 8' x 3/4" pony rods, 100-3/4" guided rods, 82-3/4" sucker rods, 20-3/4" guided rods, 6-1 1/2" sinker bars.  
 PUMP SIZE: CDI 2-1/2" x 1-1/2" x 12x 15.5' RHAC  
 STROKE LENGTH: 74"  
 PUMP SPEED, 5 SPM:

### FRAC JOB

06/27/07	5228-5240'	<b>Frac LODC sands as follows:</b> 45550# 20/40 sand in 450 bbls Lightning 17 frac fluid. Treated @ avg press of 1899 psi w/avg rate of 24.7 BPM. ISIP 2160 psi. Calc flush: 5226 gal. Actual flush: 4746 gal.
06/27/07	4975-4982'	<b>Frac A1 sands as follows:</b> 24422# 20/40 sand in 350 bbls Lightning 17 frac fluid. Treated @ avg press of 2402 psi w/avg rate of 24.9 BPM. ISIP 2248 psi. Calc flush: 4973 gal. Actual flush: 4494 gal.
06/27/07	4823-4831'	<b>Frac B.5 sands as follows:</b> 29655# 20/40 sand in 390 bbls Lightning 17 frac fluid. Treated @ avg press of 2022 psi w/avg rate of 24.8 BPM. ISIP 1907 psi. Calc flush: 4821 gal. Actual flush: 4326 gal.
06/27/07	4594-4603'	<b>Frac D1 sands as follows:</b> 69977# 20/40 sand in 571 bbls Lightning 17 frac fluid. Treated @ avg press of 1748 psi w/avg rate of 24.8 BPM. ISIP 1927 psi. Calc flush: 4592 gal. Actual flush: 4074 gal.
06/27/07	4082-4098'	<b>Frac GB4 sands as follows:</b> 84076# 20/40 sand in 655 bbls Lightning 17 frac fluid. Treated @ avg press of 1625 psi w/avg rate of 24.8 BPM. ISIP 1836 psi. Calc flush: 4080 gal. Actual flush: 3990 gal.
09/17/10		Pump Change. Rod & tubing detail updated.

### PERFORATION RECORD

10/11/07	5228-5240'	4 JSPF	48 holes
10/11/07	4975-4982'	4 JSPF	28 holes
10/11/07	4823-4831'	4 JSPF	32 holes
10/11/07	4594-4603'	4 JSPF	36 holes
10/11/07	4082-4098'	4 JSPF	64 holes



**NEWFIELD**

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**FEDERAL 3-19-9-16**

699' FNL & 1802' FWL

NE/NW Section 19-T9S-R16E

Duchesne Co, Utah

API #43-013-33064; Lease # UTU-64379

## FEDERAL 7-19-9-16

Spud Date: 09/25/07  
 Put on Production: 12/06/07  
 GL: 6137' KB: 6149'

Initial Production: BOPD,  
 MCFD, BWPD

Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (312.36')  
 DEPTH LANDED: 316.01' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 1- 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: 138 jts. (5929.84')  
 DEPTH LANDED: 5943.09' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP: 175'

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 172 jts (5412.80')  
 TUBING ANCHOR: 5412.80' KB  
 NO. OF JOINTS: 1 jts (31.50')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5447.10' KB  
 NO. OF JOINTS: 2 jts (62.06')  
 TOTAL STRING LENGTH: EOT @ 5510.71' KB

### SUCKER RODS

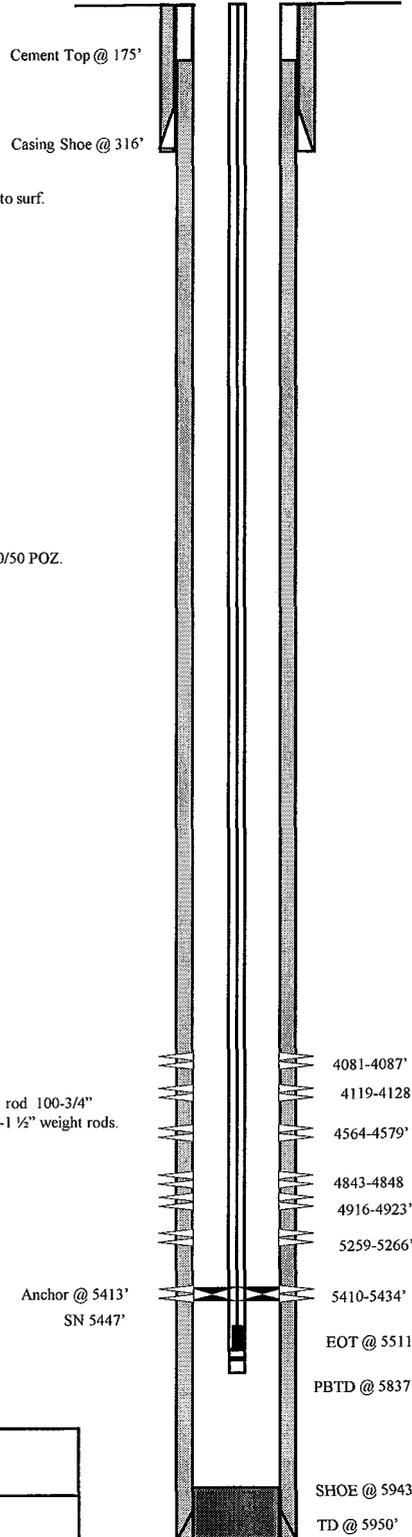
POLISHED ROD: 1-1/2" x 26' SM polished rods  
 SUCKER RODS: 1-4", & 1-6' x 3/4" pony rods, 1-3/4" slick rod 100-3/4"  
 scraped rods, 90-3/4" plain rods, 20-3/4" scraped rods, 6-1 1/2" weight rods.  
 PUMP SIZE: CDI 2-1/2" x 1-1/2" x 17" x 20" RHAC  
 STROKE LENGTH: 100"  
 PUMP SPEED, 5 SPM:

### FRAC JOB

11/19/07	5410-5434'	<b>Frac LODC sands as follows:</b> 109202# 20/40 sand in 819 bbls Lightning 17 frac fluid. Treated @ avg press of 2224 psi w/avg rate of 23.1 BPM. ISIP 2660 psi. Calc flush: 5408 gal. Actual flush: 4906 gal.
11/28//07	5259-5266'	<b>Frac LODC sands as follows:</b> 39849# 20/40 sand in 409 bbl Lightning 17 frac fluid. Treated @ avg press of 2270 psi w/avg rate of 22.9 BPM. ISIP 2197 psi. Calc flush: 5257 gal. Actual flush: 4759 gal.
11/28/07	4916-4923'	<b>Frac A.5 sands as follows:</b> 190567# 20/40 sand in 298 bbls Lightning 17 frac fluid. Treated @ avg press of 2017 psi w/avg rate of 23.1 BPM. ISIP 2175 psi. Calc flush: 4914 gal. Actual flush: 4410 gal.
11/28/07	4843-4848'	<b>Frac B1 sands as follows:</b> 14207# 20/40 sand in 260 bbls Lightning 17 frac fluid. Treated @ avg press of 2112 psi w/avg rate of 23.1 BPM. ISIP 1944 psi. Calc flush: 4842 gal. Actual flush: 4343 gal.
11/28/07	4564-4579'	<b>Frac D1 sands as follows:</b> 79967# 20/40 sand in 617 bbls Lightning 17 frac fluid. Treated @ avg press of 1666 psi w/avg rate of 23.1 BPM. ISIP 1984 psi. Calc flush: 4564 gal. Actual flush: 4579 gal.
11/28/07	4564-4579'	<b>Frac GB6 &amp; GB4 sands as follows:</b> 39102# 20/40 sand in 395 bbls Lightning 17 frac fluid. Treated @ avg press of 1725 psi w/avg rate of 23.1 BPM. ISIP 1731 psi. Calc flush: 4562 gal. Actual flush: 3990 gal.
5/5/09		Pump Change. Updated r & t details.

### PERFORATION RECORD

10/11/07	4584-4598'	4 JSPF	56 holes
10/11/07	4828-4837'	4 JSPF	36 holes
10/11/07	4976-4985'	4 JSPF	36 holes
10/11/07	5236-5272'	4 JSPF	144 holes
10/11/07	5649-5658'	4 JSPF	36 holes



**NEWFIELD**

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**FEDERAL 7-19-9-16**

1958' FNL & 2161' FEL

SW/NE Section 19-T9S-R16E

Duchesne Co, Utah

API #43-013-33158; Lease # UTU-64379

## WEST POINT FED. 7-18-9-16

Spud Date: 05/22/07  
Put on Production: 06/29/07

GL: 5902' KB: 5914'

### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (306.52')  
DEPTH LANDED: 318.37' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt, est 4 bbls cmt to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 136 jts. (5935.87')  
DEPTH LANDED: 5949.12' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Prem. Lite II mixed & 425 sxs 50/50 POZ.  
CEMENT TOP: .41'

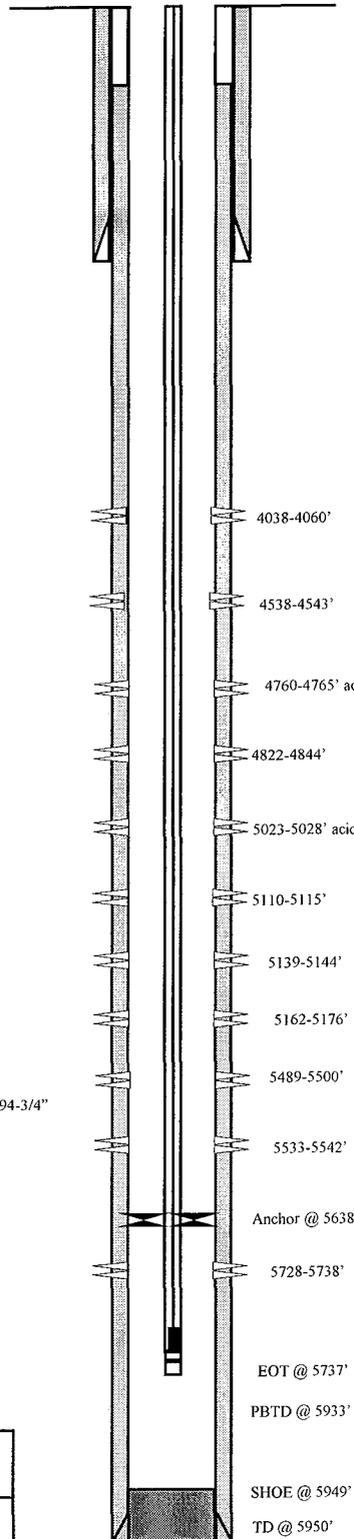
### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 181 jts (5638.00')  
TUBING ANCHOR: 5638' KB  
NO. OF JOINTS: 1 jts (31.7')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5673' KB  
NO. OF JOINTS: 2 jts (63.3')  
TOTAL STRING LENGTH: EOT @ 5737' KB

### SUCKER RODS

POLISHED ROD: 1-1/2" x 26' SM polished rods  
SUCKER RODS: 1-2" & 1-6" x 3/4" pony rods, 98-3/4" guided rods, 94-3/4" sucker rods, 28-3/4" guided rods, 6-1 1/2" sinker bars.  
PUMP SIZE: CDI 2-1/2" x 1-1/4" x 16" x 20' RHAC  
STROKE LENGTH: 120"  
PUMP SPEED, 4 SPM:

### Wellbore Diagram



Initial Production: BOPD,  
MCFD, BWPD

### FRAC JOB

06/21/07	5728-5738'	<b>Frac CP5 sands as follows:</b> 18787# 20/40 sand in 302 bbls Lightning 17 frac fluid. Treated @ avg press of 2145 psi w/avg rate of 24.7 BPM. ISIP 2180 psi. Calc flush: 5726 gal. Actual flush: 5250 gal.
06/21/07	5489-5542'	<b>Frac CP2 &amp; CP1 sands as follows:</b> 79580# 20/40 sand in 611 bbls Lightning 17 frac fluid. Treated @ avg press of 2144 psi w/avg rate of 24.7 BPM. ISIP 2255 psi. Calc flush: 5531 gal. Actual flush: 4998 gal.
06/21/07	5110-5176'	<b>Frac LODC sands as follows:</b> 90131# 20/40 sand in 670 bbls Lightning 17 frac fluid. Treated @ avg press of 2615 psi w/avg rate of 24 BPM. ISIP 2629 psi. Calc flush: 5108 gal. Actual flush: 4662 gal.
06/21/07	5023-5028'	<b>Perf. A3 sands/Acid.</b> Spotted acid twice on perf's, perf's still won't break down.
06/21/07	4822-4844'	<b>Frac B2 sands as follows:</b> 125067# 20/40 sand in 861 bbls Lightning 17 frac fluid. Treated @ avg press of 1972 psi w/avg rate of 24.8 BPM. ISIP 2227 psi. Calc flush: 4820 gal. Actual flush: 4368 gal
06/21/07	4760-4765'	<b>Perf. B.5 sands/Acid.</b> Spotted acid on perf's, perf's still won't break down.
06/22/07	4538-4543'	<b>Frac D1 sands as follows:</b> 15108# 20/40 sand in 239 bbls Lightning 17 frac fluid. Treated @ avg press of 2126 psi w/avg rate of 24.7 BPM. ISIP 1935 psi. Calc flush: 4536 gal. Actual flush: 4074 gal
06/22/07	4038-4060' acid	<b>Frac GB4 sands as follows:</b> 88792# 20/40 sand in 618 bbls Lightning 17 frac fluid. Treated @ avg press of 1713 psi w/avg rate of 24.8 BPM. ISIP 2050 psi. Calc flush: 4036 gal. Actual flush: 4032 gal
12/16/11	5023-5028' acid	Pump Change. Rods & tubing updated.

### PERFORATION RECORD

06/21/07	5728-5738'	4 JSPF	40 holes
06/21/07	5533-5542'	4 JSPF	36 holes
06/21/07	5489-5500'	4 JSPF	44 holes
06/21/07	5162-5176'	4 JSPF	56 holes
06/21/07	5139-5144'	4 JSPF	20 holes
06/21/07	5110-5115'	4 JSPF	20 holes
06/21/07	5023-5028'	4 JSPF	20 holes
06/21/07	4822-4844'	4 JSPF	88 holes
06/21/07	4760-4765'	4 JSPF	20 holes
06/22/07	4538-4543'	4 JSPF	20 holes
06/22/07	4038-4060'	4 JSPF	88 holes



**WEST POINT FED. 7-18-9-16**

1962'FNL & 1941' FEL

SW/NE Section 18-T9S-R16E

Duchesne Co, Utah

API #43-013-32919; Lease # UTU-74390

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## Water Analysis Report

Production Company: **NEWFIELD PRODUCTION**  
Well Name: **SWDIF**  
Sample Point: **After production filter**  
Sample Date: **12/9/2011**  
Sample ID: **WA-204150**

Sales Rep: **Darren Betts**  
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:	12/9/2011	Sodium (Na):	6799.09	Chloride (Cl):	10000.00
System Temperature 1 (°F):	300.00	Potassium (K):	26.10	Sulfate (SO4):	2.00
System Pressure 1 (psig):	3000.00	Magnesium (Mg):	9.40	Bicarbonate (HCO3):	1024.80
System Temperature 2 (°F):	70.00	Calcium (Ca):	26.80	Carbonate (CO3):	0.00
System Pressure 2 (psig):	14.70	Strontium (Sr):	0.00	Acetic Acid (CH3COO)	0.00
Calculated Density (g/ml):	1.01	Barium (Ba):	24.20	Propionic Acid (C2H5COO)	0.00
pH:	8.20	Iron (Fe):	0.47	Butanoic Acid (C3H7COO)	0.00
Calculated TDS (mg/L):	17913.62	Zinc (Zn):	0.00	Isobutyric Acid ((CH3)2CHCOO)	0.00
CO2 in Gas (%):	0.00	Lead (Pb):	0.70	Fluoride (F):	0.00
Dissolved CO2 (mg/L):	0.00	Ammonia NH3:	0.00	Bromine (Br):	0.00
H2S in Gas (%):	0.00	Manganese (Mn):	0.06	Silica (SiO2):	0.00
H2S in Water (mg/L):	10.00				

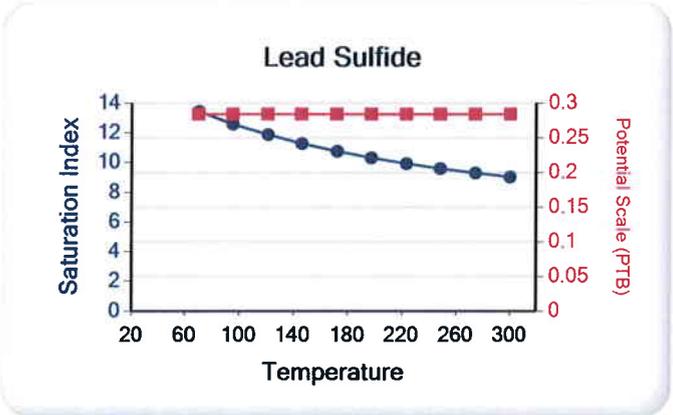
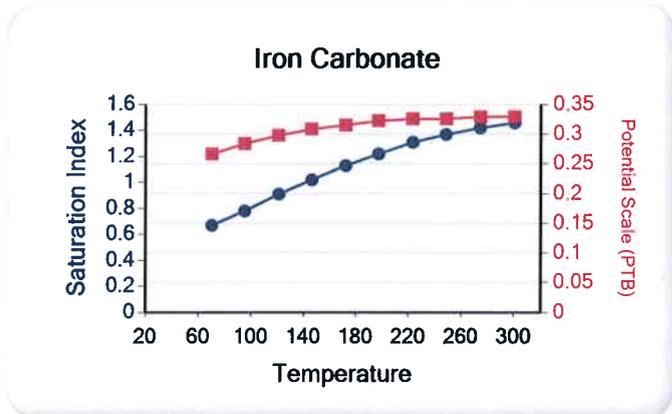
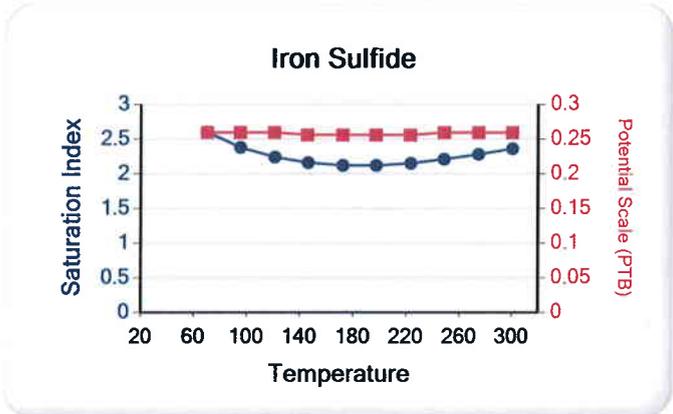
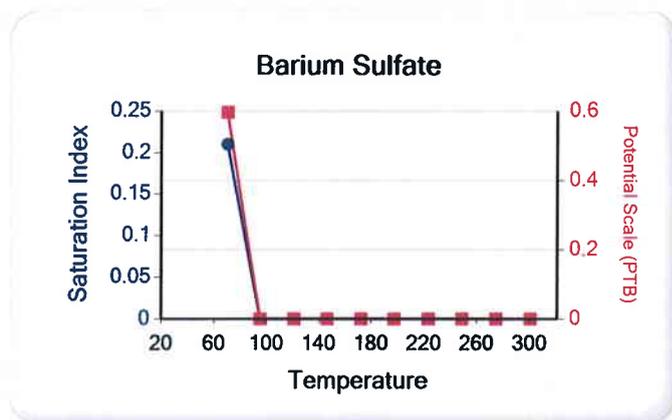
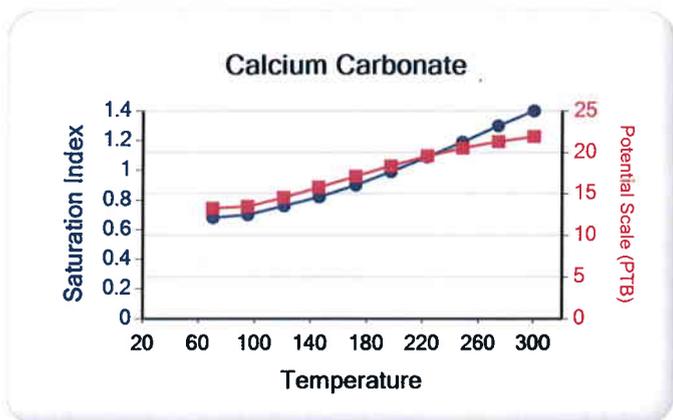
**Notes:**

(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
70	14	0.68	13.26	0.21	0.60	2.60	0.26	0.67	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	346	0.70	13.48	0.00	0.00	2.38	0.26	0.78	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
121	678	0.76	14.55	0.00	0.00	2.24	0.26	0.91	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146	1009	0.82	15.79	0.00	0.00	2.16	0.26	1.02	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172	1341	0.90	17.10	0.00	0.00	2.12	0.26	1.13	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
197	1673	0.99	18.39	0.00	0.00	2.12	0.26	1.22	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
223	2004	1.09	19.55	0.00	0.00	2.15	0.26	1.31	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
248	2336	1.19	20.54	0.00	0.00	2.21	0.26	1.37	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
274	2668	1.30	21.32	0.00	0.00	2.28	0.26	1.42	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300	3000	1.40	21.90	0.00	0.00	2.36	0.26	1.46	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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
70	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.45	0.28	0.00	0.00	0.00	0.00	0.00	0.00
95	346	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.59	0.28	0.00	0.00	0.00	0.00	0.00	0.00
121	678	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.89	0.28	0.00	0.00	0.00	0.00	0.00	0.00
146	1009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.28	0.28	0.00	0.00	0.00	0.00	0.00	0.00
172	1341	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.76	0.28	0.00	0.00	0.00	0.00	0.00	0.00
197	1673	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.32	0.28	0.00	0.00	0.00	0.00	0.00	0.00
223	2004	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.93	0.28	0.00	0.00	0.00	0.00	0.00	0.00
248	2336	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.60	0.28	0.00	0.00	0.00	0.00	0.00	0.00
274	2668	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.30	0.28	0.00	0.00	0.00	0.00	0.00	0.00
300	3000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.03	0.28	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 Barium Sulfate Iron Sulfide Iron Carbonate Lead Sulfide



Units of Measurement: **Standard**

Water Analysis Report

Production Company: **NEWFIELD PRODUCTION**  
Well Name: **FEDERAL 15-18-9-16**  
Sample Point: **Treater**  
Sample Date: **5/20/2012**  
Sample ID: **WA-214860**

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:	5/29/2012	Sodium (Na):	7331.00	Chloride (Cl):	10500.00
System Temperature 1 (°F):	120.00	Potassium (K):	44.00	Sulfate (SO <sub>4</sub> ):	12.00
System Pressure 1 (psig):	60.0000	Magnesium (Mg):	1.20	Bicarbonate (HCO <sub>3</sub> ):	1464.00
System Temperature 2 (°F):	185.00	Calcium (Ca):	4.30	Carbonate (CO <sub>3</sub> ):	0.00
System Pressure 2 (psig):	60.0000	Strontium (Sr):	0.00	Acetic Acid (CH <sub>3</sub> COO):	0.00
Calculated Density (g/ml):	1.011	Barium (Ba):	2.40	Propionic Acid (C <sub>2</sub> H <sub>5</sub> COO):	0.00
pH:	8.70	Iron (Fe):	1.50	Butanoic Acid (C <sub>3</sub> H <sub>7</sub> COO):	0.00
Calculated TDS (mg/L):	19360.53	Zinc (Zn):	0.01	Isobutyric Acid ((CH <sub>3</sub> ) <sub>2</sub> CHCOO):	0.00
CO <sub>2</sub> in Gas (%):	0.00	Lead (Pb):	0.10	Fluoride (F):	
Dissolved CO <sub>2</sub> (mg/L):	0.00	Ammonia NH <sub>3</sub> :		Bromine (Br):	
H <sub>2</sub> S in Gas (%):	0.00	Manganese (Mn):	0.02	Silica (SiO <sub>2</sub> ):	
H <sub>2</sub> S in Water (mg/L):	0.00				

Notes:

(PTB = Pounds per Thousand Barrels)

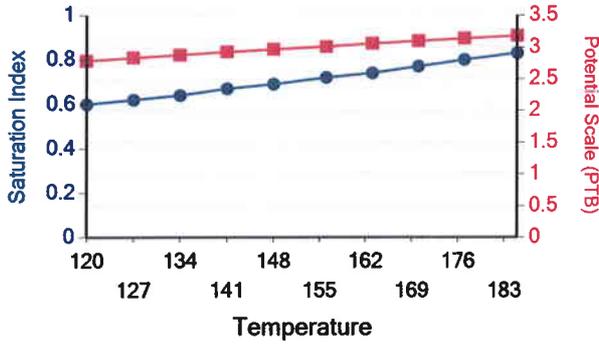
Temp (°F)	PSI	Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO <sub>4</sub> ·2H <sub>2</sub> O		Celestite SrSO <sub>4</sub>		Halite NaCl		Zinc Sulfide	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
185.00	60.00	0.83	3.18	0.00	0.00	0.00	0.00	2.36	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.00	60.00	0.80	3.13	0.00	0.00	0.00	0.00	2.33	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.00	60.00	0.77	3.09	0.00	0.00	0.00	0.00	2.30	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
163.00	60.00	0.74	3.05	0.00	0.00	0.00	0.00	2.26	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
156.00	60.00	0.72	3.01	0.00	0.00	0.00	0.00	2.23	1.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
148.00	60.00	0.69	2.96	0.00	0.00	0.00	0.00	2.20	1.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
141.00	60.00	0.67	2.92	0.00	0.00	0.00	0.00	2.16	1.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
134.00	60.00	0.64	2.87	0.00	0.00	0.00	0.00	2.13	1.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.00	60.00	0.62	2.83	0.00	0.00	0.00	0.00	2.09	1.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.00	60.00	0.60	2.78	0.00	0.00	0.00	0.00	2.05	1.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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
185.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	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
163.00	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
156.00	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
148.00	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
141.00	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
134.00	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
127.00	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

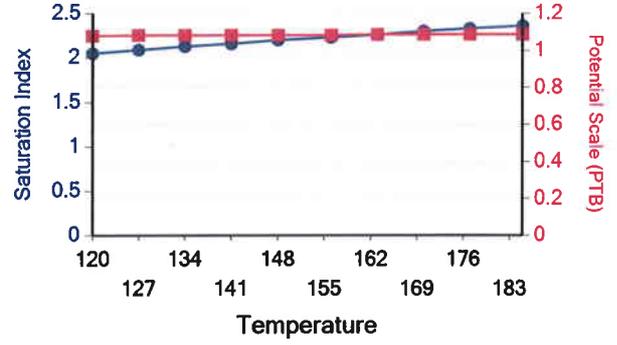
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Iron Carbonate Zinc Carbonate

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

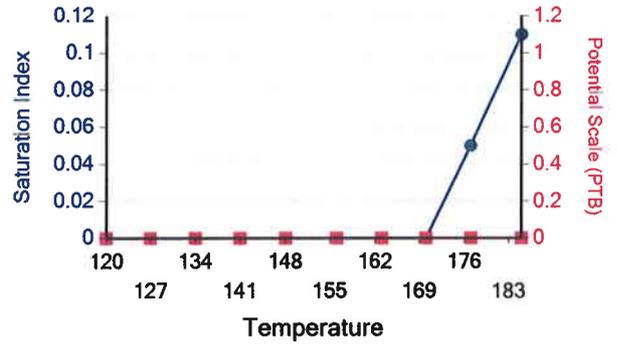
Calcium Carbonate



Iron Carbonate



Zinc Carbonate



**Attachment "G"**

**Federal #15-18-9-16  
Proposed Maximum Injection Pressure**

Frac Interval (feet)		Avg. Depth (feet)	ISIP (psi)	Calculated Frac Gradient (psi/ft)	Pmax
Top	Bottom				
5649	5658	5654	1805	0.75	1768 ←
5236	5272	5254	2340	0.88	2306
4976	4985	4981	3582	1.15	3550
4828	4837	4833	1935	0.83	1904
4584	4598	4591	2078	0.89	2048
				<b>Minimum</b>	<u><u>1768</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.



10/9

## DAILY COMPLETION REPORT

WELL NAME: Federal 15-18-9-16 Report Date: 10/10/2007 Day: 1  
 Operation: Completion Rig: Rigless

### WELL STATUS

Surf Csg: 8-5/8' @ 324' Prod Csg: 5-1/2" @ 5999' Csg PBTD: 5919' WL  
 Tbg: Size: \_\_\_\_\_ Wt: \_\_\_\_\_ Grd: \_\_\_\_\_ Pkr/EOT @: \_\_\_\_\_ BP/Sand PBTD: \_\_\_\_\_

### PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
CP3 sds	5649-5658'	4/36	_____	_____	_____
_____	_____	_____	_____	_____	_____

### CHRONOLOGICAL OPERATIONS

Date Work Performed: 10/9/2007 SITP: \_\_\_\_\_ SICP: 0

Install 5m frac head. NU 6" 5K Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head, csg & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 5919' & cement top @ 30'. Perforate stage #1, CP3 sds @ 5649-58' w/ 3-1/8" Slick Guns (19 gram, .49"EH. 120 ) w/ 4 spf for total of 36 shots. 110 BWTR. SWIFN.

### FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 110 Starting oil rec to date: \_\_\_\_\_  
 Fluid lost/recovered today: 0 Oil lost/recovered today: \_\_\_\_\_  
 Ending fluid to be recovered: 110 Cum oil recovered: \_\_\_\_\_  
 IFL: \_\_\_\_\_ FFL: \_\_\_\_\_ FTP: \_\_\_\_\_ Choke: \_\_\_\_\_ Final Fluid Rate: \_\_\_\_\_ Final oil cut: \_\_\_\_\_

### STIMULATION DETAIL

### COSTS

Base Fluid used: \_\_\_\_\_ Job Type: \_\_\_\_\_

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

Procedure or Equipment detail:

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

Weatherford BOP \_\_\_\_\_  
 NPC NU crew \_\_\_\_\_  
 NDSI trucking \_\_\_\_\_  
 Perforators LLC \_\_\_\_\_  
 Drilling cost \_\_\_\_\_  
 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: \_\_\_\_\_ FG: \_\_\_\_\_

Completion Supervisor: Don Dulen

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

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



2009

## DAILY COMPLETION REPORT

**WELL NAME:** Federal 15-18-9-16      **Report Date:** 10/12/2007      **Day:** 2a  
**Operation:** Completion      **Rig:** Rigless

### WELL STATUS

**Surf Csg:** 8-5/8' @ 324'      **Prod Csg:** 5-1/2" @ 5999'      **Csg PBTD:** 5919' WL  
**Tbg:**      **Size:** \_\_\_\_\_ **Wt:** \_\_\_\_\_      **Grd:** \_\_\_\_\_ **Pkr/EOT @:** \_\_\_\_\_      **BP/Sand PBTD:** \_\_\_\_\_

### PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
<b>CP3 sds</b>	<b>5649-5658'</b>	<b>4/36</b>			

### CHRONOLOGICAL OPERATIONS

**Date Work Performed:** 10/11/2007      **SITP:** \_\_\_\_\_ **SICP:** 0

Day2a.  
 RU BJ Services "Ram Head" frac flange. RU BJ & frac CP3 sds, stage #1 down casing w/ 15,067#'s of 20/40 sand ir 290 bbls of Lightning 17 frac fluid. Open well w/ 0 psi on casing. Perfs broke down @ 3284 psi. Pump 30 gallons of Techna Hib before pad. Treated @ ave pressure of 2158 w/ 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 1805. 400 bbls EWTR. Leave pressure on well. **See day2b.**

### FLUID RECOVERY (BBLs)

**Starting fluid load to be recovered:** 110      **Starting oil rec to date:** \_\_\_\_\_  
**Fluid lost/recovered today:** 290      **Oil lost/recovered today:** \_\_\_\_\_  
**Ending fluid to be recovered:** 400      **Cum oil recovered:** \_\_\_\_\_  
**IFL:** \_\_\_\_\_ **FFL:** \_\_\_\_\_ **FTP:** \_\_\_\_\_ **Choke:** \_\_\_\_\_ **Final Fluid Rate:** \_\_\_\_\_ **Final oil cut:** \_\_\_\_\_

### STIMULATION DETAIL

### COSTS

<b>Base Fluid used:</b> <u>Lightning 17</u> <b>Job Type:</b> <u>Sand Frac</u>	Weatherford Services
<b>Company:</b> <u>BJ Services</u>	C-D trkg frac water
<b>Procedure or Equipment detail:</b> CP3 sds down casing	NPC fuel gas
<u>1512 gals w/ Techna Hib &amp; to cross link</u>	BJ Services CP sds
<u>1470 gals of pad</u>	NPC Supervisor
<u>1149 gals w/ 1-4 ppg of 20/40 sand</u>	
<u>2379 gals w/ 4-6.5 ppg of 20/40 sand</u>	
<u>504 gals of 15% HCL acid</u>	
<u>Flush w/ 5166 gals of slick water</u>	

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

**Max TP:** 2560      **Max Rate:** 24.8      **Total fluid pmpd:** 290 bbls  
**Avg TP:** 2158      **Avg Rate:** 24.8      **Total Prop pmpd:** 15,067#'s  
**ISIP:** 1805      **5 min:** \_\_\_\_\_      **10 min:** \_\_\_\_\_      **FG:** .75

**Completion Supervisor:** Ron Shuck

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



DAILY COMPLETION REPORT

WELL NAME: Federal 15-18-9-16 Report Date: 10/12/2007 Day: 2b  
 Operation: Completion Rig: Rigless

WELL STATUS

Surf Csg: 8-5/8' @ 324' Prod Csg: 5-1/2" @ 5999' Csg PBTD: 5919' WL  
 Tbg: Size: \_\_\_\_\_ Wt: \_\_\_\_\_ Grd: \_\_\_\_\_ Pkr/EOT @: \_\_\_\_\_ BP/Sand PBTD: 5370'

PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
LODC sds	<u>5236-5272'</u>	<u>4/144</u>			
CP3 sds	<u>5649-5658'</u>	<u>4/36</u>			

CHRONOLOGICAL OPERATIONS

Date Work Performed: 10/11/2007 SITP: \_\_\_\_\_ SICP: 1180

Day2b.

RU Perforators LLC WLT, crane & lubricator. RIH Weatherford 5-1/2" (6K) composite flow through frac plug & 16' per gun. Set plug @ 5370'. Perforate LODC sds @ 5236-72' w/ 3-1/8" Slick Guns (19 gram, .49"HE. 120 ) w/ 4 spf for total of 144 shots in 2 runs. RU BJ & frac stage #2 w/ 159,885#'s of 20/40 sand in 1115 bbls of Lightning 17 frac fluid Open well w/ 1180 psi on casing. Perfs broke down @ 2442 psi. Pump 30 gallons of Techna Hib before pad. Treatac @ ave pressure of 1955 w/ ave rate of 24.8 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2340. 1515 bbls EWTR. Leave pressure on well. See day2c.

FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 400 Starting oil rec to date: \_\_\_\_\_  
 Fluid lost/recovered today: 1115 Oil lost/recovered today: \_\_\_\_\_  
 Ending fluid to be recovered: 1514 Cum oil recovered: \_\_\_\_\_  
 IFL: \_\_\_\_\_ FFL: \_\_\_\_\_ FTP: \_\_\_\_\_ Choke: \_\_\_\_\_ Final Fluid Rate: \_\_\_\_\_ Final oil cut: \_\_\_\_\_

STIMULATION DETAIL

COSTS

Base Fluid used: <u>Lightning 17</u> Job Type: <u>Sand Frac</u>	Weatherford Services
Company: <u>BJ Services</u>	C-D trkg frac water
Procedure or Equipment detail: <u>LODC sds down casing</u>	NPC fuel gas
<u>1386 gals w/ Techna Hib &amp; to cross link</u>	BJ Services LODCsds
<u>12096 gals of pad</u>	Perforators LODC sds
<u>8000 gals w/ 1-5 ppg of 20/40 sand</u>	
<u>12000 gals w/ 5-8 ppg of 20/40 sand</u>	
<u>4098 gals w/ 8 ppg of 20/40 sand</u>	
<u>504 gals of 15% HCL acid</u>	
<u>Flush w/ 4746 gals of slick water</u>	
<b>**Flush called @ blender to include 2 bbls for pump/line volume**</b>	
Max TP: <u>2210</u> Max Rate: <u>24.8</u> Total fluid pmpd: <u>1115 bbls</u>	
Avg TP: <u>1955</u> Avg Rate: <u>24.8</u> Total Prop pmpd: <u>159,885#'s</u>	
ISIP: <u>2340</u> 5 min: _____ 10 min: _____ FG: <u>.88</u>	
Completion Supervisor: <u>Ron Shuck</u>	DAILY COST: _____ \$0
	TOTAL WELL COST: _____ \$0



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**DAILY COMPLETION REPORT**

**WELL NAME:** Federal 15-18-9-16 **Report Date:** 10/12/2007 **Day:** 2c  
**Operation:** Completion **Rig:** Rigless

**WELL STATUS**

**Surf Csg:** 8-5/8' @ 324' **Prod Csg:** 5-1/2" @ 5999' **Csg PBTD:** 5919' WL  
**Tbg:** **Size:** \_\_\_\_\_ **Wt:** \_\_\_\_\_ **Grd:** \_\_\_\_\_ **Pkr/EOT @:** \_\_\_\_\_ **BP/Sand PBTD:** 5080'  
 plug 5370'

**PERFORATION RECORD**

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
A1 sds	4976-4985'	4/36			
LODC sds	5236-5272'	4/144			
CP3 sds	5649-5658'	4/36			

**CHRONOLOGICAL OPERATIONS**

**Date Work Performed:** 10/11/2007 **SITP:** \_\_\_\_\_ **SICP:** 2007

Day2c.

RU WLT. RIH w/ frac plug & 9' perf gun. Set plug @ 5080'. Perforate A1 sds @ 4976-85' w/ 4 spf for total of 36 shots. RU BJ & frac stage #3 w/ 34,607#'s of 20/40 sand in 423 bbls of Lightning 17 frac fluid. Open well w/ 2007 ps on casing. Perfs broke down @ 3899 psi. Pump 30 gallons of Techna Hib before pad. Treated @ ave pressure of 2543 w/ ave rate of 29.9 bpm w/ 6.5 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 3582. 1937 bbls EWTR. Leave pressure on well. **See day2d.**

**FLUID RECOVERY (BBLs)**

**Starting fluid load to be recovered:** 1514 **Starting oil rec to date:** \_\_\_\_\_  
**Fluid lost/recovered today:** 423 **Oil lost/recovered today:** \_\_\_\_\_  
**Ending fluid to be recovered:** 1937 **Cum oil recovered:** \_\_\_\_\_  
**IFL:** \_\_\_\_\_ **FFL:** \_\_\_\_\_ **FTP:** \_\_\_\_\_ **Choke:** \_\_\_\_\_ **Final Fluid Rate:** \_\_\_\_\_ **Final oil cut:** \_\_\_\_\_

**STIMULATION DETAIL**

**COSTS**

<b>Base Fluid used:</b> <u>Lightning 17</u> <b>Job Type:</b> <u>Sand Frac</u>	<u>Weatherford Services</u>
<b>Company:</b> <u>BJ Services</u>	<u>C-D trkg frac water</u>
<b>Procedure or Equipment detail:</b> <u>A1 sds down casing</u>	<u>NPC fuel gas</u>
<u>1596 gals w/ Techna Hib &amp; to cross link</u>	<u>BJ Services A1 sds</u>
<u>3276 gals of pad</u>	<u>Perforators A1 sds</u>
<u>2431 gals w/ 1-4 ppg of 20/40 sand</u>	
<u>4890 gals w/ 4-6.5 ppg of 20/40 sand</u>	
<u>575 gals w/ 6.5 ppg of 20/40 sand</u>	
<u>504 gals of 15% HCL acid</u>	
<u>Flush w/ 4494 gals of slick water</u>	
<b>**Flush called @ blender to include 2 bbls for pump/line volume**</b>	
<b>Max TP:</b> <u>2720</u> <b>Max Rate:</b> <u>29.9</u> <b>Total fluid pmpd:</b> <u>423 bbls</u>	
<b>Avg TP:</b> <u>2543</u> <b>Avg Rate:</b> <u>29.9</u> <b>Total Prop pmpd:</b> <u>34,607#'s</u>	
<b>ISIP:</b> <u>3582</u> <b>5 min:</b> _____ <b>10 min:</b> _____ <b>FG:</b> <u>1.15</u>	
<b>Completion Supervisor:</b> <u>Ron Shuck</u>	<b>DAILY COST:</b> _____ \$0
	<b>TOTAL WELL COST:</b> _____ \$0



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## DAILY COMPLETION REPORT

**WELL NAME:** Federal 15-18-9-16      **Report Date:** 10/12/2007      **Day:** 2d  
**Operation:** Completion      **Rig:** Rigless

### WELL STATUS

**Surf Csg:** 8-5/8' @ 324'      **Prod Csg:** 5-1/2" @ 5999'      **Csg PBTD:** 5919' WL  
**Tbg:** **Size:** \_\_\_\_\_ **Wt:** \_\_\_\_\_      **Grd:** \_\_\_\_\_ **Pkr/EOT @:** \_\_\_\_\_      **BP/Sand PBTD:** 4900'  
plug 5370' 5080'

### PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
B1 sds	4828-4837'	4/36			
A1 sds	4976-4985'	4/36			
LODC sds	5236-5272'	4/144			
CP3 sds	5649-5658'	4/36			

### CHRONOLOGICAL OPERATIONS

**Date Work Performed:** 10/11/2007      **SITP:** \_\_\_\_\_ **SICP:** 1485

Day2d.

RU WLT. RIH w/ frac plug & 9' perf gun. Set plug @ 4900'. Perforate B1 sds @ 4828-37' w/ 4 spf for total of 36 shots. RU BJ & frac stage #4 w/ 15,082#'s of 20/40 sand in 267 bbls of Lightning 17 frac fluid. Open well w/ 1485 ps on casing. Perfs broke down @ 3333 psi. Pump 30 gallons of Techna Hib before pad. Treated @ ave pressure of 2075 w/ 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 1935. 2204 bbls EWTR. Leave pressure on well. **See day2e.**

### FLUID RECOVERY (BBLs)

**Starting fluid load to be recovered:** 1937      **Starting oil rec to date:** \_\_\_\_\_  
**Fluid lost/recovered today:** 267      **Oil lost/recovered today:** \_\_\_\_\_  
**Ending fluid to be recovered:** 2204      **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  
1386 gals w/ Techna Hib & to cross link  
1470 gals of pad  
1149 gals w/ 1-4 ppg of 20/40 sand  
2369 gals w/ 4-6.5 ppg of 20/40 sand  
504 gals of 15% HCL acid  
Flush w/ 4326 gals of slick water

### COSTS

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

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

**Max TP:** 2320      **Max Rate:** 24.8      **Total fluid pmpd:** 267 bbls  
**Avg TP:** 2075      **Avg Rate:** 24.8      **Total Prop pmpd:** 15,082#'s  
**ISIP:** 1935      **5 min:** \_\_\_\_\_      **10 min:** \_\_\_\_\_      **FG:** .83

**Completion Supervisor:** Ron Shuck

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



## DAILY COMPLETION REPORT

**WELL NAME:** Federal 15-18-9-16      **Report Date:** 10/12/2007      **Day:** 2e  
**Operation:** Completion      **Rig:** Western #4

### WELL STATUS

**Surf Csg:** 8-5/8' @ 324'      **Prod Csg:** 5-1/2" @ 5999'      **Csg PBD:** 5919' WL  
**Tbg:** Size: \_\_\_\_\_ Wt: \_\_\_\_\_      **Grd:** \_\_\_\_\_ **Pkr/EOT @:** \_\_\_\_\_      **BP/Sand PBD:** 4690'  
plug 5370' 5080' 4900'

### PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
D1 sds	4584-4598'	4/56	_____	_____	_____
B1 sds	4828-4837'	4/36	_____	_____	_____
A1 sds	4976-4985'	4/36	_____	_____	_____
LODC sds	5236-5272'	4/144	_____	_____	_____
CP3 sds	5649-5658'	4/36	_____	_____	_____

### CHRONOLOGICAL OPERATIONS

**Date Work Performed:** 10/11/2007      **SITP:** \_\_\_\_\_ **SICP:** 1515

Day 2e.

RU WLT. RIH w/ frac plug & 14' perf gun. Set plug @ 4690'. Perforate D1 sds @ 4584-98' w/ 4 spf for total of 56 shots. RU BJ & frac stage #4 w/ 47,763#'s of 20/40 sand in 455 bbls of Lightning 17 frac fluid. Open well w/ 1515 ps on casing. Perfs broke down @ 3012 psi. Pump 30 gallons of Techna Hib before pad. Treated @ ave pressure o 1975 w/ ave rate of 24.8 bpm w/ 8 ppg of sand. ISIP was 2078. 2659 bbls EWTR. RD BJ & WLT. Flow well back Well flowed for 3 hours & died w/ 210 bbls rec'd. SIFN.

### FLUID RECOVERY (BBLs)

**Starting fluid load to be recovered:** 2659      **Starting oil rec to date:** \_\_\_\_\_  
**Fluid lost/recovered today:** 210      **Oil lost/recovered today:** \_\_\_\_\_  
**Ending fluid to be recovered:** 2449      **Cum oil recovered:** \_\_\_\_\_  
**IFL:** \_\_\_\_\_ **FFL:** \_\_\_\_\_ **FTP:** \_\_\_\_\_ **Choke:** \_\_\_\_\_ **Final Fluid Rate:** \_\_\_\_\_ **Final oil cut:** \_\_\_\_\_

### STIMULATION DETAIL

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

**Company:** BJ Services

**Procedure or Equipment detail:** D1 sds down casing

- 1428 gals w/ Techna Hib & to cross link
- 4368 gals of pad
- 2944 gals w/ 1-5 ppg of 20/40 sand
- 5872 gals w/ 5-8 ppg of 20/40 sand
- 7 gals w/ 8 ppg of 20/40 sand
- Flush w/ 4491 gals of slick water

### COSTS

Weatherford Services  
C-D trkg frac water  
NPC fuel gas  
BJ Services D1 sds  
Perforators D1 sds  
C-D trkg water transfer  
Western Rig  
B&L - new J-55 tbg  
NPC trucking  
NDSI trkg rig  
NPC sfc equipment  
Boren welding/welding  
Unichem chemical  
**DAILY COST:** \_\_\_\_\_ **\$0**  
**TOTAL WELL COST:** \_\_\_\_\_ **\$0**

**Max TP:** 2320      **Max Rate:** 24.8      **Total fluid pmpd:** 455 bbls  
**Avg TP:** 1975      **Avg Rate:** 24.8      **Total Prop pmpd:** 47,763#'s  
**ISIP:** 2078      **5 min:** \_\_\_\_\_      **10 min:** \_\_\_\_\_      **FG:** .89  
**Completion Supervisor:** Ron Shuck





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## DAILY COMPLETION REPORT

**WELL NAME:** Federal 15-18-9-16      **Report Date:** 10/16/2007      **Day:** 4  
**Operation:** Completion      **Rig:** Western #4

### WELL STATUS

**Surf Csg:** 8-5/8' @ 324'      **Prod Csg:** 5-1/2" @ 5999'      **Csg PBTD:** 5959'  
**Tbg:** Size: 2-7/8" Wt: 6.5#      **Grd:** J-55 **Pkr/EOT @:** 5881'      **BP/Sand PBTD:** 5959'

### PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
D1 sds	4584-4598'	4/56			
B1 sds	4828-4837'	4/36			
A1 sds	4976-4985'	4/36			
LODC sds	5236-5272'	4/144			
CP3 sds	5649-5658'	4/36			

### CHRONOLOGICAL OPERATIONS

**Date Work Performed:** 10/15/2007      **SITP:** \_\_\_\_\_      **SICP:** 0

Open well w/ 0 psi on casing. Made 15 swab runs to rec'd 140 bbls fluid. IFL was surface. FFL was 1100'. Last run showed trace of oil w/ trace of sand. RD swab. TIH w/ tbg to tag 4' of new sand. C/O to PBTD @ 5959'. TOOH w/ tbg. LD bit & bit sub. TIH w/ NC, 2 jts tbg, SN, 2 jt tbg, TA (new 45,000# shear), 182 jts tbg. RD BOP's. Set TA @ 5610' w/ 16,000#'s tension w/ SN 5675', & EOT @ 5739'. Flush tbg w/ 60 bbls water. Pickup prime pump. TIH w/ 2-1/2" X 1-1/2" X 14' X 18' new CDI pump W/ 159"SL, 6- 1-1/2", 20- 3/4" guided rods, 100- 3/4" slick rods. SIFN.

### FLUID RECOVERY (BBLs)

**Starting fluid load to be recovered:** 2349      **Starting oil rec to date:** \_\_\_\_\_  
**Fluid lost/recovered today:** 140      **Oil lost/recovered today:** \_\_\_\_\_  
**Ending fluid to be recovered:** 2209      **Cum oil recovered:** \_\_\_\_\_  
**IFL:** \_\_\_\_\_      **FFL:** \_\_\_\_\_      **FTP:** \_\_\_\_\_      **Choke:** \_\_\_\_\_      **Final Fluid Rate:** \_\_\_\_\_      **Final oil cut:** \_\_\_\_\_

#### TUBING DETAIL

#### ROD DETAIL

#### COSTS

KB 12.00'	1 1/2" X 22' polished rod	Western Rig
182 2 7/8 J-55 tbg (5610.75')	X 3/4" ponies	Weatherford BOP's
TA (2.80') @ 5610.75 KB	3/4" scraped rods	CDI TA & SN
2 2 7/8 J-55 tbg (62.42')	100- 3/4" plain rods	CDI pump
SN (1.10') @ 5675.97' KB	20- 3/4" scraped rods	NPC Supervisor
2 2 7/8 J-55 tbg (61.58')	6- 1 1/2" weight rods	
2 7/8 NC (.45')	CDI 2 1/2' X 1 1/2" X 14'X18'	
EOT W/ 12' 5739.10'KB	RHAC pump W/ SM plunger	
	159'SL	

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

**Completion Supervisor:** Ron Shuck

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



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## DAILY COMPLETION REPORT

**WELL NAME:** Federal 15-18-9-16      **Report Date:** 10/17/2007      **Day:** 5  
**Operation:** Completion      **Rig:** Western #4

### WELL STATUS

**Surf Csg:** 8-5/8' @ 324'      **Prod Csg:** 5-1/2" @ 5999'      **Csg PBTD:** 5959'  
**Tbg:** **Size:** 2-7/8"    **Wt:** 6.5#    **Grd:** J-55    **Pkr/EOT @:** 5881'    **BP/Sand PBTD:** 5959'

### PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
D1 sds	4584-4598'	4/56			
B1 sds	4828-4837'	4/36			
A1 sds	4976-4985'	4/36			
LODC sds	5236-5272'	4/144			
CP3 sds	5649-5658'	4/36			

### CHRONOLOGICAL OPERATIONS

**Date Work Performed:** 10/16/2007      **SITP:** \_\_\_\_\_      **SICP:** 0

Open well w/ 0 psi on casing. Continue TIH w/ 100- 3/4" guided rods, 2', 6' X 3/4" pony rods, 1-1/2" x 26' polish rod Space pump. Test tbg & pump to 800 psi w/ pumping unit. RDMOSU. POP @ 9 AM w/ 102"SL @ 4.5 SPM. **Final Report.**

### FLUID RECOVERY (BBLs)

**Starting fluid load to be recovered:** 2349      **Starting oil rec to date:** \_\_\_\_\_  
**Fluid lost/recovered today:** 140      **Oil lost/recovered today:** \_\_\_\_\_  
**Ending fluid to be recovered:** 2209      **Cum oil recovered:** \_\_\_\_\_  
**IFL:** \_\_\_\_\_    **FFL:** \_\_\_\_\_    **FTP:** \_\_\_\_\_    **Choke:** \_\_\_\_\_    **Final Fluid Rate:** \_\_\_\_\_    **Final oil cut:** \_\_\_\_\_

#### TUBING DETAIL

#### ROD DETAIL

#### COSTS

KB 12.00'	1 1/2" X 26' polished rod	Western Rig
182 2 7/8 J-55 tbg (5610.75')	2', 6' X 3/4" ponies	rds ("A" grade)
TA (2.80') @ 5610.75 KB	100- 3/4" scraped rods	NPC trucking
2 2 7/8 J-55 tbg (62.42')	100- 3/4" plain rods	NPC tnks(7x8dys)
SN (1.10') @ 5675.97' KB	20- 3/4" scraped rods	NPC swab tnk(4dys)
2 2 7/8 J-55 tbg (61.58')	6- 1 1/2" weight rods	NPC frac head
2 7/8 NC (.45')	CDI 2 1/2" X 1 1/2" X 14'X18'	Zubiate Hot Oil
EOT W/ 12' 5739.10'KB	RHAC pump W/ SM plunger	NPC Supervisor
	159"SL	

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

**Completion Supervisor:** Ron Shuck

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

## ATTACHMENT H

### WORK PROCEDURE FOR PLUGGING AND ABANDONMENT

1. Set CIBP @ 4534'
2. Plug #1 Set 100' plug on top of CIBP using 12 sx Class "G" cement
3. Plug #2 181' balance plug using 22 sx Class "G" cement 50' above Trona-Bird's Nest extending 50' below base of Mahogany Oil Shale
4. Plug #3 120' balance plug using 14sx Class "G" cement 60' above Uinta/Green River and extending 60' below
5. Plug #4 Pump 44 sx Class "G" cement down 5 ½" casing to 374'

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

## FEDERAL 15-18-9-16

Spud Date: 09/18/07  
 Put on Production: 10/16/07  
 GL: 6049' KB: 6061'

Initial Production: BOPD,  
 MCFD, BWPD

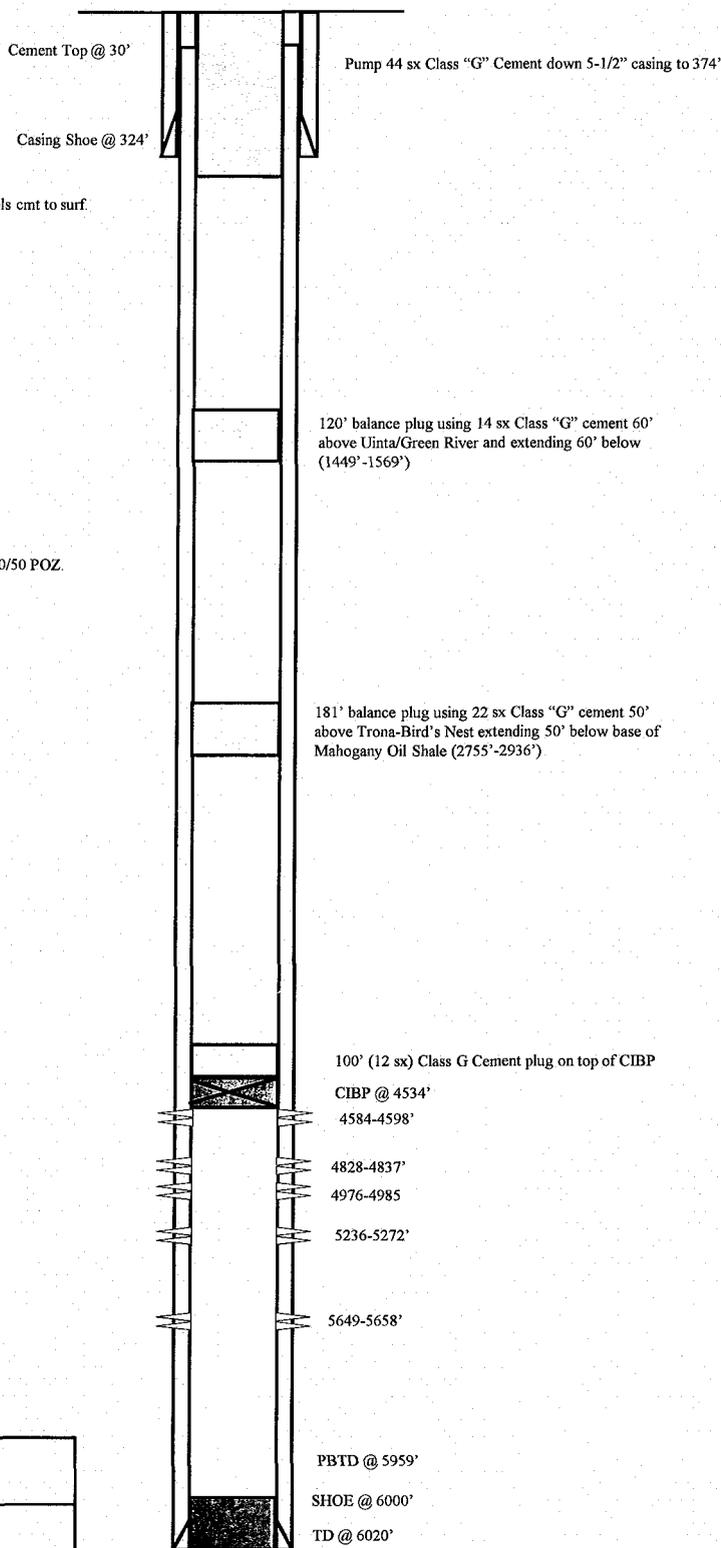
### Proposed P & A Wellbore Diagram

#### SURFACE CASING

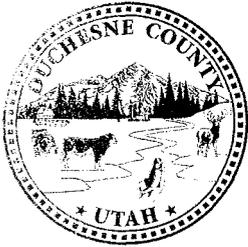
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (312.36')  
 DEPTH LANDED: 324.21' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 1- 160, 2-300 sxs Class "G" cmt, est 7 bbls cmt to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 154 jts. (5986.37')  
 DEPTH LANDED: 5999.62' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
 CEMENT TOP: 30'




<b>BELUGA FEDERAL 15-18-9-16</b> 657'FSL & 2350' FEL SW/SE Section 18-T9S-R16E Duchesne Co, Utah API #43-013-33001; Lease # UTU-64379



*Duchesne County Planning, Zoning  
& Community Development  
734 North Center Street  
P.O. Box 317  
Duchesne, Utah 84021  
(435) 738-1152  
Fax (435) 738-5522*

June 26, 2012

Mr. Brad Hill, Permitting Manager  
Division of Oil, Gas and Mining  
PO Box 145801  
Salt Lake City, UT 84114-5801

RECEIVED

JUN 27 2012

DIV. OF OIL, GAS & MINING

RE: Newfield Production Company Injection Wells (Causes No UIC-395 & 396)

Dear Mr. Hill:

We are in receipt of your notice regarding Newfield Production Company's request to convert 30 wells, located in Sections 5, 8, 9, 11, 12, 13, 16, 17, 18, 19, 21, 22, 23, 24, 27, 29 and 30, Township 9 South, Range 16 East, Duchesne County, to Class II injection wells.

Duchesne County is supportive of this request and recommends approval under conditions that your agency deems appropriate.

Thank you for the opportunity to comment.

Sincerely,

Mike Hyde, AICP  
Community Development Administrator

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

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-396

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 9, 11, 12, 13, 16, 17, 18, 21, 22, 24, 27, AND 29, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

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

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

Greater Monument Butte Unit:

Federal 15-9-9-16 well located in SW/4 SE/4, Section 9, Township 9 South, Range 16 East  
API 43-013-33054  
Walton Federal 4 well located in SE/4 NW/4, Section 11, Township 9 South, Range 16 East  
API 43-013-15795  
C-O Govt 1 well located in NW/4 SW/4, Section 12, Township 9 South, Range 16 East  
API 43-013-15111  
Monument Federal 24-12J well located in SE/4 SW/4, Section 12, Township 9 South, Range 16 East  
API 43-013-31409  
Federal 15-13-9-16 well located in SW/4 SE/4, Section 13, Township 9 South, Range 16 East  
API 43-013-32648  
State 1-16-9-16 well located in NE/4 NE/4, Section 16, Township 9 South, Range 16 East  
API 43-013-33845  
Federal 11-17-9-16 well located in NE/4 SW/4, Section 17, Township 9 South, Range 16 East  
API 43-013-33034  
Federal 15-18-9-16 well located in SW/4 SE/4, Section 18, Township 9 South, Range 16 East  
API 43-013-33001  
Federal 5-21-9-16 well located in SW/4 NW/4, Section 21, Township 9 South, Range 16 East  
API 43-013-33020  
Federal 11A-22-9-16 well located in NE/4 SW/4, Section 22, Township 9 South, Range 16 East  
API 43-013-33149  
Federal 1-24-9-16 well located in NE/4 NE/4, Section 24, Township 9 South, Range 16 East  
API 43-013-33082  
Federal 1-27-9-16 well located in NE/4 NE/4, Section 27, Township 9 South, Range 16 East  
API 43-013-33350  
Federal 3-29-9-16 well located in NE/4 NW/4, Section 29, Township 9 South, Range 16 East  
API 43-013-33425

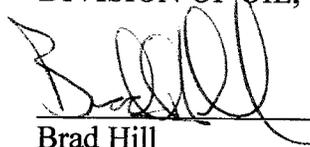
The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

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 21<sup>st</sup> day of June, 2012.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING

A handwritten signature in black ink, appearing to read 'Brad Hill', is written over a horizontal line.

Brad Hill  
Permitting Manager

**Newfield Production Company**

**FEDERAL 15-9-9-16, WALTON FEDERAL 4, C-O GOVT 1, MONUMENT FEDERAL 24-12J,  
FEDERAL 15-13-9-16, STATE 1-16-9-16, FEDERAL 11-17-9-16, FEDERAL 15-18-9-16,  
FEDERAL 5-21-9-16, FEDERAL 11A-22-9-16, FEDERAL 1-24-9-16, FEDERAL 1-27-9-16,  
FEDERAL 3-29-9-16**

**Cause No. UIC-396**

Publication Notices were sent to the following:

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

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

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

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

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

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

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

Newfield Production Company  
Rt 3 Box 3630  
Myton, UT 84052

  
\_\_\_\_\_



GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

June 21, 2012

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-396

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 - Re: Notice of Agency Action – Newfield Production Company Cause No. UIC-396**

**From:** Cindy Kleinfelter <classifieds@ubstandard.com>  
**To:** Jean Sweet <jsweet@utah.gov>  
**Date:** 6/22/2012 8:05 AM  
**Subject:** Re: Notice of Agency Action – Newfield Production Company Cause No. UIC-396

On 6/21/2012 5:41 PM, Jean Sweet wrote:

To Whom It May Concern:

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

Please send proof of publication and billing to:

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

Sincerely,

Jean Sweet, Executive Secretary  
Utah Div. of Oil, Gas & Mining  
1594 West Temple, Suite 1210  
Salt Lake City, UT  
801-538-5329  
[jsweet@utah.gov](mailto:jsweet@utah.gov)

Received. Thank you. It will run June 26.  
Cindy



GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

June 21, 2012

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-396

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

**From:** "Fultz, Mark" <naclegal@mediaoneutah.com>  
**To:** <jsweet@utah.gov>  
**Date:** 6/22/2012 9:04 AM  
**Subject:** Legal Notice - UIC 396  
**Attachments:** OrderConf.pdf

AD# 802908  
Run Trib/DNews - 6/26  
Cost \$393.08  
Thank you  
Mark

## Order Confirmation for Ad #0000802908-01

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

<b>Total Amount</b>	<b>\$393.08</b>			
<b>Payment Amt</b>	<b>\$0.00</b>			
<b>Amount Due</b>	<b>\$393.08</b>	<b>Tear Sheets</b>	<b>Proofs</b>	<b>Affidavits</b>
		0	0	1

**Payment Method** **PO Number** UIC 396

**Confirmation Notes:**

**Text:** Jean

<b>Ad Type</b>	<b>Ad Size</b>	<b>Color</b>
Legal Liner	3.0 X 77 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>	06/26/2012	
<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>	06/26/2012	
<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>	06/26/2012	
<u>Product</u>	<u>Placement</u>	<u>Position</u>
utahlegals.com::	utahlegals.com	utahlegals.com
<b>Scheduled Date(s):</b>	06/26/2012	

## Order Confirmation for Ad #0000802908-01

Ad Content Proof Actual Size

# Order Confirmation for Ad #0000802908-01

Ad Content Proof 135%

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-396

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 9, 11, 12, 13, 16, 17, 18, 21, 22, 24, 27, AND 29, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

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

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

Federal 15-9-9-16 well located in SW/4 SE/4, Section 9, Township 9 South, Range 16 East  
API 43-013-33054  
Walter Federal 4 well located in SE/4 NW/4, Section 11, Township 9 South, Range 16 East  
API 43-013-15795  
C-O Govt 1 well located in NW/4 SW/4, Section 12, Township 9 South, Range 16 East  
API 43-013-15111  
Monument Federal 24-12J well located in SE/4 SW/4, Section 12, Township 9 South, Range 16 East  
API 43-013-31409  
Federal 15-13-9-16 well located in SW/4 SE/4, Section 13, Township 9 South, Range 16 East  
API 43-013-32648  
State 1-16-9-16 well located in NE/4 NE/4, Section 16, Township 9 South, Range 16 East  
API 43-013-33845  
Federal 11-17-9-16 well located in NE/4 SW/4, Section 17, Township 9 South, Range 16 East  
API 43-013-33034  
Federal 15-18-9-16 well located in SW/4 SE/4, Section 18, Township 9 South, Range 16 East  
API 43-013-33001  
Federal 5-21-9-16 well located in SW/4 NW/4, Section 21, Township 9 South, Range 16 East  
API 43-013-33020  
Federal 11A-22-9-16 well located in NE/4 SW/4, Section 22, Township 9 South, Range 16 East  
API 43-013-33149  
Federal 1-24-9-16 well located in NE/4 NE/4, Section 24, Township 9 South, Range 16 East  
API 43-013-33082  
Federal 1-27-9-16 well located in NE/4 NE/4, Section 27, Township 9 South, Range 16 East  
API 43-013-33350  
Federal 3-29-9-16 well located in NE/4 NW/4, Section 29, Township 9 South, Range 16 East  
API 43-013-33425

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

Selected zones in the Greer 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) 528-5340. 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 21st day of June, 2012.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING

/s/  
Brad Hill  
Permitting Manager  
802908

UPAXLP



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

September 21, 2012

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

Subject: Greater Monument Butte Unit Well: Federal 15-18-9-16, Section 18, Township 9 South, Range 16 East, SLBM, Duchesne County, Utah, API Well # 43-013-33001

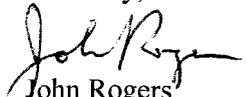
Gentlemen:

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 3,897 feet in the Federal 15-18-9-16 well.

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

Sincerely,

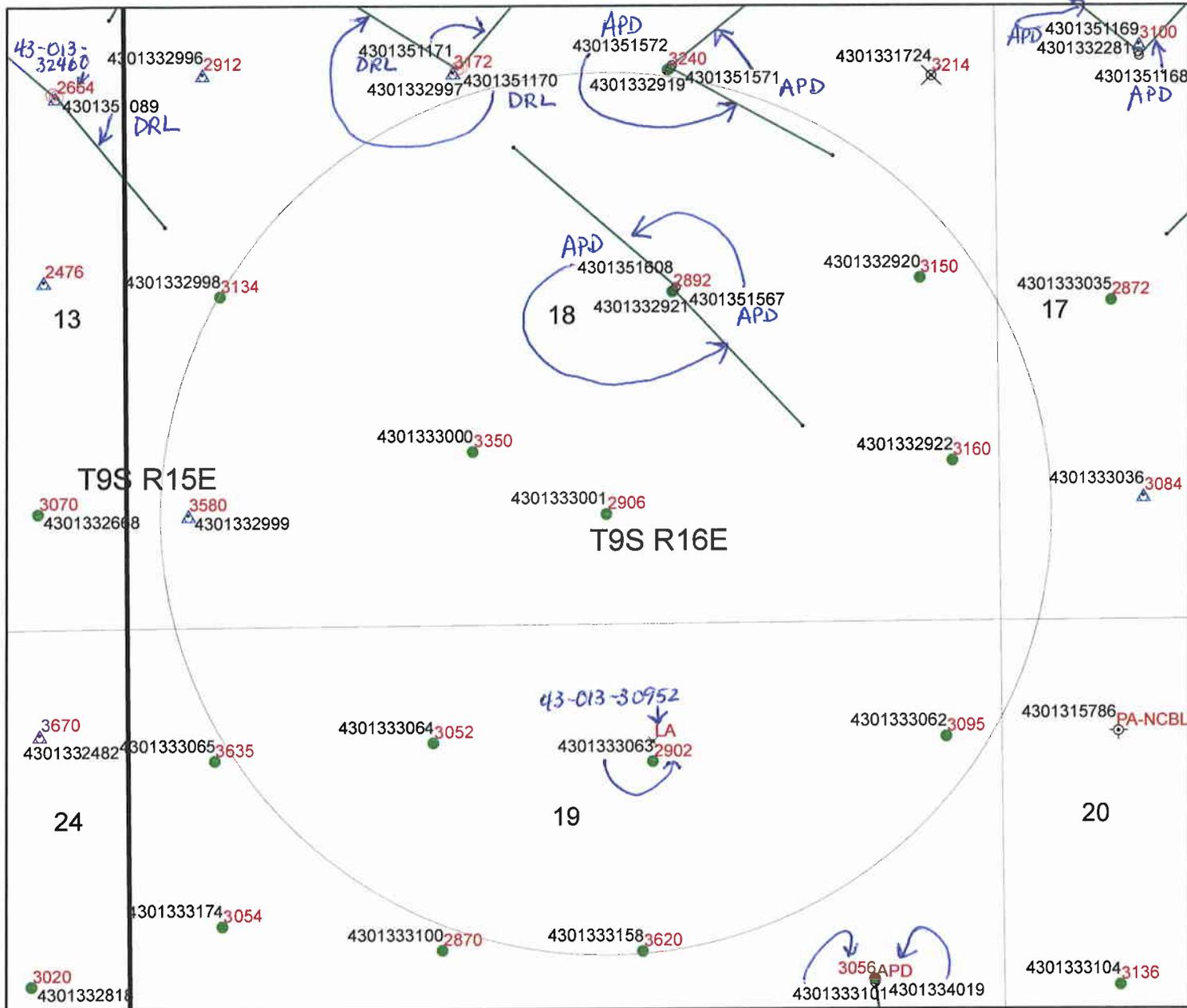
  
John Rogers  
Associate Director

JR/MLR/ear

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\Newfield\Greater Monument Butte Unit





Cement Bond Tops  
 FEDERAL 15-18-9-16  
 API #43-013-33001  
 UIC 396.8

### Legend

- |  |                                       |
|--|---------------------------------------|
| Buffer_of_SGID93_ENERGY_DNROilGasWells_141 | PGW                                   |
| SGID93_ENERGY.DNROilGasWells               | POW                                   |
| <b>SGID93_ENERGY.DNROilGasWells</b>        | RET                                   |
| <b>GIS_STAT_TYPE</b>                       | SGW                                   |
| APD  | SOW                                   |
| DRL  | TA                                    |
| GIW  | TW                                    |
| GSW  | WDW                                   |
| LA   | WIW                                   |
| LOC  | WSW                                   |
| OPS  | SGID93_BOUNDARIES_Counties            |
| PA   | SGID93_ENERGY.DNROilGasWells_HDBottom |
|  | SGID93_ENERGY.DNROilGasWells_HDPath   |
|  | Wells-CbltopsMaster08_31_12           |



1870calc = approx cement top calculated from well completion report

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

**Applicant:** Newfield Production Company      **Well:** Federal 15-18-9-16

**Location:** 18/9S/16E      **API:** 43-013-33001

**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 324 feet and has a cement top at the surface. A 5½ inch production casing is set at 6,000 feet. The cement bond log is somewhat problematic but appears to demonstrate adequate bond in this well up to about 2,906 feet. A 2 7/8 inch tubing with a packer will be set at 4,534 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 10 producing wells and 1 injection well in the AOR. In addition, there is 1 approved surface location outside the AOR, from which a directional well will be drilled to a bottom hole location inside the AOR. All of the existing wells have evidence of adequate casing and cement for the proposed injection interval.

**Ground Water Protection:** As interpreted from the Utah Geological Survey's DOE Project-Uinta Basin Water Draft Map (Paul B. Anderson, December 2, 2011), the base of moderately saline water (3000-10,000 mg/l TDS) is at a depth of approximately 2200 feet. Injection shall be limited to the interval between 3,897 feet and 5,959 feet in the Green River Formation. Information submitted by Newfield indicates that the fracture gradient for the 15-18-9-16 well is 0.75 psi/ft., which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 1,768 psig. The requested maximum pressure is 1,768 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 15-18-9-16**  
**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: 9/13/2012

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>5.LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-64379	
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  	<b>7.UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> FEDERAL 15-18-9-16
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY	<b>9. API NUMBER:</b> 43013330010000
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052	<b>PHONE NUMBER:</b> 435 646-4825 Ext
<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE	<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0657 FSL 2350 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSE Section: 18 Township: 09.0S Range: 16.0E Meridian: S
<b>6. COUNTY:</b> DUCHESNE	<b>7. STATE:</b> UTAH

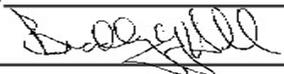
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 10/23/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input checked="" type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input checked="" type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

The subject well has been converted from a producing oil well to an injection well on 10/22/2012. On 10/19/2012 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 10/23/2012 the casing was pressured up to 1715 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 500 psig during the test. There was not a State representative available to witness the test.

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

**Date:** October 29, 2012  
**By:** 

<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/24/2012	

# Mechanical Integrity Test Casing or Annulus Pressure Test

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

Witness: \_\_\_\_\_ Date 10 / 23 / 12 Time 9:00 am pm  
Test Conducted by: Michael Jensen  
Others Present: \_\_\_\_\_

Well: <del>Federal 15-18-9-16</del>	Field: <u>Greater Monument Butte</u>
Well Location: <u>Federal 15-18-9-16</u>	API No: <u>43-013-33001</u>

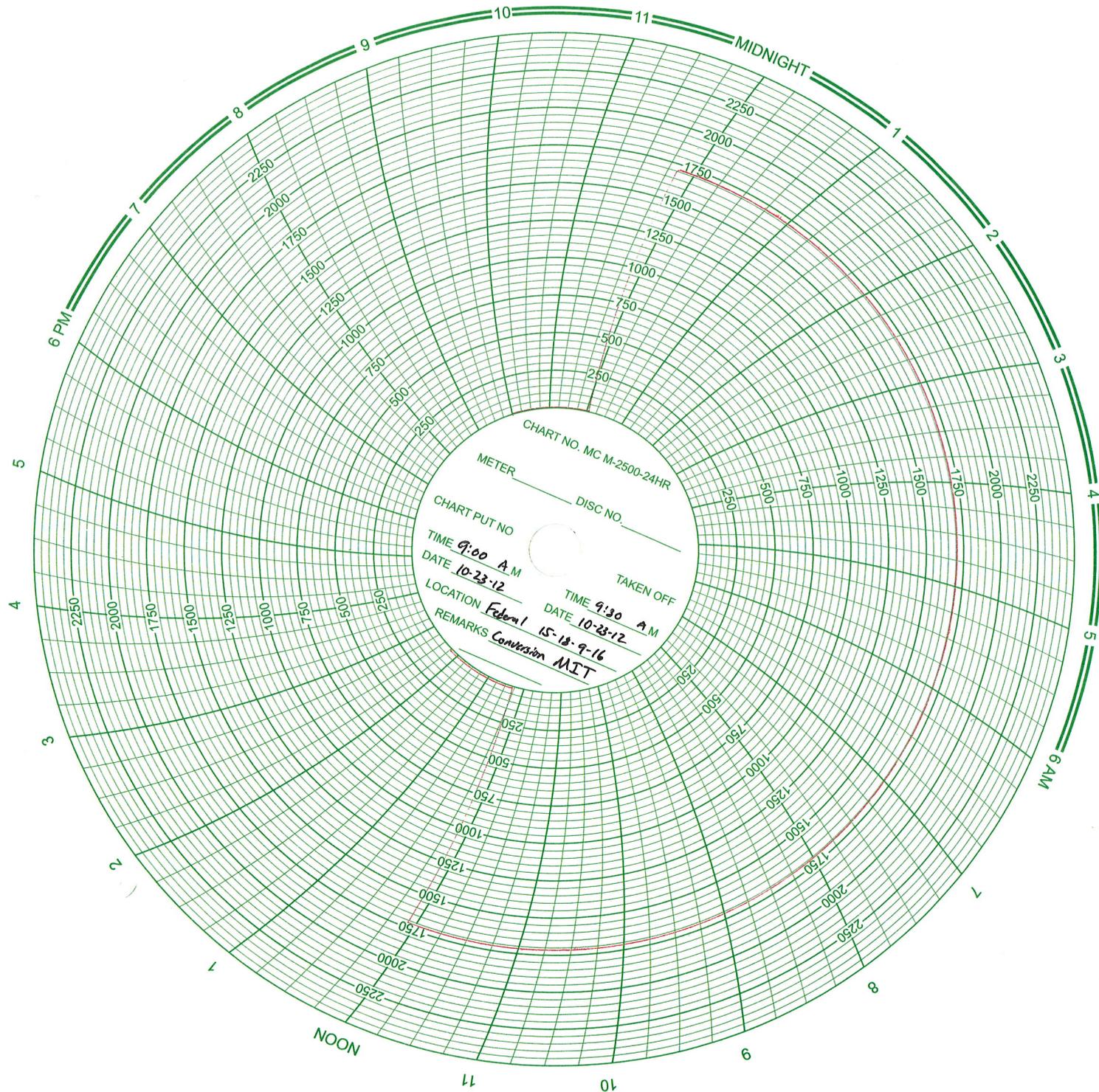
<u>Time</u>	<u>Casing Pressure</u>	
0 min	<u>1715</u>	psig
5	<u>1715</u>	psig
10	<u>1715</u>	psig
15	<u>1715</u>	psig
20	<u>1715</u>	psig
25	<u>1715</u>	psig
30 min	<u>1715</u>	psig
35	_____	psig
40	_____	psig
45	_____	psig
50	_____	psig
55	_____	psig
60 min	_____	psig

Tubing pressure: 500 psig

Result: Pass Fail

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

Signature of Person Conducting Test: Michael Jensen



## Daily Activity Report

Format For Sundry

**FEDERAL 15-18-9-16**

**8/1/2012 To 12/30/2012**

**10/16/2012 Day: 1**

**Conversion**

NC #1 on 10/16/2012 - MIRUNC#1,R/D Unit,U/S pmp,Flush Tbg W/-40 BW, S/P Fill Tbg W/-12 BW,P/Tst Tbg To 3500 Psi,U/S pmp,POOH W/-Polish Rod 3/4X2'-6' Ponys,SWI, C/SDFN. - 12:30PM Move In NC#1. Wt On Benco To Pull Test Guyline Anchors. R/U Rig, R/D Unit, Unseat pmp, Flush Tbg W/-40 BW, Seat pmp, Fill Tbg W/- 12 BW, P/Test Tbg To 3,500 Psi, Good Test, Unseat pmp, L/D Polish Rod,3/4X2'-6' Ponys, SWI, 6:00PM C/SDFN, 6:00PM-6:30PM C/Trvl. - 12:30PM Move In NC#1. Wt On Benco To Pull Test Guyline Anchors. R/U Rig, R/D Unit, Unseat pmp, Flush Tbg W/-40 BW, Seat pmp, Fill Tbg W/- 12 BW, P/Test Tbg To 3,500 Psi, Good Test, Unseat pmp, L/D Polish Rod,3/4X2'-6' Ponys, SWI, 6:00PM C/SDFN, 6:00PM-6:30PM C/Trvl. **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$4,335

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**10/17/2012 Day: 2**

**Conversion**

NC #1 on 10/17/2012 - pooh l/d rod prod.n/u bop,pooh w/tbg prod redo tool jts,l/d excss tbg.SWI, C/SDFN. - 5:30AM-6:00AM C/Trvl. 6:00AM OWU, POOH L/D 93- 3/4 4 Per, 87- 3/4 Slick, 20- 3/4 4 Per, 20- 7/8 8 Per, 6- 1 1/2 Wt Bars & pmp, Flushed Tbg W/-20 BW On TOOH. N/D W/-HD, N/U BOP, R/U R/Flr, Rel T/A, POOH W/-147 Jts Tbg In Derrick Breaking & Redoping Tool Jts, L/D 35 Jts Tbg, 5 1/2 T/A, 2 Jts Tbg, S/N, 2 Jts Tbg, N/C On Float. Flushed Tbg W/-20 BW On TOOH Due To Oil. SWI, 6:00PM C/SDFN, 6:00PM-6:30PM C/Trvl. - 5:30AM-6:00AM C/Trvl. 6:00AM OWU, POOH L/D 93- 3/4 4 Per, 87- 3/4 Slick, 20- 3/4 4 Per, 20- 7/8 8 Per, 6- 1 1/2 Wt Bars & pmp, Flushed Tbg W/-20 BW On TOOH. N/D W/-HD, N/U BOP, R/U R/Flr, Rel T/A, POOH W/-147 Jts Tbg In Derrick Breaking & Redoping Tool Jts, L/D 35 Jts Tbg, 5 1/2 T/A, 2 Jts Tbg, S/N, 2 Jts Tbg, N/C On Float. Flushed Tbg W/-20 BW On TOOH Due To Oil. SWI, 6:00PM C/SDFN, 6:00PM-6:30PM C/Trvl.

**Daily Cost:** \$0

**Cumulative Cost:** \$11,742

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**10/18/2012 Day: 3**

**Conversion**

NC #1 on 10/18/2012 - owu,Rih w/-pkr assembly & tbg prod, flush tbg w/20 bw,drop s/v,fill tbg,p/tst tbg to 3,000 psi,good tst.fish sv,n/d bop,n/u w/hd,pmp pkr fluid,n/d w/hd,set pkr in 15,000 tension,n/u w/hd,pressure Csg up to 1,500 psi,swi,c/sdfn - 7:30AM-8:00AM C/Trvl. 8:00 AM To 12:00PM Safety Meeting. 12:00PM OWU, P/U & RIH W/-2 3/8 Re entry Guide, 2 3/8 X/N Nipple, 2 3/8X6.20 Tbg Sub, 2 3/8X2 7/8 XO, 5 1/2" Arrow #1 Pkr, On Off Tool, 2 7/8 S/N, 146 Jts 2 7/8 Tbg ,2- 2 7/8X6' Tbg Subs,1 Jt 2 7/8 Tbg, R/U BMW H/Oiler, Flush Tbg W/-20 BW, Drop SV D/Tbg, Fill Tbg W/-24 BW, P/Test Tbg To 3,000 Psi, Good Test. R/U S/Line Ovrshot RIH & Fish SV. R/D R/Flr, N/D BOP, N/U W/-HD, BMW H/Oiler pmp 70 BW W/-20 Gal Pkr Fluid D/Csg, N/D W/-HD, Set Pkr In 15,000 Tension, N/U W/-HD, Fill Csg W/-30 BW, P/Test Csg To 1,500 Psi, SWI, 7:00PM C/SDFN, 7:00PM-7:30PM C/Trvl - 7:30AM-8:00AM C/Trvl. 8:00 AM To 12:00PM Safety Meeting. 12:00PM OWU, P/U & RIH W/-2 3/8 Re entry Guide, 2 3/8 X/N Nipple, 2 3/8X6.20 Tbg Sub, 2 3/8X2 7/8 XO, 5 1/2" Arrow #1 Pkr, On Off Tool, 2 7/8 S/N, 146 Jts 2 7/8 Tbg ,2- 2 7/8X6' Tbg Subs,1 Jt 2 7/8 Tbg, R/U BMW H/Oiler, Flush Tbg W/-20 BW, Drop SV D/Tbg, Fill Tbg W/-24 BW, P/Test Tbg To 3,000 Psi, Good Test. R/U S/Line Ovrshot RIH & Fish SV. R/D R/Flr, N/D BOP, N/U W/-HD, BMW H/Oiler pmp 70 BW W/-20 Gal Pkr Fluid D/Csg, N/D W/-HD, Set Pkr In 15,000 Tension, N/U W/-HD, Fill Csg W/-

30 BW, P/Test Csg To 1,500 Psi, SWI, 7:00PM C/SDFN, 7:00PM-7:30PM C/Trvl

**Daily Cost:** \$0

**Cumulative Cost:** \$30,806

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**10/19/2012 Day: 4**

**Conversion**

NC #1 on 10/19/2012 - owu w/220 psi on csg,bmp csg psi to 1500,p/tst csg,leak 700 psi in 1 hr.n/u bop,pooh w/tbg prod & pkr.Rih w/new pkr assmbly,flsh tbg,drp sv,fill & p/tst tbg to 3,000 psi,no tst, fish sv,pmp pad,drp used sv,fill & p/tst tbg to 3,000 psi,swi,c/sdfn. - 5:30AM-6:00AM C/Trvl. 6:00AM OWU W/-220 Psi On Csg, Lost 1280 Psi Ovr Night. R/U H/Oiler Bump Csg Psi To 1,500 Ps 2Times, Leaking 700 Psi Per Hr. N/D W/-HD, N/U BOP, R/U R/Flr, Rel Pkr, POOH W/-Tbg Prod & Pkr, P/U & RIH W/-2 3/8 Re entry Guide, 2 3/8 X/N Nipple, 2 3/8X6' Tbg Sub, 2 3/8X2 7/8 XO, New 5 1/2 Arrow #1 Pkr, New On Off Tool, New 2 7/8 S/N, 146 Jts 2 7/8 Tbg, 2- 2 7/8X6' Ponys, 1 Jt 2 7/8 Tbg, Flush Tbg W/-20 BW, Drop SV, Fill Tbg W/-30 BW, P/Test Tbg To 3,000 Psi, No Test Keaking 4 Psi Per Min. R/U S/Line Ovrshot RIH & Fish SV. pmp 20 BW Pad D/Tbg, Drop Used SV, Fill Tbg W/-26 BW, P/Test Tbg To 3,000 Psi, SWI, 6:30PM C/SDFN, 6:30PM-7:00PM C/Trvl. - 5:30AM-6:00AM C/Trvl. 6:00AM OWU W/-220 Psi On Csg, Lost 1280 Psi Ovr Night. R/U H/Oiler Bump Csg Psi To 1,500 Ps 2Times, Leaking 700 Psi Per Hr. N/D W/-HD, N/U BOP, R/U R/Flr, Rel Pkr, POOH W/-Tbg Prod & Pkr, P/U & RIH W/-2 3/8 Re entry Guide, 2 3/8 X/N Nipple, 2 3/8X6' Tbg Sub, 2 3/8X2 7/8 XO, New 5 1/2 Arrow #1 Pkr, New On Off Tool, New 2 7/8 S/N, 146 Jts 2 7/8 Tbg, 2- 2 7/8X6' Ponys, 1 Jt 2 7/8 Tbg, Flush Tbg W/-20 BW, Drop SV, Fill Tbg W/-30 BW, P/Test Tbg To 3,000 Psi, No Test Keaking 4 Psi Per Min. R/U S/Line Ovrshot RIH & Fish SV. pmp 20 BW Pad D/Tbg, Drop Used SV, Fill Tbg W/-26 BW, P/Test Tbg To 3,000 Psi, SWI, 6:30PM C/SDFN, 6:30PM-7:00PM C/Trvl.

**Daily Cost:** \$0

**Cumulative Cost:** \$38,948

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**10/22/2012 Day: 5**

**Conversion**

NC #1 on 10/22/2012 - owu w/3000 psi on tbg good tst,n/d bop,pmp pkr fluid,set pkr,n/u w/-hd,p/tst csg & pkr to 1500 psi,good tst, R/D Rig Well Ready For MIT ( Final Rig Report ). - 5:30AM-6:00AM C/Trvl. 6:00AM OWU W/-3,000 Psi On Tbg, Good Test. R/U S/Line Ovrshot RIH & Fish SV. R/D R/Flr, N/D BOP, N/U W/-HD, R/U BMW H/Oiler pmp 70 BW W/-15 Gal Pkr Fluid D/Csg, N/D W/-HD, Set Pkr In 15,000 Tension, N/U W/-HD, Fill Csg W/-40 BW, P/Test Csg & Pkr To 1,500 Psi, Good Test. R/D Rig @ 12:30PM Move Out, Well Ready For MIT ( Final Rig Report ). - 5:30AM-6:00AM C/Trvl. 6:00AM OWU W/-3,000 Psi On Tbg, Good Test. R/U S/Line Ovrshot RIH & Fish SV. R/D R/Flr, N/D BOP, N/U W/-HD, R/U BMW H/Oiler pmp 70 BW W/-15 Gal Pkr Fluid D/Csg, N/D W/-HD, Set Pkr In 15,000 Tension, N/U W/-HD, Fill Csg W/-40 BW, P/Test Csg & Pkr To 1,500 Psi, Good Test. R/D Rig @ 12:30PM Move Out, Well Ready For MIT ( Final Rig Report ).

**Daily Cost:** \$0

**Cumulative Cost:** \$44,323

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**10/23/2012 Day: 6**

**Conversion**

Rigless on 10/23/2012 - Conduct Initial MIT - The subject well has been converted from a producing oil well to an injection well on 10/17/2012. On 10/19/2012 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 10/23/2012 the casing was pressured up to 1715 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 500 psig during the test. There was not a State representative available to witness the test. - The subject well has been converted from a producing oil well to an injection well on 10/17/2012.

On 10/19/2012 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 10/23/2012 the casing was pressured up to 1715 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 500 psig during the test. There was not a State representative available to witness the test. **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$129,457

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

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-64379	
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>	
<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)	
<b>1. TYPE OF WELL</b> Water Injection Well	
<b>8. WELL NAME and NUMBER:</b> FEDERAL 15-18-9-16	
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY	
<b>9. API NUMBER:</b> 43013330010000	
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052 <b>PHONE NUMBER:</b> 435 646-4825 Ext	
<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE	
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0657 FSL 2350 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSE Section: 18 Township: 09.0S Range: 16.0E Meridian: S	
<b>COUNTY:</b> DUCHESNE	
<b>STATE:</b> UTAH	

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/27/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input 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 checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Put on Injection"/>

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 2:45 PM on 11/27/2012.

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

Date: December 12, 2012

By:

<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 11/30/2012	

# FEDERAL 15-18-9-16

Spud Date: 09/18/07  
 Put on Production: 10/16/07  
 GL: 6049' KB: 6061'

## Injection Wellbore Diagram

### SURFACE CASING

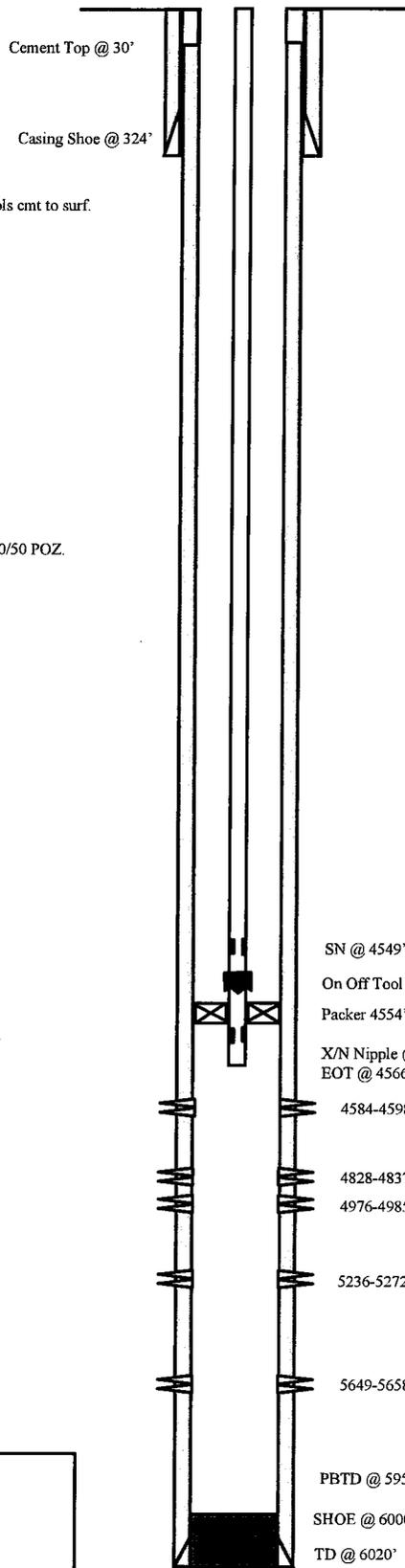
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (312.36')  
 DEPTH LANDED: 324.21' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 1- 160, 2-300 sxs Class "G" cmt, est 7 bbls cmt to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 154 jts. (5986.37')  
 DEPTH LANDED: 5999.62' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
 CEMENT TOP: 30'

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 TUBING 1 jt 2-7/8" N-80 (31.2')  
 TBG SUB 2-7/8 N-80 (6.2')  
 TBG SUB 2-7/8 J-55 (6.2')  
 NO. OF JOINTS: 146 jts (4492.9')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4548.6' KB  
 ON/OFF TOOL AT: 4549.7'  
 ARROW #1 PACKER CE AT: 4554.41'  
 XO 2-3/8 x 2-7/8 J-55 AT: 4558.1'  
 TBG SUB 2-3/8 J-55 AT: 4558.6'  
 X/N NIPPLE AT: 4564.8'  
 TOTAL STRING LENGTH: EOT @ 4566'



### FRAC JOB

10/11/07	5649-5658'	<b>Frac CP3 sands as follows:</b> 15067# 20/40 sand in 290 bbls Lightning 17 frac fluid. Treated @ avg press of 2158 psi w/avg rate of 24.8 BPM. ISIP 1805 psi. Calc flush: 5647 gal. Actual flush: 5166 gal.
10/11/07	5236-5272'	<b>Frac LODC sands as follows:</b> 159885# 20/40 sand in 1115 bbl Lightning 17 frac fluid. Treated @ avg press of 1955 psi w/avg rate of 24.8 BPM. ISIP 2340 psi. Calc flush: 5234 gal. Actual flush: 4746 gal.
10/11/07	4976-4985'	<b>Frac A1 sands as follows:</b> 34607# 20/40 sand in 423 bbls Lightning 17 frac fluid. Treated @ avg press of 2543 psi w/avg rate of 29.9 BPM. ISIP 3582 psi. Calc flush: 4974 gal. Actual flush: 4494 gal.
10/11/07	4828-4837'	<b>Frac B1 sands as follows:</b> 15082# 20/40 sand in 267 bbls Lightning 17 frac fluid. Treated @ avg press of 2075 psi w/avg rate of 24.8 BPM. ISIP 1935 psi. Calc flush: 4826 gal. Actual flush: 4326 gal.
10/11/07	4584-4598'	<b>Frac D1 sands as follows:</b> 47763# 20/40 sand in 455 bbls Lightning 17 frac fluid. Treated @ avg press of 1975 psi w/avg rate of 24.8 BPM. ISIP 2078 psi. Calc flush: 4582 gal. Actual flush: 4491 gal.
12-31-07		<b>Pump Change.</b> Updated rod & tubing details.
10/22/12		<b>Convert to Injection Well</b>
10/23/12		<b>Conversion MIT Finalized</b> – update tbg detail

### PERFORATION RECORD

10/11/07	4584-4598'	4 JSPF	56 holes
10/11/07	4828-4837'	4 JSPF	36 holes
10/11/07	4976-4985'	4 JSPF	36 holes
10/11/07	5236-5272'	4 JSPF	144 holes
10/11/07	5649-5658'	4 JSPF	36 holes

**NEWFIELD**

**BELUGA FEDERAL 15-18-9-16**

657' FSL & 2350' FEL  
 SW/SE Section 18-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33001; Lease # UTU-64379



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

## UNDERGROUND INJECTION CONTROL PERMIT

### Cause No. UIC-396

**Operator:** Newfield Production Company  
**Well:** Federal 15-18-9-16  
**Location:** Section 18, Township 9 South, Range 16 East  
**County:** Duchesne  
**API No.:** 43-013-33001  
**Well Type:** Enhanced Recovery (waterflood)

### Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on September 21, 2012.
2. Maximum Allowable Injection Pressure: 1,768 psig
3. Maximum Allowable Injection Rate: (restricted by pressure limitation)
4. Injection Interval: Green River Formation (3,897' – 5,959')
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: Clinton L. Dewesehah  
for John Rogers  
Associate Director

11/15/2012  
Date

JR/MLR/js

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

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



Send Payments to:  
 Uintah Basin Standard  
 268 S 200 E  
 Roosevelt, Utah 84066  
 Phone: 435-722-5131  
 Fax: 435-722-4140



Invoice Number	32048	Invoice Date	6/26/2012
Advertiser No.	2080	Invoice Amount	\$157.05
		Due Date	7/26/2012

DIVISION OF OIL GAS & MINING  
 Rose Nolton  
 1594 W. N.TEMPLE STE 121  
 PO BOX 145801  
 SALT LAKE CITY, UT 84114-5801

RECEIVED

JUL 09 2012

DIV. OF OIL, GAS & MINING

1 1/2% fee will be charged to all past due balances.

Amount Enclosed

Please detach top portion and return with your payment

INVOICE

Uintah Basin Standard		DIVISION OF OIL GAS & MINING			Invoice No. 32048	6/26/2012
Date	Order	Description	Ad Size	SubTotal	Sales Tax	Amount
6/26/2012	16066 UBS	UBS Legal Notice: Notice of Agcy Actn: Cause No. UIC-396 Pub. June 26, 2012				\$157.05
					Sub Total:	\$157.05
					Total Transactions: 1	Total: \$157.05

SUMMARY Advertiser No. 2080 Invoice No. 32048

1 1/2% fee will be charged to all past due balances.  
 Thank You for your business!

Thank you for advertising with us, we appreciate your business!

43 013 33001  
 Federal 15-18-9-16  
 AS 16E 18

# AFFIDAVIT OF PUBLICATION

County of Duchesne,  
STATE OF UTAH

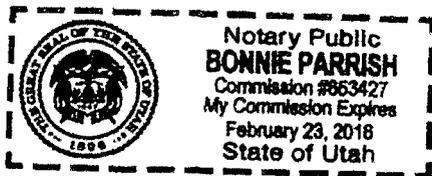
I, Kevin Ashby on oath, say that I am the PUBLISHER of the Uintah Basin Standard, a weekly newspaper of general circulation, published at Roosevelt, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue such newspaper for 1 consecutive issues, and that the first publication was on the 26 day of June, 2012, and that the last publication of such notice was in the issue of such newspaper dated the 26 day of June, 2012, and that said notice was published on Utahlegals.com on the same day as the first newspaper publication and the notice remained on Utahlegals.com until the end of the scheduled run.

Kevin Ashby  
Publisher

Subscribed and sworn to before me on this

5 day of July, 2012  
by Kevin Ashby

Bonnie Parrish  
Notary Public



## NOTICE OF AGENCY ACTION CAUSE NO. UIC-396

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 9, 11, 12, 13, 16, 17, 18, 21, 22, 24, 27, AND 29, TOWNSHIP 6 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 New-field Pr...  
pany, ll  
Suite :  
Colora  
Horrocks Engineers,  
The ENGINEER is  
which will be refunded.  
for each set, none of  
payment of \$50.00  
convey UT 84066, upon  
South 300 East, Roos-  
inject  
Office located at 157  
Gr  
Butte  
Engineers Roosevelt  
84062 or Horrocks  
Pleasant Grove, UT  
well  
Parkway Suite #400,  
SE/4  
at 2162 West Grove  
ships  
Engineers located  
East  
office of Horrocks  
June 19, 2012, at the  
W  
tained on Tuesday,  
well  
MENTS may be ob-  
NW  
CONTRACT DOCU-  
Town  
Copies of the  
A  
EVL, UTAH 84066  
C  
300 EAST, ROOS-  
OFFICE), 17 SOUTH  
locat  
Sec  
GINERS (PROJECT  
HORROCKS EN-  
nos  
GROVE, UTAH 84062  
#400, PLEASANT  
24  
PARKWAY SUITE  
ES  
WEST GROVE  
ES  
GINERS, 2162  
21  
HORROCKS EN-  
Ra  
2012:  
on Tuesday, June 19,  
19  
the following locations  
may be examined at  
18  
ings, and Addenda,  
13  
Specifications, Draw-  
12  
of Non-Collusion,  
11  
Affidavit Certificate  
Verification System  
of  
eral Conditions, Status  
6  
Supplemental Gen-  
5  
General Conditions,  
4  
ceed, Change Order,  
3  
Award, Notice to Pro-  
1  
mance Bond, Notice of  
1  
Payment Bond, Perfor-  
1  
Bid Bond, Agreement,  
8  
tion for Bidders, Bid-  
1  
ment for Bids, Informa-  
1  
sisting of Advertis-  
1  
DOCUMENTS, con-  
3  
The CONTRACT  
1  
to Proceed.  
1  
endardays from Notice  
1  
pleted within 180 cal-  
1  
Project is to be com-  
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scape restoration, land-  
1  
asphalt repair, land-  
1  
4,900 square yards of  
1  
repair, approximately  
1  
repair, gravel shoulder  
1  
include gravel driveway  
1  
The project will also in-  
1  
and 74-8" Gate Valves,  
1  
43-10" Gate Valves,  
1  
5-12" Gate Valves,  
1  
services, 35 hydrants,  
1  
mately 166 residential  
1  
also includes approxi-  
1  
locations. The project  
1  
berry River crossing  
1  
lations at 2 Straw-