

**NEWFIELD**



November 22, 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: Federal 2-22-9-16, 8-22-9-16, 5-23-9-16, 8-23-9-16, 6-24-9-16, and Sundance Federal 12-1-9-17.

Dear Diana:

Enclosed find APD's on the above referenced wells. The proposed 8-22-9-16 is an Exception Location. Our Land Department will send you the required Exception Location Letter. If you have any questions, feel free to give either Shon Mckinnon or myself a call.

Sincerely,

A handwritten signature in cursive script that reads "Mandie Crozier".

Mandie Crozier  
Regulatory Specialist

mc  
enclosures

**RECEIVED**  
**NOV 23 2005**  
**DIV. OF OIL, GAS & MINING**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-64379
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator Newfield Production Company		7. If Unit or CA Agreement, Name and No. N/A
3a. Address Route #3 Box 3630, Myton UT 84052	3b. Phone No. (include area code) (435) 646-3721	8. Lease Name and Well No. Federal 2-22-9-16
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NW/NE 645' FNL 1878' FEL 576623X 40.02185 At proposed prod. zone 4430358Y -110.10210		9. API Well No. 43-013-32958
14. Distance in miles and direction from nearest town or post office* Approximatley 25.4 miles southwest of Myton, Utah		10. Field and Pool, or Exploratory Monument Butte 100
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 558' f/lse, NA' f/unit	16. No. of Acres in lease 1626.36	11. Sec., T., R., M., or Blk. and Survey or Area NW/NE Sec. 22, T9S R16E
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. 1437'	12. County or Parish Duchesne
19. Proposed Depth 5980'	20. BLM/BIA Bond No. on file UT0056	13. State UT
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5860' 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:

- |   |  |
|---|--|
| 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 11/22/05
Title Regulatory Specialist		
Approved by (Signature) 	Name (Printed/Typed) BRADLEY G. HILL	Date 11-29-05
Title ENVIRONMENTAL SCIENTIST III		

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)

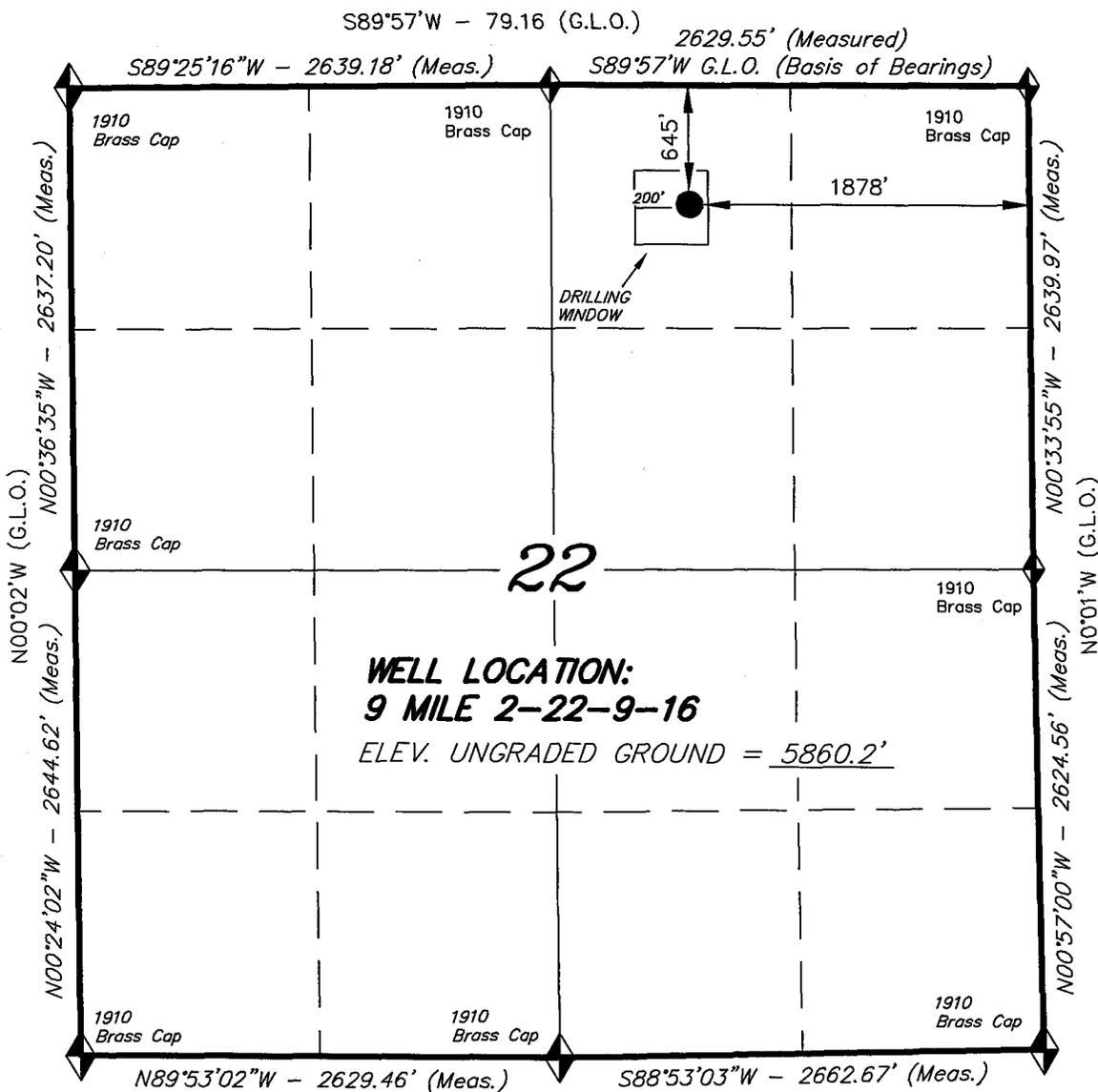
Federal Approval of this  
Action is Necessary

RECEIVED  
NOV 23 2005  
DIV. OF OIL, GAS & MINING

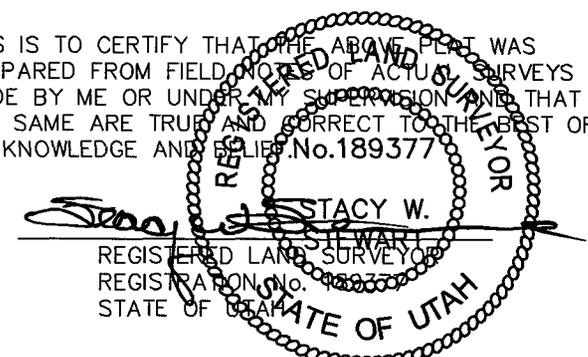
# T9S, R16E, S.L.B.&M.

NEWFIELD PRODUCTION COMPANY

WELL LOCATION, 9 MILE 2-22-9-16,  
 LOCATED AS SHOWN IN THE NW 1/4 NE  
 1/4 OF SECTION 22, T9S, R16E,  
 S.L.B.&M. DUCHESNE COUNTY, UTAH.



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



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

<b>TRI STATE LAND SURVEYING &amp; CONSULTING</b>	
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078	
(435) 781-2501	
SCALE: 1" = 1000'	SURVEYED BY: D.P.
DATE: 10-1-05	DRAWN BY: F.T.M.
NOTES:	FILE #

NEWFIELD PRODUCTION COMPANY  
FEDERAL #2-22-9-16  
NW/NE SECTION 22, 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' - 2065'
Green River	2065'
Wasatch	5980'

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

Green River Formation 2065' - 5980' - 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 #2-22-9-16  
NW/NE SECTION 22, 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 #2-22-9-16 located in the NW 1/4 NE 1/4 Section 22, T9S, R16E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.7 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southwesterly along Hwy 53 - 9.2 miles  $\pm$  to it's junction with an existing dirt road to the northeast; proceed northeasterly - 7.7 miles  $\pm$  to it's junction with an existing road to the southwest; proceed southwesterly - 2.4 miles  $\pm$  to it's junction with an existing road to the southeast; proceed southeasterly and then northeasterly - 2.8 miles  $\pm$  to it's junction with the beginning of the proposed access road; proceed along the proposed access road - 110'  $\pm$  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 Olive Black.  
Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

5. LOCATION AND TYPE OF WATER SUPPLY

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

6. SOURCE OF CONSTRUCTION MATERIALS

Please refer to the Monument Butte Field SOP.

7. METHODS FOR HANDLING WASTE DISPOSAL

Please refer to the Monument Butte Field SOP.

8. ANCILLARY FACILITIES

Please refer to the Monument Butte Field SOP.

9. WELL SITE LAYOUT

See attached Location Layout Diagram.

10. PLANS FOR RESTORATION OF SURFACE

Please refer to the Monument Butte Field SOP.

11. SURFACE OWNERSHIP - Bureau Of Land Management

12. OTHER ADDITIONAL INFORMATION

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report # 05-240, 7/25/05. Paleontological Resource Survey prepared by, Wade E. Miller, 9/28/05. See attached report cover pages, Exhibit "D".

For the Federal #2-22-9-16 Newfield Production Company requests 110' 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 110' of disturbed area be granted in Lease UTU-64379 to allow for construction of the proposed gas lines. It is proposed that the disturbed area will be 50' wide to allow for construction of a buried 6" gas gathering line, and a buried 3" poly fuel gas line. Both lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

**Water Disposal**

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

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

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

None.

**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                      *Agropyron Cristatum*                      12 lbs/acre

**Details of the On-Site Inspection**

The proposed Federal #2-22-9-16 was on-sited on 8/31/05. The following were present; Shon Mckinnon (Newfeild Production) 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

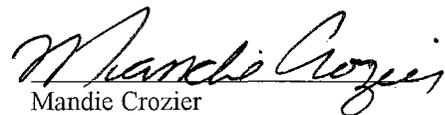
Name:                      Shon Mckinnon  
Address:                    Route #3 Box 3630  
                                  Myton, UT 84052  
Telephone:                (435) 646-3721

Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #2-22-9-16 NW/NE Section 22, 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.

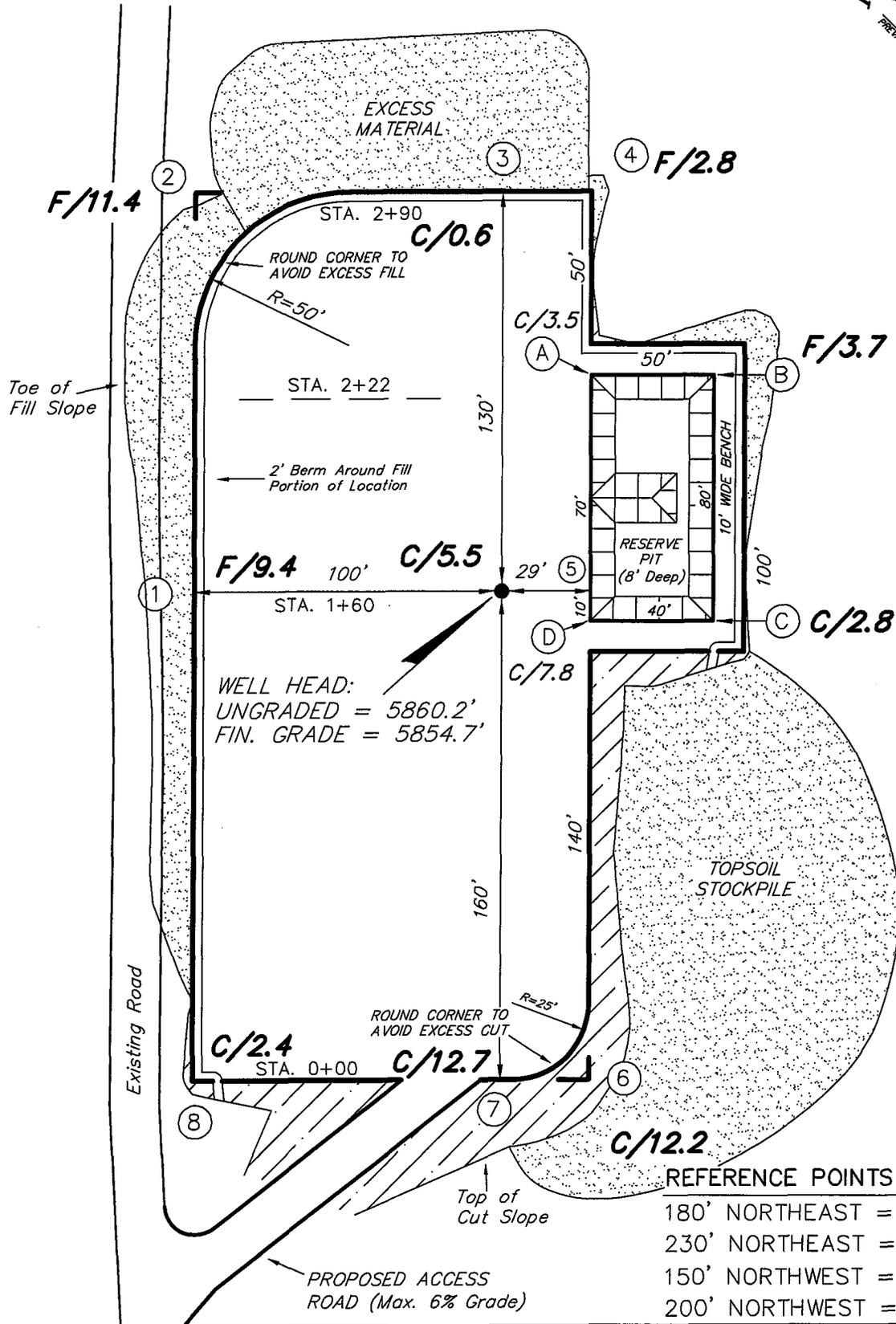
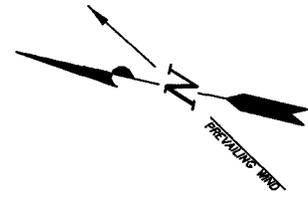
\_\_\_\_\_  
November 22, 2005  
Date

  
Mandie Crozier  
Regulatory Specialist  
Newfield Production Company

# NEWFIELD PRODUCTION COMPANY

9 MILE 2-22-9-16

Section 22, T9S, R16E, S.L.B.&M.



**REFERENCE POINTS**

- 180' NORTHEAST = 5851.6'
- 230' NORTHEAST = 5850.0'
- 150' NORTHWEST = 5841.6'
- 200' NORTHWEST = 5834.4'

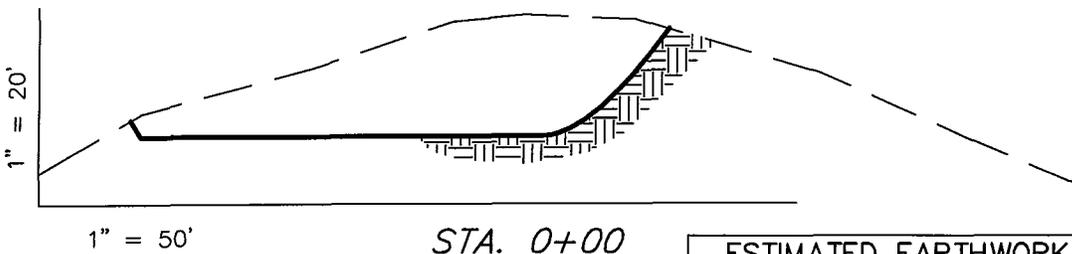
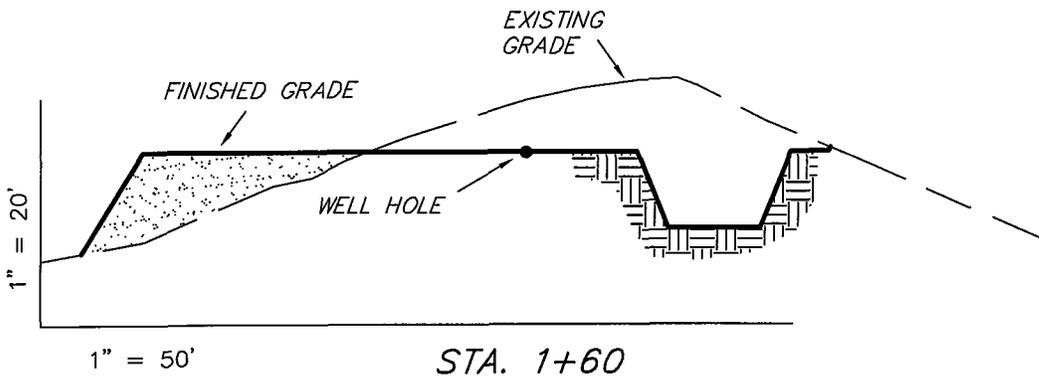
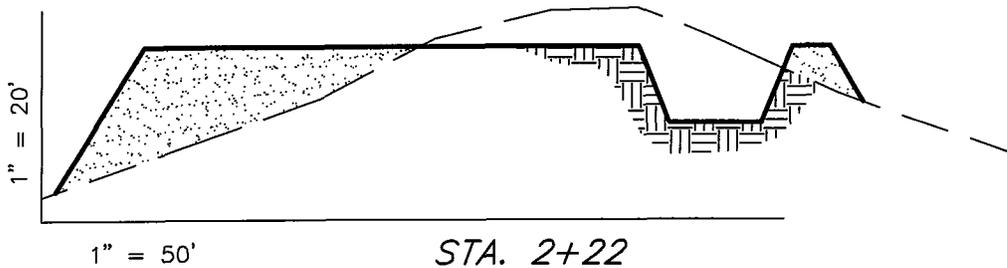
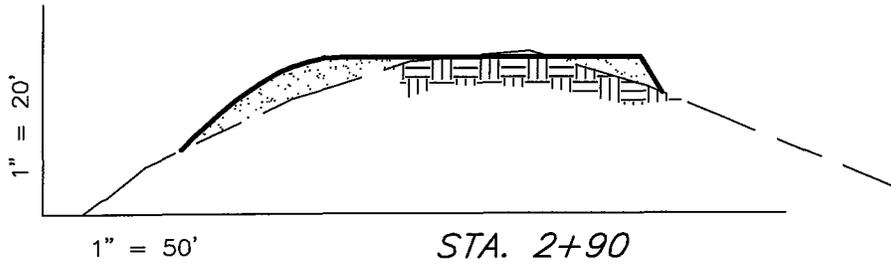
SURVEYED BY: D.P.	SCALE: 1" = 50'
DRAWN BY: F.T.M.	DATE: 10-3-05

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

# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS

9 MILE 2-22-9-16



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

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	4,130	4,130	Topsoil is not included in Pad Cut	0
PIT	640	0		640
TOTALS	4,770	4,130	950	640

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

SURVEYED BY: D.P.

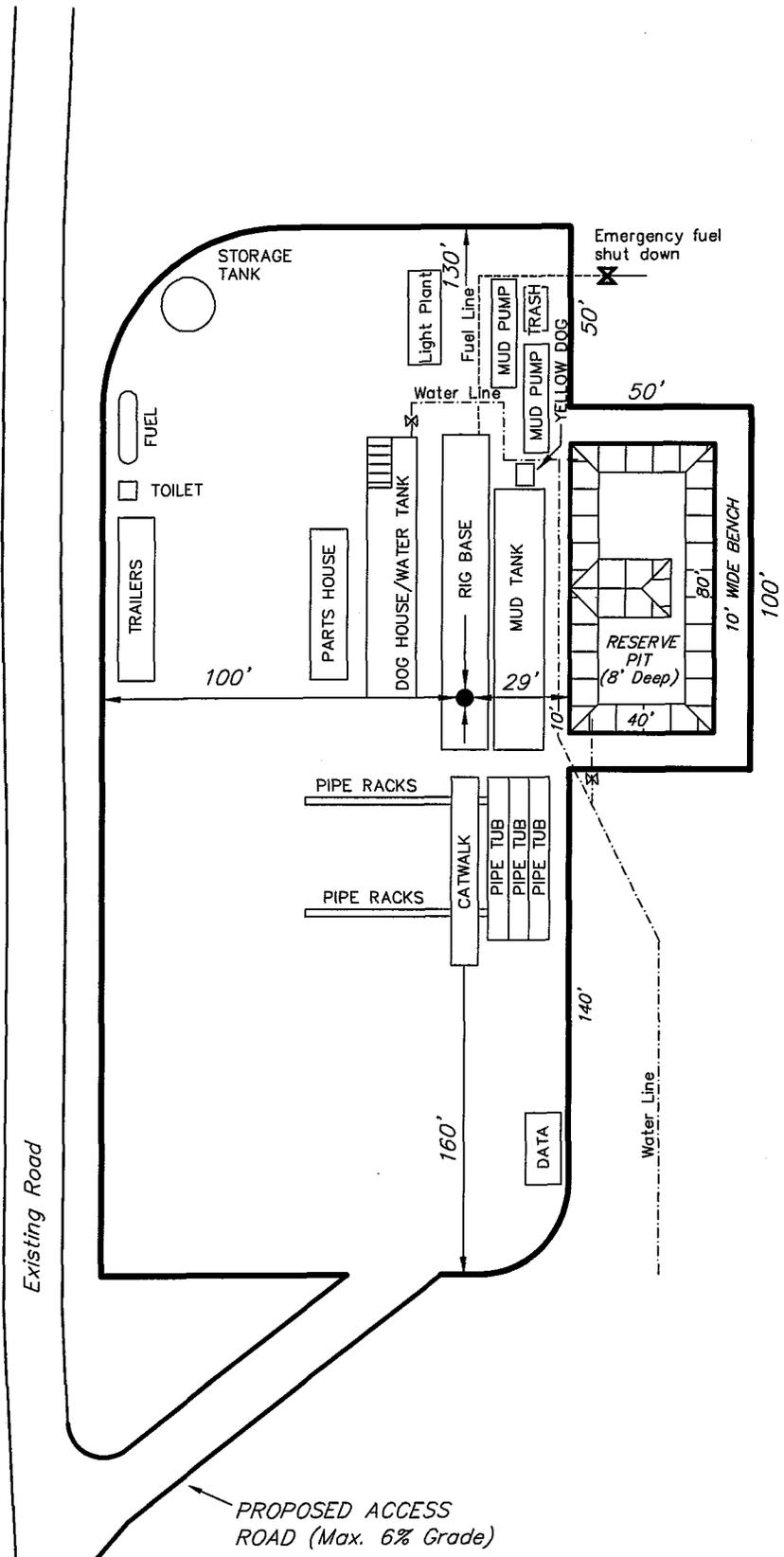
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DRAWN BY: F.T.M.

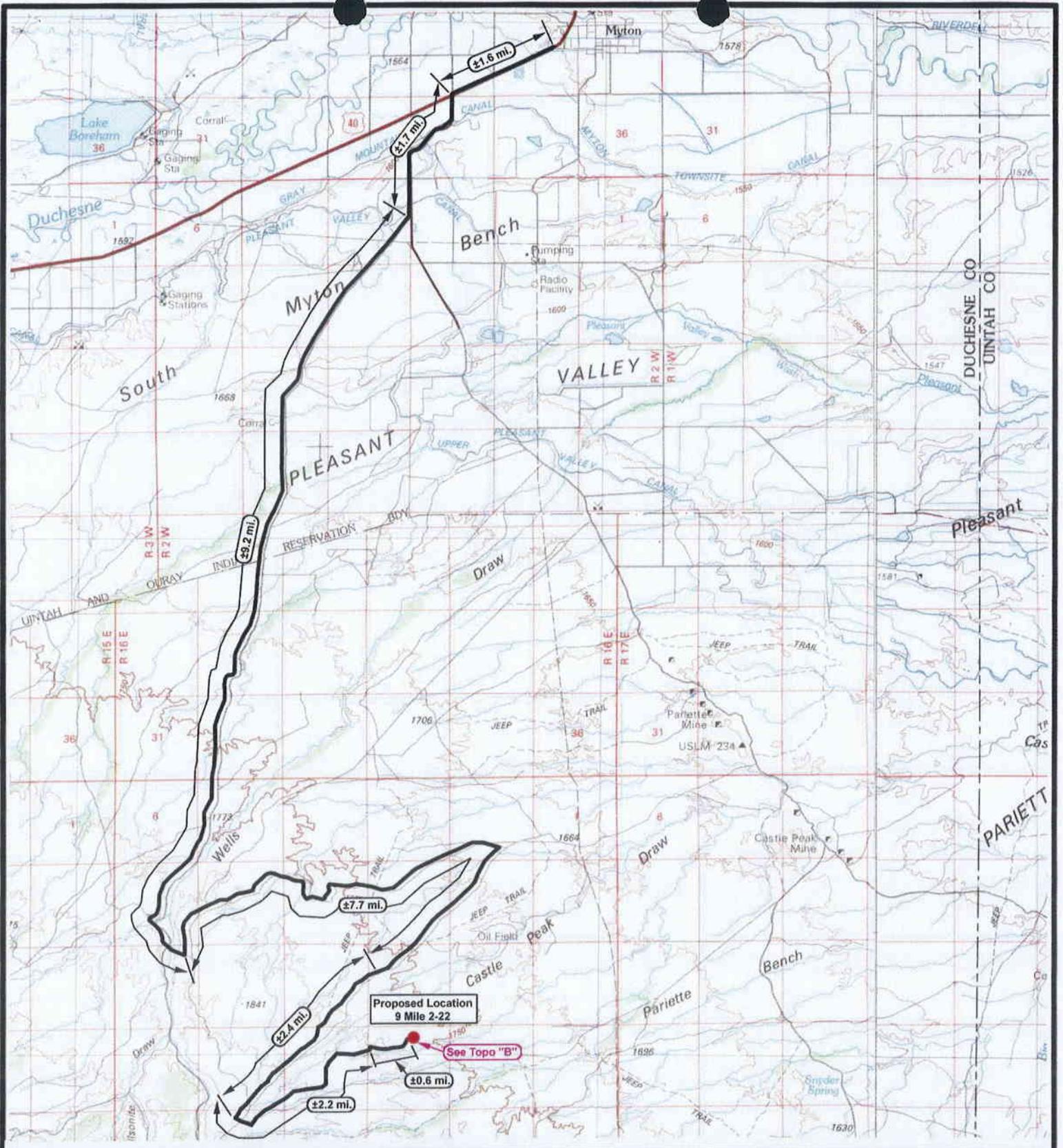
DATE: 10-3-05

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

**NEWFIELD PRODUCTION COMPANY**  
**TYPICAL RIG LAYOUT**  
**9 MILE 2-22-9-16**



SURVEYED BY: D.P.	SCALE: 1" = 50'	<p><b>Tri State</b>  <b>Land Surveying, Inc.</b>          180 NORTH VERNAL AVE. VERNAL, UTAH 84078</p>	(435) 781-2501
DRAWN BY: F.T.M.	DATE: 10-3-05		



**NEWFIELD**  
Exploration Company

**9 Mile 2-22-9-16**  
**SEC. 22, T9S, R16E, S.L.B.&M.**



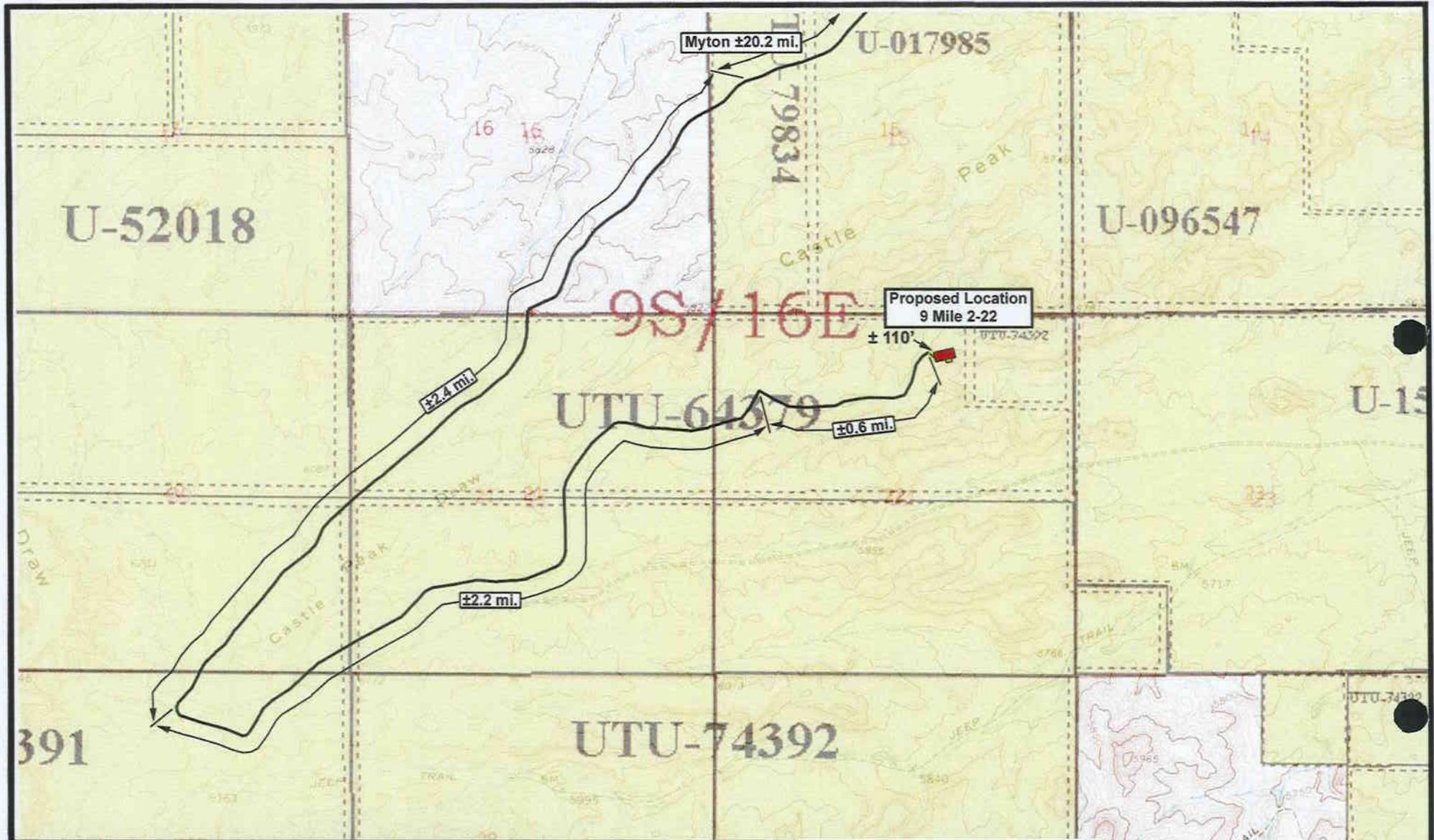
**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1 = 100,000  
DRAWN BY: mw  
DATE: 10-11-2005

**Legend**  
— Existing Road  
— Proposed Access

TOPOGRAPHIC MAP

**"A"**



**NEWFIELD**  
Exploration Company

**9 Mile 2-22-9-16**  
**SEC. 22, T9S, R16E, S.L.B.&M.**



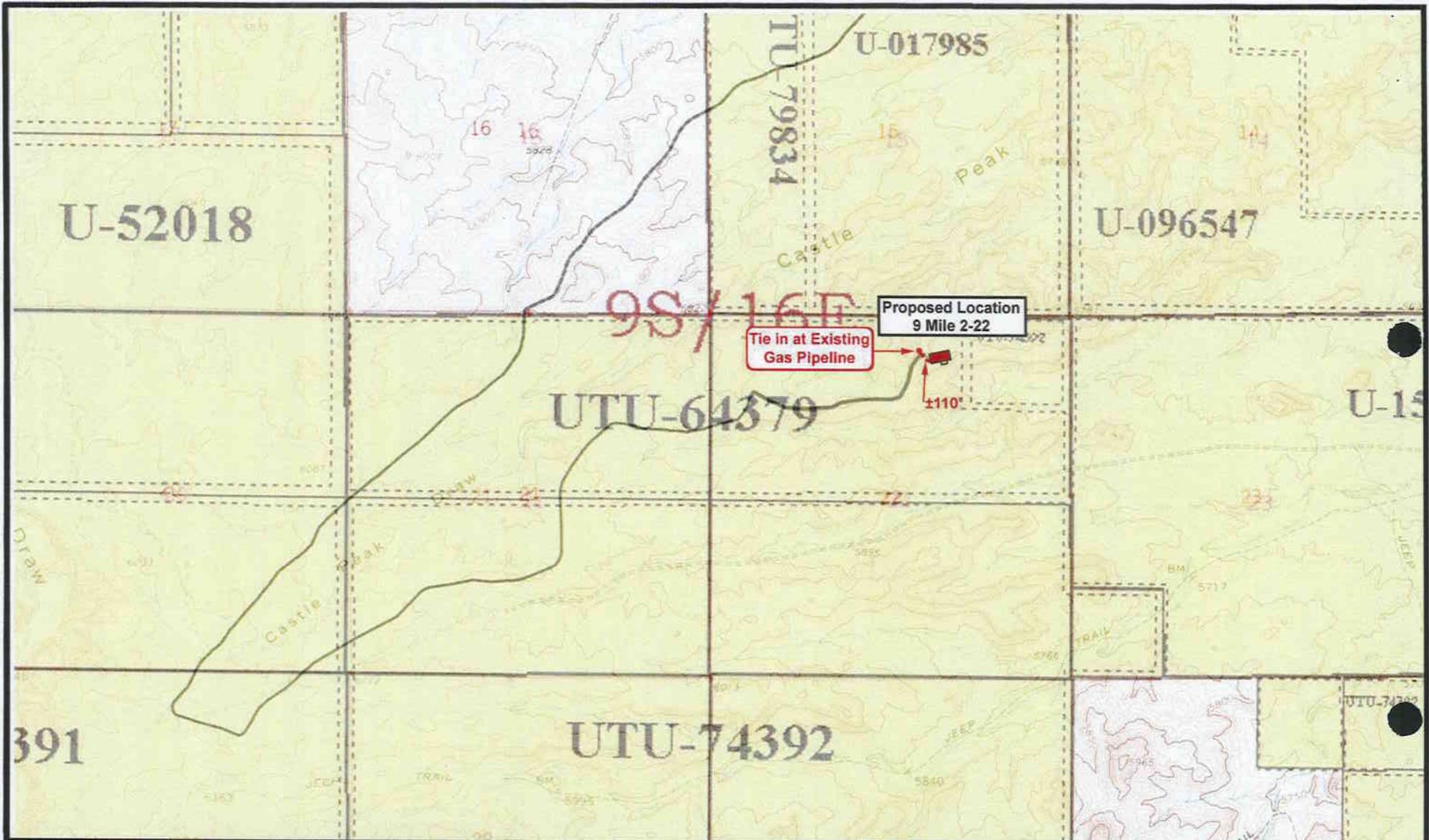
*Tri-State*  
*Land Surveying Inc.*  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'  
DRAWN BY: mw  
DATE: 10-11-2005

**Legend**

- Existing Road
- Proposed Access

**"B"**



 **NEWFIELD**  
Exploration Company

**9 Mile 2-22-9-16**  
**SEC. 22, T9S, R16E, S.L.B.&M.**



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

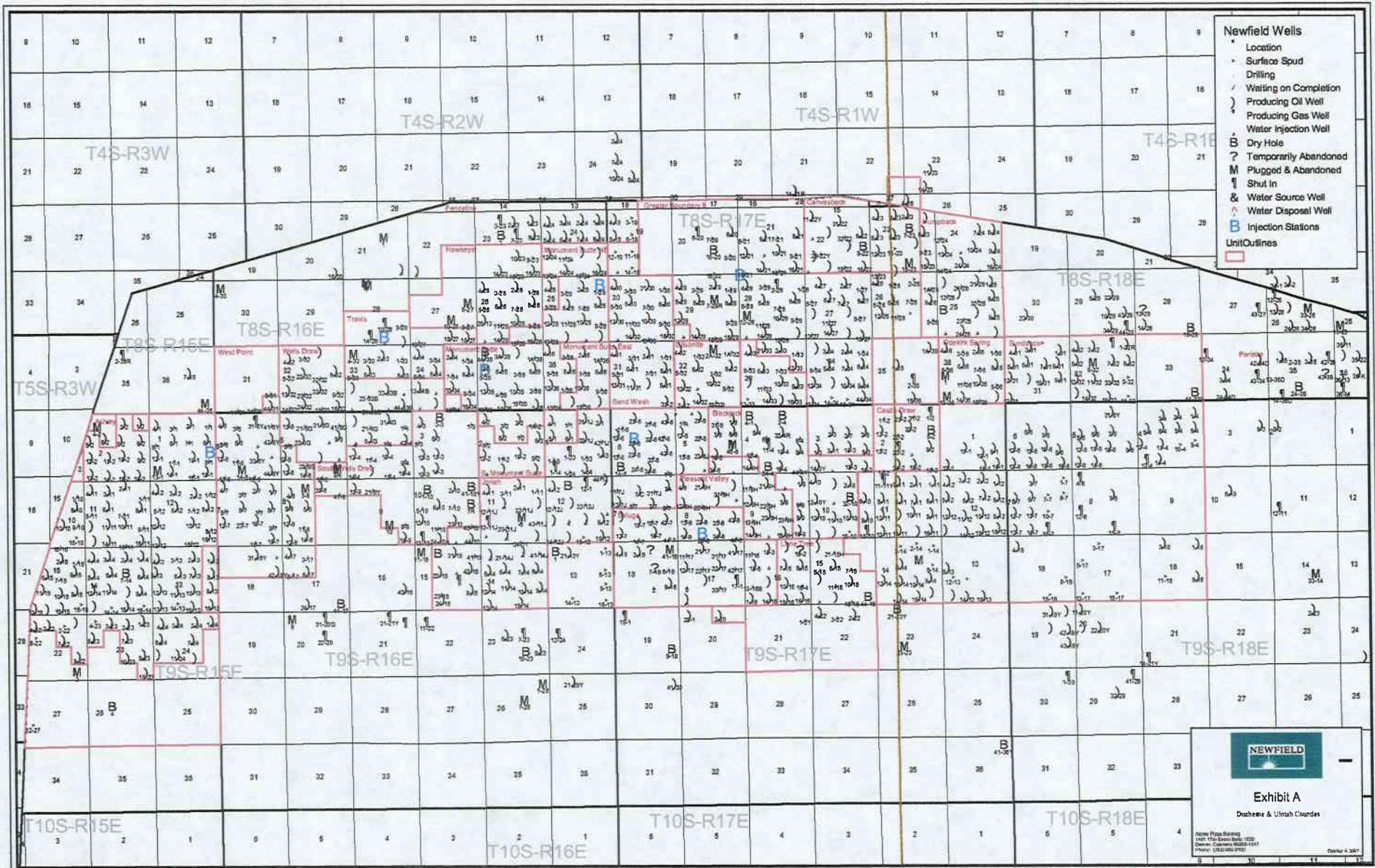
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DATE: 10-11-2005

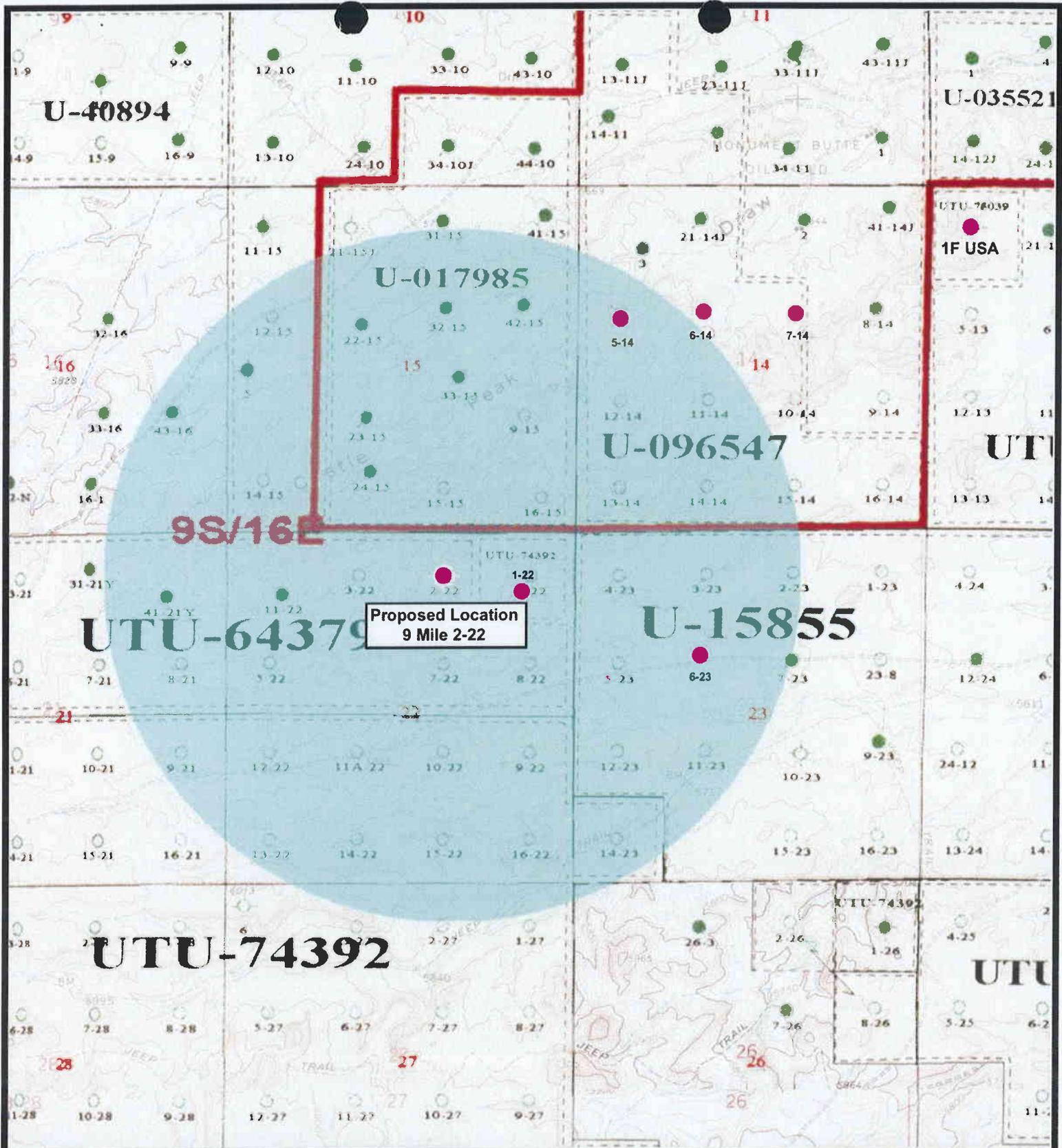
**Legend**

 Roads  
 Proposed Gas Line

**"C"**







Proposed Location  
9 Mile 2-22



**NEWFIELD**  
Exploration Company

**9 Mile 2-22-9-16**  
**SEC. 22, T9S, R16E, S.L.B.&M.**



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

SCALE: 1" = 2,000'  
DRAWN BY: mw  
DATE: 10-11-2005

**Legend**

- Well Locations
- One-Mile Radius

**Exhibit "B"**

# 2-M SYSTEM

Blowout Prevention Equipment Systems

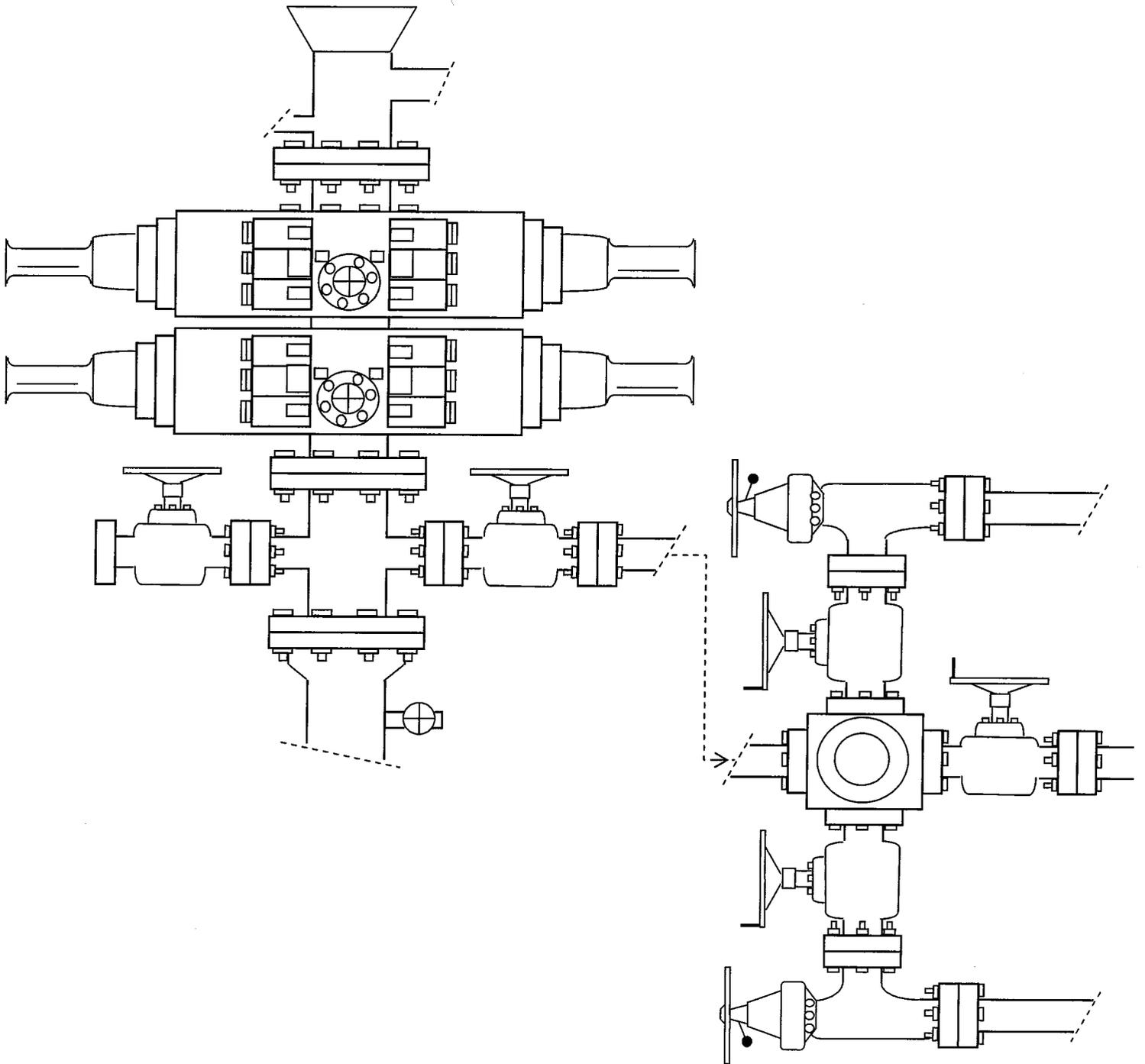


EXHIBIT C

CULTURAL RESOURCE INVENTORY OF  
NEWFIELD EXPLORATION'S BLOCK PARCEL  
IN TOWNSHIP 9S, RANGE 16E, SECTION 21 and 22,  
DUCHESNE COUNTY, UTAH

By:

Katie Simon

Prepared For:

Bureau of Land Management  
Vernal Field Office

Prepared Under Contract With:

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

Prepared By:

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

MOAC Report No. 05-240

July 25, 2005

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

State of Utah Antiquities Project (Survey)  
Permit No. U-05-MQ-0709b

**NEWFIELD PRODUCTION COMPANY**

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

SW 1/4, SE 1/4, and SW 1/4, Section 9 [9,11,12,13 & 14-9-9-16]; Entire Section 22  
(excluding NE 1/4, NE 1/4 & NW 1/4, NW 1/4) [2,3,5 through 16-9-9-16]; Entire  
Section 23 (excluding SE 1/4, NW 1/4, SW 1/4, NE 1/4, NE 1/4 & NW 1/4, SE 1/4)  
[1 through 5, 8,11 through 16-9-9-16]; Entire Section 24 (excluding SW 1/4, NW 1/4)  
[1 through 4, 6 through 16-9-9-16] all in Township 9 South, Range 16 East

**REPORT OF SURVEY**

Prepared for:

**Newfield Production Company**

Prepared by:

Wade E. Miller  
Consulting Paleontologist  
September 28, 2005

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 11/23/2005

API NO. ASSIGNED: 43-013-32958

WELL NAME: FEDERAL 2-22-9-16  
 OPERATOR: NEWFIELD PRODUCTION ( N2695 )  
 CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:  
 NWNE 22 090S 160E  
 SURFACE: 0645 FNL 1878 FEL  
 BOTTOM: 0645 FNL 1878 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: 40.02185  
 LONGITUDE: -110.1021

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: See Separate file

STIPULATIONS: 1- Federal Approval  
2- Spacing stip





**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*

November 29, 2005

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

Re: Federal 2-22-9-16 Well, 645' FNL, 1878' FEL, NW NE, Sec. 22, T. 9 South,  
R. 16 East, Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-32958.

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 2-22-9-16  
API Number: 43-013-32958  
Lease: UTU-64379

Location: NW NE                      Sec. 22                      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

**RECEIVED**  
**OCT 30 2006**  
DIV OF OIL, GAS & MINING

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  
**N/A**

8. Well Name and No.  
**FEDERAL 2-22-9-16**

9. API Well No.  
**43-013-32958**

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)

**645 FNL 1878 FEL NW/NE Section 22, 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"/> Subsequent Report <input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input checked="" type="checkbox"/> Other <u>Permit Extension</u>
	<input type="checkbox"/> Change of Plans <input type="checkbox"/> New Construction <input type="checkbox"/> Non-Routine Fracturing <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Dispose Water

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

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

Newfield Production Company requests to extend the Permit to Drill this well for one year. The original approval date was 11/29/05 (expiration 11/29/06).

This APD has not been approved yet by the BLM.

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 10-30-06  
By: [Signature]

COPY SENT TO OPERATOR  
Date: 10-31-06  
Initials: RM

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

Signature

[Signature]  
Mandie Crozier

Regulatory Specialist

Date

10-27-2006

CC: FLM/DUGM

(This space for Federal or State office use)

Approved by

By

Date



RECEIVED  
OCT 30 2006  
DIV. OF OIL, GAS & MINING

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

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

**API:** 43-013-32958  
**Well Name:** Federal 2-22-9-16  
**Location:** NW/NE Section 22, T9S R16E  
**Company Permit Issued to:** Newfield Production Company  
**Date Original Permit Issued:** 11/29/2005

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

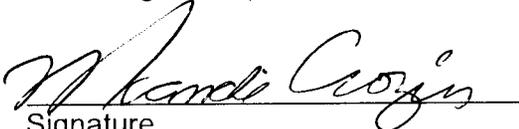
Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes  No

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

10/27/2006  
Date

Title: Regulatory Specialist

Representing: Newfield Production Company

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NOV 23 2005

BLM VERNAL, UTAH

Form 3160-3  
(September 2001)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-64379	
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A	
2. Name of Operator Newfield Production Company		7. If Unit or CA Agreement, Name and No. N/A	
3a. Address Route #3 Box 3630, Myton UT 84052		8. Lease Name and Well No. Federal 2-22-9-16	
3b. Phone No. (include area code) (435) 646-3721		9. API Well No. 43-013-32958	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NW/NE 645' FNL 1878' FEL At proposed prod. zone		10. Field and Pool, or Exploratory Monument Butte	
14. Distance in miles and direction from nearest town or post office* Approximatley 25.4 miles southwest of Myton, Utah		11. Sec., T., R., M., or Blk. and Survey or Area NW/NE Sec. 22, T9S R16E	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 558' f/lse, 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. 1437'	19. Proposed Depth 5980'	20. BLM/BIA Bond No. on file UT0056	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5860' 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:

- |   |  |
|---|--|
| 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 11/22/05
Title Regulatory Specialist		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kavcica	Date 2-15-2007
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)

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

FEB 22 2007

DIV. OF OIL, GAS & MINING

078M4721A



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 2-22-9-16  
**API No:** 43-013-32958

**Location:** NWNE, Sec 22, 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	

**After Hours Contact Number: 435-781-4513** 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)**

**STIPULATIONS:**

- Lands in this lease have been identified as containing Golden eagle and Ferruginous hawk habitat. Modifications to the Surface Use Plan of Operations may be required in order to protect the Golden eagle and Ferruginous Hawk and/or habitat from surface disturbing activities in accordance with Section 6 of the lease terms, Endangered Species Act, and 43 CFR 3101.1-2.
- There are three Golden Eagle nests: 0.35 miles NE, 0.4 miles N and another 0.32 NW of the location, but none are in line-of-site of the location. With this occurrence there will be a timing restriction to protect Golden Eagle Nesting from February 1- July 15.

**CONDITIONS OF APPROVAL:**

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

- If Uinta Basin hookless cactus or other special status plants are found, construction will cease and the AO will be notified to determine the appropriate mitigation.

The interim seed mix for this location shall be:

Indian Rice grass	(Oryzopsis hymenoides)	4 lbs/acre
Needle and Thread grass	(Stipa comata):	4 lbs/acre
Scarlet Globemallow	(Sphaeralcea coccinea):	1 lb/acre
Winter Fat	(Ceratooides lanata)	3 lbs/acre

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

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

#### **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**

- None

### **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 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) shall 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, shall 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 ( $\frac{1}{4}$  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 2-22-9-16

API No: 43-013-32958 Lease Type: Federal

Section 22 Township 09S Range 16E County Duchesne

Drilling Contractor Ross Rig Rig # 24

### **SPUDDED:**

Date 5-23-07

Time 5:00 PM

How Dry

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

Reported by Justin Crum

Telephone # 435-823-6733

Date 5-24-07 Signed RM

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

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

OPERATOR ACCT. NO. N2695

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QD	SC	TP	RG	COUNTY		
A	99999	16146	4301332958	FEDERAL 2-22-9-16	NWNE	22	9S	16E	DUCHESNE	5/23/2007	5/31/07
WELL 1 COMMENTS: <i>GRRV</i>											
A	99999	16147	4301333067	FEDERAL 3-20-9-16	NENW	20	9S	16E	DUCHESNE	5/23/2007	5/31/07
WELL 2 COMMENTS: <i>GRRV</i>											
B	99999	16148	4301333138	FEDERAL 5-15-9-16	SWNW	15	9S	16E	DUCHESNE	5/25/2007	5/31/07
WELL 3 COMMENTS: <i>GRRV * OUTSIDE JONAH BOUNDARIES</i>											
A	99999		4301333109	FEDERAL 16-20-9-16	SESE	20	9S	16E	DUCHESNE	5/29/2007	
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											
WELL 6 COMMENTS:											
WELL 7 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - new entity for new well (single well only)
- B - well to existing entity (group or unit well)
- C - from one existing entity to another existing entity
- D - well from one existing entity to a new entity
- E - other (explain in comments section)

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

RECEIVED

MAY 31 2007

DIV. OF OIL, GAS & MINING

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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



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)  
 645 FNL 1878 FEL  
 NWNE Section 22 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 2-22-9-16

9. API Well No.  
 4301332958

10. Field and Pool, or Exploratory Area  
 MONUMENT BUTTE

11. County or Parish, State  
 DUCHESNE, UT

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

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

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

On 5/23/07 MIRU Ross Rig # 24. Spud well @ 5:00 PM. Drill 303' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24 # csgn. Set @ 314.75 KB On 5/26/07 cement with 160 sks of class "G" w/ 2% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cf/ sk yeild. Returned 6 bbls cement to pit. WOC.

**RECEIVED**  
**JUN 05 2007**  
 DIV. OF OIL, GAS & MINING

I hereby certify that the foregoing is true and correct (Printed/ Typed) Alvin Nielsen	Title Drilling Foreman
Signature 	Date 06/01/2007

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

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8 CASING SET AT 314.75

LAST CASING 8 5/8" set @ 314.75  
 DATUM 12' KB  
 DATUM TO CUT OFF CASING \_\_\_\_\_  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER 303 LOGGER \_\_\_\_\_  
 HOLE SIZE 12 1/4

OPERATOR **Newfield Production Company**  
 WELL Federal 2-22-9-16  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # Ross # 24

LOG OF CASING STRING:							
PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		Shoe 41.70'					
		WHI - 92 csg head			8rd	A	0.95
7	8 5/8"	Maverick ST&C csg	24#	J-55	8rd	A	302.9
		<b>GUIDE</b> shoe			8rd	A	0.9
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			304.75
TOTAL LENGTH OF STRING		304.75	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>314.75</b>
TOTAL		301.95	7	} COMPARE			
TOTAL CSG. DEL. (W/O THRDS)		301.95	7				
TIMING		1ST STAGE					
BEGIN RUN CSG.		Spud		GOOD CIRC THRU JOB <u>Yes</u>			
CSG. IN HOLE		5/25/2007	4:00 PM	Bbls CMT CIRC TO SURFACE <u>6</u>			
BEGIN CIRC		5/27/2007	10:49 AM	RECIPROCATED PIPE FOR <u>NA</u>			
BEGIN PUMP CMT		5/27/2007	11:03 AM				
BEGIN DSPL. CMT		5/27/2007	11:24 AM	BUMPED PLUG TO <u>373</u>			
PLUG DOWN		5/27/2007	11:30 AM				
CEMENT USED		CEMENT COMPANY- <b>B. J.</b>					
STAGE	# SX	CEMENT TYPE & ADDITIVES					
1	160	Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield					
CENTRALIZER & SCRATCHER PLACEMENT		SHOW MAKE & SPACING					
Centralizers - Middle first, top second & third for 3							

COMPANY REPRESENTATIVE Don Bastian DATE 5/26/2007

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

5. Lease Serial No.  
USA UTU-64379

6. If Indian, Allottee or Tribe Name.

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

8. Well Name and No.  
FEDERAL 2-22-9-16

9. API Well No.  
4301332958

10. Field and Pool, or Exploratory Area  
MONUMENT BUTTE

11. County or Parish, State  
DUCHESNE, UT

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
NEWFIELD PRODUCTION COMPANY

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

3b. Phone (include area code)  
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
645 FNL 1878 FEL  
NWNE Section 22 T9S R16E

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

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

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

On 6/03/07 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 @ 260'. Drill out cement & shoe. Drill a 7.875 hole with fresh water to a depth of 5925'. 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, 136 jt's of 5.5 J-55, 15.5# csgn. Set @ 5895' / KB. Cement with 300 sks cement mixed @ 11.0 ppg & 3.43 yld. The 425 sks cement mixed @ 14.4 ppg & 1.24 yld. Returned 60 bbls of cement to reserve pit. Nipple down Bop's. Drop slips @ 90,000 #'s tension. Release rig @ 4:00 PM on 6/08/07.

I hereby certify that the foregoing is true and correct (Printed/ Typed) Jim Smith	Title Drilling Foreman
Signature 	Date 06/10/2007

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**  
JUN 12 2007  
DIV. OF OIL, GAS & MINING

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

5 1/2" CASING SET AT 5893.76

Flt cllr @ 5849'

LAST CASING 8 5/8" SET AT 314'

OPERATOR Newfield Production Company

DATUM 12' KB

WELL Federal 2-22-9-16

DATUM TO CUT OFF CASING 12'

FIELD/PROSPECT Monument Butte

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

CONTRACTOR & RIG # NDSI # 1

TD DRILLER 5930' Loggers 5930'

HOLE SIZE 7 7/8"

LOG OF CASING STRING:							
PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		Landing Jt					
		<b>Short jt</b> 3932' (5.73')					
<b>135</b>	<b>5 1/2"</b>	ETC LT & C casing	<b>15.5#</b>	<b>J-55</b>	<b>8rd</b>	<b>A</b>	5849.95
		Float collar					0.6
<b>1</b>	<b>5 1/2"</b>	ETC LT&C csg	<b>15.5#</b>	<b>J-55</b>	<b>8rd</b>	<b>A</b>	44.56
		<b>GUIDE</b> shoe			<b>8rd</b>	<b>A</b>	0.65
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			5895.76
TOTAL LENGTH OF STRING		5895.76	135	LESS CUT OFF PIECE			14
LESS NON CSG. ITEMS		1.25		PLUS DATUM TO T/CUT OFF CSG			12
PLUS FULL JTS. LEFT OUT		429.44	9	CASING SET DEPTH			<b>5893.76</b>
<b>TOTAL</b>		<b>6323.95</b>	<b>144</b>	} COMPARE			
TOTAL CSG. DEL. (W/O THRDS)		6323.95	144				
TIMING		1ST STAGE	2nd STAGE				
BEGIN RUN CSG.		6/8/2007	1:30 AM	GOOD CIRC THRU JOB <u>YES</u>			
CSG. IN HOLE		6/8/2007	7:00 AM	Bbls CMT CIRC TO SURFACE <u>60</u>			
BEGIN CIRC		6/8/2007	7:30 AM	RECIPROCATED PIPE FOR <u>THRUSTROKE NA</u>			
BEGIN PUMP CMT		6/8/2007	9:49 AM	DID BACK PRES. VALVE HOLD ? <u>YES</u>			
BEGIN DSPL. CMT		6/8/2007	11:10 AM	BUMPED PLUG TO <u>1550</u> PSI			
PLUG DOWN		6/8/2007	<b>11:26 AM</b>				
CEMENT USED		CEMENT COMPANY- <b>B. J.</b>					
STAGE	# SX	CEMENT TYPE & ADDITIVES					
<b>1</b>	<b>300</b>	Premlite 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					
<b>2</b>	<b>425</b>	50/50 poz W/ 2% Gel + 3% KCL, .5%EC1, 1/4# sk C.F. 2% gel. 3% SM mixed @ 14.4 ppg W/ 1.24 YLD					
CENTRALIZER & SCRATCHER PLACEMENT			SHOW MAKE & SPACING				
Centralizers - Middle first, top second & third. Then every third collar for a total of 20.							

COMPANY REPRESENTATIVE Jim Smith

DATE 6/8/2007

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

5. Lease Serial No.  
USA UTU-64379

6. If Indian, Allottee or Tribe Name.

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

8. Well Name and No.  
FEDERAL 2-22-9-16

9. API Well No.  
4301332958

10. Field and Pool, or Exploratory Area  
MONUMENT BUTTE

11. County or Parish, State  
DUCHESNE, UT

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
NEWFIELD PRODUCTION COMPANY

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

3b. Phone (include area code)  
435.646.3724

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
645 FNL 1878 FEL  
NWNE Section 22 T9S R16E

RECEIVED  
JUL 09 2007  
DIV. OF OIL GAS & MINING

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

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

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

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

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

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

I hereby certify that the foregoing is true and correct (Printed/ Typed) Mandie Crozier	Title Regulatory Specialist
Signature <i>Mandie Crozier</i>	Date 07/06/2007

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

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

(Instructions on reverse)

**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 2-22-9-16**

2. NAME OF OPERATOR

**Newfield Exploration Company**

9. WELL NO.

**43-013-32958**

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 **645' FNL & 1878' FEL (NW/NE) Sec. 22, T9S, R16E**

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

**Sec. 22, T9S, R16E**

At top prod. Interval reported below

At total depth

14. API NO. **43-013-32958** DATE ISSUED **11/29/06**

12. COUNTY OR PARISH

**Duchesne**

13. STATE

**UT**

15. DATE SPUNDED

**05/23/07**

16. DATE T.D. REACHED

**06/07/07**

17. DATE COMPL. (Ready to prod.)

**07/03/07**

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

**5860' GL**

19. ELEV. CASINGHEAD

**5872' KB**

20. TOTAL DEPTH, MD & TVD

**5930'**

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

**5848'**

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 4615'-5790'**

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#	315'	12-1/4"	To surface with 160 sx Class "G" cmt	
5-1/2" - J-55	15.5#	5894'	7-7/8"	300 sx Premlite II and 425 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 @ 5738'	TA @ 5571'

**30. TUBING RECORD**

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

INTERVAL	SIZE	SPF/NUMBER	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
(CP5) 5755'-63', 5778'-90'	.49"	4/80	5755'-5790'	Frac w/ 60,101# 20/40 sand in 501 bbls fluid
(A.5) 4951'-4960'	.49"	4/36	4951'-4960'	Frac w/ 39,988# 20/40 sand in 382 bbls fluid
(C, D3) 4751'-4759', 4695'-4703'	.49"	4/64	4695'-4759'	Frac w/ 57,108# 20/40 sand in 466 bbls fluid
(D1) 4615'-4622'	.49"	4/28	4615'-4622'	Frac w/ 9,646# 20/40 sand in 210 bbls fluid

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

**33.\* PRODUCTION**

DATE FIRST PRODUCTION <b>07/03/07</b>	PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump) <b>2-1/2" x 1-1/2" x 10' x 14' RHAC SM Plunger Pump</b>					WELL STATUS (Producing or shut-in) <b>PRODUCING</b>	
DATE OF TEST <b>10 day ave</b>	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL--BBL. <b>86</b>	GAS--MCF. <b>35</b>	WATER--BBL. <b>14</b>	GAS-OIL RATIO <b>407</b>
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL--BBL.	GAS--MCF.	WATER--BBL.	OIL GRAVITY-API (CORR.)	

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

**Sold & Used for Fuel**

TEST WITNESSED BY

**RECEIVED**

35. LIST OF ATTACHMENTS

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

**JUL 27 2007**

SIGNED

*Jentri Park*  
Jentri Park

TITLE

**Production Clerk**

DATE

**7/24/2007**

**DIV OF OIL, GAS & MINING**

JP

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

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

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
			Well Name Federal 2-22-9-16	Garden Gulch Mkr	3578'	
				Garden Gulch 1	3791'	
				Garden Gulch 2	3900'	
				Point 3 Mkr	4142'	
				X Mkr	4415'	
				Y-Mkr	4448'	
				Douglas Creek Mkr	4564'	
				BiCarbonate Mkr	4798'	
				B Limestone Mkr	4904'	
				Castle Peak	5433'	
				Basal Carbonate	5871'	
				Total Depth (LOGGERS)	5930'	

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

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL:      OIL WELL       GAS WELL       OTHER

8. WELL NAME and NUMBER:  
**FEDERAL 2-22-9-16**

2. NAME OF OPERATOR:  
**NEWFIELD PRODUCTION COMPANY**

9. API NUMBER:  
**4301332958**

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: 645 FNL 1878 FEL

COUNTY: DUCHESNE

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN:    NWNE, 22, T9S, R16E

STATE:    UT

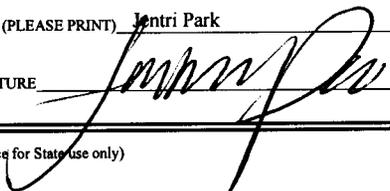
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will  <hr/>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  <u>07/24/2007</u>	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Weekly Status Report
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
The above subject well was completed on 07/04/07, attached is a daily completion status report.

NAME (PLEASE PRINT) Jentri Park

TITLE Production Clerk

SIGNATURE 

DATE 07/24/2007

(This space for State use only)

**RECEIVED**  
**JUL 27 2007**  
**DIV. OF OIL, GAS & MINING**

## Daily Activity Report

Format For Sundry

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

**5/1/2007 To 9/30/2007**

**6/26/2007 Day: 1**

**Completion**

Rigless on 6/25/2007 - 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 @ 5850' & cement top @ 57'. Perforate stage #1, CP5 sds @ 5755-63' & 5778-90' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°) w/ 4 spf for total of 80 shots. 110 bbls EWTR. SIFN.

**6/28/2007 Day: 2**

**Completion**

Rigless on 6/27/2007 - Stage #1, CP5 sds RU BJ Services. 14 psi on well. Frac CP5 sds w/ 60,101#'s of 20/40 sand in 501 bbls of Lightning 17 fluid. Broke @ 1465 psi. Treated w/ ave pressure of 1583 psi @ ave rate of 24.7 BPM. Pumped 504 gals of 15% HCL in flush for Stage #2. ISIP 1950 psi. Leave pressure on well. 501 BWTR. Stage #2, A.5 sds RU Lone Wolf WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug, 9' perf gun. Set plug @ 5060'. Perforate A.5 sds @ 4951-60' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 36 shots. RU BJ Services. 1660 psi on well. Frac A.5 sds w/ 39,988#'s of 20/40 sand in 382 bbls of Lightning 17 fluid. Broke @ 4200 psi. Treated w/ ave pressure of 2087 psi @ ave rate of 24.7 BPM. Pumped 504 gals of 15% HCL in flush for Stage #3. ISIP 2525 psi. Leave pressure on well. 432 BWTR. Stage #3, D3 & C sds RU Lone Wolf WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug, 2- 8' perf gun. Set plug @ 4860'. Perforate C sds @ 4751-59' & D3 sds @ 4695-4703' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 64 shots. RU BJ Services. 1630 psi on well. Frac D3 & C sds w/ 57,108#'s of 20/40 sand in 466 bbls of Lightning 17 fluid. Broke @ 3939 psi. Treated w/ ave pressure of 2290 psi @ ave rate of 24.7 BPM. Pumped 504 gals of 15% HCL in flush for Stage #4. ISIP 3228 psi. Leave pressure on well. 466 BWTR. Stage #4, D1 sds RU Lone Wolf WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite solid frac plug, 7' perf gun. Set plug @ 4670'. Perforate D1 sds @ 4615-22' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 28 shots. RU BJ Services. 246 psi on well. Perfs would not break. RU Lone Wolf WL. Stacked out w/ bailer @ 4596'. Dump acid @ 4596'. RU BJ Services. 0 psi on well. Could not break down perfs. RD frac crew & wireline. SWIFN.

**6/29/2007 Day: 3**

**Completion**

NC #3 on 6/28/2007 - MIRUSU. RU rig floor. X- over to tbg eq. PU TIH w/ bar NC, & 149- jts 2 7/8. Tag fill @ 4600'. Clean out fill to Plg & 4670'. CWC. TOH w/ 151- jts 2 7/8 & bar NC. RD rig floor & wash head. SDFD @ 5:30.

**7/2/2007 Day: 4**

**Completion**

NC #3 on 7/1/2007 - RU BJ Services. 0 psi on well. Frac D1 sds w/ 9,646#'s of 20/40 sand in 210 bbls of Lightning 17 fluid. Broke @ 4005 psi. Treated w/ ave pressure of 2799 psi @ ave rate of 24.7 BPM. ISIP 1928 psi. Open well to pit for immediate flowback @ 1 bpm. Well flowed for 1 hr. Recovered 60 bbls total fluid. ND BOP & frac head. NU production head & BOP. RU rig floor. PU TIH w/ 4 3/4 chomp bit & 149- jts 2 7/8. Tag fill @ 4610'. RU 4-Star power swivel. Clean out fill & drill

out Plg @ 4670'. TIH w/ tbg to fill @ 4690'. Clean out fill & drill out Plg @ 4860'. TIH w/ tbg to fill @ 5050'. Clean out fill & drill out Plg @ 5060'. CWC. SDFD @ 5:00.

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**7/3/2007 Day: 5**

**Completion**

NC #3 on 7/2/2007 - PU TIH w/ tbg to fill @ 5783'. Clean out fill to PBTD @ 5848'. CWC. LD 3- jts 2 7/8. EOT @ 5753'. RU sandline to swab. IFL @ surface. Made 14 swab runs. Recovered 160 bbls water w/ no oil & no sand. FFL @ 2600'. RD sandline. PU TIH w/ 3- jts 2 7/8. Tag fill @ 5845'. Clean out fill to PBTD @ 5848'. CWC. LD 4- jts 2 7/8. TOH w/ 185- jts 2 7/8, & chomp bit. PU TIH w/ BP, 3- jts 2 7/8, 2 7/8 nipple, PBGA, 1- jt 2 7/8, SN, 1- jt 2 7/8, TA, 180- jts 2 7/8. RD rig floor. ND BOP. Set TA, w/ 15000 tension. NU wellhead. X- over to rod eq. Flush tbg w/ 60 bbls water. SDFD @ 6:00.

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**7/5/2007 Day: 6**

**Completion**

NC #3 on 7/4/2007 - PU TIH w/ 2 1/2 x 1 1/2 x 10 x 14 RHAC, 6- 1 1/2 wt bars, 20- 3/4 guided rods, 98- 3/4 plain rods, 99- 3/4 guided rods, 8', 4', 2', x 3/4 pony rods, 1 1/2 x 22' polish rod. RU pumping unit. Fill tbg w/ 5 bbls water. Stroke test rod pump to 800 psi. Good test. RD MOSU @ 2:00. POP @ 2:00 W/ 86" SL 5 SPM  
**FINAL REPORT!!**

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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>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-64379
1. TYPE OF WELL Oil Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY	7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052	8. WELL NAME and NUMBER: FEDERAL 2-22-9-16
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0645 FNL 1878 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 22 Township: 09.0S Range: 16.0E Meridian: S	9. API NUMBER: 43013329580000
9. FIELD and POOL or WILDCAT: MONUMENT BUTTE	COUNTY: DUCHESNE
9. API NUMBER: 43013329580000	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/29/2014	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input checked="" type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input checked="" type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

The subject well has been converted from a producing oil well to an injection well on 07/23/2014. On 07/28/2014 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 07/29/2014 the casing was pressured up to 1391 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 550 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**

August 21, 2014

Date: \_\_\_\_\_  
By: 

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

# Mechanical Integrity Test Casing or Annulus Pressure Test

Newfield Production Company

Rt. 3 Box 3630

Myton, UT 84052

435-646-3721

Witness: \_\_\_\_\_ Date 7/29/2014 Time 9:00  am  pm

Test Conducted by: Dustin Bennett

Others Present: Riley Bagley

Well: <u>Federal 2-22-9-16</u>	Field: <u>Monument Butte</u>
Well Location: <u>Federal 2-22-9-16</u>	API No: <u>4301332958</u>
<u>NW/NE, Sec. 22, T9S, R16E</u>	

<u>Time</u>	<u>Casing Pressure</u>	
0 min	<u>1389</u>	psig
5	<u>1390</u>	psig
10	<u>1390</u>	psig
15	<u>1389</u>	psig
20	<u>1389</u>	psig
25	<u>1393</u>	psig
30 min	<u>1391</u>	psig
35	_____	psig
40	_____	psig
45	_____	psig
50	_____	psig
55	_____	psig
60 min	_____	psig

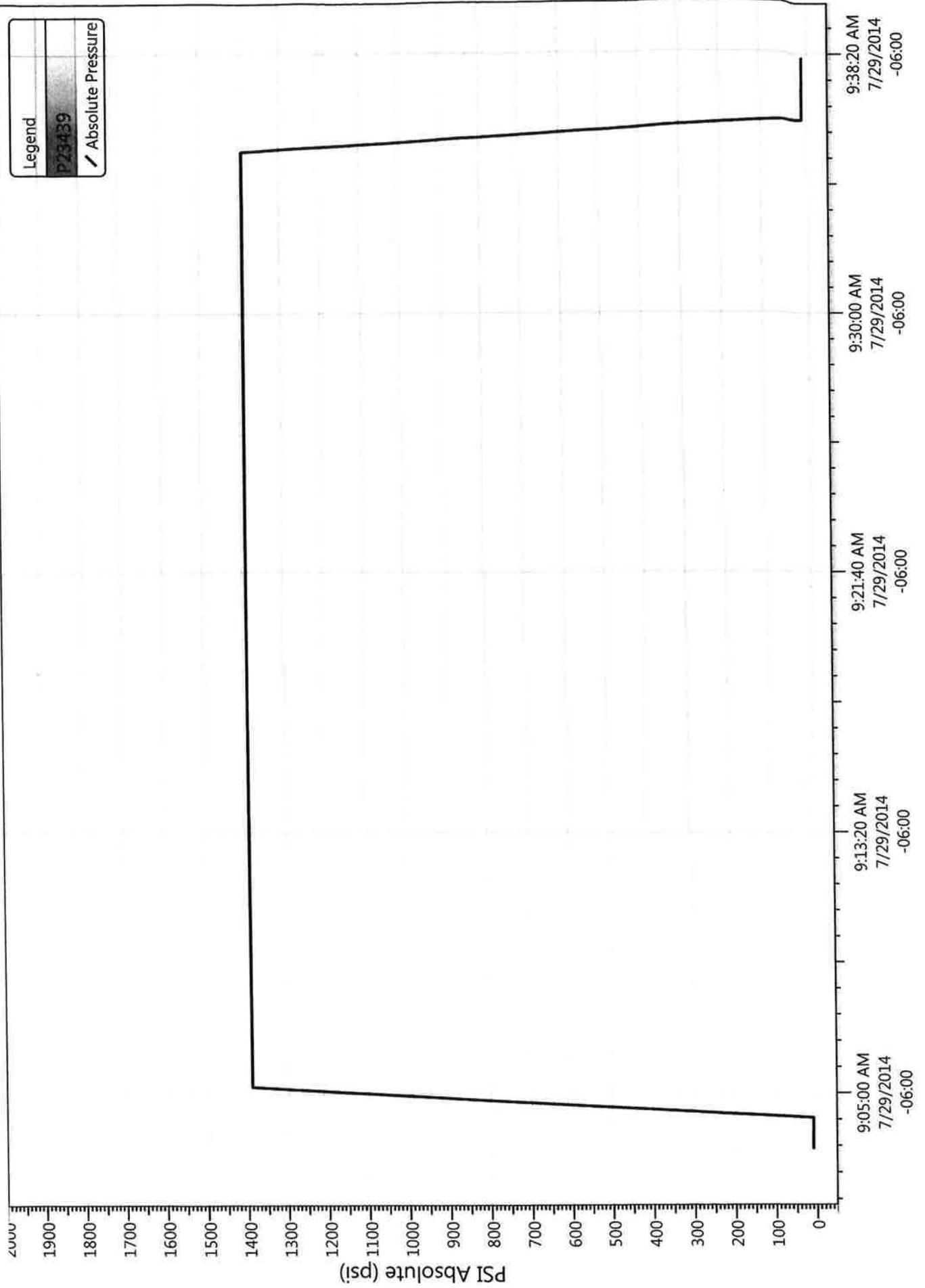
Tubing pressure: 550 psig

Result:  Pass  Fail

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

Signature of Person Conducting Test: Dustin Bennett

Federal 2-22-9-16 (conversion MIT 7-29-2014)  
7/29/2014 9:02:31 AM





Well Name: Federal 2-22-9-16

### Job Detail Summary Report

Sundry Number: 54004 API Well Number: 43013329580000

Jobs		Job Start Date	Job End Date
Primary Job Type Conversion		7/18/2014	7/29/2014

Daily Operations		Report End Date	24hr Activity Summary
Report Start Date	7/18/2014	MIRU	
Start Time	11:30	End Time	12:00
Start Time	12:00	End Time	12:30
Start Time	12:30	End Time	13:30
Start Time	13:30	End Time	13:45
Start Time	13:45	End Time	14:15
Start Time	14:15	End Time	14:45
Start Time	14:45	End Time	16:30
Start Time	16:30	End Time	17:00
Start Time	17:00	End Time	17:30
Report Start Date	7/21/2014	Report End Date	7/21/2014
24hr Activity Summary LD Rod String, NU BOP, Break & Dope Collars			
Start Time	05:30	End Time	06:00
Start Time	06:00	End Time	07:00
Start Time	07:00	End Time	07:30
Start Time	07:30	End Time	08:30
Start Time	08:30	End Time	09:00
Start Time	09:00	End Time	13:00
Start Time	13:00	End Time	13:30
Start Time	13:30	End Time	15:15
Start Time	15:15	End Time	15:45
Start Time	15:45	End Time	18:00
Start Time	18:00	End Time	18:30
Start Time	18:30	End Time	19:00
Report Start Date	7/22/2014	Report End Date	7/22/2014
24hr Activity Summary MIT			

Start Time	End Time	Comment
		Moved From 6-22-9-16
		BMW H/O Pmped 60BW d/Csg
		: RUSU
		: RDPJ, LD & Strip Polished Rod, US Rod Pmp
		H/O Flushed Rods w/ 40BW
		: Soft Seat & Test Tbg to 3500psi, 17BW to Fill
		: LD 131- 3/4" 4per on Trl
		Clean Up & Store Equip, SWIFWE
		C/Travl
		c/Travl
		Safety Meeting
		: OWU, BMW H/O Flushed Rods w/ 30BW,
		Conti LD Rods on Trl-47-3/4" Plain, 37- 3/4" 4per, 6- Wt Bars w/ Sabalizers, 16' Rod Pmp
		XO For Tbg, ND WH Flange, Function Test BOPs then NU, RU Work Floor
		: Release TAC, POOH w/ 147- Jts(4546.85) B&D Every Other Collar, POOH w/ Remaining Tbg, LD BHA, Cleaned Out 2' From Tail Jts
		Took Lunch
		: MU Slauch Bit & Scraper, TIH w/ 183- Jts, PU 5- Jts Tag Fill @ 5818'(30' of Fill on PB, 28' Below Bott Perf)
		H/O Flushed Tbg w/ 40BW
		LD 6- Jts, POOH w/ 146- Jts B&D Everyother Collar
		: Put Away Equip SWIFN
		C/Travl



Well Name: Federal 2-22-9-16

Job Detail Summary Report

Start Time	05:30	End Time	06:00	Comment
Start Time	06:00	End Time	07:00	c/Travl
Start Time	07:00	End Time	07:15	Safety Meeting
Start Time	07:15	End Time	07:45	SITP 125psi SICP 125psi, OWU
Start Time	07:45	End Time	08:15	BMW H/O Flushed Tbg w/30BW
Start Time	07:45	End Time	09:30	LD 36-Jts on Trl, LD Scraper
Start Time	08:15	End Time	10:00	MU WTF Arrow Set Injection PKR Assa., TIH w/ 147- Jts
Start Time	09:30	End Time	11:00	H/O Pmped 10BW d/Tbg, Drop S/Valv, RIH w/ S/Line to Seat S/Valv, 15BW to Fill, MU Isolation T
Start Time	10:00	End Time	11:45	PT Tbg to 3100psi, Complete Loss of Press in 30Min
Start Time	11:00	End Time	12:00	Retrieve S/Valv, XO For NEW S/Valv, Refill w/ 10BW
Start Time	11:45	End Time	13:00	Pressure to 500psi Let Set For 15Min Bleed Off Ga
Start Time	12:00	End Time	14:00	PT To 3020psi, 250psi Loss in 1 Hr
Start Time	13:00	End Time	15:00	Repress to 3050psi, 250psi Loss in 1 Hr
Start Time	14:00	End Time	15:30	Retrieved S/Valv, H/O Pmped 45BW d/Tbg, Drop S/Valve, Pmped 15BW to Seat, 3:00: PT to 3050psi, NO PRESSURE LOSS IN 30MIN., GOOD Tbg TEST, 3:30: Retrieved S/Valv, LD S/Line
Start Time	15:00	End Time		RD Workfloor, ND BOP, MU WH Flange, 4:45: H/O Pmped 60BW w/ Multi-Chem PKR Fluids d/ Annulus, Circul @ 35Bbbis,
Start Time	15:30	End Time	16:00	Set AS-1X Injection PKR Assa CE @ 4566' w/ 1500# of Tension, NU Inject Tree
Start Time	16:00	End Time	17:45	Hole Remaining Full, PT Annulus to 1550psi,
Start Time	17:45	End Time	18:30	50psi Loss 30Min
Start Time	18:30	End Time	18:45	Repress to 1525ps
Start Time	18:45	End Time	19:00	NO PRESSURE LOSS IN 30MIN, left Pressure On...SWIFN..
Start Time	19:00	End Time	19:30	C/Travl
Report Start Date	7/23/2014	Report End Date	7/23/2014	24hr Activity Summary
Start Time	05:30	End Time	06:00	C/TRAVL
Start Time	06:00	End Time	07:00	Cleaned Up & Organized Yard
Start Time	07:00	End Time	11:00	CPR & First Aid Training @ Newfield Office, MIT Performed by Newfield Wtr Service Rep..GOOD TEST



Well Name: Federal 2-22-9-16

### Job Detail Summary Report

Start Time	11:00	End Time	12:00	Comment
Start Time	12:00	End Time	13:00	SAFETY MTG
Report Start Date	7/29/2014	Report End Date	7/29/2014	Comment
Start Time	09:00	End Time	09:30	RDMOSU FINAL RIG REPORT
24hr Activity Summary		Conduct MIT		
<p>On 07/28/2014 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 07/29/2014 the casing was pressured up to 1391 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 550 psig during the test. There was not a State representative available to witness the test.</p>				

**NEWFIELD**

**Schematic**

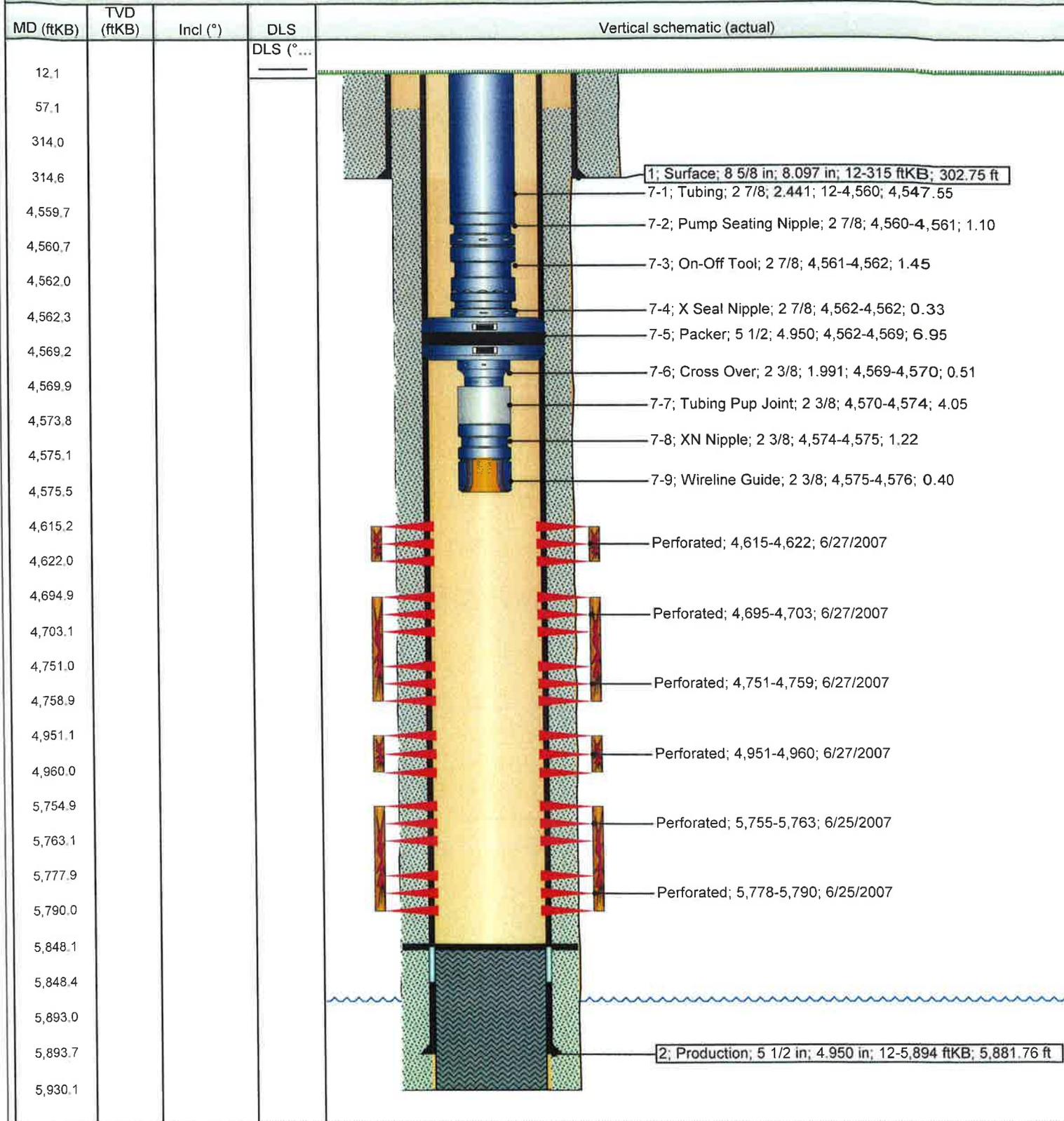
**Well Name: Federal 2-22-9-16**

Surface Legal Location 22-9S-16E			API/UWI 43013329580000	Well RC 500158554	Lease	State/Province Utah	Field Name GMBU CTB6	County DUCHESNE
Spud Date 5/23/2007	Rig Release Date 6/8/2007	On Production Date 7/3/2007	Original KB Elevation (ft) 5,872	Ground Elevation (ft) 5,860	Total Depth All (TVD) (ftKB)		PBD (All) (ftKB) Original Hole - 5,848.0	

**Most Recent Job**

Job Category Production / Workover	Primary Job Type Conversion	Secondary Job Type Basic	Job Start Date 7/18/2014	Job End Date 7/29/2014
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**TD: 5,930.0** Vertical - Original Hole, 7/30/2014 1:27:41 PM



**NEWFIELD****Newfield Wellbore Diagram Data  
Federal 2-22-9-16**

Surface Legal Location 22-9S-16E		API/UWI 43013329580000		Lease				
County DUCHESENE		State/Province Utah		Basin Uintah Basin				
Well Start Date 5/23/2007		Spud Date 5/23/2007		Final Rig Release Date 6/8/2007				
Original KB Elevation (ft) 5,872		Ground Elevation (ft) 5,860		Total Depth (ftKB) 5,930.0				
				Total Depth All (TVD) (ftKB)				
				PBD (All) (ftKB) Original Hole - 5,848.0				
<b>Casing Strings</b>								
Csg Des	Run Date	OD (in)	ID (in)	WV/Len (lb/ft)	Grade	Set Depth (ftKB)		
Surface	5/25/2007	8 5/8	8.097	24.00	J-55	315		
Production	6/8/2007	5 1/2	4.950	15.50	J-55	5,894		
<b>Cement</b>								
<b>String: Surface, 315ftKB 5/27/2007</b>								
Cementing Company BJ Services Company		Top Depth (ftKB) 12.0		Bottom Depth (ftKB) 314.8				
Fluid Description 2% CaCL2 + 1/4#/sk Cello-Flake mixed		Fluid Type Lead		Amount (sacks) 160				
				Class G				
				Estimated Top (ftKB) 12.0				
<b>String: Production, 5,894ftKB 6/8/2007</b>								
Cementing Company BJ Services Company		Top Depth (ftKB) 57.0		Bottom Depth (ftKB) 5,930.0				
Fluid Description 10% gel + 3% KCL, 5#'s /sk CSE + 2# sk/kolseal + 1/2#'s/sk Cello Flake		Fluid Type Lead		Amount (sacks) 300				
				Class Premilite II				
				Estimated Top (ftKB) 57.0				
Fluid Description 2% Gel + 3% KCL, .5%EC1, 1/4# sk C.F. 2% gel. 3% SM		Fluid Type Tail		Amount (sacks) 425				
				Class 50/50 POZ				
				Estimated Top (ftKB) 2,993.0				
<b>Tubing Strings</b>								
Tubing Description Tubing		Run Date 7/23/2014		Set Depth (ftKB) 4,575.6				
Item Des	Jts	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)
Tubing	147	2 7/8	2.441	6.50	J-55	4,547.55	12.0	4,559.6
Pump Seating Nipple	1	2 7/8				1.10	4,559.6	4,560.7
On-Off Tool	1	2 7/8				1.45	4,560.7	4,562.1
X Seal Nipple	1	2 7/8				0.33	4,562.1	4,562.4
Packer	1	5 1/2	4.950			6.95	4,562.4	4,569.4
Cross Over	1	2 3/8	1.991			0.51	4,569.4	4,569.9
Tubing Pup Joint	1	2 3/8				4.05	4,569.9	4,573.9
XN Nipple	1	2 3/8				1.22	4,573.9	4,575.2
Wireline Guide	1	2 3/8				0.40	4,575.2	4,575.6
<b>Rod Strings</b>								
Rod Description		Run Date		Set Depth (ftKB)				
Item Des	Jts	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)	
<b>Perforation Intervals</b>								
Stage#	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Phasing (*)	Nom Hole Dia (in)	Date	
4	D1, Original Hole	4,615	4,622	4	120	0.490	6/27/2007	
3	D3, Original Hole	4,695	4,703	4	120	0.490	6/27/2007	
3	C, Original Hole	4,751	4,759	4	120	0.490	6/27/2007	
2	A .5, Original Hole	4,951	4,960	4	120	0.490	6/27/2007	
1	CP5, Original Hole	5,755	5,763	4	120	0.490	6/25/2007	
1	CP5, Original Hole	5,778	5,790	4	120	0.490	6/25/2007	
<b>Stimulations &amp; Treatments</b>								
Stage#	ISIP (psi)	Frac Gradient (psi/ft)	Max Rate (bbl/min)	Max PSI (psi)	Total Clean Vol (bbl)	Total Slurry Vol (bbl)	Vol Recov (bbl)	
1	1,950	0.77	24.8	1,844				
2	2,525	0.94	24.7	2,324				
3	3,228	1.12	24.7	2,484				
4	1,950	0.85	24.7	3,225				
<b>Proppant</b>								
Stage#	Total Prop Vol Pumped (lb)	Total Add Amount						
1		Proppant White Sand 60101 lb						
2		Proppant White Sand 39988 lb						
3		Proppant White Sand 57108 lb						
4		Proppant White Sand 9646 lb						

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
<b>1. TYPE OF WELL</b> Water Injection Well	<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-64379
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052	<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>PHONE NUMBER:</b> 435 646-4825 Ext	<b>8. WELL NAME and NUMBER:</b> FEDERAL 2-22-9-16
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0645 FNL 1878 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 22 Township: 09.0S Range: 16.0E Meridian: S	<b>9. API NUMBER:</b> 43013329580000
	<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
	<b>COUNTY:</b> DUCHESNE
	<b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 9/9/2014	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input checked="" type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

The above reference well was put on injection at 11:02 AM on  
09/09/2014

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

**Date:** September 15, 2014

**By:**

<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 9/9/2014	



GARY R. HERBERT  
Governor

SPENCER J. COX  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

## UNDERGROUND INJECTION CONTROL PERMIT

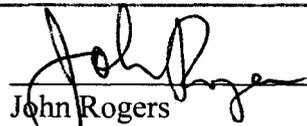
### Cause No. UIC-421

**Operator:** Newfield Production Company  
**Well:** Federal 2-22-9-16  
**Location:** Section 22, Township 9 South, Range 16 East  
**County:** Duchesne  
**API No.:** 43-013-32958  
**Well Type:** Enhanced Recovery (waterflood)

### Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on June 16, 2014.
2. Maximum Allowable Injection Pressure: 1,898 psig
3. Maximum Allowable Injection Rate: (restricted by pressure limitation)
4. Injection Interval: Green River Formation (3,897' – 5,848')
5. Any subsequent wells drilled within a ½ mile radius of this well shall have production casing cement brought up to or above the top of the unitized interval for the Greater Monument Butte Unit.

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

  
John Rogers  
Associate Director

9/5/2014  
Date

JR/MLR/js

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

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





GARY R. HERBERT  
Governor

SPENCER J. COX  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

June 16, 2014

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

Subject: Greater Monument Butte Unit Well: Federal 2-22-9-16, Section 22, Township 9 South, Range 16 East, SLBM, Duchesne County, Utah, API Well # 43-013-32958

Newfield Production Company:

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

1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.
2. Conformance with all conditions and requirements of the complete application submitted by Newfield Production Company.
3. A casing\tubing pressure test shall be conducted prior to commencing injection.
4. Pressure shall be monitored between the surface casing and the production casing on a regular basis. Any pressure changes observed shall be reported to the Division immediately.
5. The top of the injection interval shall be limited to a depth no higher than 3,897 feet in the Federal 2-22-9-16 well.

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

Sincerely,

John Rogers  
Associate Director

JR/MLR/js

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

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





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

**Applicant:** Newfield Production Company      **Well:** Federal 2-22-9-16

**Location:** 22/9S/16E      **API:** 43-013-32958

**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 315 feet and has a cement top at the surface. A 5½ inch production casing is set at 5,894 feet. The cement bond log is somewhat problematic but appears to demonstrate adequate bond in this well up to about 2,570 feet or higher. A 2 7/8 inch tubing with a packer will be set at 4,565 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, 6 injection wells, and 1 shut-in well in the AOR. Two of the producing wells are directionally drilled, with surface locations inside the AOR and bottom hole locations outside the AOR. In addition, there are 2 directional producing wells with surface locations outside the AOR and bottom hole locations inside the AOR. Finally, there is 1 approved surface location inside the AOR from which a directional well will be drilled to a bottom hole location outside the AOR and 1 approved surface location outside the AOR for 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 2700 feet. Injection shall be limited to the interval between 3,897 feet and 5,848 feet in the Green River Formation. Information submitted by Newfield indicates that the fracture gradient for the 2-22-9-16 well is 0.85 psi/ft., which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 1,898 psig. The requested maximum pressure is 1,898 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 2-22-9-16**  
**page 2**

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

**Bonding:** Bonded with the BLM

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

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

Reviewer(s): Mark Reinbold Date: 6/13/2014

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

The Salt Lake Tribune

MEDIAONE

Deseret News

PROOF OF PUBLICATION

CUSTOMER'S COPY

CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	DATE
DIV OF OIL-GAS & MINING, Rose Nolton 1594 W NORTH TEMP #1210 P.O. BOX 145801 SALT LAKE CITY, UT 84114	9001402352	5/13/2014

RECEIVED  
 MAY 15 2014  
 DIV OF OIL-GAS & MINING

ACCOUNT NAME	
DIV OF OIL-GAS & MINING,	
TELEPHONE	ADORDER# /
8015385340	0000957536 /
SCHEDULE	
Start 05/09/2014	End 05/09/2014
CUST. REF. NO.	
CAUSE NO. UIC-421	
CAPTION	
BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF	
SIZE	
82 Lines	2.00 COL
TIMES	RA
3	
MISC. CHARGES	AD CH.
TOTAL	
280.	

BEFORE THE DIVISION OF OIL, GAS AND MINING  
 DEPARTMENT OF NATURAL RESOURCES  
 STATE OF UTAH  
 NOTICE OF AGENCY ACTION  
 CAUSE NO. UIC-421

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTION 24, TOWNSHIP 9 SOUTH, RANGE 15 EAST, AND SECTIONS 22, 23, 28, AND 29, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESSIE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

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

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

- Greater Monument Butte Unit:**  
 Jubay Federal 12-24-9-15 well located in NW/4 SW/4, Section 24, Township 9 South, Range 15 East  
 API 43-013-15782  
 Federal 2-22-9-16 well located in NW/4 NE/4, Section 22 Township 9 South, Range 16 East  
 API 43-013-32958  
 Federal 6-22-9-16 well located in SE/4 NW/4, Section 22, Township 9 South, Range 16 East  
 API 43-013-33026  
 Federal 8-22-9-16 well located in SE/4 NE/4, Section 22, Township 9 South, Range 16 East  
 API 43-013-32959  
 Federal 14-22-9-16 well located in SE/4 SW/4, Section 22, Township 9 South, Range 16 East  
 API 43-013-33147  
 Federal 4-23-9-16 well located in NW/4 NW/4, Section 23, Township 9 South, Range 16 East  
 API 43-013-33177  
 Federal 2-28-9-16 well located in NW/4 NE/4, Section 28, Township 9 South, Range 16 East  
 API 43-013-33409  
 Federal 4-28-9-16 well located in NW/4 NW/4, Section 28, Township 9 South, Range 16 East  
 API 43-013-33407  
 Federal 2-29-9-16 well located in NW/4 NE/4, Section 29, Township 9 South, Range 16 East  
 API 43-013-33424

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

Selected zones in the Green River Formation will be used for water injection. The maximum requested injection pressures and rates will be determined based on fracture gradient information submitted by Newfield Production Company.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Brad Hill, Permitting Manager, at P.O. Box 145801, Salt Lake City, UT 84114-5801, phone number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or intervenors should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 6th day of May, 2014.

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

957536

AFFIDAVIT OF PUBLICATION

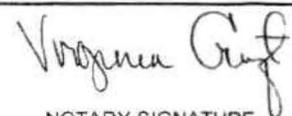
AS NEWSPAPER AGENCY COMPANY, LLC dba MEDIAONE OF UTAH LEGAL BOOKER, I CERTIFY **BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES CAUSE NO. UIC-421 IN THE MATTER OF THE APPLICA FOR DIV OF OIL-GAS & MINING, W COMPANY, LLC dba MEDIAONE OF UTAH, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN UTAH, AND PUBLISHED IN SALT LAKE NOTICE IS ALSO POSTED ON UTAHLEGALS.COM ON THE SAME DAY AS THE FIRST NEWSPAPER PUBLICATION DATE AND REMAINS ON UTAHLEGALS.COM INDEFINATELY. COMPLIES WITH UTAH DIGITAL SIGNATURE ACT UTAH CODE 46-2-101; 46-3-104.**

PUBLISHED ON Start 05/09/2014 End 05/09/2014

SIGNATURE 

DATE 5/13/2014

VIRGINIA CRAFT  
 NOTARY PUBLIC - STATE OF UTAH  
 My Comm. Exp. 01/12/2018  
 Commission # 672963

  
 NOTARY SIGNATURE

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

2250/GGUAADMIN/GFM/6131

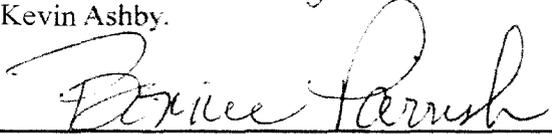
# AFFIDAVIT OF PUBLICATION

County of Duchesne,  
STATE OF UTAH

I, Kevin Ashby on oath, say that I am the PUBLISHER of the Uintah Basin Standard, a weekly newspaper of general circulation, published at Roosevelt, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue such newspaper for 1 consecutive issues, and that the first publication was on the 13 day of May, 20 14, and that the last publication of such notice was in the issue of such newspaper dated the 13 day of May, 20 14, and that said notice was published on Utahlegals.com on the same day as the first newspaper publication and the notice remained on Utahlegals.com until the end of the scheduled run.

  
\_\_\_\_\_  
Publisher

Subscribed and sworn to before me on this  
16 day of May, 20 14

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

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.

**BEFORE THE  
DIVISION  
OF OIL, GAS  
AND MINING  
DEPARTMENT OF  
NATURAL  
RESOURCES  
STATE OF  
UTAH  
NOTICE OF  
AGENCY  
ACTION  
CAUSE NO.  
UIC-421**

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTION 24, TOWNSHIP 9 SOUTH, RANGE 15 EAST, AND SECTIONS 22, 23, 28, AND 29, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

Dated this 6th day of May, 2014.  
STATE OF UTAH  
DIVISION OF OIL, GAS & MINING  
Brad Hill  
Permitting Manager  
Published in the Uintah Basin Standard May 13, 2014.

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.

tion 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:

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API 43-013-15782  
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API 43-013-33026  
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API 43-013-32959  
Federal 14-22-9-16 well located in SE/4 SW/4, Section 22, Township 9 South, Range 16 East

API 43-013-33147  
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API 43-013-33177  
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API 43-013-33409  
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API 43-013-33407  
Federal 2-29-9-16 well located in NW/4 NE/4, Section 29, Township 9 South, Range 16 East

API 43-013-33424  
The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-421

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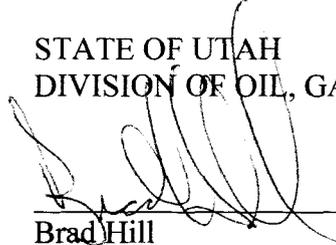
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Dated this 6th day of May, 2014.

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. The signature is stylized and somewhat cursive.

Brad Hill  
Permitting Manager

**Newfield Production Company**

**ASHLEY FEDERAL 12-24R-9-15, FEDERAL 2-22-9-16, FEDERAL 6-22-9-16,  
FEDERAL 8-22-9-16, FEDERAL 14-22-9-16, FEDERAL 4-23-9-16,  
FEDERAL 2-28-9-16, FEDERAL 4-28-9-16, FEDERAL 2-29-9-16**

**Cause No. UIC-421**

Publication Notices were sent to the following:

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

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

Uintah Basin Standard  
268 South 200 East  
Roosevelt, UT 84066  
via e-mail [ubslegals@ubmedia.biz](mailto:ubslegals@ubmedia.biz)

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

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

Newfield Production Company  
Rt 3 Box 3630  
Myton, UT 84052

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

  
\_\_\_\_\_



GARY R. HERBERT  
*Governor*

SPENCER J. COX  
*Lieutenant Governor*

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

May 8, 2014

Via e-mail: [ubslegals@ubmedia.biz](mailto:ubslegals@ubmedia.biz)

Uintah Basin Standard  
268 South 200 East  
Roosevelt, UT 84066

Subject: Notice of Agency Action – Newfield Production Company Cause No. UIC-421

To whom it may concern:

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

Please send proof of publication and billing to:

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

Sincerely,

Jean Sweet  
Executive Secretary

Enclosure



Jean Sweet <jsweet@utah.gov>

---

**Re: Notice of Agency Action Newfield Cause No. UIC-421**

1 message

---

**Cindy Kleinfelter** <ckleinfelter@ubmedia.biz>

Fri, May 9, 2014 at 12:49 PM

To: Jean Sweet <jsweet@utah.gov>

On 5/8/2014 10:39 AM, Jean Sweet wrote:

To whom it may concern:

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

Please send proof of publication and billing to:

Division of Oil, Gas and Mining

PO Box 145801

Salt Lake City, UT 84114-5801

Sincerely,

—

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

I think I replied to this, but if not, it will publish May 13.

Cindy



GARY R. HERBERT  
Governor

SPENCER J. COX  
Lieutenant Governor

# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

May 8, 2014

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

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

Subject: Notice of Agency Action – Newfield Production Company Cause No. UIC-421

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



**Order Confirmation for Ad #0000957536-01**

<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 TEMPLE STE 1210, SALT LAKE CITY UT 84116-3154 USA	<b>Payor Address</b>	1594 W NORTH TEMPLE STE 1210, SALT LAKE CITY UT 84116-3154
<b>Fax</b>	801-359-3940	<b>Ordered By</b>	<b>Acct. Exec</b>
<b>EMail</b>	juliecarter@utah.gov	Jean	kstowe

<b>Total Amount</b>	<b>\$280.52</b>			
<b>Payment Amt</b>	<b>\$0.00</b>			
<b>Amount Due</b>	<b>\$280.52</b>	<b>Tear Sheets</b>	<b>Proofs</b>	<b>Affidavits</b>
		0	0	1
<b>Payment Method</b>			<b>PO Number</b>	CAUSE NO. UIC-421
<b>Confirmation Notes:</b>				
<b>Text:</b>	Jean			
<b>Ad Type</b>	<b>Ad Size</b>	<b>Color</b>		
Legal Liner	2.0 X 82 Li	<NONE>		

<u>Product</u>	<u>Placement</u>	<u>Position</u>
Salt Lake Tribune::	Legal Liner Notice - 0998	998-Other Legal Notices
<b>Scheduled Date(s):</b>	5/9/2014	
<u>Product</u>	<u>Placement</u>	<u>Position</u>
Deseret News::	Legal Liner Notice - 0998	998-Other Legal Notices
<b>Scheduled Date(s):</b>	5/9/2014	
<u>Product</u>	<u>Placement</u>	<u>Position</u>
utahlegals.com::	utahlegals.com	utahlegals.com
<b>Scheduled Date(s):</b>	5/9/2014	

**Ad Content Proof Actual Size**

**BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-421**

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTION 24, TOWNSHIP 9 SOUTH, RANGE 1 S EAST, AND SECTIONS 22, 23, 28, 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 Unit:  
 Ashley Federal 12-24R-9-15 well located in NW/4 SW/4, Section 24, Township 9 South, Range 15 East  
 API 43-013-15782  
 Federal 2-22-9-16 well located in NW/4 NE/4, Section 22, Township 9 South, Range 16 East  
 API 43-013-32958  
 Federal 6-22-9-16 well located in SE/4 NW/4, Section 22, Township 9 South, Range 16 East  
 API 43-013-33026  
 Federal 8-22-9-16 well located in SE/4 NE/4, Section 22, Township 9 South, Range 16 East  
 API 43-013-32959  
 Federal 14-22-9-16 well located in SE/4 SW/4, Section 22, Township 9 South, Range 16 East  
 API 43-013-33147  
 Federal 4-23-9-16 well located in NW/4 NW/4, Section 23, Township 9 South, Range 16 East  
 API 43-013-33177  
 Federal 2-28-9-16 well located in NW/4 NE/4, Section 28, Township 9 South, Range 16 East  
 API 43-013-33409  
 Federal 4-28-9-16 well located in NW/4 NW/4, Section 28, Township 9 South, Range 16 East  
 API 43-013-33407  
 Federal 2-29-9-16 well located in NW/4 NE/4, Section 29, Township 9 South, Range 16 East  
 API 43-013-33424

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 6th day of May, 2014.

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

957536

UPAXP

**NEWFIELD**



**Newfield Exploration Company**

1001 17th Street | Suite 2000

Denver, Colorado 80202

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

April 23, 2014

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

RE: Permit Application for Water Injection Well  
Federal #2-22-9-16  
Monument Butte Field, Lease #UTU-64379  
Section 22-Township 9S-Range 16E  
Duchesne County, Utah

**RECEIVED**

**APR 25 2014**

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

Dear Mr. Reinbold:

Newfield Production Company herein requests approval to convert the Federal #2-22-9-16 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 that reads "Jill L. Loyle".

Jill L. Loyle  
Regulatory Associate

**NEWFIELD PRODUCTION COMPANY**  
**APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL**  
**FEDERAL #2-22-9-16**  
**MONUMENT BUTTE FIELD (GREEN RIVER) FIELD**  
**LEASE #UTU-64379**  
**APRIL 23, 2014**

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# FEDERAL 2-22-9-16

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

## Proposed Injection Wellbore Diagram

### SURFACE CASING

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

### PRODUCTION CASING

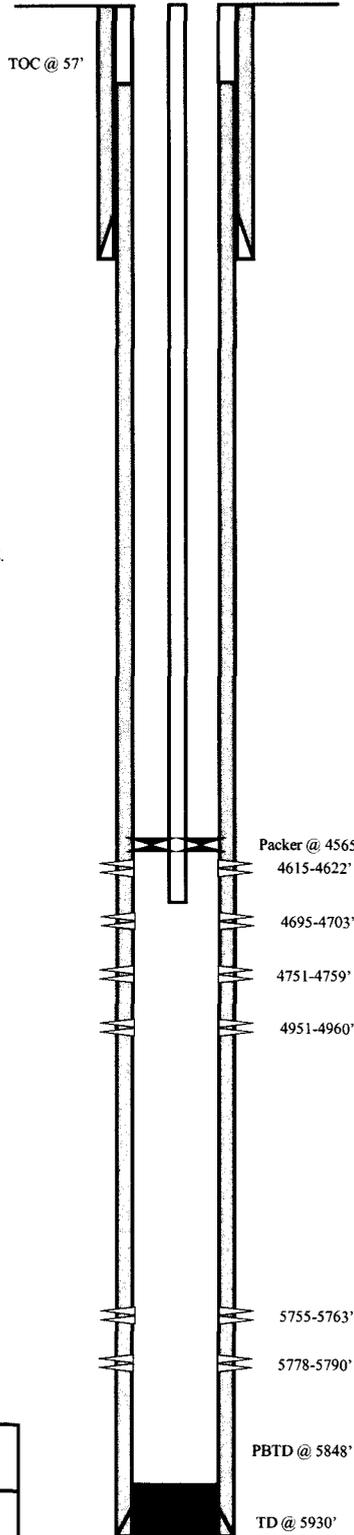
CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 136 jts. (5894.51')  
 DEPTH LANDED: 5893.76' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 425 sxs 50/50 POZ.  
 CEMENT TOP: 57' per CBL 6/25/07

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

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

### FRAC JOB

06/27/07	5755-5790'	<b>Frac CP5 sands as follows:</b> 60101# 20/40 sand in 501 bbls Lightning 17 frac fluid. Treated @ avg press of 1583 psi w/avg rate of 24.7 BPM. ISIP 1950 psi. Calc flush: 5753 gal. Actual flush: 5166 gal.
06/27/07	4951-4960'	<b>Frac A.5 sands as follows:</b> 39988# 20/40 sand in 382 bbls Lightning 17 frac fluid. Treated @ avg press of 2087 psi w/avg rate of 24.7 BPM. ISIP 2525 psi. Calc flush: 4898 gal. Actual flush: 4360 gal.
06/27/07	4695-4759'	<b>Frac D3 &amp; C sands as follows:</b> 57108# 20/40 sand in 466 bbls Lightning 17 frac fluid. Treated @ avg press of 2290 psi w/avg rate of 24.7 BPM. ISIP 3228 psi. Calc flush: 4693 gal. Actual flush: 4158 gal.
06/29/07	4615-4622'	<b>Frac D1 sands as follows:</b> 9646# 20/40 sand in 210 bbls Lightning 17 frac fluid. Treated @ avg press of 2799 psi w/avg rate of 24.7 BPM. ISIP 1928 psi. Calc flush: 4613 gal. Actual flush: 4536 gal.



### PERFORATION RECORD

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

**NEWFIELD**

---

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

645'FNL & 1878' FEL

NW/NE Section 22-T9S-R16E

Duchesne Co, Utah

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

## **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 #2-22-9-16 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 #2-22-9-16 well, the proposed injection zone is from Garden Gulch to Basal Carbonate (3897' - 5848'). 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 3576' and the TD is at 5930'.

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

The referenced log for the Federal #2-22-9-16 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 315' KB, and 5-1/2", 15.5# casing run from surface to 5894' KB. A casing integrity test will be conducted at the time of conversion. See Attachment E.

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

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

- 2.7 Standard laboratory analysis of the fluid to be injected, the fluid in the formation into which the fluid is being injected, and the compatibility of the fluids.**

See Attachment F.

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

The proposed average injection pressure will be approximately 1100 psig and the maximum injection pressure will not exceed 1898 psig.

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

The minimum fracture gradient for the Federal #2-22-9-16, for existing perforations (4615' - 5790') calculates at 0.85 psig/ft. The maximum injection pressures will be limited so as not to exceed this gradient. A step rate test will be performed periodically to ensure we are below parting pressure. The proposed maximum injection pressure is 1898 psig. We may add additional perforations between 3576' and 5930'. See Attachments G and G-1.

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

In the Federal #2-22-9-16, the proposed injection zone (3897' - 5848') 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.

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

See Attachments E through E-17.

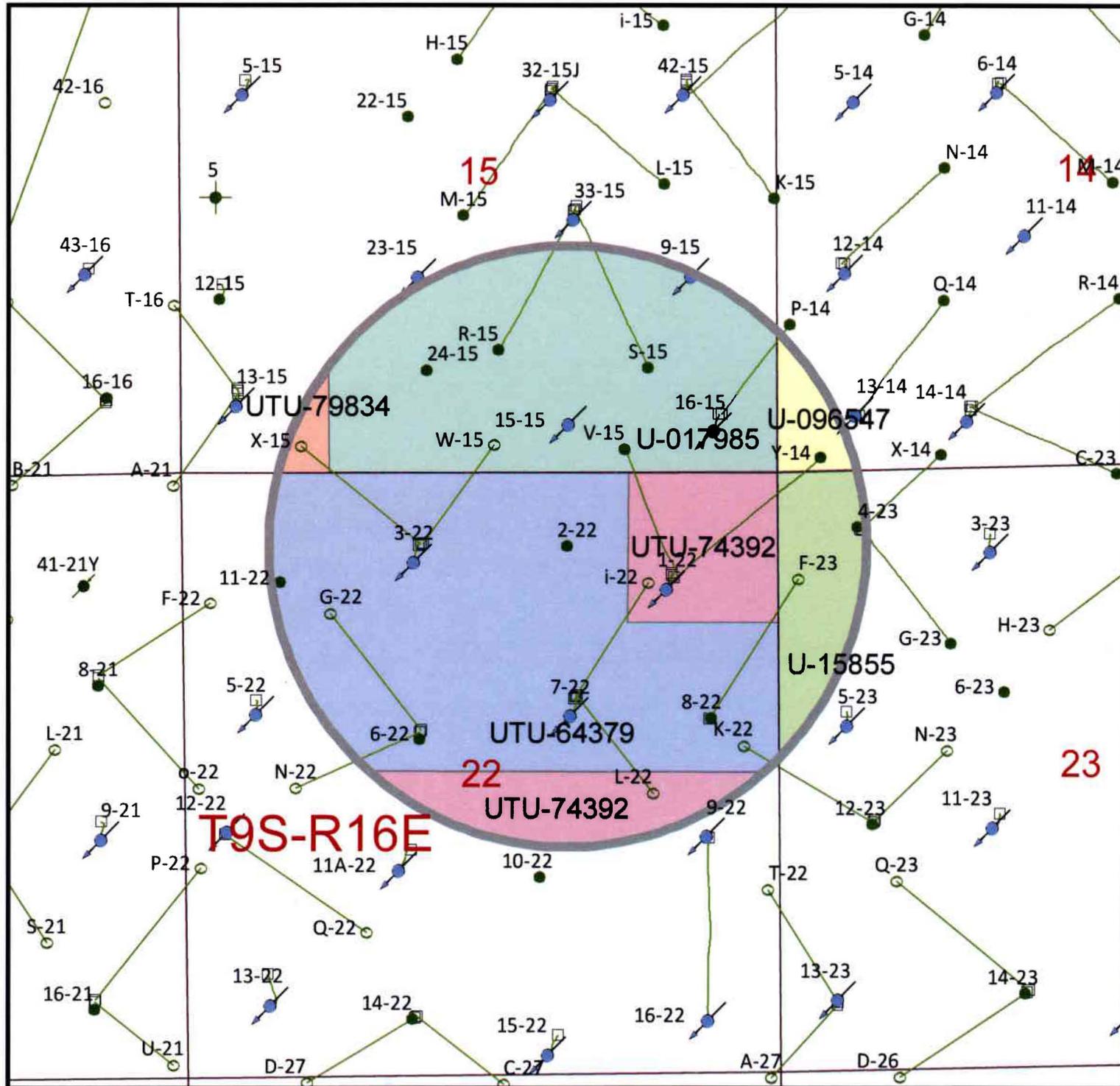
Additionally, the injection system will be equipped with high and low pressure shut down devices that will automatically shut in injection waters if a system blockage or leakage occurs. One way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure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

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

See Attachment C.

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

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



**Lease Number**

- U-017985
- U-096547
- U-15855
- UTU-64379
- UTU-74392
- UTU-79834

**Well Status**

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

Federal 2-22-9-16  
Section 22, T9S-R16E



**NEWFIELD**  
ROCKY MOUNTAINS<sup>1</sup> in = 1,250 feet

**1/2 Mile Radius Map**  
Duchesne County

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

March 13, 2014



**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 10: S2SE Section 15: E2,E2W2	USA UTU-017985 HBP	Newfield Production Company Newfield RMI LLC ABO Petroleum Corp MYCO Industries Inc OXY Y-1 Company Yates Petroleum Corp	USA
2	T9S-R16E SLM Section 11: W2SW, SESW Section 14: SWNE, W2, W2SE, SESE	USA UTU-096547 HBP	Newfield Production Company Newfield RMI LLC Yates Petroleum Corporation ABO Petroleum Corp Myco Industries Inc Oxy Y-1 Company	USA
3	T9S-16E SLM Section 23: E2, NW, E2SW, NWSW Section 24: N2, SW, N2SE, SWSE	USA UTU-15855 HBP	Newfield Production Company Newfield RMI LLC Bee Hive Oil LLC Journey Properties LLC King Oil & Gas of Texas LTD Six Gold Oil LLC Stone Energy Corp	USA
4	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

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

ATTACHMENT C

CERTIFICATION FOR SURFACE OWNER NOTIFICATION

RE: Application for Approval of Class II Injection Well  
Federal #2-22-9-16

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: JWL Loyle  
Newfield Production Company  
JWL Loyle  
Regulatory Associate

Sworn to and subscribed before me this 23<sup>rd</sup> day of April, 2014.

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

My Commission Expires: 12/31/15

LYDIA BIONDO  
Notary Public  
State of Colorado

## FEDERAL 2-22-9-16

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

### Wellbore Diagram

#### SURFACE CASING

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

#### PRODUCTION CASING

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

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

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

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

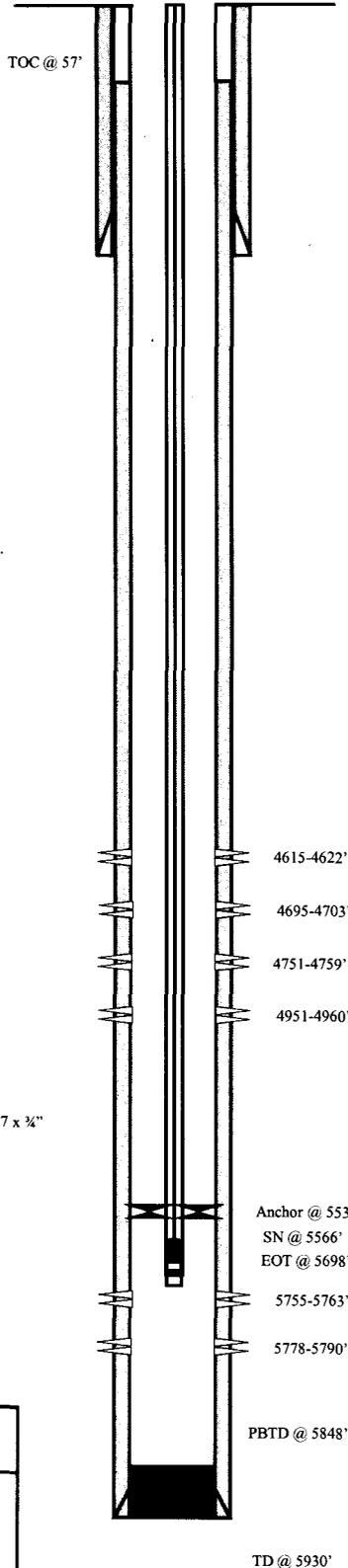
POLISHED ROD: 1-1/2" x 22' polish rod  
 SUCKER RODS: 131 x 3/4" guided rods(4per), 47 x 3/4" sucker rods, 37 x 3/4" guided rods(4per), 6 x 1-1/2" Sinker bars, 6 x 1" Stabilizer rod  
 PUMP SIZE: 2-1/2" x 1-1/4" x 12' x 16' RHAC  
 STROKE LENGTH: 86"  
 PUMP SPEED, SPM: 5  
 PUMPING UNIT: Weatherford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

#### FRAC JOB

06/27/07	5755-5790'	<b>Frac CP5 sands as follows:</b> 60101# 20/40 sand in 501 bbls Lightning 17 frac fluid. Treated @ avg press of 1583 psi w/avg rate of 24.7 BPM. ISIP 1950 psi. Calc flush: 5753 gal. Actual flush: 5166 gal.
06/27/07	4951-4960'	<b>Frac A.5 sands as follows:</b> 39988# 20/40 sand in 382 bbls Lightning 17 frac fluid. Treated @ avg press of 2087 psi w/avg rate of 24.7 BPM. ISIP 2525 psi. Calc flush: 4898 gal. Actual flush: 4360 gal.
06/27/07	4695-4759'	<b>Frac D3 &amp; C sands as follows:</b> 57108# 20/40 sand in 466 bbls Lightning 17 frac fluid. Treated @ avg press of 2290 psi w/avg rate of 24.7 BPM. ISIP 3228 psi. Calc flush: 4693 gal. Actual flush: 4158 gal.
06/29/07	4615-4622'	<b>Frac D1 sands as follows:</b> 9646# 20/40 sand in 210 bbls Lightning 17 frac fluid. Treated @ avg press of 2799 psi w/avg rate of 24.7 BPM. ISIP 1928 psi. Calc flush: 4613 gal. Actual flush: 4536 gal.

#### PERFORATION RECORD

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



**NEWFIELD**

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

645'FNL & 1878' FEL

NW/NE Section 22-T9S-R16E

Duchesne Co, Utah

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

## Federal 1-22-9-16

Spud Date: 12-26-05  
 Put on Production: 01-19-06  
 GL: 5742' KB: 5754'

### Injection Wellbore Diagram

#### SURFACE CASING

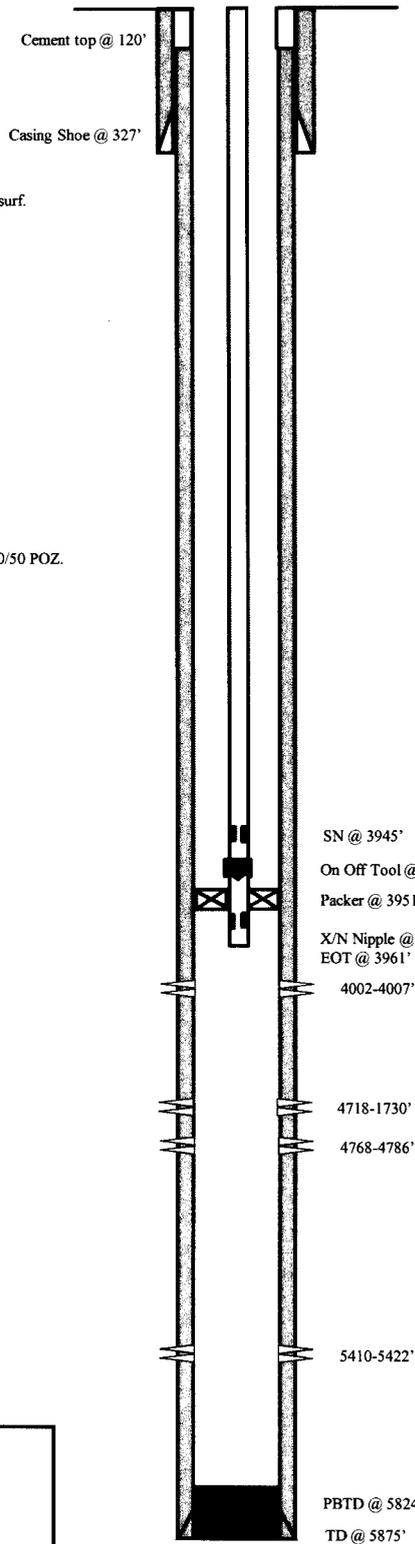
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (315.48')  
 DEPTH LANDED: 327.33' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 4 bbls cmt to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 139 jts. (5871.28')  
 DEPTH LANDED: 5869.78' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 400 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
 CEMENT TOP AT: 120'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 124 jts (3933.1')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 3945.1' KB  
 ON/OFF TOOL AT: 3946.2'  
 ARROW #1 PACKER CE AT: 3951'  
 XO 2-3/8 x 2-7/8 J-55 AT: 3955.2'  
 TBG PUP 2-3/8 J-55 AT: 3955.8'  
 X/N NIPPLE AT: 3959.9'  
 TOTAL STRING LENGTH: EOT @ 3961'



#### FRAC JOB

01-16-06	5410-5422'	<b>Frac CP2, sands as follows:</b> 45584# 20/40 sand in 483 bbls Lightning 17 frac fluid. Treated @ avg press of 2087 psi w/avg rate of 25 BPM. ISIP 2130 psi. Calc flush: 5408 gal. Actual flush: 4788 gal.
01-16-06	4718-4730'	<b>Frac B2, &amp; B1 sands as follows:</b> 124027# 20/40 sand in 851 bbls Lightning 17 frac fluid. Treated @ avg press of 1490 psi w/avg rate of 24.9 BPM. ISIP 1900 psi. Calc flush: 4716 gal. Actual flush: 4116 gal.
01-16-06	4002-4007'	<b>Frac GB6 sands as follows:</b> 23163# 20/40 sand in 305 bbls Lightning 17 frac fluid. Treated @ avg press of 1785 psi w/avg rate of 14.5 BPM. ISIP 2080 psi. Calc flush: 4000 gal. Actual flush: 3877 gal.
03/22/06		<b>Pump Change.</b> Update rod and tubing details.
9-3-08		<b>Pump Change.</b> Updated rod & tubing details.
7/21/09		<b>Tubing Leak.</b> Updated rod & tubing details.
01/13/2011		<b>Pump Change.</b> Rod & tubing detail updated.
11/14/12		<b>Convert to Injection Well</b>
11/16/12		<b>Conversion MIT Finalized</b> – update tbg detail

#### PERFORATION RECORD

01-11-06	5410-5422'	4 JSPF	48 holes
01-16-06	4768-4786'	4 JSPF	72 holes
01-16-06	4718-4730'	4 JSPF	48 holes
01-16-06	4002-4007'	4 JSPF	20 holes

**NEWFIELD**

**Federal 1-22-9-16**

887' FNL & 963' FEL  
 NE/NE Section 22-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-32612; Lease #UTU-74392

## Federal 3-22-9-16

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

### Injection Wellbore Diagram

#### SURFACE CASING

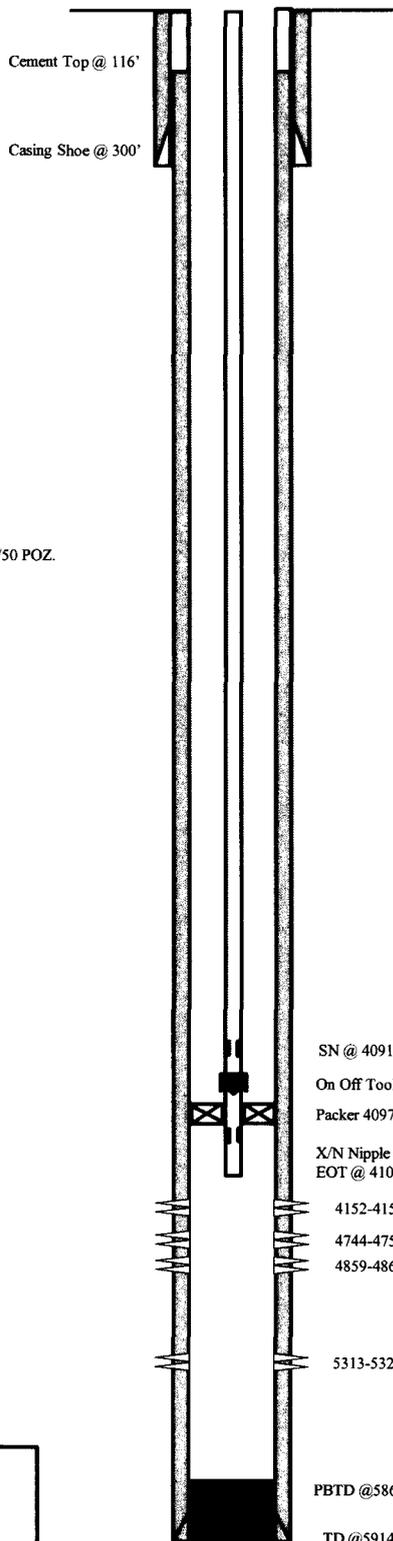
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (287.98')  
 DEPTH LANDED: 299.83' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: To surface with 160 sxs Class "G" cmt

#### PRODUCTION CASING

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

#### TUBING

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



#### FRAC JOB

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

#### PERFORATION RECORD

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

**NEWFIELD**

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

## Federal 6-22-9-16

Spud Date: 3-13-08  
 Put on Production: 5-6-08  
 GL: 5913' KB: 5925'

Initial Production: BOPD,  
 MCFD, BWPD

Wellbore Diagram

### SURFACE CASING

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

### PRODUCTION CASING

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

### TUBING

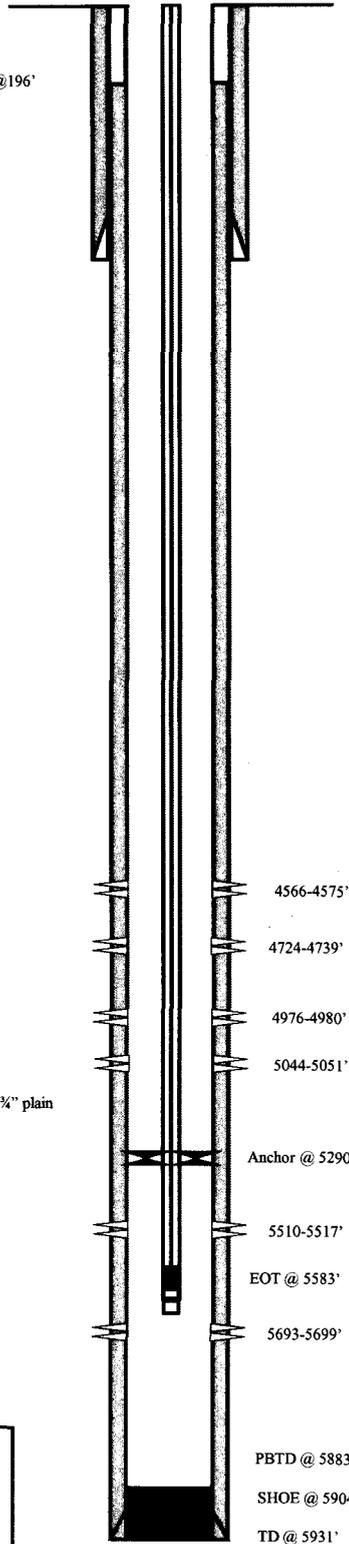
SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 168 jts (5278.14')  
 TUBING ANCHOR: 5290.14' KB  
 NO. OF JOINTS: 2 jts (63.11')  
 SEATING NIPPLE: 2-7/8" (1.10")  
 SN LANDED AT: 5356.05' KB  
 NO. OF JOINTS: 1 jts (31.47')  
 TOTAL STRING LENGTH: EOT @ 5583.08' KB

### SUCKER RODS

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

### FRAC JOB

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



### PERFORATION RECORD

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



**Federal 6-22-9-16**  
 2340' FNL & 2060' FWL  
 SE/NW Section 22-T9S-R16E  
 Duchesne Co, Utah  
 API # 43-013-33026; Lease # UTU-34379

## Federal 7-22-9-16

Spud Date: 3/12/08

Put on Production: 04/23/08

GL: 5818' KB: 5880'

5868

### SURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 8 jts. (323.72')

DEPTH LANDED: 336'

HOLE SIZE: 12-1/4"

CEMENT DATA: 160 sxs Class "G" cmt

### PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 141 jts. (5930.89')

HOLE SIZE: 7-7/8"

DEPTH LANDED: 5944'

CEMENT DATA: 300 sk Prem. Lite II mixed & 400 sxs 50/50 POZ.

CEMENT TOP AT: 146'

### TUBING

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

TBG PUP: 1 jt (10.2')

NO. OF JOINTS: 142 jts (4480.1')

ON/OFF TOOL AT: 4502.3'

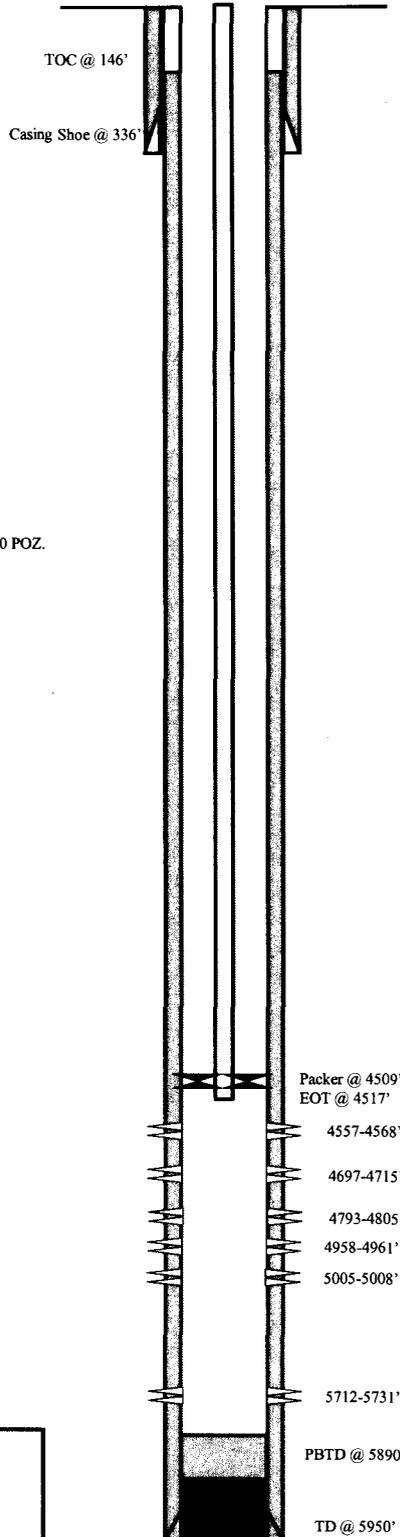
PACKER CE @ 4508.77'

XO 2-7/8 x 2-3/8" AT: 4511.2'

TBG PUP AT: 4511.7'

TOTAL STRING LENGTH: EOT @ 4517' w/12' KB

### Injection Wellbore Diagram



### FRAC JOB

04-17-08	5712-5731'	<b>Frac CP5 sands as follows:</b> Frac with 45958 #'s of 20/40 sand in 460 bbls of Lightning 17 fluid. Treat at an ave pressure of 1725 psi @ 23.3 BPM. ISIP 1824 psi.
04-17-08	4793-4805'	<b>Frac B1 sands as follows:</b> Frac with 40109 #'s of 20/40 sand in 402 bbls of Lightning 17 fluid. Treat at an ave pressure of 1811 psi @ 23.3 BPM. ISIP 1936 psi.
04-17-08	4697-4715'	<b>Frac C sands as follows:</b> Frac with 109892 #'s of 20/40 sand in 801 bbls of Lightning 17 fluid. Treat at an ave pressure of 2002 psi @ 23.3 BPM. ISIP 2125 psi.
04-17-08	4557-4568'	<b>Frac D1 sands as follows:</b> Frac with 52326 #'s of 20/40 sand in 490 bbls of Lightning 17 fluid. Treat at an ave pressure of 2259 psi @ 23.3 BPM. ISIP 2160 psi.
04-29-08		<b>Pump change.</b> Tubing and rod details updated.
5/8/2010		<b>Pump changed.</b> Updated rod and tubing detail.
08/07/12	5005 - 5008'	<b>Frac A3 sands as follows:</b> Frac with 14510# of 20/40 sand in 230 bbls of Lightning 17 fluid.
08/07/12	4958-4961'	<b>Frac A1 sands as follows:</b> Frac with 16997# of 20/40 sand in 228 bbls of Lightning 17 fluid.
08/10/12		<b>Convert to Injection Well</b>
08/13/12		<b>Conversion MIT Finalized</b> - update tbg detail

### PERFORATION RECORD

4557 - 4568'	4 JSPF	44 holes
4697 - 4715'	4 JSPF	72 holes
4793 - 4805'	4 JSPF	48 holes
5712 - 5731'	4 JSPF	76 holes
5005 - 5008'	3 JSPF	9 holes
4958 - 4961'	3 JSPF	9 holes

### NEWFIELD



**Federal 7-22-9-16**  
2036' FNL & 1837' FEL  
SWNE Section 22-T9S-R16E  
Duchesne Co, Utah  
API #43-013-33027; Lease #UTU-64379

## Federal 8-22-9-16

Spud Date: 11/01/06  
 Put on Production: 12/13/06  
 K.B.: 5791, G.L.: 5779

Initial Production: BOPD,  
 MCFD, BWPD

Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (310.68')  
 DEPTH LANDED: 322.53' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 133 jts. (5837.43')  
 DEPTH LANDED: 5850.68' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 322 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
 CEMENT TOP: 60'

### TUBING

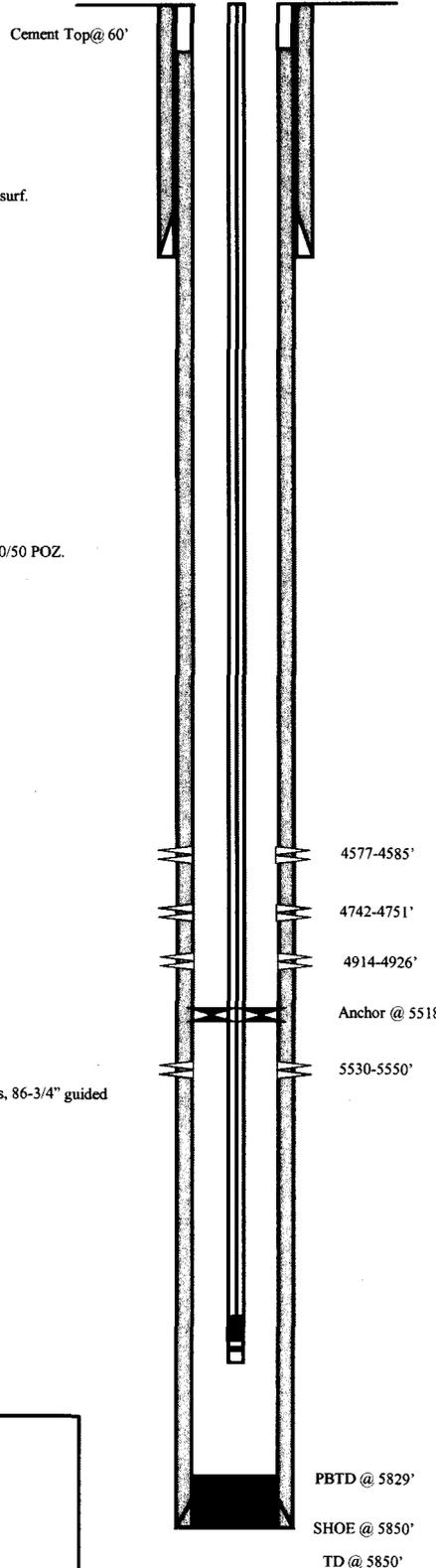
SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 175 jts (5517.93')  
 TUBING ANCHOR: 5517.90' KB  
 NO. OF JOINTS: 1 jts (31.70')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5552.4' KB  
 NO. OF JOINTS: 2 jts (63.10')  
 TOTAL STRING LENGTH: EOT @ 5617' KB

### SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM  
 SUCKER RODS: 2-8' x 3/4" pony rod, 100-3/4" guided rods, 86-3/4" guided rods, 30-3/4" guided rods, 6-1 1/2" weight rods.  
 PUMP SIZE: 2-1/2" x 1-1/2" x 14' RHAC w/SM plunger  
 STROKE LENGTH: 61"  
 PUMP SPEED, 5 SPM:

### FRAC JOB

12/08/06	5530-5550'	<b>Frac CP4, sands as follows:</b> 30245# 20/40 sand in 381 bbls Lightning 17 frac fluid. Treated @ avg press of 2020 psi w/avg rate of 25 BPM. ISIP 1960 psi. Calc flush: 5548 gal. Actual flush: 4998 gal.
12/08/06	4914-4926'	<b>Frac A1 sands as follows:</b> 70951# 20/40 sand in 533 bbls Lightning 17 frac fluid. Treated @ avg press of 1762 psi w/avg rate of 25 BPM. ISIP 2190 psi. Calc flush: 4924 gal. Actual flush: 4452 gal.
12/08/06	4742-4751'	<b>Frac B2 sands as follows:</b> 29729# 20/40 sand in 414 bbls Lightning 17 frac fluid. Treated @ avg press of 2490 psi w/avg rate of 25 BPM. ISIP 1950 psi. Calc flush: 4749 gal. Actual flush: 4242 gal.
12/08/06	4577-4585'	<b>Frac C sands as follows:</b> 26560# 20/40 sand in 342 bbls Lightning 17 frac fluid. Treated @ avg press of 2804 psi w/avg rate of 25 BPM. ISIP psi. Calc flush: 4583 gal. Actual flush: 4242 gal.
07/16/10		Pump Change. Rod & Tubing detail.



### PERFORATION RECORD

12/05/06	5530-5550'	4 JSPF	80 holes
12/08/06	4914-4926'	4 JSPF	48 holes
12/08/06	4742-4751'	4 JSPF	36 holes
12/08/06	4577-4585'	4 JSPF	32 holes



**Federal 8-22-9-16**  
 2200' FNL & 618' FEL  
 SE/NE Section 22-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-32959; Lease #UTU-64379

## Federal 4-23-9-16

Spud Date: 01-09-08  
 Put on Production: 3-10-08  
 GL: 5716' KB: 5728'

Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (312.55')  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt

### PRODUCTION CASING

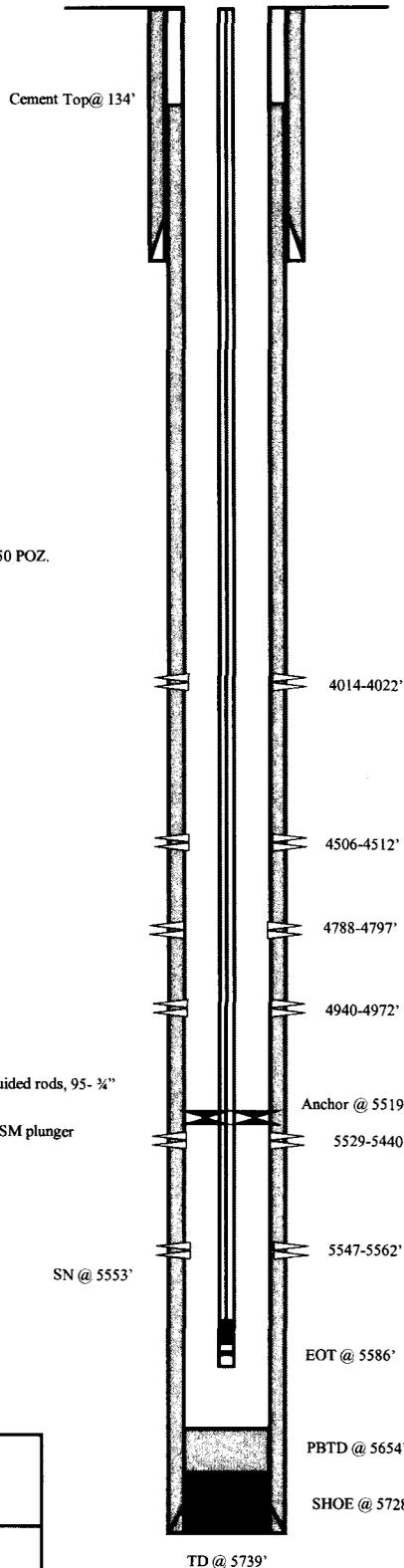
CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 133jts. (5715.22')  
 HOLE SIZE: 7-7/8"  
 DEPTH LANDED: 5728.47'  
 CEMENT DATA: 300 sk Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP AT: 134'

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 175 jts (5507.16')  
 TUBING ANCHOR: 5519.16'  
 NO. OF JOINTS: 1 jts (31.39')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5553.35' KB  
 NO. OF JOINTS: 1 jts (31.48')  
 TOTAL STRING LENGTH: EOT @ 5586.38' w/12' KB

### SUCKER RODS

POLISHED ROD: 1-1/2" x 26'  
 SUCKER RODS: 1-6', 1-4' & 1-2' X 3/4" ponies, 100-3/4" guided rods, 95- 3/4" plain rods, 20-3/4" guided rods, 6- 1 1/2" weighted bars.  
 PUMP SIZE: 2-1/2" x 1-1/2" x 12' X 15.5' RHAC pump w/ SM plunger  
 STROKE LENGTH: 86"  
 PUMP SPEED, SPM:4



### FRAC JOB

- 2-29-08 5547-5562'** **Frac CP4 sands as follows:**  
 Frac with 40523# 20/40 sand in 434 bbls Lightning 17 fluid. Treat at an ave pressure of 1786 psi @ 23.2 BPM. ISIP 1970 psi.
- 2-29-08 5429-5440'** **Frac CP2 sands as follows:**  
 Frac with 20386 # 20/40 sand in 333 bbls Lightning 17 fluid. Treat at an ave pressure of 1963 psi @ 25 BPM. ISIP 1840 psi.
- 2-29-08 4940-4972'** **Frac A1 sands as follows:**  
 Frac with 120556 #'s 20/40 sand in 869 bbls Lightning 17 fluid. Treat at an ave pressure of 1845 psi @ 24.5 BPM. ISIP 2105 psi.
- 2-29-08 4788-4797'** **Frac B2 sand as follows:**  
 Frac with 50665 #'s of 20/40 sand in 450 bbls Lightning 17 fluid. Treat at an ave pressure of 1990 psi @ 24.5 BPM. ISIP 1945 psi.
- 2-29-08 4506-4512'** **Frac D1 sands as follows:**  
 Frac with 15200 #'s 20/40 sand in 259 bbls Lightning 17 fluid. Treat at an ave pressure of 1942 psi @ 24.3 BPM. ISIP 1825 psi.
- 2-29-08 4014-4022'** **Frac GB6 sands as follows:**  
 Frac with 40122 #'s 20/40 sand in 384 bbls Lightning 17 fluid. Treat at an ave pressure of 2036 psi @ 24.3 BPM. ISIP 1880 psi.

### PERFORATION RECORD

Interval	JSPP	Holes
4014-4022'	4 JSPP	32 holes
4506-4512'	4 JSPP	24 holes
4788-4797'	4 JSPP	36 holes
4940-4972'	4 JSPP	128 holes
5429-5440'	4 JSPP	44 holes
5547-5562'	4 JSPP	60 holes

**NEWFIELD**

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**Federal 4-23-9-16**  
 499' FNL & 685' FWL  
 NWNW Section 23-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33177; Lease #UTU-15855

## Monument Federal #11-22

Spud Date:

Put on Production: 9/26/1996

GL: 5917' KB: 5927'

Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8 5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 jts. (248.10')

DEPTH LANDED: 258.10' KB

HOLE SIZE: 12 1/4"

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

### PRODUCTION CASING

CSG SIZE: 5 1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 145 jts. (5648.71')

DEPTH LANDED: 5658.71' KB

HOLE SIZE: 7 7/8"

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

CEMENT TOP AT: 474'

### TUBING

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

NO. OF JOINTS: 155 jts (4848.93')

NO. OF JOINTS: 2jts (62.78)

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

SN LANDED AT: 4924.51' KB

NO. OF JOINTS: 1jts (31.45)

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

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

### SUCKER RODS

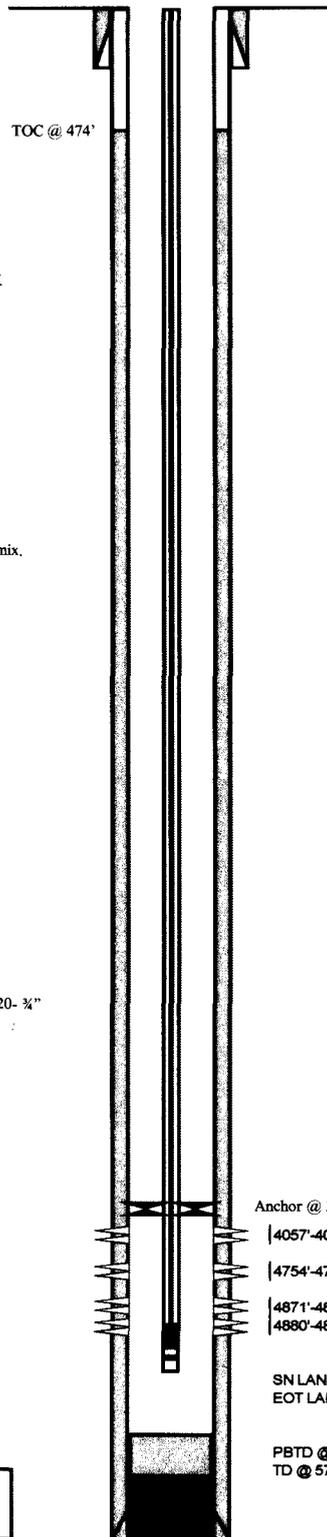
POLISHED ROD: 1-1/4" x 22' SM

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

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

STROKE LENGTH: 74"

PUMP SPEED, SPM: 5 SPM



### ACID JOB /BREAKDOWN

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

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

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

### FRAC JOB

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

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

### PERFORATION RECORD

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

3-20-08

Workover. Updated rod and tubing detail.

**NEWFIELD**

Monument Federal 11-22-9-16Y

957' FNL & 832' FWL

NW/NW Section 22-T9S-R16E

Duchesne Co, Utah

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

## Monument Fed. 23-15-9-16

Spud Date: 10/06/93  
 Put on Production: 11/30/93  
 Put on Injection: 11/11/94  
 GL: 5828' KB: 5838'

Initial Production: 40 BOPD,  
 200 MCFD, 56 BWPD

Injection Wellbore  
 Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 6 jts. (270.52')  
 DEPTH LANDED: 278.25' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 150 sxs Class "G" cmt, est 4 bbls cmt to surf.

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: K-55  
 WEIGHT: 15.5#  
 LENGTH: 130 jts. (5666.71')  
 DEPTH LANDED: 5675.71' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 100 sxs Hi-Fill & 250 sxs 50/50 POZ.  
 CEMENT TOP AT: 2490' per CBL

**TUBING**

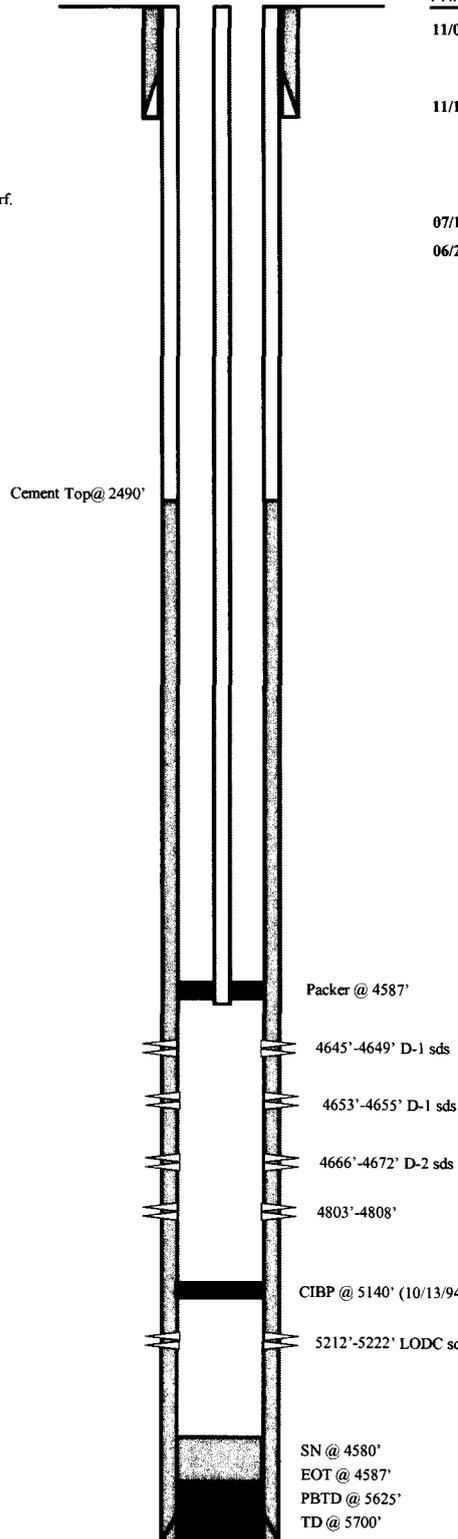
SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 148 jts (4569.94')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4580.99' KB  
 2 7/8" x 2 3/8" CROSSOVER: 4581.74' KB  
 PACKER: 4587.94' KB  
 TOTAL STRING LENGTH: EOT @ 4587.94'

**FRAC JOB**

11/03/93 5212'-5222' **Frac zone as follows:**  
 20,700# 16/30 sand in 380 bbls. 2% KCl.  
 Screened out.

11/11/93 4645'-4808' **Frac zone as follows:**  
 39,890# 16/30 sand in 637 bbl KCl. Avg.  
 treating press. 2800 psi @ 19.5 BPM. ISIP  
 1890 psi. Calc. flush: 4645 gal. Actual flush:  
 4494 gal.

07/15/05 **5 YR MIT**  
 06/21/10 **5 YR MIT**



**PERFORATION RECORD**

Date	Depth Range	Type	Holes
11/01/93	5216'-5220'	2 JSPP	08 holes
11/03/93	5212'-5222'	4 JSPP	40 holes
11/09/93	4803'-4808'	1 JSPP	05 holes
11/09/93	4666'-4672'	1 JSPP	04 holes
11/09/93	4653'-4655'	1 JSPP	02 holes
11/09/93	4645'-4649'	1 JSPP	03 holes
10/12/94	4666'-4672'	2 JSPP	12 holes
10/12/94	4653'-4655'	2 JSPP	04 holes
10/12/94	4645'-4649'	2 JSPP	08 holes

**NEWFIELD**

Monument Fed. #23-15-9-16  
 1724' FSL & 2078' FWL  
 NESW Section 15-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-31373; Lease #UTU-76241

Spud Date: 12/28/05  
 Put on Production: 02/02/06  
 GL: 5704' KB: 5716'

### Jonah Federal 16-15-9-16

#### Injection Wellbore Diagram

#### SURFACE CASING

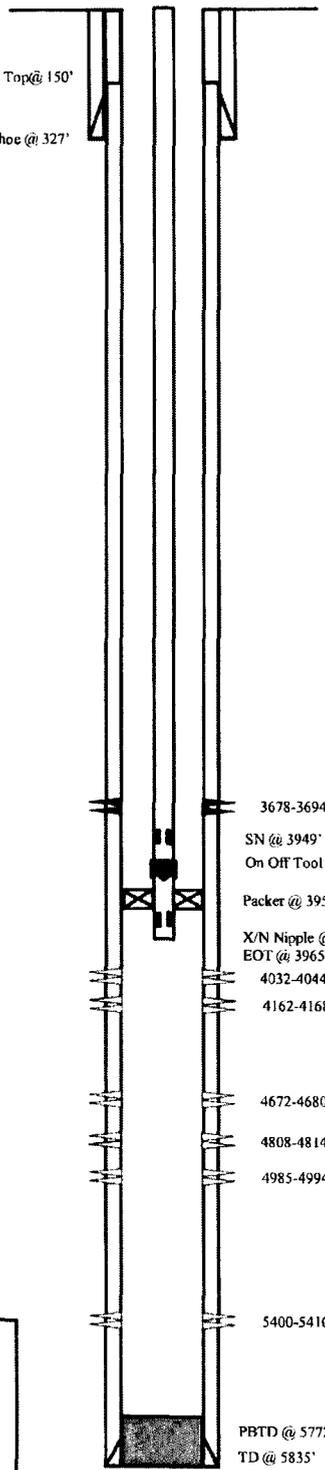
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (315 16')  
 DEPTH LANDED: 327.01' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 136 jts (5818.63')  
 DEPTH LANDED: 5817.88' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 350 sxs Prem Lite II mixed & 450 sxs 50/50 POZ  
 CEMENT TOP: 150'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 138 jts (3937')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 3949' KB  
 ON/OFF TOOL AT: 3950.1'  
 ARROW #1 PACKER CE AT: 3956.2'  
 XO 2-3/8 x 2-7/8 J-55 AT: 3959.2'  
 TBG PUP 2-3/8 J-55 AT: 3959.7'  
 X/N NIPPLE AT: 3963.9'  
 TOTAL STRING LENGTH: EOT @ 3965.49'



#### FRAC JOB

01/25/06 5400-5410' **Frac C1 sands as follows:**  
 14789# 20/40 sand in 255 bbls Lightning 17 frac fluid Treated @ avg press of 1785 psi w/avg rate of 25.1 BPM. ISIP 1850 psi. Calc flush: 5398 gal Actual flush: 4872 gal.

01/25/06 4985-4994' **Frac A3 sands as follows:**  
 18508# 20/40 sand 284 bbls Lightning 17 frac fluid Treated @ avg press of 1845 psi w/avg rate of 25.1 BPM. ISIP 1870 psi. Calc flush: 4983 gal Actual flush: 4992 gal

01/25/06 4808-4814' **Frac B2 sands as follows:**  
 23613# 20/40 sand in 319 bbls Lightning 17 frac fluid Treated @ avg press of 2375 psi w/avg rate of 25.1 BPM. ISIP 2600 psi. Calc flush: 4806 gal Actual flush: 4284 gal

01/25/06 4672-4680' **Frac C sands as follows:**  
 61018# 20/40 sand in 480 bbls Lightning 17 frac fluid Treated @ avg press of 2005 psi w/avg rate of 25 BPM. ISIP 2240 psi. Calc flush: 4670 gal. Actual flush: 4116 gal

01/25/06 4032-4044' **Frac PB8, GB6 sands as follows:**  
 29328# 20/40 sand in 330 bbls Lightning 17 frac fluid Treated @ avg press of 1813 psi w/avg rate of 25.1 BPM. ISIP 1835 psi. Calc flush: 4030 gal Actual flush: 3486 gal

01/25/06 3678-3694' **Frac CG sands as follows:**  
 48534# 20/40 sand in 390 bbls Lightning 17 frac fluid Treated @ avg press of 1700 psi w/avg rate of 25.1 BPM. ISIP 1840 psi. Calc flush: 3676 gal. Actual flush: 3570 gal

06-26-06 **Parted Rods:** Update rod and tubing details.

11-27-06 **Pump Change:** Updated rod and tubing detail

9-12-07 **Pump change:** Updated rod & tubing details

04/17/08 **Pump change:** Updated rod & tubing details

12/11/09 **Tubing leak:** Updated rod and tubing details

10/29/13 3678-3694' **Cmt Squeeze** 100 sxs Class G Cement

11/15/13 **Conversion MIT Finalized** - update tbg detail

#### PERFORATION RECORD

Date	Interval	Tool	Holes
01/18/06	5400-5410'	4 JSPF	40 holes
01/25/06	4985-4994'	4 JSPF	36 holes
01/25/06	4808-4814'	4 JSPF	24 holes
01/25/06	4672-4680'	4 JSPF	32 holes
01/25/06	4162-4168'	4 JSPF	24 holes
01/25/06	4032-4044'	4 JSPF	48 holes
01/25/06	3678-3694'	4 JSPF	64 holes Squeezed

**NEWFIELD**

**Jonah Federal 16-15-9-16**  
 512' FSL & 535' FEL  
 SE/SE Section 15-19S-R16E  
 Duchesne Co, Utah  
 API #43-013-32754; Lease #UTU-17985

43-013-51150

**NEWFIELD**

**GMBU R-15-9-16**

Monument Butte - Duchesne County, Utah, USA

Surf Location: NW/SE - Sec 15, T9S, R16E; 2296' FSL & 1811' FEL

5747' GL + 10' KB

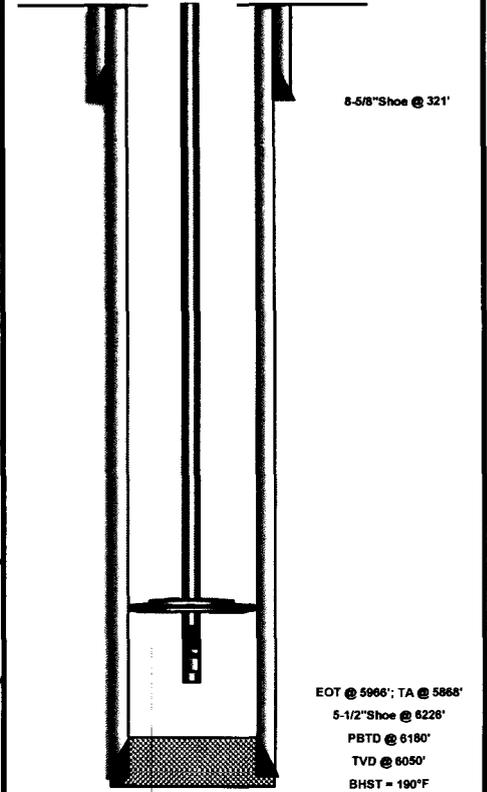
Paul Lembcke

DLB 5/10/13

API#: 43-013-51150; Lease#: UTU-017965

Spud Date: 2/7/13; PoP Date: 3/29/13

CASING DETAIL	Casing	Top	Bottom	Size	Wt	Grade	Drift	Burst	Collapse	ID	gal/ft	Coupling	Hole
	Surf	10'	321'	8.625	24#	J-55	7.972"	2,950	1,370	8.097"	2.6749	STC	12.250
Prod	10'	6,226'	5.500	15.5#	J-55	4.825"	4,810	4,040	4.950"	0.9997	LTC	7.875	
TUBING DETAIL	Top	Bottom	Coupling	Size	Wt.	Grade	Drift	Burst	Collapse	ID	Packer/Hanger		
	10'	5,966'	8EUE	2-7/8"	6.5#	J-55	2.347"	7,280	7,680	2.441"	Tubing Anchor Set @ 5,868'		
ROD DETAIL	Component		Top	Bottom	Size	Grade	Length	Count	Pump				
	Pony Rod			2'	7/8"	Tenaris D78	2'	1	Insert Pump: 2.5 Max ID x 1.75 Plunger RHAC @				
	Polish Rod		2'	32'	1 1/2"	4140	30'	1	5,896'				
	Pony Rod		32'	46'	7/8"	Tenaris D78	14'	1					
	4per Guided Rod		46'	2,021'	7/8"	Tenaris D78	1,975'	79					
	4per Guided Rod		2,021'	5,146'	3/4"	Tenaris D78	3,125'	125					
8per Guided Rod		5,146'	5,896'	7/8"	Tenaris D78	750'	30						
Stage	Top	Bottom	SPF	EHD	Date	Frac Summary							
4	4,812'	4,816'	3	0.34	3/14/2013	Formation:	D3						
						20/40 White:	42,047 lbs	15% HCl:	0 gals				
						Pad:	2,570 gals	Treating Fluid:	9,847 gals				
						Flush:	4,817 gals	Load to Recover:	17,234 gals				
						ISIP=	1.053 psi/ft	Max STP:	3,463 psi				
3	4,948'	4,948'	3	0.34	3/14/2013	Formation:	B2	B1					
	4,952'	4,954'	3	0.34	3/14/2013	20/40 White:	45,250 lbs	15% HCl:	504 gals				
	4,994'	4,996'	3	0.34	3/14/2013	Pad:	2,335 gals	Treating Fluid:	12,401 gals				
						Flush:	4,864 gals	Load to Recover:	20,104 gals				
						ISIP=	0.887 psi/ft	Max STP:	2,963 psi				
2	5,138'	5,140'	3	0.34	3/14/2013	Formation:	A3	A1					
	5,152'	5,154'	3	0.34	3/14/2013	20/40 White:	37,155 lbs	15% HCl:	504 gals				
	5,158'	5,160'	3	0.34	3/14/2013	Pad:	2,197 gals	Treating Fluid:	8,871 gals				
						Flush:	5,195 gals	Load to Recover:	16,767 gals				
						ISIP=	0.857 psi/ft	Max STP:	3,273 psi				
1	5,648'	5,649'	3	0.34	3/14/2013	Formation:	CP5	CP2					
	5,656'	5,658'	3	0.34	3/14/2013	20/40 White:	53,233 lbs	15% HCl:	756 gals				
	5,664'	5,665'	3	0.34	3/14/2013	Pad:	8,165 gals	Treating Fluid:	11,671 gals				
	5,894'	5,896'	3	0.34	3/14/2013	Flush:	5,624 gals	Load to Recover:	25,964 gals				
						ISIP=	0.745 psi/ft	Max STP:	3,464 psi				
CEMENT	Surf	On 2/7/13 BJ cemented 8 5/8" casing w/ 175 sks Class "G" + 2% KCl + 0.25#/sk Cello Flake at 15.8 ppg w/ 1.17 yield and returned 1 bbls to the pit.											
	Prod	On 2/25/13 Halliburton pumped 260 sks lead @ 11 ppg w/ 2.7 yield plus 460 sks tail @ 14.4 ppg w/ 1.21 yield. Returned 47 bbls to the pit. TOC @ 424'.											



EOT @ 5966'; TA @ 5868'  
 5-1/2" Shoe @ 6228'  
 PBTD @ 6180'  
 TVD @ 6050'  
 BHST = 190°F

MD @ 6235

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

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

Wellbore Diagram

### SURFACE CASING

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

### PRODUCTION CASING

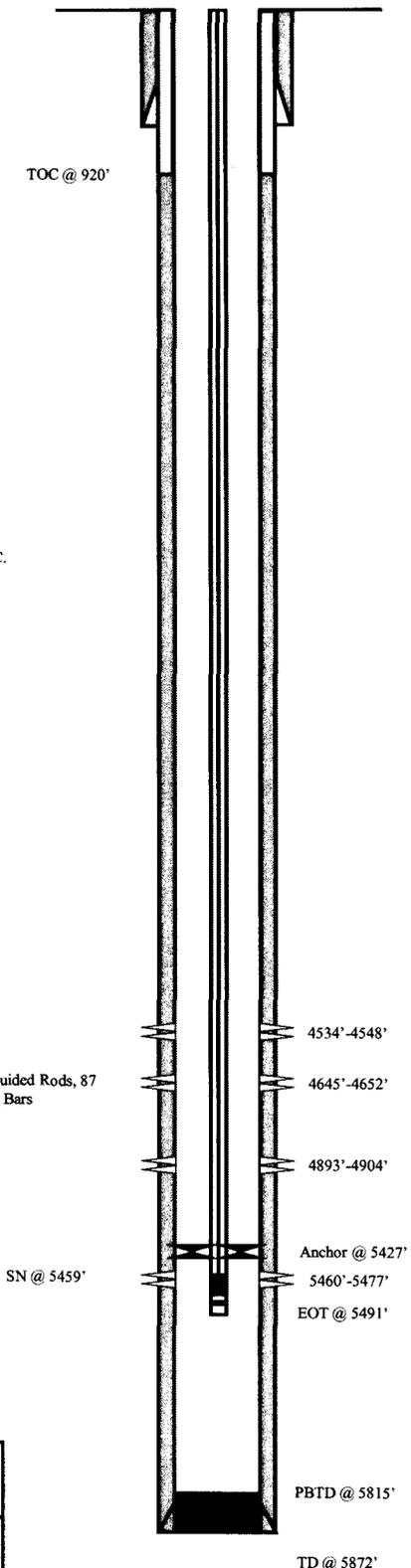
CSG SIZE: 5-1/2"  
 GRADE: K-55  
 WEIGHT: 15.5#  
 LENGTH: 138 jts. (5870.46')  
 DEPTH LANDED: 5867'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 325 sxs Dowell HiLift & 475 sxs 10-0 PFC.  
 CEMENT TOP: 920' per CBL 7/17/82

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

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

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

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



### FRAC JOB

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

### PERFORATION RECORD

Depth Range	Tool Joint	Holes
4534'-4548'	2 JSPF	28 holes
4645'-4652'	2 JSPF	14 holes
4893'-4904'	2 JSPF	22 holes
5460'-5477'	2 JSPF	34 holes

**NEWFIELD**

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

## JONAH P-14-9-16

Spud Date: 10/19/2010

PWOP: 12/14/2010

GL: 5707' KB: 5719'

### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 8 jts. (336.56')  
 DEPTH LANDED: 346.41' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 180 sxs Class "G" cmt

#### PRODUCTION CASING

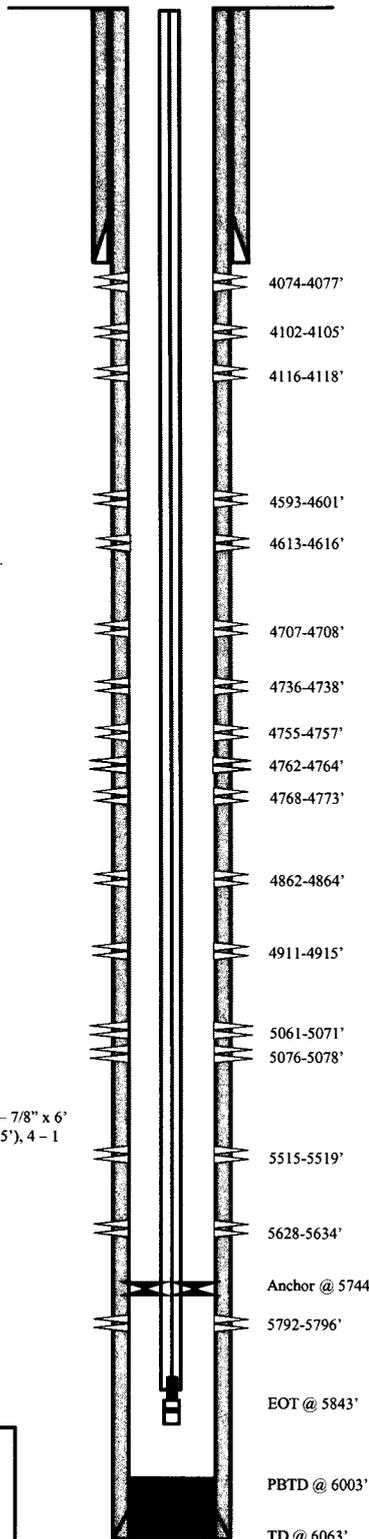
CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 143 jts. (6034.18')  
 HOLE SIZE: 7-7/8"  
 DEPTH LANDED: 6047.43' KB  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 430 sxs 50/50 POZ.  
 CEMENT TOP AT: 50'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 187 jts. (5744.2')  
 TUBING ANCHOR: 5744.2' KB  
 NO. OF JOINTS: 1 jt. (31.5')  
 SEATING NIPPLE: 2-7/8" (1.1')  
 SN LANDED AT: 5778.4' KB  
 NO. OF JOINTS: 2 jts. (62.8')  
 NOTCHED COLLAR: 5842.3' KB  
 TOTAL STRING LENGTH: EOT @ 5843'

#### SUCKER RODS

POLISHED ROD: 1-1/2" x 30' Spray Metal Polished Rod  
 SUCKER RODS: 1 - 7/8" x 2' Pony Rod, 1 - 7/8" x 4' Pony Rod, 1 - 7/8" x 6' Pony Rod, 1 - 7/8" x 8' Pony Rod, 225 - 7/8" 8per Guided Rods (5625'), 4 - 1 1/2" Sinker Bars (100')  
 PUMP SIZE: 2 1/2" x 1 1/4" x 21' x 24' RHAC  
 STROKE LENGTH: 144"  
 PUMP SPEED: 5 SPM



#### FRAC JOB

11/30/2010	5515-5796'	<b>Frac CP1, CP3 &amp; CP5, sands as follows:</b> Frac with 20407# 20/40 brown sand in 328 bbls lightning 17 fluid; 501 bbls total fluid to recover.
12/08/2010	5061-5078'	<b>Frac A1, sands as follows:</b> Frac with 35843# 20/40 brown sand in 242 bbls lightning 17 fluid; 382 bbls total fluid to recover.
12/08/2010	4862-4915'	<b>Frac B1 &amp; B2, sands as follows:</b> Frac with 20423# 20/40 brown sand in 176 bbls lightning 17 fluid; 308 bbls total fluid to recover.
12/08/2010	4707-4773'	<b>Frac C &amp; D3, sands as follows:</b> Frac with 65441# 20/40 brown sand in 406 bbls lightning 17 fluid; 531 bbls total fluid to recover.
12/08/2010	4593-4616'	<b>Frac D1, sands as follows:</b> Frac with 40177# 20/40 brown sand in 269 bbls lightning 17 fluid; 391 bbls total fluid to recover.
12/08/2010	4074-4118'	<b>Frac GB4 &amp; GB6, sands as follows:</b> Frac with 32391# 20/40 brown sand in 226 bbls lightning 17 fluid; 338 bbls total fluid to recover.

#### PERFORATION RECORD

5792-5796'	3 JSPF	12 holes
5628-5634'	3 JSPF	18 holes
5515-5519'	3 JSPF	12 holes
5076-5078'	3 JSPF	6 holes
5061-5071'	3 JSPF	30 holes
4911-4915'	3 JSPF	12 holes
4862-4864'	3 JSPF	6 holes
4768-4773'	3 JSPF	15 holes
4762-4764'	3 JSPF	6 holes
4755-4757'	3 JSPF	6 holes
4736-4738'	3 JSPF	6 holes
4707-4708'	3 JSPF	3 holes
4613-4616'	3 JSPF	9 holes
4593-4601'	3 JSPF	24 holes
4116-4118'	3 JSPF	6 holes
4102-4105'	3 JSPF	9 holes
4074-4077'	3 JSPF	9 holes

**NEWFIELD**



**Jonah P-14-9-16**  
 513' FSL & 510' FEL (SE/SE)  
 Section 15, T9S, R16E  
 Duchesne County, Utah

API #43-013-34124; Lease # UTU-017985

## Jonah 15-15-9-16

Spud Date: 01/07/06  
 Put on Production: 02/07/06  
 GL: 5758' KB: 5770'

Initial Production: BOPD,  
 MCFD, BWPD

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (311.55')  
 DEPTH LANDED: 323.40' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 3 bbls cmt to surf.

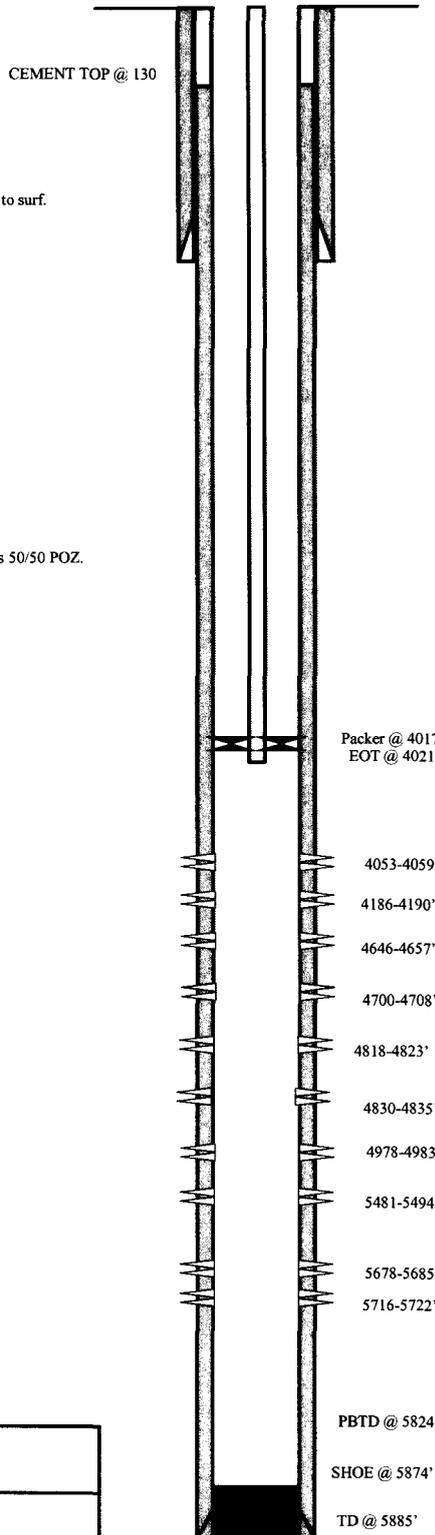
### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 139 jts. (5874.99')  
 DEPTH LANDED: 5874.24' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 350 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
 CEMENT TOP @ 130

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55  
 NO. OF JOINTS: 123 jts (4000.93')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4014.03'  
 TOTAL STRING LENGTH: EOT @ 4021.42'

### Injection Wellbore Diagram



### FRAC JOB

01/31/06	5678-5722'	<b>Frac CP4, CP5 sands as follows:</b> 30113# 20/40 sand in 388 bbls Lightning 17 frac fluid. Treated @ avg press of 1859 psi w/avg rate of 25.3 BPM. ISIP 2050 psi. Calc flush: 5676 gal. Actual flush: 5141 gal.
01/31/06	5481-5494'	<b>Frac CP2 sands as follows:</b> 50320# 20/40 sand in 436 bbls Lightning 17 frac fluid. Treated @ avg press of 1616 psi w/avg rate of 25.2 BPM. ISIP 1900 psi. Calc flush: 5479 gal. Actual flush: 4872 gal.
01/31/06	4978-4983'	<b>Frac A3 sands as follows:</b> 19771# 20/40 sand in 295 bbls Lightning 17 frac fluid. Treated @ avg press of 2420 psi w/avg rate of 25.3 BPM. ISIP 2150 psi. Calc flush: 4976 gal. Actual flush: 4452 gal.
01/31/06	4818-4835'	<b>Frac B2 sands as follows:</b> 25033# 20/40 sand in 331 bbls Lightning 17 frac fluid. Treated @ avg press of 1958 psi w/avg rate of 25 BPM. ISIP 1850 psi. Calc flush: 4816 gal. Actual flush: 4284 gal.
01/31/06	4646-4657'	<b>Frac D3, C, sands as follows:</b> 98438# 20/40 sand in 701 bbls Lightning 17 frac fluid. Treated @ avg press of 2161 psi w/avg rate of 25.1 BPM. ISIP 2300 psi. Calc flush: 4644 gal. Actual flush: 4074 gal.
02/01/06	4186-4190'	<b>Frac PB7 sands as follows:</b> 19753# 20/40 sand in 267 bbls Lightning 17 frac fluid. Treated @ avg press of 2643 psi w/avg rate of 24.8 BPM. ISIP 2650 psi. Calc flush: 4184 gal. Actual flush: 3654 gal.
02/01/06	4053-4059'	<b>Frac GB6 sands as follows:</b> 17961# 20/40 sand in 262 bbls Lightning 17 frac fluid. Treated @ avg press of 2240 psi w/avg rate of 25 BPM. ISIP 1900 psi. Calc flush: 4051 gal. Actual flush: 3948 gal.
04/13/07	7/30/07	<b>Pump Change</b> Update Rod & Tubing Pump change. Updated rod & tubing detail.
05-21-08		<b>Workover.</b> Updated rod and tubing detail
10/16/08		<b>Well converted to an Injection well.</b>
10/28/08		<b>MIT completed and submitted.</b>

### PERFORATION RECORD

01/27/06	5716-5722'	4 JSPF	24 holes
01/27/06	5678-5685'	4 JSPF	28 holes
01/31/06	5481-5494'	4 JSPF	52 holes
01/31/06	4978-4983'	4 JSPF	20 holes
01/31/06	4830-4835'	4 JSPF	20 holes
01/31/06	4818-4828'	4 JSPF	20 holes
01/31/06	4700-4708'	4 JSPF	32 holes
01/31/06	4646-4657'	4 JSPF	44 holes
01/31/06	4186-4190'	4 JSPF	16 holes
02/01/06	4053-4059'	4 JSPF	24 holes

**NEWFIELD**

**Jonah 15-15-9-16**

421' FSL & 1864' FEL

SW/SE Section 15-T9S-R16E

Duchesne Co, Utah

API #43-013-32753; Lease #UTU-17985

## Jonah Federal 9-15-9-16

Spud Date: 6-1-05  
 Put on Production: 7-7-05  
 GL: 5698' KB: 5710'

Initial Production: 77 BOPD,  
 11 MCFD, 59 BWPD

Injection Wellbore  
 Diagram

### SURFACE CASING

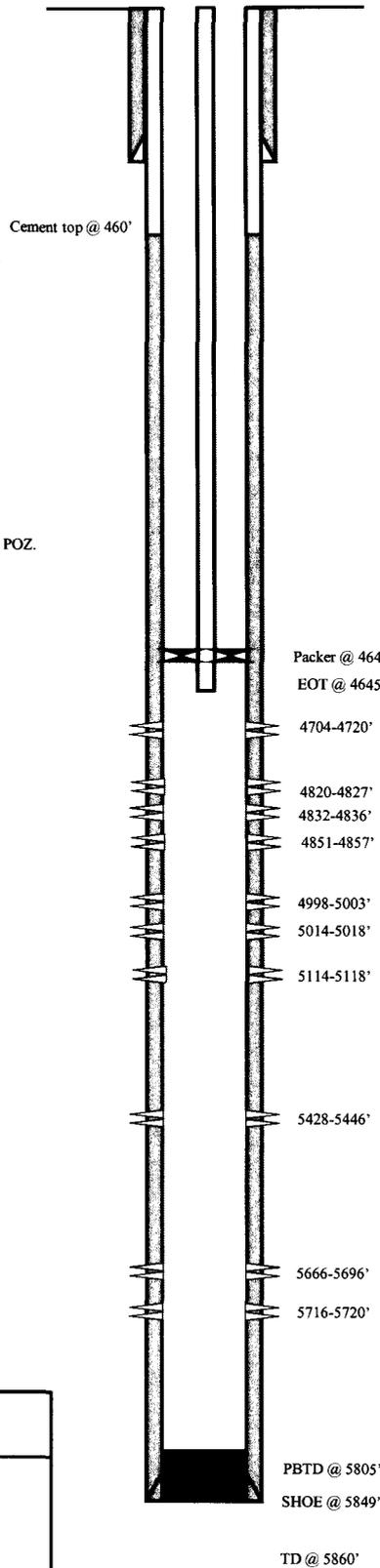
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jnts ( 302.72')  
 DEPTH LANDED: 314.57' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 138 jnts (5836.02')  
 DEPTH LANDED: 5849.27' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP AT: 460'

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 148 jnts (4436.14')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4636.14' KB  
 TOTAL STRING LENGTH: EOT @ 4644.69' KB



### FRAC JOB

6-30-05	5666-5696'	<b>Frac CP5 &amp; CP4 sands as follows:</b> 70165# 20/40 sand in 559 bbls Lightning 17 frac fluid. Treated @ avg press of 1230 psi w/avg rate of 24.5 BPM. ISIP 1800 psi. Calc flush: 5664 gal. Actual flush: 5670 gal.
6-30-05	5428-5446'	<b>Frac CP1 sands as follows:</b> 57169# 20/40 sand in 486 bbls Lightning 17 frac fluid. Treated @ avg press of 1346 psi w/avg rate of 24.5 BPM. ISIP 1900 psi. Calc flush: 5426 gal. Actual flush: 5418 gal.
7-1-05	4998-5118'	<b>Frac LODC, A1, A3 sands as follows:</b> 34026# 20/40 sand in 343 bbls Lightning 17 frac fluid. Treated @ avg press of 1820 psi w/avg rate of 24.5 BPM. ISIP 2500 psi. Calc flush: 5996 gal. Actual flush: 4738 gal.
7-1-05	4820-4857'	<b>Frac B2 sands as follows:</b> 49623# 20/40 sand in 426 bbls Lightning 17 frac fluid. Treated @ ave. pressure of 1590 24.5 BPM. ISIP 2000 psi. Calc flush: 4818 gal. Actual flush: 4578 gal.
7-1-05	4704-4720'	<b>Frac C sands as follows:</b> 88671# 20/40 sand in 632 bbls Lightning 17 frac fluid. 24.5 BPM. Treated @ ave. pressure of 1714 ISIP 2000 psi. Calc flush: 4402 gal. Actual flush: 4607 gal.
11/14/06		<b>Well converted to an injection well</b>
11/21/06		<b>MIT completed and submitted.</b>

### PERFORATION RECORD

6-24-05	5666-5696'	4 JSPF	120 holes
6-24-05	5716-5720'	4 JSPF	16 holes
6-30-05	5428-5446'	4 JSPF	72 holes
6-30-05	5114-5118'	4 JSPF	16 holes
6-30-05	5014-5018'	4 JSPF	16 holes
6-30-05	4998-5003'	4 JSPF	20 holes
7-1-05	4851-4857'	4 JSPF	24 holes
7-1-05	4832-4836'	4 JSPF	16 holes
7-1-05	4820-4827'	4 JSPF	28 holes
7-1-05	4704-4720'	4 JSPF	64 holes

**NEWFIELD**

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**Jonah Federal 9-15-9-16**

1724' FSL & 782' FEL  
 NE/SE Section 15-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-32683; Lease #UTU-017985

43-013-51678

## NEWFIELD

GMBU Y-14-9-16

Monument Butte - Duchesne County; Utah, USA

Surface Legal Location: NE/NE Section 22, T9S, R16E; 922' FNL & 944' FEL

Elevation: 5746' GL + 10' KB

API Number: 43-013-51678; Lease Number: UTU-74392

Paul Lembcke

PFM 1/21/14

Spud Date: 5/6/13

PoP Date: 6/10/2013

Casing Detail	Casing	Top	Bottom	Size	Wt.	Grade	Drift	Burst	Collapse	ID	gal/ft	Coupling	Hole
	Surf	10'	339'	8-5/8"	24#	J-55	7.972"	2,950	1,370	8.097"	2.6749	STC	12.250
Prod	10'	6,206'	5-1/2"	15.5#	J-55	4.825"	4,810	4,040	4.950"	0.9997	LTC	7.875	

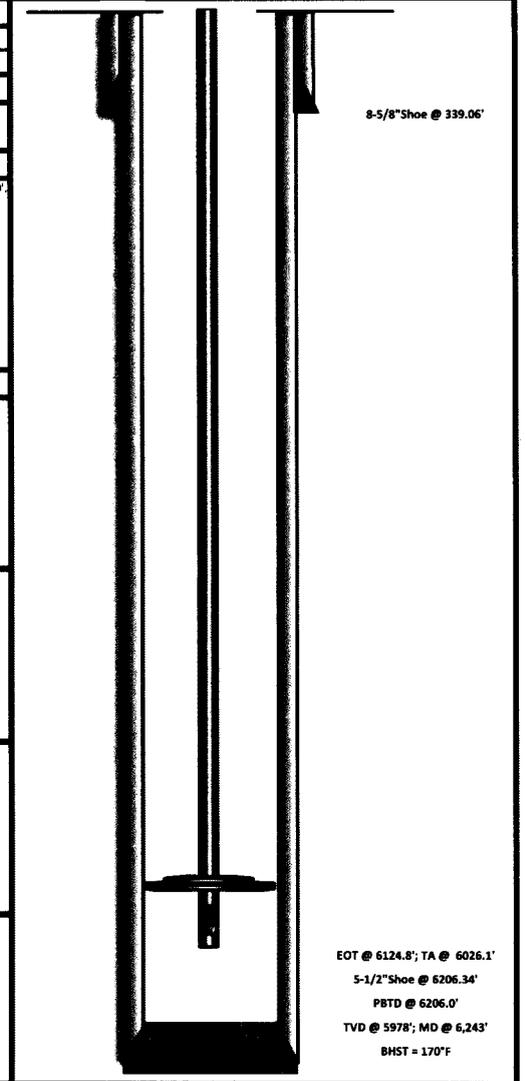
  

Tubing Detail	Top	Bottom	Coupling	Size	Wt.	Grade	Drift	Burst	Collapse	ID	Packer/Hanger	
	10'	6,125'	8EUE	2-7/8"	6.5#	J-55	2.347"	7,260	7,680	2.441"	Tubing Anchor Set @	6,026'

Rod Detail	Component	Top	Bottom	Size	Grade	Length	Count	Pump	
	Polish Rod	0'	30'	1 1/2"	C(API)	30	1	Insert Pump: 2.5" Max ID x 1.75" Plunger RHAC @ 6050'	
Pony Rod	30'	32'	7/8"	C(API)	2	1			
Pony Rod	32'	36'	7/8"	C(API)	4	1			
Pony Rod	36'	42'	7/8"	C(API)	6	1			
Pony Rod	42'	50'	7/8"	C(API)	8	1			
Super Guided Rod	50'	1,875'	7/8"	Tenaris D78	1825	73			
Super Guided Rod	1,875'	5,300'	3/4"	Tenaris D78	3425	137			
Super Guided Rod	5,300'	6,050'	7/8"	Tenaris D78	750	30			

Stage	Top	Bottom	SPF	EHD	Date	Frac Summary				
4	0'	0'	3	-	-	Formation:	GB6			
	0'	0'	3	-	-	20/40 White:	47,686 lbs	15% HCl:	0 gals	
	0'	0'	3	-	-	Pad:	4,145 gals	Treating Fluid:	9,501 gals	
	0'	0'	3	-	-	Flush:	4,360 gals	Load to Recover:	18,006 gals	
	0'	0'	3	-	-	ISIP=	1.108 psi/ft	Max STP:	3,117 psi	
	4,204'	4,210'	3	0.34	5/31/2013					
3	0'	0'	3	-	-	Formation:	D3 D1			
	0'	0'	3	-	-	20/40 White:	67,789 lbs	15% HCl:	504 gals	
	0'	0'	3	-	-	Pad:	2,600 gals	Treating Fluid:	15,487 gals	
	0'	0'	3	-	-	Flush:	4,805 gals	Load to Recover:	23,396 gals	
	4,744'	4,746'	3	0.34	5/31/2013	ISIP=	0.827 psi/ft	Max STP:	4,020 psi	
	4,839'	4,842'	3	0.34	5/31/2013					
4,844'	4,846'	3	0.34	5/31/2013						
2	0'	0'	3	-	-	Formation:	A3 A-Half B2			
	0'	0'	3	-	-	20/40 White:	104,572 lbs	15% HCl:	504 gals	
	0'	0'	3	-	-	Pad:	4,696 gals	Treating Fluid:	23,590 gals	
	5,043'	5,045'	3	0.34	5/31/2013	Flush:	4,998 gals	Load to Recover:	33,788 gals	
	5,109'	5,112'	3	0.34	5/31/2013	ISIP=	0.838 psi/ft	Max STP:	3,267 psi	
	5,227'	5,230'	3	0.34	5/31/2013					
5,238'	5,240'	3	0.34	5/31/2013						
1	0'	0'	3	-	-	Formation:	CP5			
	0'	0'	3	-	-	20/40 White:	86,195 lbs	15% HCl:	756 gals	
	0'	0'	3	-	-	Pad:	5,418 gals	Treating Fluid:	19,907 gals	
	0'	0'	3	-	-	Flush:	5,951 gals	Load to Recover:	32,032 gals	
	5,968'	5,970'	3	0.34	5/29/2013	ISIP=	0.909 psi/ft	Max STP:	3,665 psi	
	5,999'	6,000'	3	0.34	5/29/2013					
6,042'	6,046'	3	0.34	5/29/2013						



Cement	Surf	On 5/7/13 Baker Hughes cemented 8 5/8" casing w/ 160 sks Class "G" + 2% KCl + 0.25#/sk Cello Flake at 15.8 ppg w/ 1.17 yield and returned 4 bbls to the pit.
Prod	On 5/18/13 Baker pumped 265sks lead @ 11 ppg w/ 3.53 yield plus 475 sks tail @ 14.4 ppg w/ 1.24 yield. Returned 25 bbls to the pit. TOC @ 36'.	

EOT @ 6124.8'; TA @ 6026.1'  
 5-1/2" Shoe @ 6206.34'  
 PSTD @ 6206.0'  
 TVD @ 5978'; MD @ 6,243'  
 BHST = 170°F

43-013-51674

## NEWFIELD

### GMBU V-15-9-16

Monument Butte - Duchesne County; Utah, USA

Surface Legal Location: NE/NE Section 22, T9S, R16E; 907' FNL & 959' FEL

Elevation: 5746' GL + 10' KB

API Number: 43-013-51674; Lease Number: UTU-74392

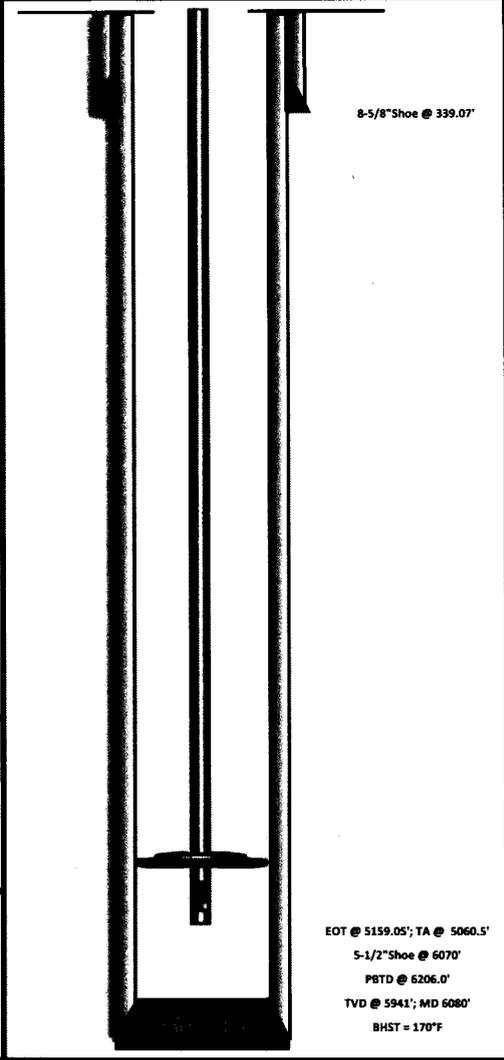
Paul Lembcke

PFM 1/22/2013

Spud Date: 5/3/13

Pop Date: 6/10/2013

Casing Detail	Casing	Top	Bottom	Size	Wt.	Grade	Drift	Burst	Collapse	ID	gal/ft	Coupling	Hole
	Surf	10'	339'	8-5/8"	24#	J-55	7.972"	2,950	1,370	8.097"	2.6749	STC	12.250
Prod	10'	6,070'	5-1/2"	15.5#	J-55	4.825"	4,810	4,040	4.950"	0.9997	LTC	7.875	
TBS Detail	Top	Bottom	Coupling	Size	Wt.	Grade	Drift	Burst	Collapse	ID	Packer/Hanger		
	10'	5,159'	8EUE	2-7/8"	6.5#	J-55	2.347"	7,260	7,680	2.441"	Tubing Anchor Set @ 5,061'		
ROD DETAIL	Component		Top	Bottom	Size	Grade	Length	Count	Pump				
	Polish Rod		0'	30'	1 1/2"	C(API)	30	1	Insert Pump: 2.5" Max ID x 1.75" Plunger RHAC @ 5096'				
	Pony Rod		30'	32'	7/8"	C(API)	2	1	#NF2417				
	Pony Rod		32'	38'	7/8"	C(API)	6	1					
	Pony Rod		38'	46'	7/8"	C(API)	8	1					
	Sper Guided Rod		46'	1,621'	7/8"	Tenaris D78	1575	63					
	Sper Guided Rod		1,621'	4,346'	3/4"	Tenaris D78	2725	109					
Sper Guided Rod		4,346'	5,096'	7/8"	Tenaris D78	750	30						
Stage	Top	Bottom	SPF	EHD	Date	Frac Summary							
4	0'	0'	3	-	-	Formation:	PB8	GB6					
	0'	0'	3	-	-	20/40 White:	43,695 lbs	15% HCl:	0 gals				
	0'	0'	3	-	-	Pad:	2,470 gals	Treating Fluid:	10,609 gals				
	0'	0'	3	-	-	Flush:	4,154 gals	Load to Recover:	17,233 gals				
	4,137'	4,138'	3	0.34	5/29/2013	ISIP=	0.850 psi/ft	Max STP:	2,911 psi				
	4,293'	4,295'	3	0.34	5/29/2013								
3	0'	0'	3	-	-	Formation:	C-Sand						
	0'	0'	3	-	-	20/40 White:	34,145 lbs	15% HCl:	504 gals				
	0'	0'	3	-	-	Pad:	2,701 gals	Treating Fluid:	8,481 gals				
	0'	0'	3	-	-	Flush:	4,788 gals	Load to Recover:	16,474 gals				
	0'	0'	3	-	-	ISIP=	0.878 psi/ft	Max STP:	3,263 psi				
	4,784'	4,786'	3	0.34	5/29/2013								
2	0'	0'	3	-	-	Formation:	B2						
	0'	0'	3	-	-	20/40 White:	74,723 lbs	15% HCl:	588 gals				
	0'	0'	3	-	-	Pad:	3,595 gals	Treating Fluid:	19,404 gals				
	0'	0'	3	-	-	Flush:	4,931 gals	Load to Recover:	28,518 gals				
	4,918'	4,920'	3	0.34	5/29/2013	ISIP=	0.840 psi/ft	Max STP:	3,678 psi				
	4,928'	4,930'	3	0.34	5/29/2013								
1	0'	0'	3	-	-	Formation:	A1						
	0'	0'	3	-	-	20/40 White:	24,330 lbs	15% HCl:	756 gals				
	0'	0'	3	-	-	Pad:	4,893 gals	Treating Fluid:	6,623 gals				
	0'	0'	3	-	-	Flush:	1,768 gals	Load to Recover:	14,040 gals				
	0'	0'	3	-	-	ISIP=	0.826 psi/ft	Max STP:	3,625 psi				
	5,074'	5,080'	3	0.34	5/29/2013								
CEMENT	Surf	On 5/7/13 Baker cemented 8 5/8" casing w/ 160 sks Class "G" + 2% KCl + 0.25#/sk Cello Flake at 15.8 ppg w/ 1.17 yield and returned 7 bbls to the pit.											
	Prod	On 5/12/13 Baker pumped 260 sks lead @ 11 ppg w/ 3.53 yield plus 475 sks tail @ 14.4 ppg w/ 1.24 yield. Returned 33 bbls to the pit. TOC @ 44'.											



43-013-51151

ATTACHMENT E-17

**NEWFIELD**



**GMBU S-15-9-16**

Monument Butte - Duchesne County, Utah, USA

Surf Location: NW/SE - Sec 15, T35, R16E; 2314' FSL & 1799' FEL

5747' GL + 10' KB

APW: 43-013-51151; Lease#: UTU-017955

Paul Lambchte

DLB 5/10/13

Spud Date: 2/6/13; PoP Date: 3/28/13

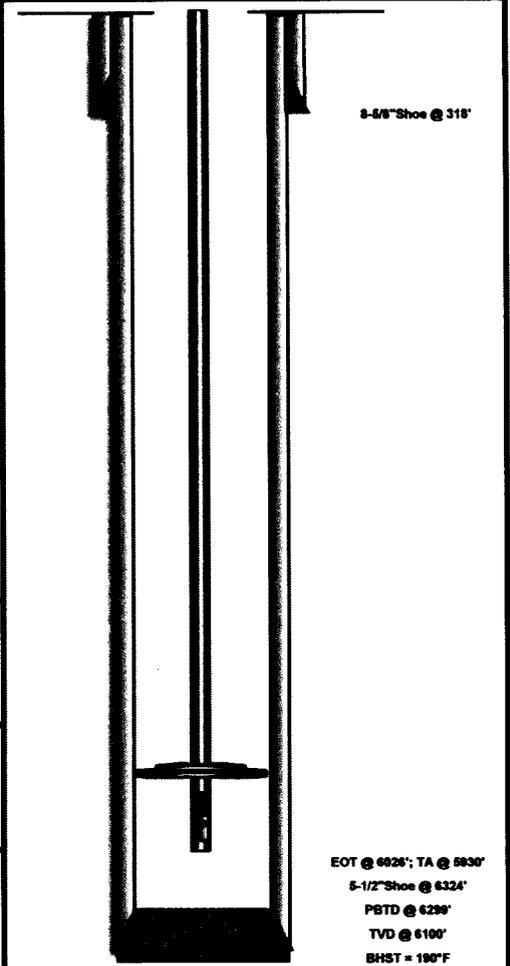
Casing Detail	Casing	Top	Bottom	Size	Wt	Grade	Drift	Burst	Collapse	ID	gal/ft	Coupling	Hole
	Surf	10'	318'	8.625	24#	J-55	7.972"	2,950	1,370	8.097"	2.6749	STC	12.250
Prod	10'	6,324'	5.500	15.5#	J-55	4.825"	4,810	4,040	4.950"	0.9997	LTC	7.875	

TBC Detail	Top	Bottom	Coupling	Size	Wt.	Grade	Drift	Burst	Collapse	ID	Packer/Hanger	
	10'	6,026'	8EUE	2-7/8"	6.5#	J-55	2.347"	7,260	7,680	2.441"	Tubing Anchor Set @ 5,930'	

ROD DETAIL	Component		Top	Bottom	Size	Grade	Length	Count	Pump		
	Pony Rod			2'	7/8"	Tenaris D78	2'	1	Insert Pump: 2.5 Max ID x 1.75 Plunger RHAC @ 5,950'		
Polish Rod			2'	32'	1 1/2"	4140	30'	1			
Pony Rod			32'	34'	7/8"	Tenaris D78	2'	1			
4per Guided Rod			34'	2,084'	7/8"	Tenaris D78	2,050'	82			
4per Guided Rod			2,084'	5,209'	3/4"	Tenaris D78	3,125'	125			
8per Guided Rod			5,209'	5,959'	7/8"	Tenaris D78	750'	30			



Stage	Top	Bottom	SPF	END	Date	Frac Summary						
5	4,748'	4,750'	3	0.34	3/13/2013	Formation:	C-Sand	D3	D1			
	4,845'	4,848'	3	0.34	3/13/2013	20/40 White:	89,895 lbs	18% HCl:	0 gals			
	4,905'	4,907'	3	0.34	3/13/2013	Pad:	529 gals	Treating Fluid:	21,357 gals			
	4,910'	4,912'	3	0.34	3/13/2013	Flush:	5,116 gals	Load to Recover:	27,002 gals			
						ISIP=	0.933 psi/ft	Max STP:	2,912 psi			
4	5,018'	5,019'	3	0.34	3/13/2013	Formation:	B2					
	5,024'	5,025'	3	0.34	3/13/2013	20/40 White:	70,961 lbs	18% HCl:	500 gals			
	5,036'	5,038'	3	0.34	3/13/2013	Pad:	1,361 gals	Treating Fluid:	17,071 gals			
	5,052'	5,054'	3	0.34	3/13/2013	Flush:	5,017 gals	Load to Recover:	23,949 gals			
						ISIP=	0.836 psi/ft	Max STP:	2,668 psi			
3	5,191'	5,192'	3	0.34	3/13/2013	Formation:	LODC	A1	A3			
	5,212'	5,214'	3	0.34	3/13/2013	20/40 White:	50,038 lbs	18% HCl:	500 gals			
	5,324'	5,328'	3	0.34	3/13/2013	Pad:	722 gals	Treating Fluid:	12,697 gals			
						Flush:	5,200 gals	Load to Recover:	10,110 gals			
2	5,638'	5,640'	3	0.34	3/13/2013	Formation:	CP1	CP-Half				
	5,678'	5,681'	3	0.34	3/13/2013	20/40 White:	25,722 lbs	18% HCl:	500 gals			
						Pad:	1,092 gals	Treating Fluid:	7,735 gals			
						Flush:	5,699 gals	Load to Recover:	15,027 gals			
						ISIP=	0.751 psi/ft	Max STP:	3,481 psi			
1	5,926'	5,928'	3	0.34	3/12/2013	Formation:	CP5	CP4				
	5,946'	5,948'	3	0.34	3/12/2013	20/40 White:	88,554 lbs	18% HCl:	1,890 gals			
	5,950'	5,952'	3	0.34	3/12/2013	Pad:	5,393 gals	Treating Fluid:	23,704 gals			
						Flush:	12,020 gals	Load to Recover:	41,617 gals			
					ISIP=	0.719 psi/ft	Max STP:	3,540 psi				

EOT @ 6026'; TA @ 5930'  
 5-1/2" Shoe @ 6324'  
 PBTD @ 6299'  
 TVD @ 6100'  
 BHST = 190°F

CEMENT	Surf	On 2/7/13 Pro Petro cemented 8 5/8" casing w/ 175 sks Class "G" + 2% KCl + 0.25#/sk Cello Flake at 15.8 ppg w/ 1.17 yield and returned 8 bbls to the pit.
	Prod	On 2/21/13 Halliburton pumped 260 sks lead @ 11 ppg w/ 2.71 yield plus 465 sks tail @ 14.4 ppg w/ 1.21 yield. Returned 42 bbls to the pit. TOC @ 584'.

MD @ 6332'

**NEWFIELD**

**Schematic**

43-013-51676

**Well Name: GMBU X-14-9-16**

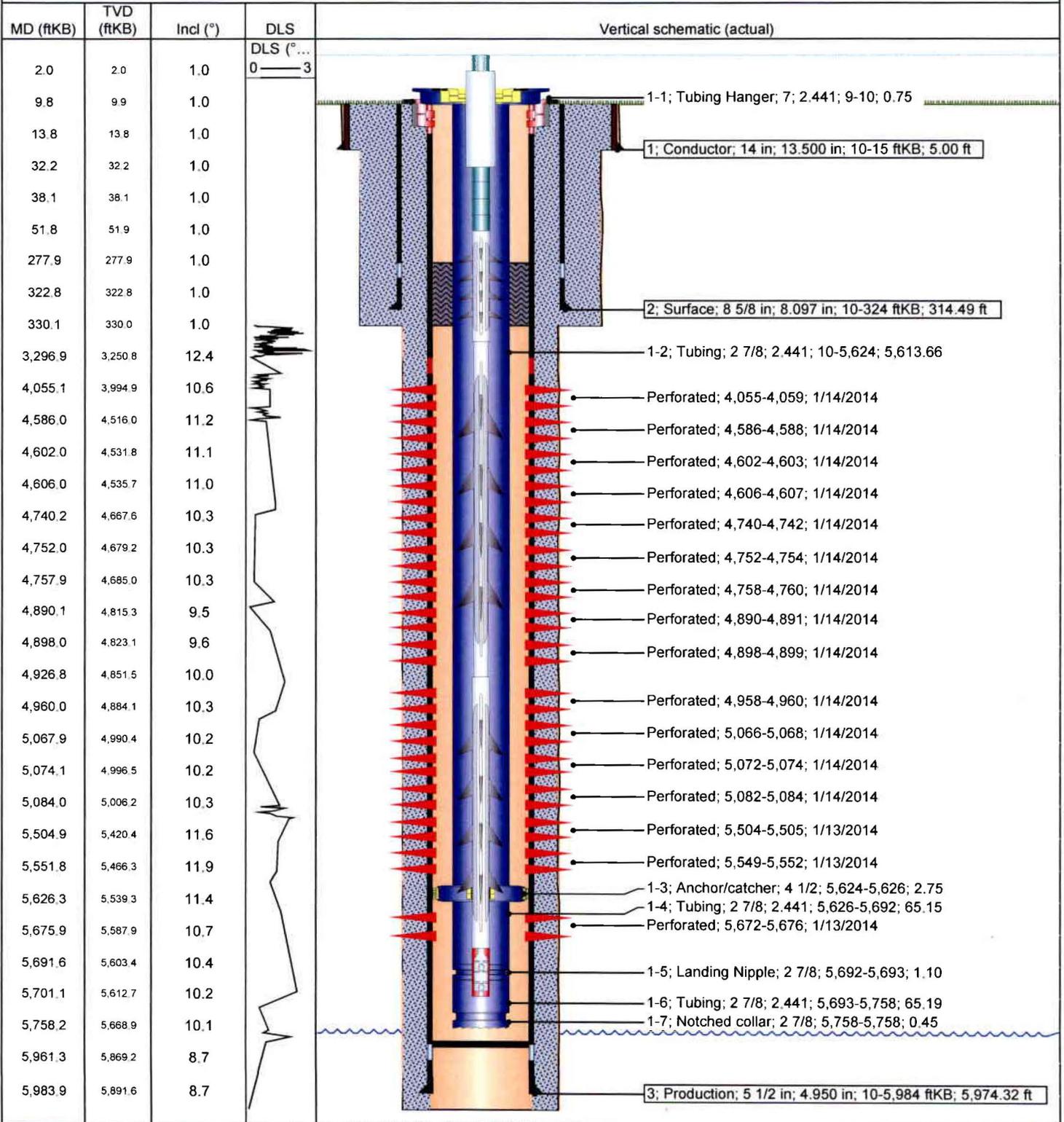
Surface Legal Location NWNW 518 FNL 707 FWL Sec 23 T9S R16E Mer SLB				API/UWI 43013516760000	Well RC 500346788	Lease UTU15855	State/Province Utah	Field Name GMBU CTB5	County Duchesne
Spud Date 12/13/2013	Rig Release Date 12/28/2013	On Production Date 1/24/2014	Original KB Elevation (ft) 5,728	Ground Elevation (ft) 5,718	Total Depth All (TVD) (ftKB) Original Hole - 5,901.5	PBTD (All) (ftKB) Original Hole - 5,959.6			

**Most Recent Job**

Job Category Initial Completion	Primary Job Type Fracture Treatment	Secondary Job Type P&P	Job Start Date 1/13/2014	Job End Date 1/24/2014
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**TD: 5,994.0**

Slant - Original Hole, 4/7/2014 11:33:43 AM



NEWFIELD

Schematic

43-013-51681

Well Name: GMBU G-23-9-16

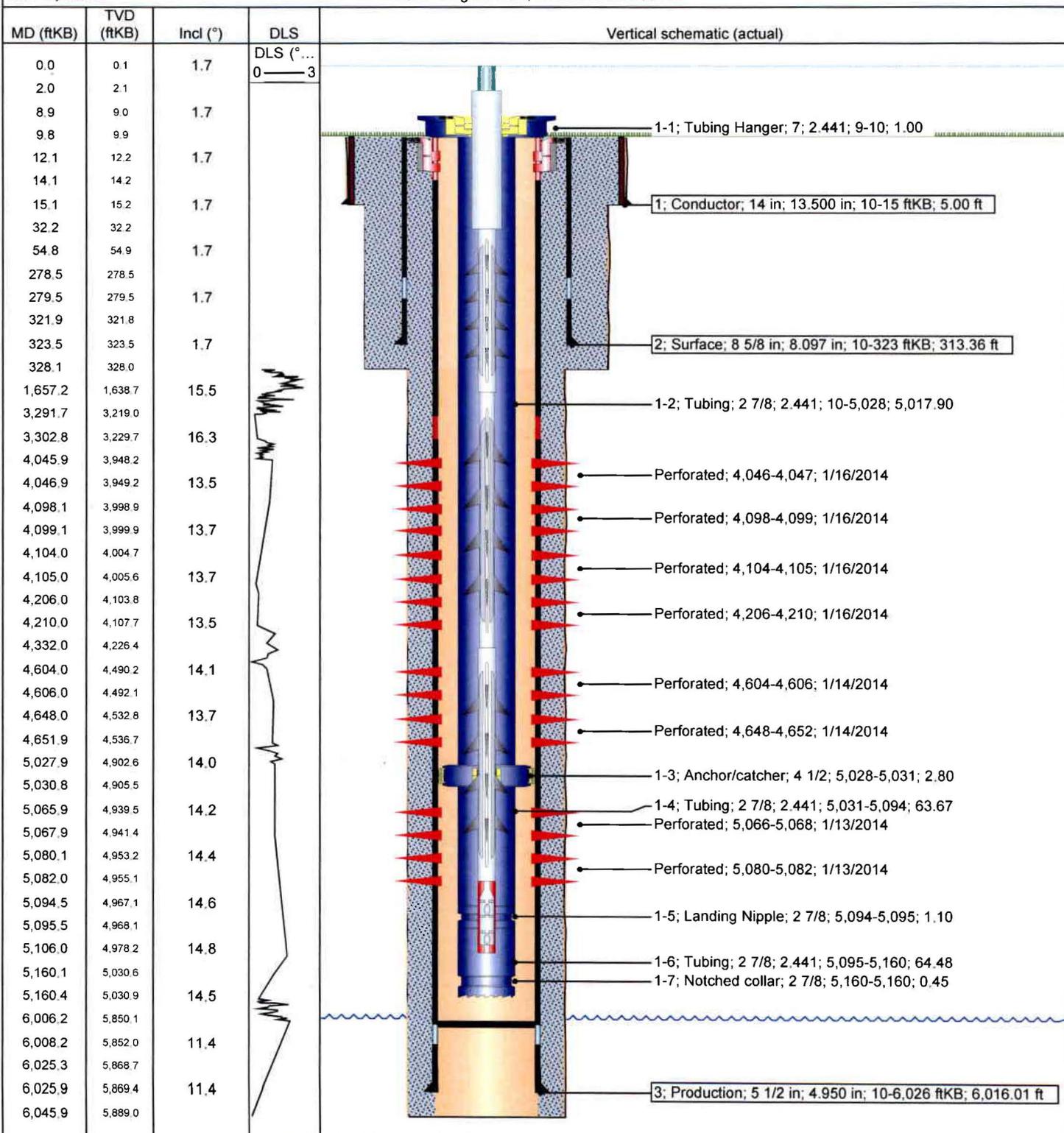
Surface Legal Location NWNW 527 FNL 726 FWL Sec 23 T9S R16E Mer SLB				API/UWI 43013516810000	Well RC 500334455	Lease UTU15855	State/Province Utah	Field Name GMBU CTB5	County Duchesne
Spud Date 12/14/2013	Rig Release Date 12/31/2013	On Production Date 1/24/2014	Original KB Elevation (ft) 5,728	Ground Elevation (ft) 5,718	Total Depth All (TVD) (ftKB) Original Hole - 5,889.0	PBD (All) (ftKB) Original Hole - 6,006.3			

Most Recent Job

Job Category Initial Completion	Primary Job Type Fracture Treatment	Secondary Job Type P&P	Job Start Date 1/13/2014	Job End Date 1/21/2014
------------------------------------	--	---------------------------	-----------------------------	---------------------------

TD: 6,046.0

Slant - Original Hole, 3/21/2014 8:00:53 AM



Units of Measurement: **Standard**

Water Analysis Report

Production Company: **NEWFIELD PRODUCTION**  
Well Name: **FEDERAL 2-22-9-16**  
Sample Point:  
Sample Date: **1/24/2014**  
Sample ID: **WA-264549**

Sales Rep: **Pete Prodromides**  
Lab Tech: **Gary Winegar**

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:	1/24/2014	Sodium (Na):	5127.00	Chloride (Cl):	10000.00
System Temperature 1 (°F):	120	Potassium (K):	26.00	Sulfate (SO4):	67.00
System Pressure 1 (psig):	60	Magnesium (Mg):	5.50	Bicarbonate (HCO3):	4026.00
System Temperature 2 (°F):	210	Calcium (Ca):	9.80	Carbonate (CO3):	
System Pressure 2 (psig):	60	Strontium (Sr):	5.00	Acetic Acid (CH3COO)	
Calculated Density (g/ml):	1.010	Barium (Ba):	7.80	Propionic Acid (C2H5COO)	
pH:	9.00	Iron (Fe):	0.71	Butanoic Acid (C3H7COO)	
Calculated TDS (mg/L):	19274.88	Zinc (Zn):	0.03	Isobutyric Acid ((CH3)2CHCOO)	
CO2 in Gas (%):		Lead (Pb):	0.03	Fluoride (F):	
Dissolved CO2 (mg/L):	0.00	Ammonia NH3:		Bromine (Br):	
H2S in Gas (%):		Manganese (Mn):	0.01	Silica (SiO2):	
H2S in Water (mg/L):	5.00				

Notes:  
AI=1.18                      B=2                      LI=1.4

(PTB = Pounds per Thousand Barrels)

Temp (°F)	PSI	Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO4·2H2O		Celestite SrSO4		Halite NaCl		Zinc Sulfide	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
210.00	60.00	2.06	8.50	0.51	3.13	2.94	0.39	2.97	0.52	0.00	0.00	0.00	0.00	0.00	0.00	8.23	0.01
200.00	60.00	2.01	8.49	0.53	3.19	2.93	0.39	2.92	0.52	0.00	0.00	0.00	0.00	0.00	0.00	8.32	0.01
190.00	60.00	1.97	8.48	0.55	3.25	2.93	0.39	2.88	0.52	0.00	0.00	0.00	0.00	0.00	0.00	8.41	0.01
180.00	60.00	1.92	8.47	0.57	3.33	2.93	0.39	2.83	0.52	0.00	0.00	0.00	0.00	0.00	0.00	8.51	0.01
170.00	60.00	1.88	8.46	0.60	3.41	2.93	0.39	2.78	0.52	0.00	0.00	0.00	0.00	0.00	0.00	8.61	0.01
160.00	60.00	1.84	8.45	0.64	3.51	2.94	0.39	2.73	0.52	0.00	0.00	0.00	0.00	0.00	0.00	8.73	0.01
150.00	60.00	1.80	8.44	0.68	3.60	2.96	0.39	2.68	0.52	0.00	0.00	0.00	0.00	0.00	0.00	8.85	0.01
140.00	60.00	1.76	8.43	0.72	3.70	2.98	0.39	2.63	0.52	0.00	0.00	0.00	0.00	0.00	0.00	8.98	0.01
130.00	60.00	1.73	8.42	0.77	3.80	3.01	0.39	2.58	0.52	0.00	0.00	0.00	0.00	0.00	0.00	9.12	0.01
120.00	60.00	1.70	8.40	0.83	3.90	3.05	0.39	2.53	0.52	0.00	0.00	0.00	0.00	0.00	0.00	9.27	0.01

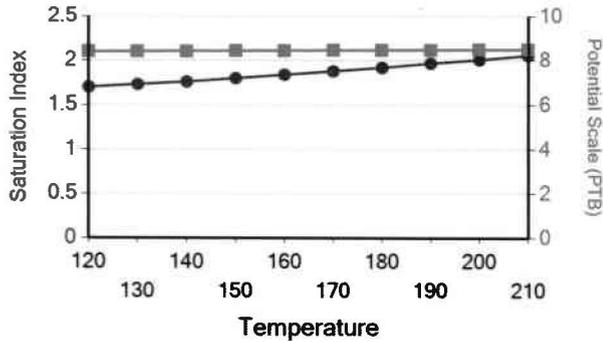
Water Analysis Report

Temp (°F)	PSI	Hemihydrate CaSO4·0.5H2O		Anhydrate CaSO4		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
210.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.02	9.29	0.01	0.00	0.00	0.00	0.00	0.00	0.00
200.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.44	0.02	9.45	0.01	0.00	0.00	0.00	0.00	0.00	0.00
190.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.36	0.02	9.61	0.01	0.00	0.00	0.00	0.00	0.00	0.00
180.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.28	0.02	9.79	0.01	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	1.19	0.02	9.97	0.01	0.00	0.00	0.00	0.00	0.00	0.00
160.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.10	0.02	10.17	0.01	0.00	0.00	0.00	0.00	0.00	0.00
150.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	10.37	0.01	0.00	0.00	0.00	0.00	0.00	0.00
140.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.02	10.60	0.01	0.00	0.00	0.00	0.00	0.00	0.00
130.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.78	0.02	10.83	0.01	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	0.67	0.02	11.08	0.01	0.00	0.00	0.00	0.00	0.00	0.00

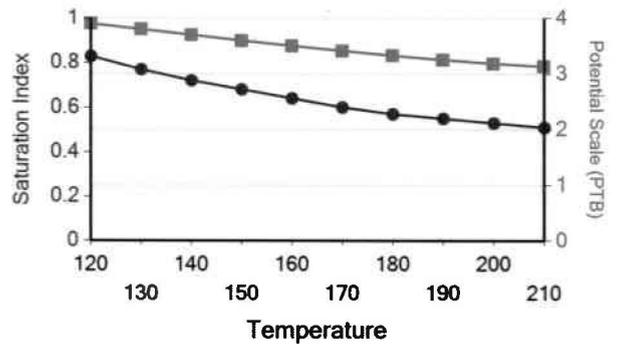
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide

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

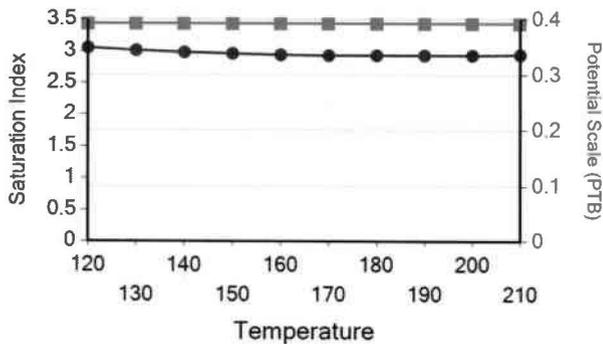
Calcium Carbonate



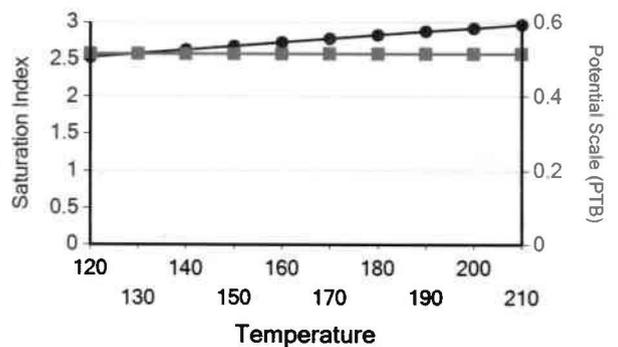
Barium Sulfate



Iron Sulfide

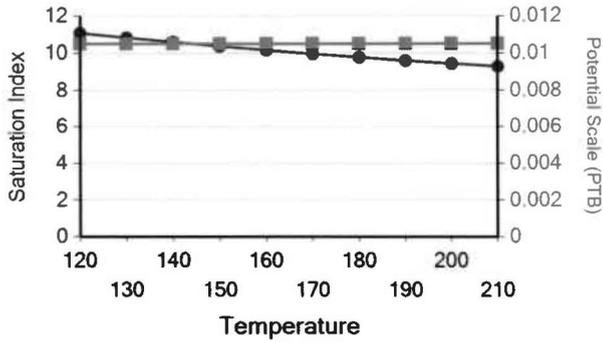


Iron Carbonate

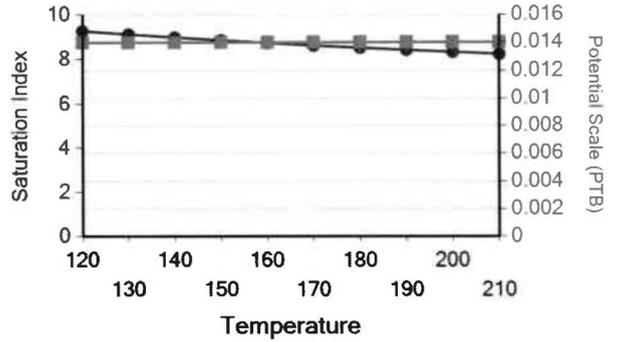


Water Analysis Report

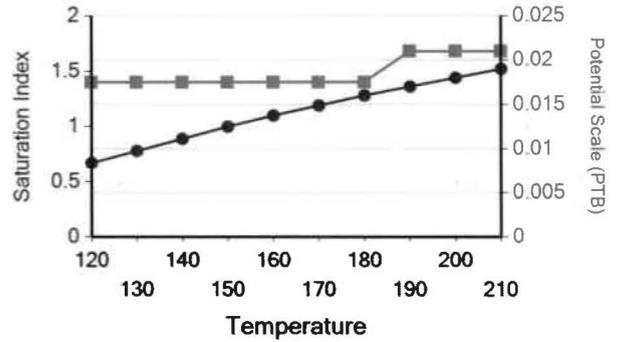
Lead Sulfide



Zinc Sulfide



Zinc Carbonate



# ATTACHMENT F

4 of 5

Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078

multi-chem®

A HALLIBURTON SERVICE

Units of Measurement: **Standard**

## Water Analysis Report

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

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

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

Sample Specifics		Analysis @ Properties in Sample Specifics			
		Cations		Anions	
		mg/L		mg/L	
Test Date:	11/28/2013	Sodium (Na):	141.00	Chloride (Cl):	1000.00
System Temperature 1 (°F):	120	Potassium (K):	39.00	Sulfate (SO <sub>4</sub> ):	41.00
System Pressure 1 (psig):	2000	Magnesium (Mg):	24.00	Bicarbonate (HCO <sub>3</sub> ):	1122.00
System Temperature 2 (°F):	210	Calcium (Ca):	41.00	Carbonate (CO <sub>3</sub> ):	
System Pressure 2 (psig):	2000	Strontium (Sr):	0.70	Acetic Acid (CH <sub>3</sub> COO)	
Calculated Density (g/ml):	0.999	Barium (Ba):	0.00	Propionic Acid (C <sub>2</sub> H <sub>5</sub> COO)	
pH:	6.50	Iron (Fe):	0.11	Butanoic Acid (C <sub>3</sub> H <sub>7</sub> COO)	
Calculated TDS (mg/L):	2413.76	Zinc (Zn):	0.03	Isobutyric Acid ((CH <sub>3</sub> ) <sub>2</sub> CHCOO)	
CO <sub>2</sub> in Gas (%):		Lead (Pb):	0.00	Fluoride (F):	
Dissolved CO <sub>2</sub> (mg/L):	24.00	Ammonia NH <sub>3</sub> :		Bromine (Br):	
H <sub>2</sub> S in Gas (%):		Manganese (Mn):	0.00	Silica (SiO <sub>2</sub> ):	4.92
H <sub>2</sub> S in Water (mg/L):	0.00				

**Notes:**

B=.4 AI=.18 LI=0

(PTB = Pounds per Thousand Barrels)

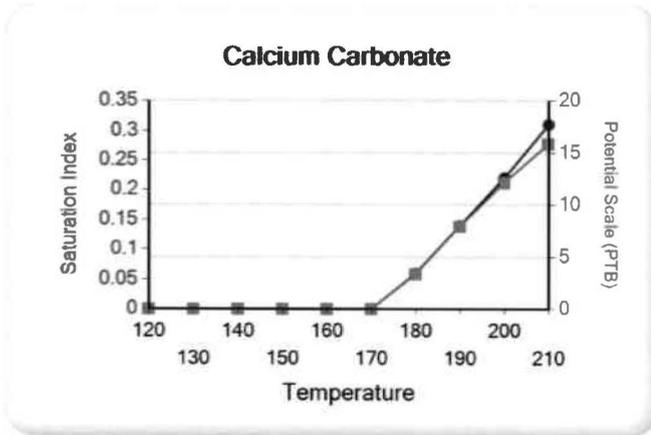
Temp (°F)	PSI	Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO <sub>4</sub> ·2H <sub>2</sub> O		Celestite SrSO <sub>4</sub>		Halite NaCl		Zinc Sulfide	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
210.00	2000.00	0.31	15.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	2000.00	0.22	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
190.00	2000.00	0.14	7.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.00	2000.00	0.06	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

## Water Analysis Report

Temp (°F)	PSI	Hemihydrate CaSO <sub>4</sub> ·0.5H <sub>2</sub> O		Anhydrate CaSO <sub>4</sub>		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
210.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
190.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

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



**Attachment "G"**

**Federal #2-22-9-16  
Proposed Maximum Injection Pressure**

Frac Interval (feet)		Avg. Depth (feet)	ISIP (psi)	Calculated Frac Gradient (psi/ft)	Pmax
Top	Bottom				
5755	5790	5773	1950	0.77	1913
4951	4960	4956	2525	0.94	2493
4695	4759	4727	3228	1.12	3198
4615	4622	4619	1928	0.85	1898
				<b>Minimum</b>	<u><u>1898</u></u> ←

Calculation of Maximum Surface Injection Pressure  
 $P_{max} = (\text{Frac Grad} - (0.433 * 1.015)) \times \text{Depth of Top Perf}$   
 where pressure gradient for the fresh water is .433 psi/ft and  
 specific gravity of the injected water is 1.015.

$\text{Frac Gradient} = (\text{ISIP} + (0.433 * \text{Top Perf.})) / \text{Top Perf.}$

**Please note:** These are existing perforations; additional perforations may be added during the actual conversion procedure.

**Daily Activity Report**

Format For Sundry

**FEDERAL 2-22-9-16****5/1/2007 To 9/30/2007****6/26/2007 Day: 1****Completion**

Rigless on 6/25/2007 - 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 @ 5850' & cement top @ 57'. Perforate stage #1, CP5 sds @ 5755-63' & 5778-90' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°) w/ 4 spf for total of 80 shots. 110 bbls EWTR. SIFN.

**6/28/2007 Day: 2****Completion**

Rigless on 6/27/2007 - Stage #1, CP5 sds RU BJ Services. 14 psi on well. Frac CP5 sds w/ 60,101#'s of 20/40 sand in 501 bbls of Lightning 17 fluid. Broke @ 1465 psi. Treated w/ ave pressure of 1583 psi @ ave rate of 24.7 BPM. Pumped 504 gals of 15% HCL in flush for Stage #2. ISIP 1950 psi. Leave pressure on well. 501 BWTR. Stage #2, A.5 sds RU Lone Wolf WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug, 9' perf gun. Set plug @ 5060'. Perforate A.5 sds @ 4951-60' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 36 shots. RU BJ Services. 1660 psi on well. Frac A.5 sds w/ 39,988#'s of 20/40 sand in 382 bbls of Lightning 17 fluid. Broke @ 4200 psi. Treated w/ ave pressure of 2087 psi @ ave rate of 24.7 BPM. Pumped 504 gals of 15% HCL in flush for Stage #3. ISIP 2525 psi. Leave pressure on well. 432 BWTR. Stage #3, D3 & C sds RU Lone Wolf WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug, 2- 8' perf gun. Set plug @ 4860'. Perforate C sds @ 4751-59' & D3 sds @ 4695-4703' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 64 shots. RU BJ Services. 1630 psi on well. Frac D3 & C sds w/ 57,108#'s of 20/40 sand in 466 bbls of Lightning 17 fluid. Broke @ 3939 psi. Treated w/ ave pressure of 2290 psi @ ave rate of 24.7 BPM. Pumped 504 gals of 15% HCL in flush for Stage #4. ISIP 3228 psi. Leave pressure on well. 466 BWTR. Stage #4, D1 sds RU Lone Wolf WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite solid frac plug, 7' perf gun. Set plug @ 4670'. Perforate D1 sds @ 4615-22' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 28 shots. RU BJ Services. 246 psi on well. Perfs would not break. RU Lone Wolf WL. Stacked out w/ bailer @ 4596'. Dump acid @ 4596'. RU BJ Services. 0 psi on well. Could not break down perfs. RD frac crew & wireline. SWIFN.

**6/29/2007 Day: 3****Completion**

NC #3 on 6/28/2007 - MIRUSU. RU rig floor. X- over to tbg eq. PU TIH w/ bar NC, & 149- jts 2 7/8. Tag fill @ 4600'. Clean out fill to Plg & 4670'. CWC. TOH w/ 151- jts 2 7/8 & bar NC. RD rig floor & wash head. SDFD @ 5:30.

**7/2/2007 Day: 4****Completion**

NC #3 on 7/1/2007 - RU BJ Services. 0 psi on well. Frac D1 sds w/ 9,646#'s of 20/40 sand in 210 bbls of Lightning 17 fluid. Broke @ 4005 psi. Treated w/ ave pressure of 2799 psi @ ave rate of 24.7 BPM. ISIP 1928 psi. Open well to pit for immediate flowback @ 1 bpm. Well flowed for 1 hr. Recovered 60 bbls total fluid. ND BOP & frac head. NU production head & BOP. RU rig floor. PU TIH w/ 4 3/4 chomp bit & 149- jts 2 7/8. Tag fill @ 4610'. RU 4-Star power swivel. Clean out fill & drill

out Plg @ 4670'. TIH w/ tbg to fill @ 4690'. Clean out fill & drill out Plg @ 4860'. TIH w/ tbg to fill @ 5050'. Clean out fill & drill out Plg @ 5060'. CWC. SDFD @ 5:00.

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**7/3/2007 Day: 5**

**Completion**

NC #3 on 7/2/2007 - PU TIH w/ tbg to fill @ 5783'. Clean out fill to PBTD @ 5848'. CWC. LD 3- jts 2 7/8. EOT @ 5753'. RU sandline to swab. IFL @ surface. Made 14 swab runs. Recovered 160 bbls water w/ no oil & no sand. FFL @ 2600'. RD sandline. PU TIH w/ 3- jts 2 7/8. Tag fill @ 5845'. Clean out fill to PBTD @ 5848'. CWC. LD 4- jts 2 7/8. TOH w/ 185- jts 2 7/8, & chomp bit. PU TIH w/ BP, 3- jts 2 7/8, 2 7/8 nipple, PBGA, 1- jt 2 7/8, SN, 1- jt 2 7/8, TA, 180- jts 2 7/8. RD rig floor. ND BOP. Set TA, w/ 15000 tension. NU wellhead. X- over to rod eq. Flush tbg w/ 60 bbls water. SDFD @ 6:00.

---

**7/5/2007 Day: 6**

**Completion**

NC #3 on 7/4/2007 - PU TIH w/ 2 1/2 x 1 1/2 x 10 x 14 RHAC, 6- 1 1/2 wt bars, 20- 3/4 guided rods, 98- 3/4 plain rods, 99- 3/4 guided rods, 8', 4', 2', x 3/4 pony rods, 1 1/2 x 22' polish rod. RU pumping unit. Fill tbg w/ 5 bbls water. Stroke test rod pump to 800 psi. Good test. RDMOSU @ 2:00. POP @ 2:00 W/ 86" SL 5 SPM  
**FINAL REPORT!!**

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**Pertinent Files: Go to File List**

## ATTACHMENT H

### WORK PROCEDURE FOR PLUGGING AND ABANDONMENT

1. Set CIBP @ 4565'
2. Plug #1 Set 100' plug on top of CIBP using 12 sx Class "G" cement
3. Plug #2 192' balance plug using 24 sx Class "G" cement 50' above Trona-Bird's Nest extending 50' below base of Mahogany Oil Shale
4. Plug #3 120' balance plug using 14 sx Class "G" cement 60' above Uinta/Green River and extending 60' below
5. Plug #4 Pump 43 sx Class "G" cement down 5 ½" casing to 365'

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

## FEDERAL 2-22-9-16

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

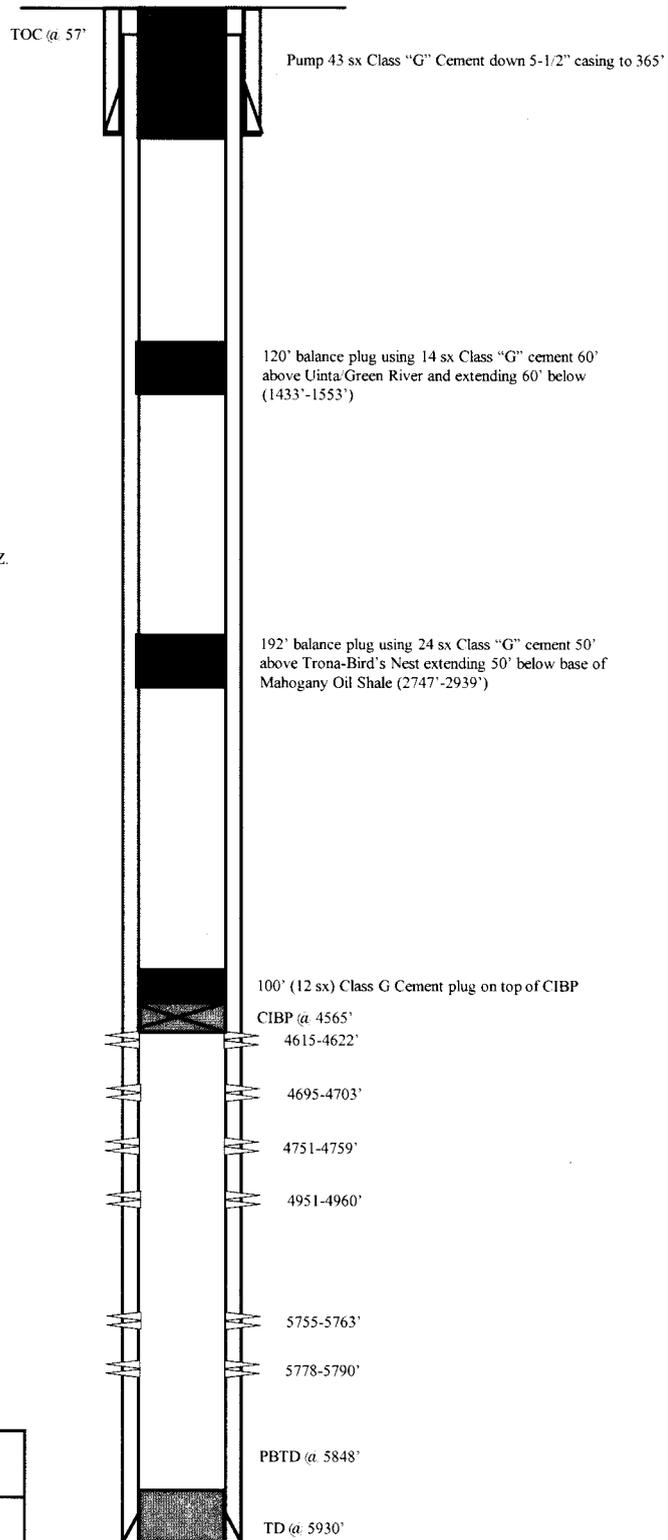
### Proposed P & A Wellbore Diagram

#### SURFACE CASING

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

#### PRODUCTION CASING

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




<b>FEDERAL 2-22-9-16</b> 645' FNL & 1878' FEL NW/NE Section 22-T9S-R16E Duchesne Co, Utah API #43-013-32958; Lease # UTU-64379