

NEWFIELD



November 22, 2005

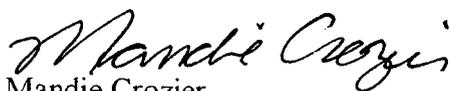
State of Utah  
Division of Oil, Gas & Mining  
Attn: Diana Whitney  
1594 West North Temple - Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

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,

  
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

5. Lease Serial No.  
UTU-15855

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

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

8. Lease Name and Well No.  
Federal 6-24-9-16

9. API Well No.  
43-013-32962

10. Field and Pool, or Exploratory  
Monument Butte

11. Sec., T., R., M., or Blk. and Survey or Area  
SE/NW Sec. 24, T9S R16E

12. County or Parish  
Duchesne

13. State  
UT

1a. Type of Work:  DRILL  REENTER

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

2. Name of Operator  
Newfield Production Company

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

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

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)  
At surface SE/NW 2093' FNL 2046' FWL 579429X 40.01793  
At proposed prod. zone 4429952Y -110.06927

14. Distance in miles and direction from nearest town or post office\*  
Approximatley 17.4 miles southwest of Myton, Utah

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 2093 f/lse, NA' f/unit

16. No. of Acres in lease  
1200.00

17. Spacing Unit dedicated to this well  
40 Acres

18. Distance from proposed location\* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1288'

19. Proposed Depth  
5740'

20. BLM/BIA Bond No. on file  
UT0056

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
5611' GL

22. Approximate date work will start\*  
1st Quarter 2006

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

24. Attachments

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

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

25. Signature *Mandie Crozier* Name (Printed/Typed) Mandie Crozier Date 11/22/05

Title Regulatory Specialist

Approved by (Signature) *Bradley G. Hill* 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.

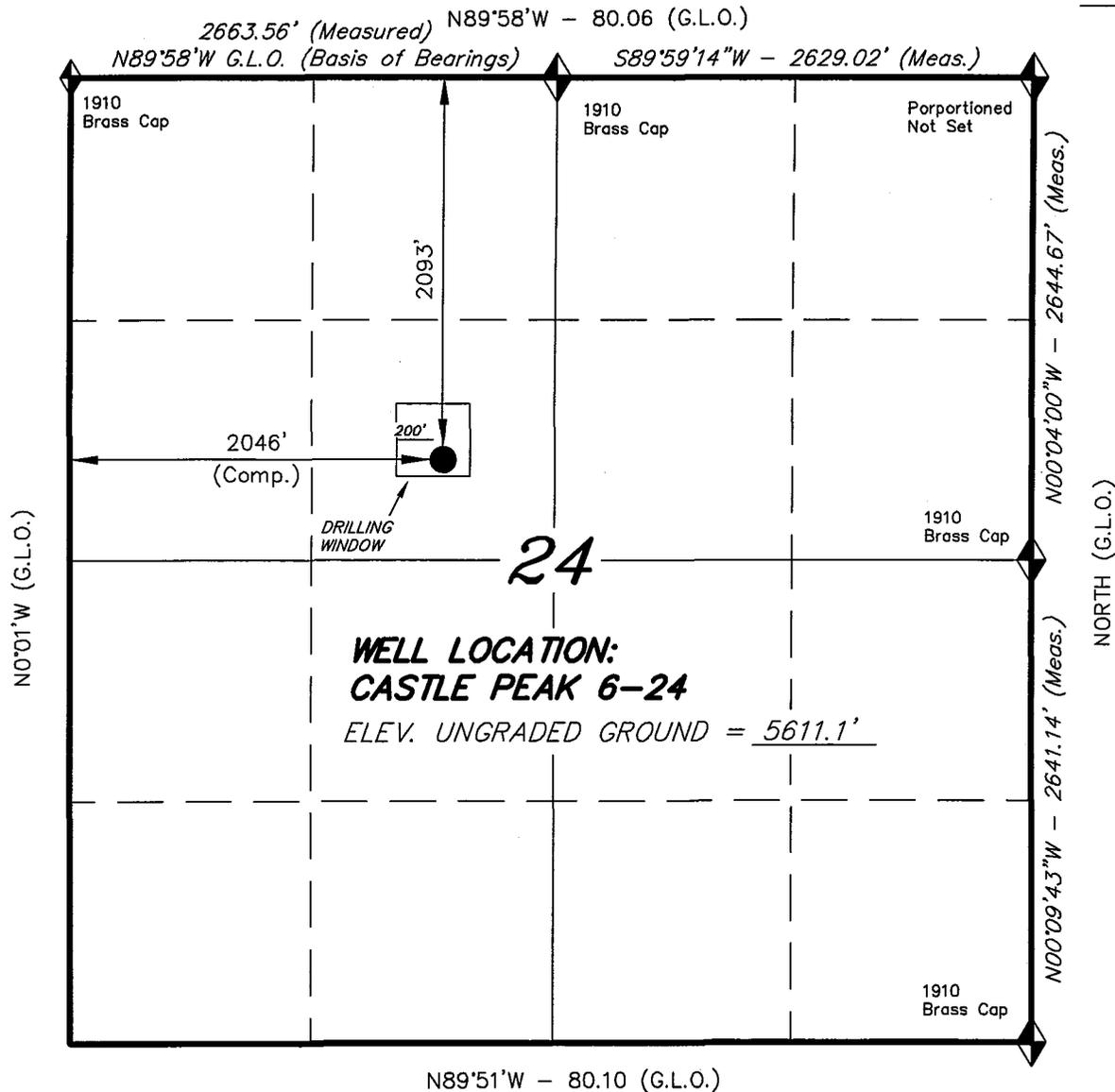
\*(Instructions on reverse)

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

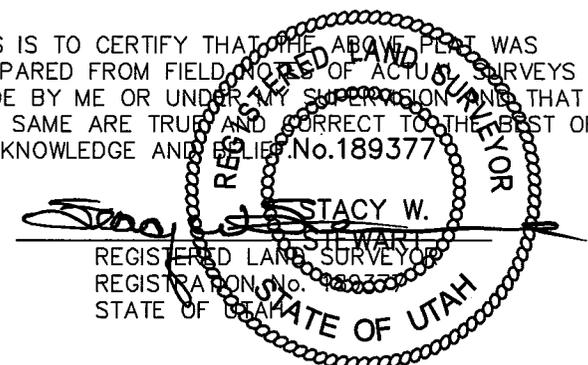


WELL LOCATION, CASTLE PEAK 6-24,  
 LOCATED AS SHOWN IN THE SE 1/4 NW  
 1/4 OF SECTION 24, T9S, R16E,  
 S.L.B.&M. DUCHESNE COUNTY, UTAH.



**Note:**  
 The Proposed Well head bears  
 N16°25'09"E 2181.55' from the North  
 1/4 Corner of Section 24.

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: 10-3-05	DRAWN BY: F.T.M.
NOTES:	FILE #

NEWFIELD PRODUCTION COMPANY  
FEDERAL #6-24-9-16  
SE/NW SECTION 24, 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' – 1850'
Green River	1850'
Wasatch	5740'

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

Green River Formation 1850' – 5740' - 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 #6-24-9-16  
SE/NW SECTION 24, 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 #6-24-9-16 located in the SE 1/4 NW 1/4 Section 24, T9S, R16E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.6 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southeasterly - 11.7 miles  $\pm$  to its junction with an existing dirt road to the southwest; proceed southwesterly - 4.1 miles  $\pm$  to its junction with the beginning of the proposed access road; proceed southwesterly along the proposed access road - 440'  $\pm$  to the proposed well location.

2. PLANNED ACCESS ROAD

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

3. LOCATION OF EXISTING WELLS

Refer to Exhibit "B".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

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

5. LOCATION AND TYPE OF WATER SUPPLY

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

6. SOURCE OF CONSTRUCTION MATERIALS

Please refer to the Monument Butte Field SOP.

7. METHODS FOR HANDLING WASTE DISPOSAL

Please refer to the Monument Butte Field SOP.

8. ANCILLARY FACILITIES

Please refer to the Monument Butte Field SOP.

9. WELL SITE LAYOUT

See attached Location Layout Diagram.

10. PLANS FOR RESTORATION OF SURFACE

Please refer to the Monument Butte Field SOP.

11. SURFACE OWNERSHIP - Bureau Of Land Management

12. OTHER ADDITIONAL INFORMATION

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report # 05-270, 9/7/05. Paleontological Resource Survey prepared by, Wade E. Miller, 9/28/05. See attached report cover pages, Exhibit "D".

For the Federal #6-24-9-16 Newfield Production Company requests 440' of disturbed area be granted in Lease UTU-15855 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 440' of disturbed area be granted in Lease UTU-15855 to allow for construction of the proposed gas lines. It is proposed that the disturbed area will be 50' wide to allow for construction of a buried 6" gas gathering line, and a buried 3" poly fuel gas line. Both lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

**Water Disposal**

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

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

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

**Golden Eagle:** Due to this proposed well access roads proximity (less that 0.5 mile) to an existing inactive golden eagle nest site, no new construction or surface disturbing activities will be allowed between March 1 and June 30. If the nest remains inactive on June 30<sup>th</sup> (based on a pre-construction survey by a qualified biologist), the operator may construct and drill the location between June 30 and March 1 of the following year. If the nest site becomes active prior to June 30, no new construction or surface disturbing activities will be allowed within 0.5 mile of the nest until the nest becomes inactive for two full breeding seasons. In the event that this well becomes a producing well, it must be equipped with a multi-cylinder engine or hospital muffler to reduce noise levels.

**Burrowing Owl:** Due to the proximity of the location to active prairie dog towns, there is the potential to encounter nesting burrowing owls between April 1 and August 15. If new construction or surface disturbing activities are scheduled between April 1 and August 15, pre-construction surveys will be conducted to detect the presence of nesting burrowing owls within 0.5 mile of any new construction or surface disturbing activity (see Vernal BLM Field Office Protocol). No new construction or surface disturbing activities will be allowed between April 1 and August 15 within a 0.5 mile radius of any active burrowing owl nest.

**Reserve Pit Liner**

A 12 mil liner with felt will be optional upon construction. Please refer to the Monument Butte Field SOP.

**Location and Reserve Pit Reclamation**

Please refer to the Monument Butte Field SOP.

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

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

The proposed Federal #6-24-9-16 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

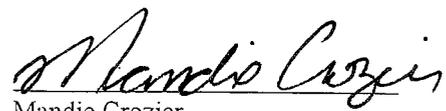
Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #6-24-9-16 SE/NW Section 24, Township 9S, Range 16E: Lease UTU-15855 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

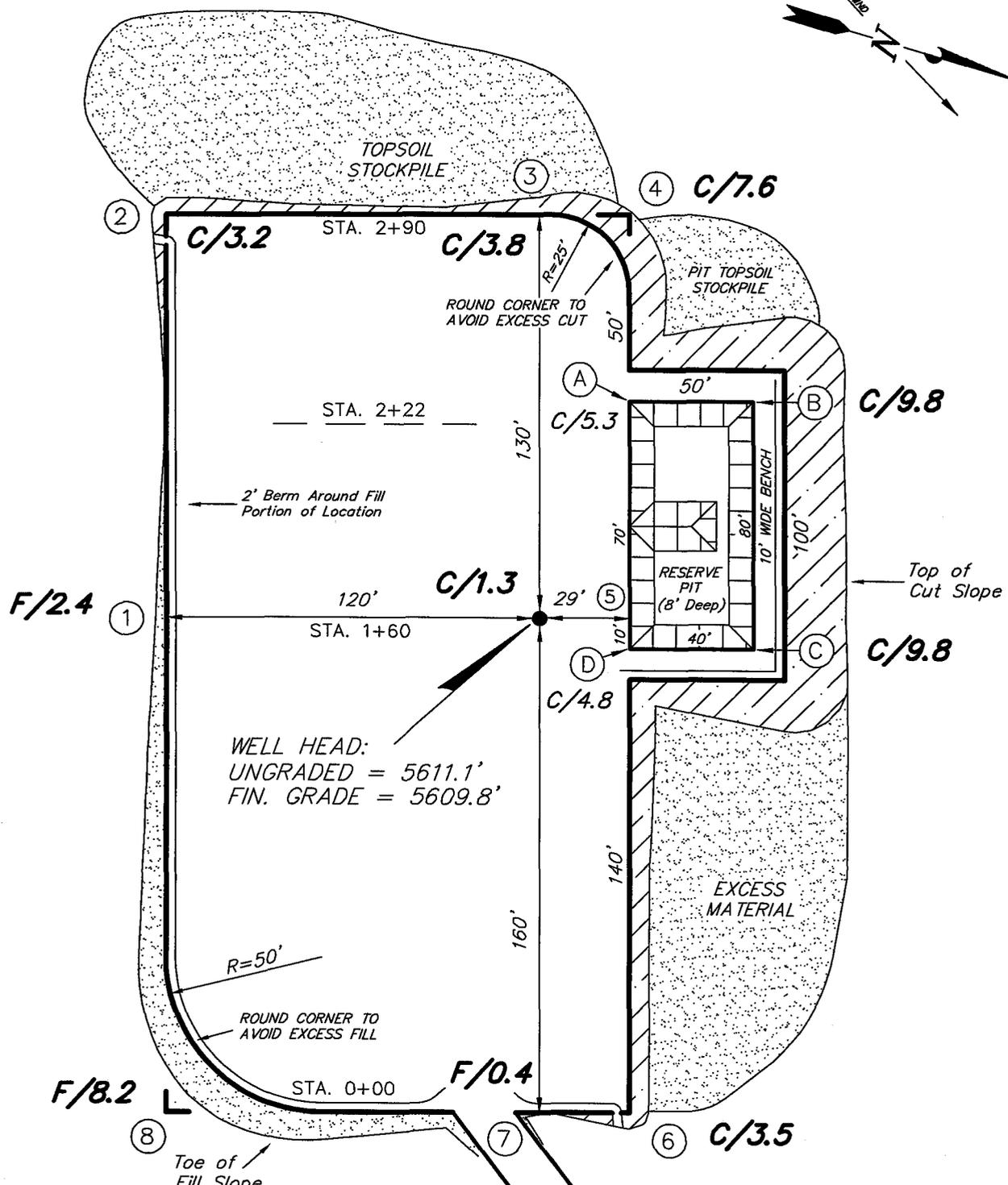
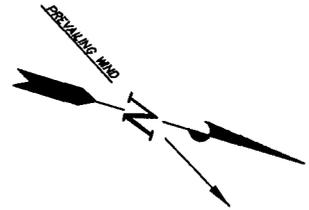
Date

  
Mandie Crozier  
Regulatory Specialist  
Newfield Production Company

# NEWFIELD PRODUCTION COMPANY

## CASTLE PEAK 6-24

Section 24, T9S, R16E, S.L.B.&M.



**REFERENCE POINTS**

180' SOUTHWEST	= 5614.3'
230' SOUTHWEST	= 5615.5'
170' SOUTHEAST	= 5607.1'
220' SOUTHEAST	= 5608.5'

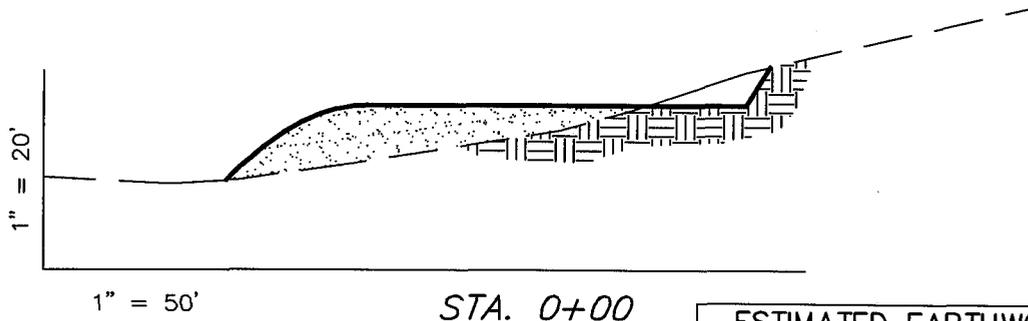
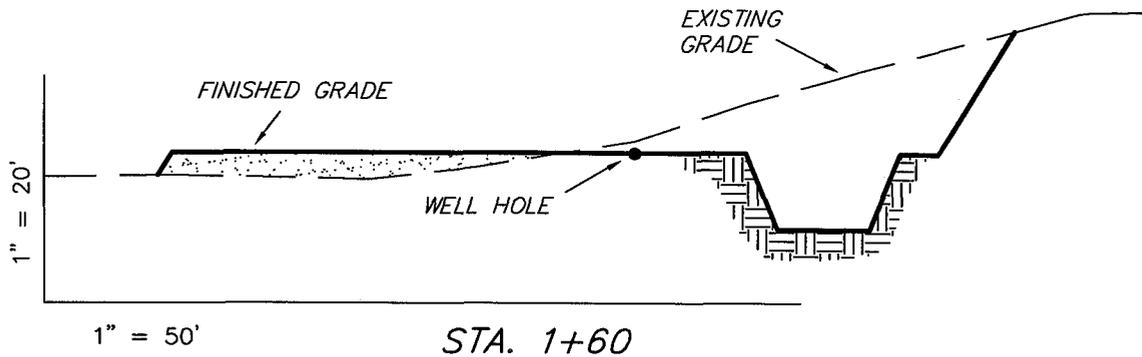
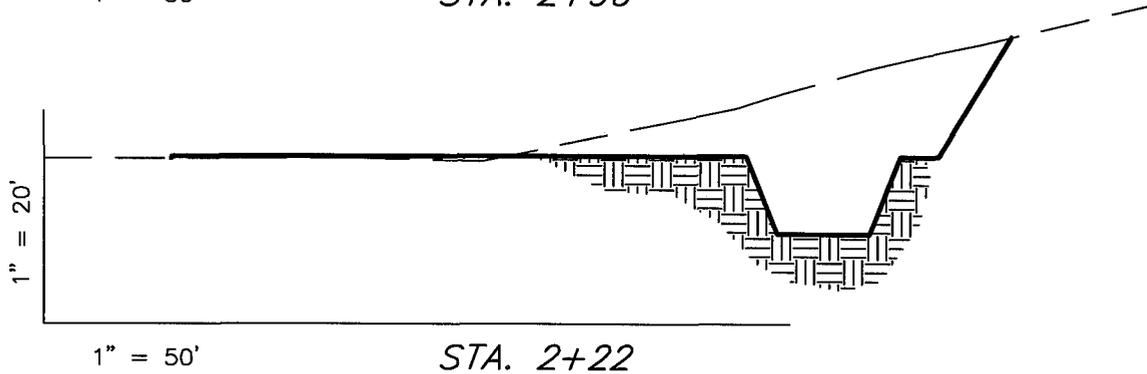
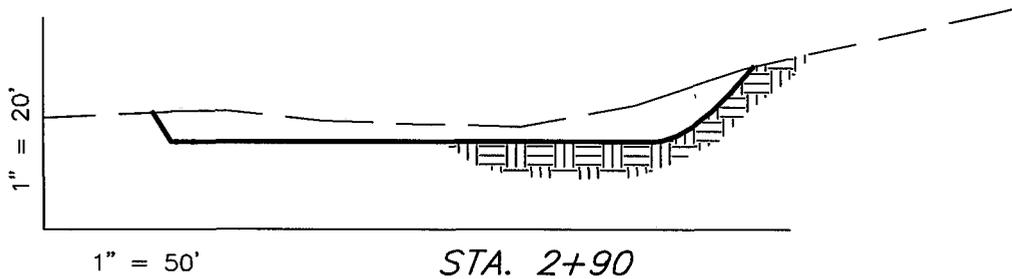
SURVEYED BY: D.P.	SCALE: 1" = 50'
DRAWN BY: F.T.M.	DATE: 10-3-05

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

# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS

### CASTLE PEAK 6-24



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

ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)				
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	3,250	3,250	Topsoil is not included in Pad Cut	0
PIT	640	0		640
TOTALS	3,890	3,250	1,030	640

SURVEYED BY: D.P.

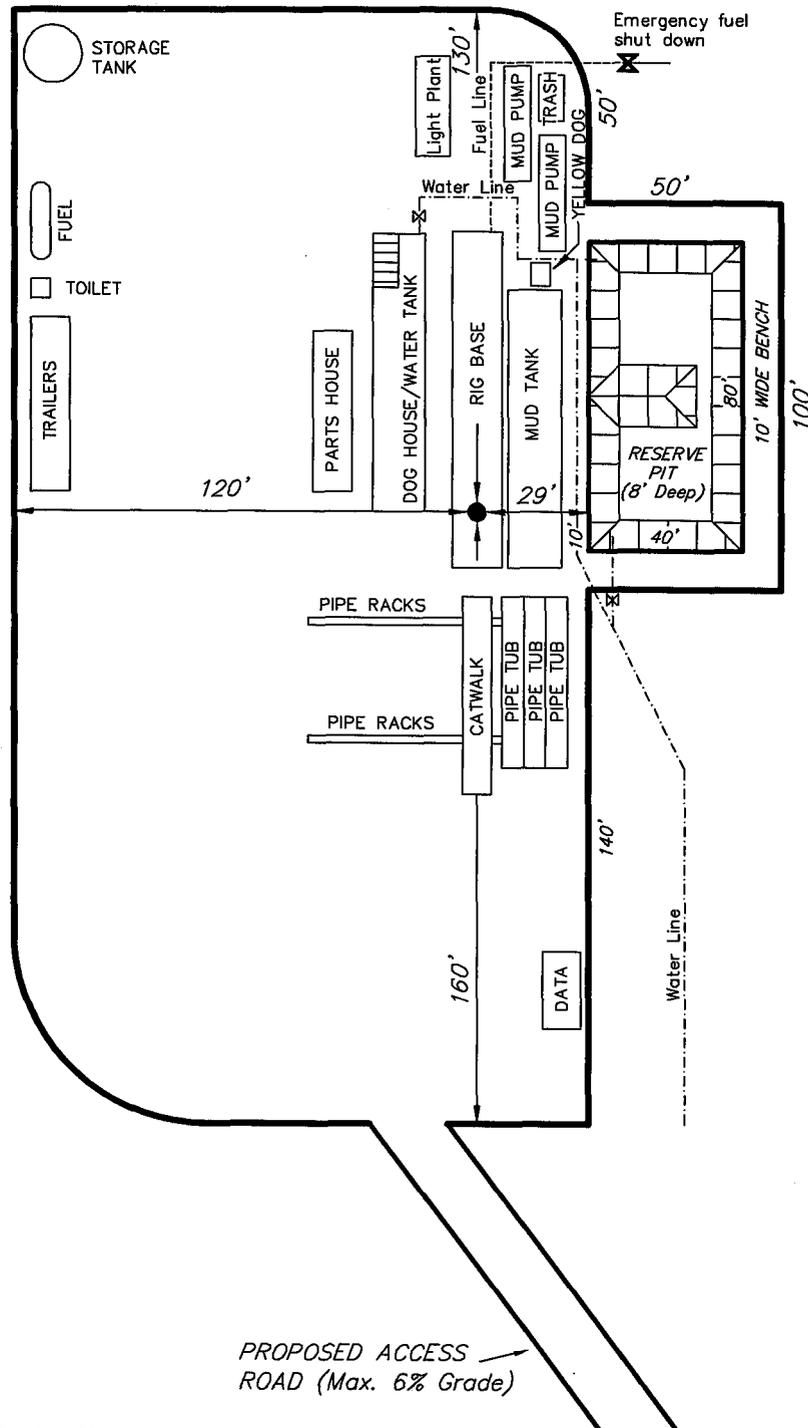
SCALE: 1" = 50'

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  
 CASTLE PEAK 6-24



PROPOSED ACCESS ROAD (Max. 6% Grade)

SURVEYED BY: D.P.

SCALE: 1" = 50'

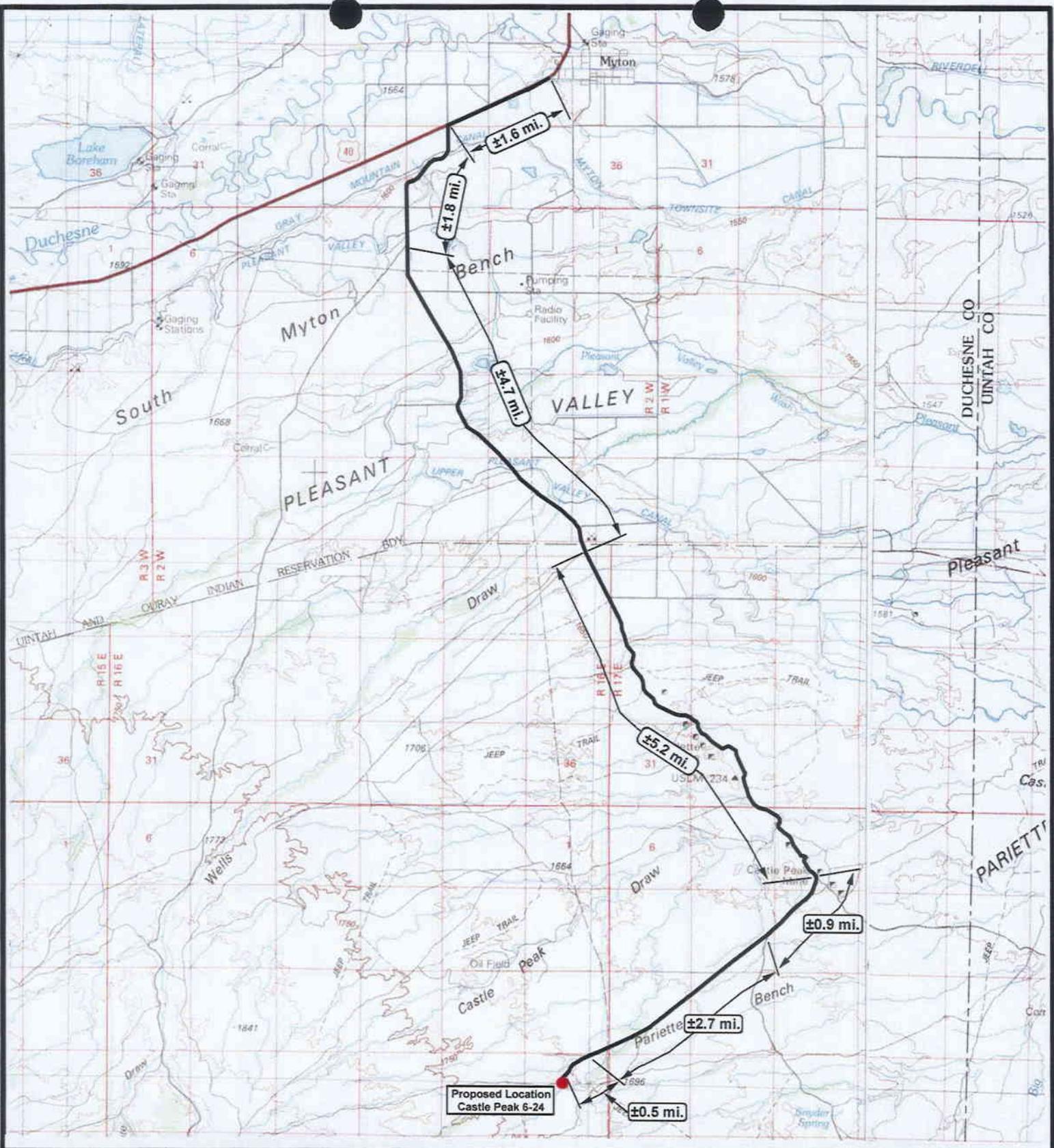
DRAWN BY: F.T.M.

DATE: 10-3-05

**Tri State**  
 Land Surveying, Inc.

(435) 781-2501

180 NORTH VERNAL AVE. VERNAL, UTAH 84078



**NEWFIELD**  
Exploration Company

**Castle Peak 6-24-9-16**  
**SEC. 24, T9S, R16E, S.L.B.&M.**

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

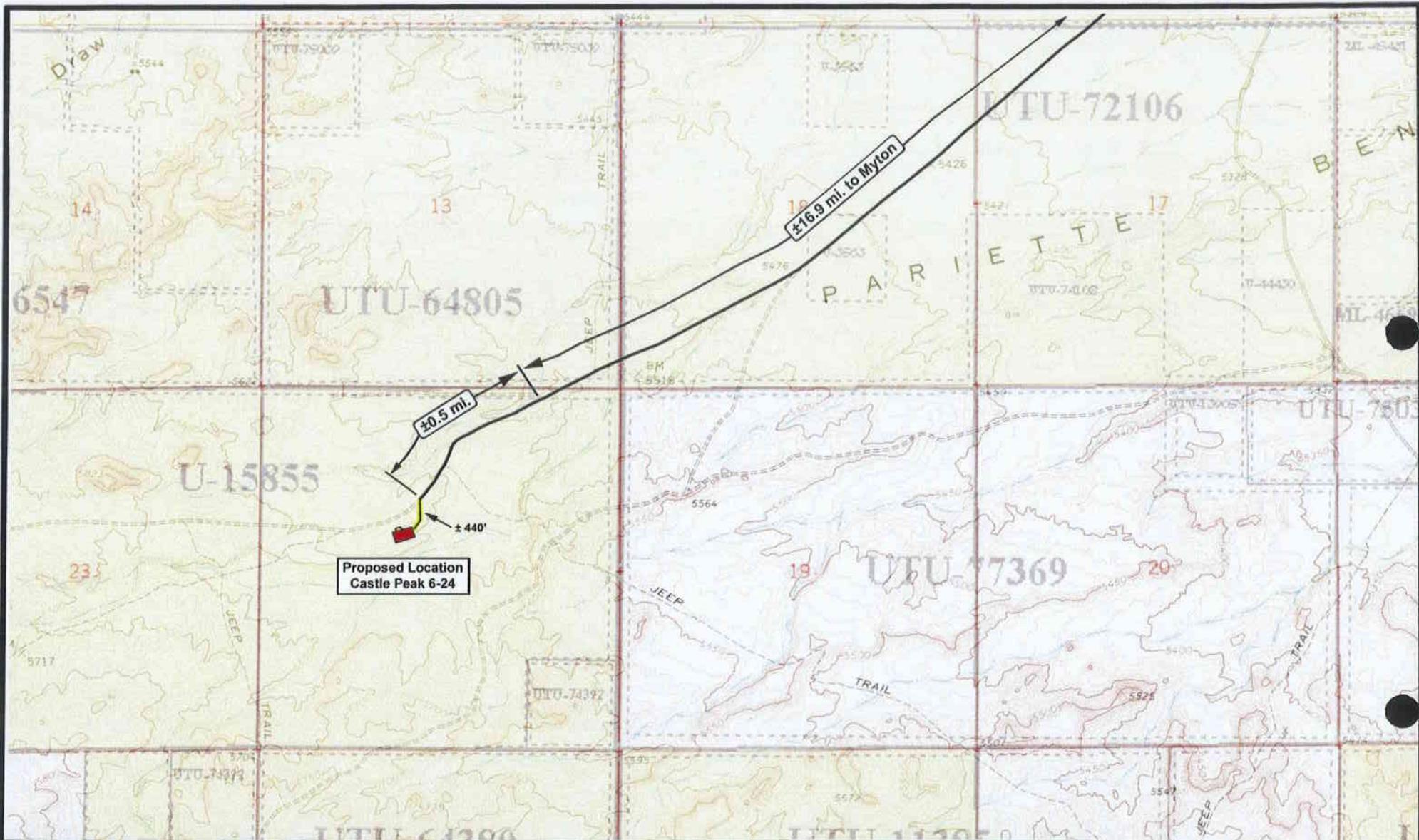
SCALE: 1 = 100,000  
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DATE: 10-04-2005

**Legend**

- Existing Road
- Proposed Access

**TOPOGRAPHIC MAP**

**"A"**



Proposed Location  
Castle Peak 6-24

± 440'

±16.9 mi. to Myton

±0.5 mi.



**NEWFIELD**  
Exploration Company

**Castle Peak 6-24-9-16**  
**SEC. 24, T9S, R16E, S.L.B.&M.**



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

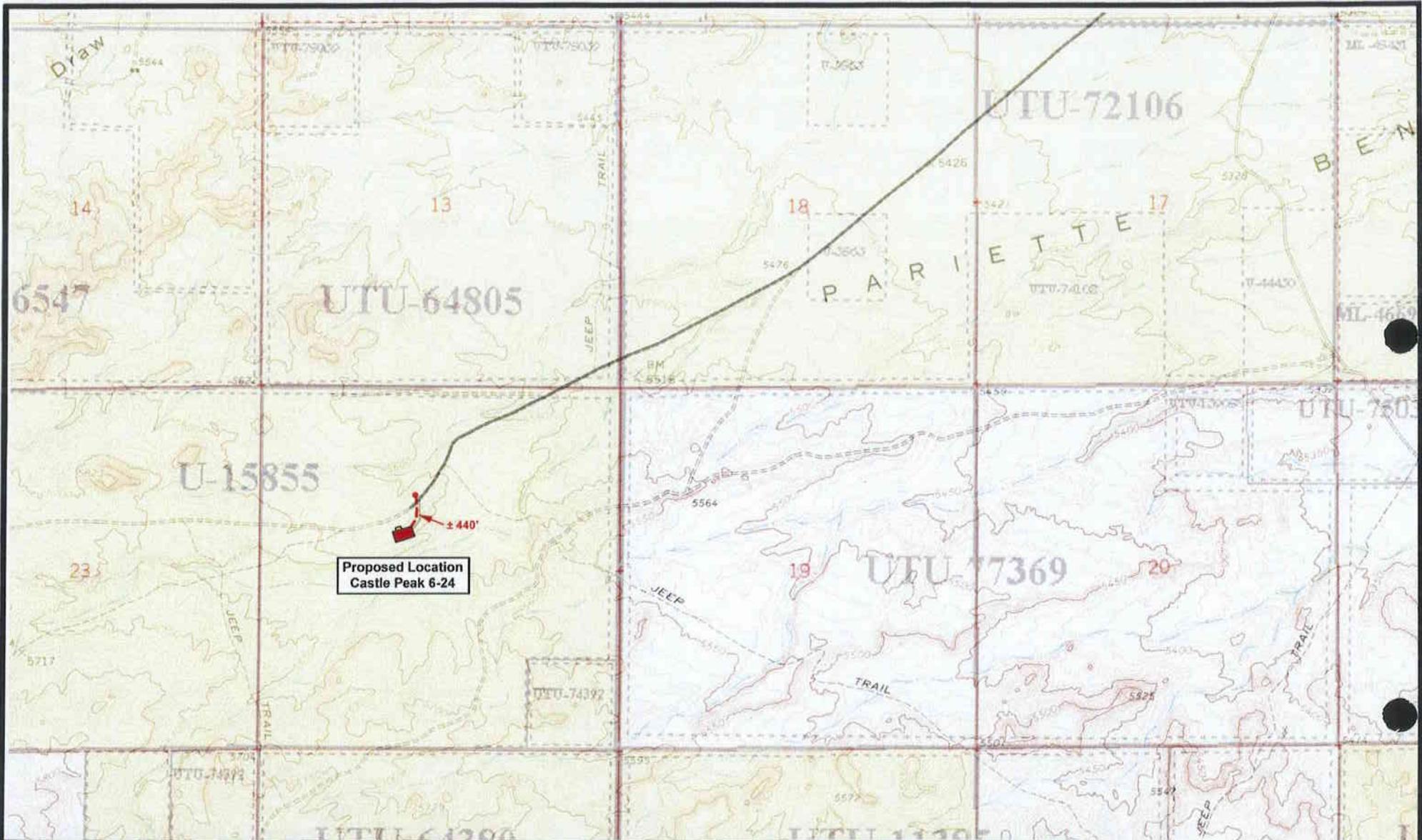
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DRAWN BY: mw  
DATE: 10-04-2005

**Legend**

Existing Road

Proposed Access

**"B"**



Proposed Location  
Castle Peak 6-24

**NEWFIELD**  
Exploration Company

**Castle Peak 6-24-9-16**  
**SEC. 24, T9S, R16E, S.L.B.&M.**

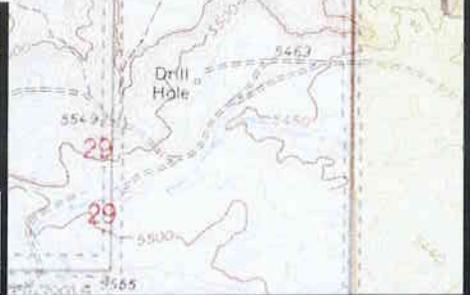
**Tri-State**  
*Land Surveying Inc.*  
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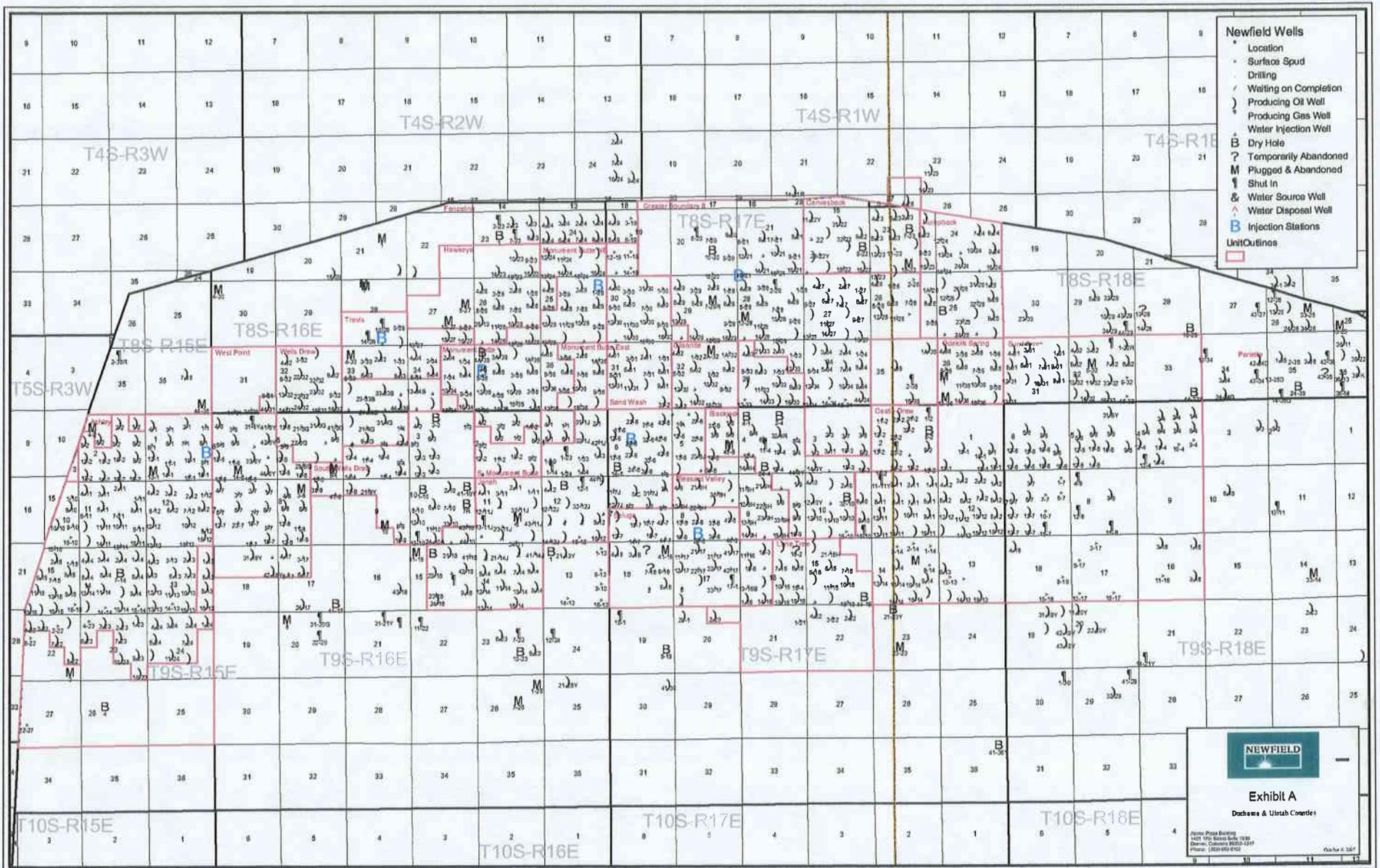
SCALE: 1" = 2,000'  
DRAWN BY: mw  
DATE: 10-04-2005

**Legend**

- Roads
- Proposed Gas Line

**"C"**







# 2-M SYSTEM

Blowout Prevention Equipment Systems

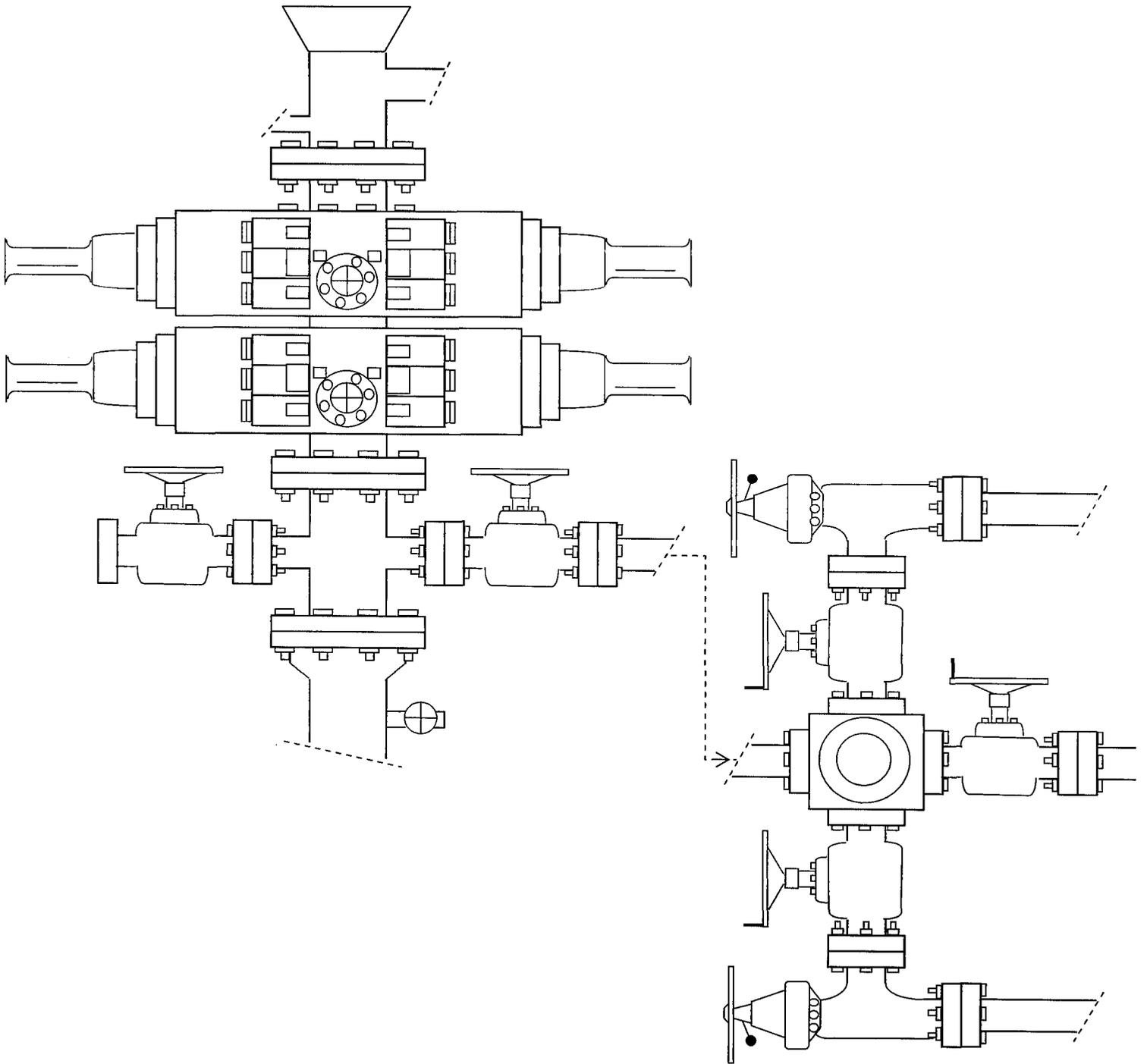


EXHIBIT C

Exhibit "D"  
Page 1 of 2

CULTURAL RESOURCE INVENTORY OF  
NEWFIELD EXPLORATION'S BLOCK PARCEL  
IN TOWNSHIP 9S, RANGE 16E, SECTION 23 and 24,  
DUCHESNE COUNTY, UTAH

By:

Andre' Jendresen  
and  
Keith Montgomery

Prepared For:

Bureau of Land Management Vernal Field Office

Prepared Under Contract With:

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

Submitted By:

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

MOAC Report No. 05-270

September 7, 2005

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

State of Utah Antiquities Project (Survey)  
Permit No. U-05-MQ-0831b

**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: 43-013-32962

WELL NAME: FEDERAL 6-24-9-16  
 OPERATOR: NEWFIELD PRODUCTION ( N2695 )  
 CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

SENW 24 090S 160E  
 SURFACE: 2093 FNL 2046 FWL  
 BOTTOM: 2093 FNL 2046 FWL  
 DUCHESNE  
 MONUMENT BUTTE ( 105 )

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

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: UTU-15855  
 SURFACE OWNER: 1 - Federal  
 PROPOSED FORMATION: GRRV  
 COALBED METHANE WELL? NO

LATITUDE: 40.01793  
 LONGITUDE: -110.0693

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 Strip





**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 6-24-9-16 Well, 2093' FNL, 2046' FWL, SE NW, Sec. 24, 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 43-013-32962.

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 6-24-9-16

API Number: 43-013-32962

Lease: UTU-15855

Location: SE NW                      Sec. 24                      T. 9 South                      R. 16 East

### Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

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

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

- Contact Dan Jarvis at (801) 538-5338

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

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

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

RECEIVED

NOV 28 2005

BLM UTAH

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

Form 3160-3  
(September 2001)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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-15855
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 6-24-9-16
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SE/NW 2093' FNL 2046' FWL At proposed prod. zone		9. API Well No. 43013-32962
14. Distance in miles and direction from nearest town or post office* Approximatley 17.4 miles southwest of Myton, Utah		10. Field and Pool, or Exploratory Monument Butte
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 2093 f/ise, NA' f/unit		11. Sec., T., R., M., or Blk. and Survey or Area SE/NW Sec. 24, T9S R16E
16. No. of Acres in lease 1200.00		12. County or Parish Duchesne
17. Spacing Unit dedicated to this well 40 Acres		13. State UT
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1288'		20. BLM/BIA Bond No. on file UT0056
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5611' 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 <i>Mandie Crozier</i>	Name (Printed/Typed) Mandie Crozier	Date 11/22/05
Title Regulatory Specialist		
Approved by (Signature) <i>Jerry Kewela</i>	Name (Printed/Typed) JERRY KEWELA	Date 9-8-2006
Title Assistant Field Manager Lands & Mineral Resources	Office	

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

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** RECEIVED

SEP 15 2006

DIV. OF OIL, GAS & MINING



UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East VERNAL, UT 84078 (435) 781-4400



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

**Company:** Newfield Production Company      **Location:** SENW, Sec 24, T9S, R16E  
**Well No:** Federal 6-24-9-16      **Lease No:** UTU-15855  
**API No:** 43-013- 32962      **Agreement:** N/A

Petroleum Engineer:	Matt Baker	Office: 435-781-4490	Cell: 435-828-4470
Petroleum Engineer:	Michael Lee	Office: 435-781-4432	Cell: 435-828-7875
Supervisory Petroleum Technician:	Jamie Sparger	Office: 435-781-4502	Cell: 435-828-3913
Environmental Scientist:	Paul Buhler	Office: 435-781-4475	Cell: 435-828-4029
Environmental Scientist:	Karl Wright	Office: 435-781-4484	
Natural Resource Specialist:	Holly Villa	Office: 435-781-4404	
Natural Resource Specialist:	Melissa Hawk	Office: 435-781-4476	
Natural Resource Specialist:	Chris Carusona	Office: 435-781-4441	
Natural Resource Specialist:	Scott Ackerman	Office: 435-781-4437	
<b>After Hours Contact Number:</b>	<b>435-781-4513</b>	<b>Fax:</b> 435-781-4410	

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

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

**NOTIFICATION REQUIREMENTS**

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

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

- All applicable local, state, and/or federal laws, regulations, and/or statutes must be complied with.
- The proposed buried pipelines will be laid adjacent to the access roads, using the road as a working surface. The pipeline trench shall be dug in the borrow ditch of the road and the trench material side cast into the existing vegetation. Upon completion of backfilling the trenches, reclaim with a seed drill using the seed mix listed below. Seeding shall include the area where the trench material was set aside.
- The proposed action is in Golden eagle nesting habitat. According to the lease, new surface disturbing activities may be prohibited during the year to minimize adverse impacts to nesting raptors. During the period of February 1st through July 15th, No new drilling or surface disturbing activities (including road construction) will be allowed. If a request for an exception to this limitation is desired, the request must be made in writing to the Vernal Field Office Manager and approved prior to drilling or surface disturbing activities. Additionally, if drilling is anticipated from February 1st through July 15th a new survey for Golden eagle is needed with the exception request.
- Construction related traffic shall be restricted to approved routes. Cross-country vehicle travel will not be 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.
- The reserve pit will be lined with a 16 ml or greater liner.
- No vehicle travel, construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support vehicles and/or construction equipment. If such equipment creates ruts in excess of four inches deep, the soil shall be deemed too wet to adequately support construction equipment.
- The liner is to be cut at the level of the cuttings or treated to prevent the reemergence of the pit liner and pit material to the surface or its interference with long-term successful re-vegetation. Any excess liner material removed from the pit is to be disposed of at an authorized disposal site.
- When the reserve pit contains fluids or toxic substances, the operator must ensure that animals do not ingest or become entrapped in pit fluids.
- Drill cuttings and mud will remain in the reserve pit until DRY. The reserve pit must be free of oil and other liquid and solid wastes, allowed to dry, be pumped dry, or solidified in-situ prior to filling. The reserve pit will not be "squeezed," (filled with soil while still containing fluids) or "cut" (puncturing the pit liner while still containing fluids to allow pit fluids to drain from the pit).
- Prevent fill and stock piles from entering drainages.

- Cultural And Paleontological - Any cultural and/or paleontological resource (historic or prehistoric site or object or fossil) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the authorized officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery will be made by the authorized officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and a decision as to proper mitigation measures shall be made by the authorized officer after consulting with the holder.
- The access road will be crowned and ditched. Flat-bladed roads are NOT allowed.
- Notify the Authorized Officer 48 hours prior to surface disturbing activities.
- All well facilities not regulated by OSHA will be painted Carlsbad Canyon.
- The boulders >3' found at the surface or above ground will be saved for final reclamation.
- Trees must be removed from the location must be piled separately off location and saved for final reclamation purposes.

Interim Reclamation (see below):

Where possible, strip six inches of topsoil from the location as shown on the cut sheet. After the well is converted to an injection well, the topsoil will be spread and re-contoured on the location and immediately seeded with the seed mix below.

Interim Reclamation Seed Mix for location:

Galleta grass	<i>Hilaria jamesii</i>	6 lbs/acre
Western wheatgrass	<i>Pascopyrum smithii</i>	<u>6 lbs/acre</u>
	Per Live Seed Total	12 lbs/acre

- The topsoil from the reserve pit should be stripped and piled separately near the reserve pit. When the reserve pit is closed it should be re-contoured, then the area should be seeded in the same manner as the topsoil.
- There shall be no primary or secondary noxious weeds in the seed mixture.
- Once the location is plugged and abandoned contact the Authorized Officer for final reclamation plans.
- The above listed seed mix shall be used to seed all unused portions of the pad including the topsoil and stock piles, and the reserve pits. Re-seeding may be required if the first seeding is not successful.
- The seed shall be drilled or disked into the ground or hand broadcast onto the ground. Planting depth shall not exceed one-half inch using a seed drill. If the seed is hand broadcast then the seed mixture will be doubled and the area raked or chained to cover the seed.

## **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.
- All shows of fresh water and minerals shall be reported and protected. A sample shall be taken of any water flows and a water analysis furnished the BLM, Vernal Field Office. All oil and gas shows shall be adequately tested for commercial possibilities, reported, and protected.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM, Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM, Vernal Field Office shall be obtained and notification given before resumption of operations.
- Chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a

weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.

- Any change in the program shall be approved by the BLM, Vernal Field Office. "Sundry Notices and Reports on Wells" (Form BLM 3160-5) shall be filed for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.
- Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan pursuant to Onshore Oil & Gas Order No. 1 of 43 CFR 3164.1 and prior approval by the BLM, Vernal Field Office.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.
- A cement bond log (CBL) will be run from the production casing shoe to the surface casing shoe and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease shall have prior written approval from the BLM, Vernal Field Office.
- All measurement points shall be identified as point of sales or allocation for royalty determination prior to the installation of facilities.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM, Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement.

- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM, Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- This APD is approved subject to the requirement that, should the well be successfully completed for production, the BLM, Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and / or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from Field Office Petroleum Engineers.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

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

Lease Designation and Serial No.  
**UTU-15855**

Indian, Allottee or Tribe Name  
**NA**

7. If Unit or C.A. Agreement Designation  
**N/A**

8. Well Name and No.  
**FEDERAL 6-24-9-16**

9. API Well No.  
**43-013-32962**

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)  
**2093 FNL 2046 FWL SE/NW Section 24, T9S R16E**

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

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

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

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

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

This APD is not yet due to expire with 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

I hereby certify that the foregoing is true and correct

Signed: [Signature] Regulatory Specialist Date: 10/27/2006  
Mandie Crozier

COPIED AND FORWARDED

(This space for Federal or State office use)

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

RECEIVED  
OCT 30 2005  
DIV. OF OIL, GAS & MINERAL



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

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

**API:** 43-013-32962  
**Well Name:** Federal 6-24-9-16  
**Location:** SE/NW Section 24, 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

Shandi Curzio  
Signature

10/27/2006  
Date

Title: Regulatory Specialist

Representing: Newfield Production Company

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
VERNAL FIELD OFFICE  
2007 SEP 11 PM

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

3. Lease Designation and Serial No.  
**UTU-15855**  
4. Indian, Allottee or Tribe Name  
**NA**

**SUBMIT IN TRIPLICATE**

1. Type of Well  
 Oil Well  
 Gas Well  
 Other

7. If Unit or CA, Agreement Designation  
**N/A**

2. Name of Operator  
**NEWFIELD PRODUCTION COMPANY**

8. Well Name and No.  
**FEDERAL 6-24-9-16**

3. Address and Telephone No.  
**Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721**

9. API Well No.  
**43-013-32962**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)  
**2093 FNL 2046 FWL SE/NW Section 24, T9S R16E**

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

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

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

TYPE OF SUBMISSION	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 9/8/06 (expiration 9/8/07).

**CONDITIONS OF APPROVAL ATTACHED**

14. I hereby certify that the foregoing is true and correct  
 Signed Mandie Crozier Title Regulatory Specialist Date 9/7/2007  
 Mandie Crozier

CC: UTAH DOGM

(This space for Federal or State office use)  
 Approved by Mark Baker Title Petroleum Engineer Date SEP 14 2007

Conditions of approval, if any:

CC: Utah DOGM

**RECEIVED**

**OCT 09 2007**



U.S.C. Section 1001, makes 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.

# CONDITIONS OF APPROVAL

## Newfield Production Co.

### Notice of Intent APD Extension

**Lease:** UTU-15855  
**Well:** Fed 6-24-9-16  
**Location:** SENW Sec24-T9S-R16E

An extension for the referenced APD is granted with the following conditions:

---

1. The extension and APD shall expire on 09/08/08
2. No other extension shall be granted.

If you have any other questions concerning this matter, please contact Matt Baker of this office at (435) 781-4490

# DIVISION OF OIL, GAS AND MINING

## **SPUDDING INFORMATION**

Name of Company: NEWFIELD PRODUCTION COMPANY

Well Name: FEDERAL 6-24-9-16

Api No: 43-013-32962 Lease Type: FEDERAL

Section 24 Township 09S Range 16E County DUCHESNE

Drilling Contractor NDSI RIG # NS#1

## **SPUDDED:**

Date 11/02/07

Time 5:00 PM

How DRY

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

Reported by DELL RAY

Telephone # (435) 828-6110

Date 11/5/07 Signed CHD

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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

5. Lease Serial No.  
USA UTU-15855

6. If Indian, Allottee or Tribe Name.

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

8. Well Name and No.  
Federal 6-24-9-16

9. API Well No.  
4301332962

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)  
SENW Section 24 T9S R16E

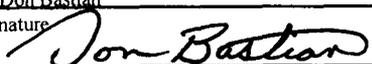
12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA

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 _____ Spud Notice _____
	<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 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 11/2/07 MIRU NDSI NS #1. Spud well @ 5:00pm. Drill 320' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24 # csgn. Set @ 324.66' On 11/5/07 cement with 160 sks of class "G" w/ 3% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cf/ sk yeild. Returned 3 bbls cement to pit. WOC.

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

Signature 

Title  
Drilling Foreman

Date  
11/05/2007

THIS SPACE FOR FEDERAL CROSS-STATE OFFICE USE

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

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

Office \_\_\_\_\_

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

(Instructions on reverse)

RECEIVED

NOV 07 2007

DIV. OF OIL, GAS & MINING

NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8 CASING SET AT 324.66

LAST CASING 8 5/8" SET AT 324.66'.29'  
 DATUM 12' KB  
 DATUM TO CUT OFF CASING \_\_\_\_\_  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER 320' LOGGER \_\_\_\_\_  
 HOLE SIZE 12 1/4

OPERATOR NewField Production Company  
 WELL Federal 6-24-9-16  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # NDSI NS # 1

LOG OF CASING STRING:

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		Shoe Joint 44.66'					
		WHI - 92 csg head			8rd	A	0.95
7	8 5/8"	Maverick ST&C csg	24#	J-55	8rd	A	312.81
		<b>GUIDE</b> shoe			8rd	A	0.9
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			314.66
TOTAL LENGTH OF STRING		314.66	7	LESS CUT OFF PIECE			2
LESS NON CSG. ITEMS		1.85		PLUS DATUM TO T/CUT OFF CSG			12
PLUS FULL JTS. LEFT OUT		0		CASING SET DEPTH			<b>324.66</b>
TOTAL		312.81	7				
TOTAL CSG. DEL. (W/O THRDS)		312.81	7	} COMPARE			

TIMING	1ST STAGE	
BEGIN RUN CSG.	Spud	11/2/2007 5:00 PM
CSG. IN HOLE		11/3/2007 12:00 PM
BEGIN CIRC		11/5/2007 9:03 AM
BEGIN PUMP CMT		11/5/2007 9:09 AM
BEGIN DSPL. CMT		11/5/2007 9:18 AM
PLUG DOWN		11/5/2007 9:24 AM

GOOD CIRC THRU JOB Yes  
 Bbls CMT CIRC TO SURFACE 3  
 RECIPROCATED PIPE FOR \_\_\_\_\_ THRU \_\_\_\_\_ FT STROKE  
N/A  
 BUMPED PLUG TO 125 PSI

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 11/5/2007

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

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

OPERATOR ACCT. NO. N2695

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION				COUNTY	SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG			
B	99999	11492	4301333500	JONAH N-6-9-17	NWSW	6	9S	17E	DUCHESNE	11/1/2007	11/26/07
WELL 1 COMMENTS: <i>GRRU BHL = NWSW</i>											
A	99999	16505	4301332962	FEDERAL 6-24-9-16	SENW	24	9S	16E	DUCHESNE	11/2/2007	11/24/07
<i>GRRU</i>											
A	99999	16506	4301333341	FEDERAL 12A-24-9-16	NWSW	24	9S	16E	DUCHESNE	11/5/2007	11/26/07
<i>GRRU</i>											
A	99999	16507	4301333342	FEDERAL 13-24-9-16	SWSW	24	9S	16E	DUCHESNE	11/6/2007	11/26/07
<i>GRRU</i>											
WELL 3 COMMENTS:											
WELL 5 COMMENTS:											

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

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

RECEIVED

NOV 08 2007

DIV. OF OIL, GAS & MINING

Signature

Jenul Park

Production Clerk

11/08/07

Date

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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Federal 6-24-9-16

9. API Well No.  
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10. Field and Pool, or Exploratory Area  
MONUMENT BUTTE

11. County or Parish, State  
DUCHESNE, UT

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

1. Type of Well  
 Oil Well  Gas Well  Other

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Myton, UT 84052

3b. Phone (include are code)  
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SENW Section 24 T9S R16E

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

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<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
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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 12/13/2007

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

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

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(Instructions on reverse)

RECEIVED

DEC 19 2007

DIV. OF OIL, GAS & MINING

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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
**UTU-15855**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. TYPE OF WELL:      OIL WELL       GAS WELL       OTHER

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

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

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE:      COUNTY: DUCHESNE

OTR/TR. SECTION. TOWNSHIP. RANGE. MERIDIAN:      SENW, 24, T9S, R16E      STATE: UT

8. WELL NAME and NUMBER:  
**Federal 6-24-9-16**

9. API NUMBER:  
**4301332962**

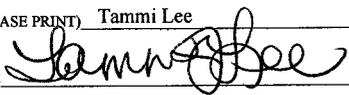
10. FIELD AND POOL, OR WILDCAT:  
**MONUMENT BUTTE**

**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>12/12/2007</u>	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Weekly Status Report
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

NAME (PLEASE PRINT) Tammi Lee      TITLE Production Clerk

SIGNATURE       DATE 01/03/2008

(This space for State use only)

**RECEIVED**  
**JAN 07 2008**  
**DIV. OF OIL, GAS & MINING**

**Daily Activity Report**

Format For Sundry

**FEDERAL 6-24-9-16**

10/1/2007 To 2/29/2008

**12/6/2007 Day: 1****Completion**

Rigless on 12/5/2007 - 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 @ 5670' & cement top @ 68'. Perforate stage #1, CP3 sds @ 5410-18' w/ 3-1/8" Slick Guns (19 gram, .49"EH, 120°) w/ 4 spf for total of 32 shots. 110 BWTR. SWIFN.

**12/7/2007 Day: 2****Completion**

Rigless on 12/6/2007 - RU BJ Services. 0 psi on well. Frac CP3 sds w/ 25,257#'s of 20/40 sand in 361 bbls of Lightning 17 fluid. Broke @ 3177 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 2391 psi @ ave rate of 23.1 BPM. Pumped 504 gals of 15% HCL in flush for Stage #2. ISIP 2055 psi. Leave pressure on well. 471 BWTR RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 7' perf gun. Set plug @ 5360'. Perforate CP.5 sds @ 5259- 66' 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. 1450 psi on well. Frac CP.5 sds w/ 25,324#'s of 20/40 sand in 351 bbls of Lightning 17 fluid. Broke @ 1605 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 2677 psi @ ave rate of 23.1 BPM. Pumped 504 gals of 15% HCL in flush for Stage #3. ISIP 2035 psi. Leave pressure on well. 822 BWTR RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 8' perf gun. Set plug @ 5090'. Perforate LODC sds @ 4994- 5002' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 32 shots. RU BJ Services. 1660 psi on well. Pressured up to 4200 psi, Would not breakdown. RU WL & dumpbail acid. RU BJ Services. 1570 psi on well. Frac LODC sds w/ 25,369#'s of 20/40 sand in 354 bbls of Lightning 17 fluid. Broke @ 3198 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 3093 psi @ ave rate of 23.2 BPM. Pumped 504 gals of 15% HCL in flush for Stage #4. ISIP 3198 psi. Leave pressure on well. 1176 BWTR RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug, 5' & 9' perf gun. Set plug @ 4940'. Perforate A1 sds @ 4859- 64', 4842'- 51' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 56 shots (2 runs due to misfire). RU BJ Services. 1835 psi on well. Frac A1 sds w/ 40,223#'s of 20/40 sand in 398 bbls of Lightning 17 fluid. Broke @ 2120 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 2114 psi @ ave rate of 23.1 BPM. Pumped 504 gals of 15% HCL in flush for Stage #5. ISIP 2132 psi. Leave pressure on well. 1574 BWTR RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 11' perf gun. Set plug @ 3990'. Perforate GB4 sds @ 3877- 88' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 44 shots. RU BJ Services. 1285 psi on well. Frac A1 sds w/ 38,701#'s of 20/40 sand in 339 bbls of Lightning 17 fluid. Broke @ 1366 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1497 psi @ ave rate of 23.2 BPM. ISIP 1632 psi. Begin immediate flowback on 12/64 choke @ 1 BPM. Flowed for 1 1/2 hrs & died. Rec. 95 BTF. SIWFN w/ 1818 BWTR.

**12/8/2007 Day: 3****Completion**

NC #2 on 12/7/2007 - MIRU NC #2. Bleed off well, flowing back approx. 50 BW. ND 5000# BOPs & frac head. NU 3000# wellhead & BOPs. PU 120- jts 2 7/8" J-55 6.5# tbg from trailer (tallying & drifting). RU pump & pump lines. SDFN.

**12/11/2007 Day: 4****Completion**

NC #2 on 12/10/2007 - Continue TIH w/ tbg & tag fill @ 3905'. RU power swivel. Clean out to plug

& 3990'. Drill up plug in 29 minutes & circulate well clean. Cont. TIH w/ tbg & tag fill @ 4915'. Clean out to plug @ 4940' & drill up plug in 33 minutes. Circulate well clean. TIH w/ tbg & tag fill @ 5050'. Clean out to plug @ 5090' & drill up plug in 27 minutes. Circulate well clean. TIH w/ tbg & tag fill @ 5340'. Clean out to plug @ 5360' & drill up plug in 28 minutes. Circulate well clean. TIH w/ tbg & tag fill @ 5460' & clean out to PBTD @ 5720'. Circulate well clean. Drain pump & pump lines. SDFN.

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12/12/2007 Day: 5

Completion

NC #2 on 12/11/2007 - RD power swivel. Thaw tbg & csg valves w/ hot oiler. RU swab equipment. Made 19 swab runs w/ SFL @ surface & EFL @ 2100'. Ending w/ approx 5% oil cut, small show of gas & no show of sand. Recovered 171 Bbls fluid total. RD swab. TIH w/ tbg & tag PBTD @ 5720'. TOOH w/ tbg & LD BHA. TIH w/ tbg as follows: 2 7/8 NC, 2- jts 2 7/8 J-55 6.5# tbg, SN, 1- jt tbg, TA, 172- jts tbg. RD rig floor. ND BOPs. Set TA @ 5401' w/ 16000# tension. NU wellhead. X-over for rods. SDFN.

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12/13/2007 Day: 6

Completion

NC #2 on 12/12/2007 - Hot oiler had flushed tbg w/ 60 BW @ 250°. PU & prime CDI pump. TIH w/ rods (from trailer) as detailed below. RU pumping unit. Wait on pin for horses head to be made. Hang rods off. With tbg full, stroke test pump w/ unit to 800 psi (good test). RDMO. PWOP @ 2:30 PM w/ 80" SL & 5 SPM. Est 1657 BWTR. Final Report!

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

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

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

**1a. TYPE OF WORK**

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

**1b. TYPE OF WELL**

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

**2. NAME OF OPERATOR**

Newfield Exploration Company

**3. ADDRESS AND TELEPHONE NO.**

1401 17th St. Suite 1000 Denver, CO 80202

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

At Surface 2093' FNL 2046' FWL NW/NW SEC. 24, T9S, R16E  
At top prod. Interval reported below

At total depth

14. API NO. 43-013-32962 DATE ISSUED 11/29/06

12. COUNTY OR PARISH Duchesne 13. STATE UT

15. DATE SPUNDED 11/2/07 16. DATE T.D. REACHED 11/18/07 17. DATE COMPL. (Ready to prod.) 12/12/07 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 5611' GL 5623' KB 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 5750' 21. PLUG BACK T.D., MD & TVD 5720' 22. IF MULTIPLE COMPL., HOW MANY\* 23. INTERVALS DRILLED BY -----> 24. ROTARY TOOLS X 25. CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)\* 3877'-5418' 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN Dual Induction Guard, SP, Compensated Density, Compensated Neutron, GR, Caliper, Cement Bond Log 27. WAS WELL CORED No

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

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8-5/8" - J-55	24#	324.66	12 1/4	SURFACE W/160 SX CLASS "G" CEME	
5-1/2" J-55	15.5#	5750'	7 7/8	300SX PRIMLITE II & 400 SX 50/50 POZ	

29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	EOT @ 5500'	TA @ 5401'

31. PERFORATION RECORD (Interval, size and number)			32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
INTERVAL	SIZE	SPF/NUMBER	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

CP3 sds 5410'-5418'	.49"	4/32	5410'-5418'	Frac w/25,257#s of 20/40 in 361 bbl of fluid
CP.5 sds 5259'-5266'	.49"	4/28	5259'-5266'	Frac w/ 25,324 #s of 20/40 in 351 bbl of fluid
LODC sds 4994'-5002'	.49"	4/32	4994'-5002'	Frac w/25,369 #s of 20/40 in 354 bbls of fluid
A1 sds 4859'-4864', A1 sds 4842'-4851'	.49"	4/56	4842'-4864'	Frac w/40,223#s of 20/40 in 398 bbls of fluid
GB4 sds 3877'-3888'	.49"	4/44	3877'-3888'	Frac w/ 38,701 #s 20/40 in 339 bbls of fluid

33.* PRODUCTION							
DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump)				WELL STATUS (Producing or shut-in)		
12/12/07	1-1/2" x 2-1/2"-12 x 15 1/2' RHAC SM Pump				PRODUCING		
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL--BBLs.	GAS--MCF.	WATER--BBL.	GAS-OIL RATIO
10 day ave			----->	112	202	122	145
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

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records  
 SIGNED Tammi Lee TITLE Production Technician DATE 1/2/2007  
 Tammi Lee

**RECEIVED**  
TEST WITNESSED BY  
**JAN 18 2008**

\*(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);

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
			Well Name Federal 6-24-9-16

38.

GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Garden Gulch Mkr	3409'	
Garden Gulch 1	3617'	
Garden Gulch 2	3728'	
Point 3 Mkr	3972'	
X Mkr	4241'	
Y-Mkr	4276'	
Douglas Creek Mkr	4396'	
BiCarbonate Mkr	4632'	
B Limestone Mkr	4738'	
Castle Peak	5246'	
Basal Carbonate	5678'	
Wasatch	0	
Total Depth (Loggers)	5758'	

# NEW FIELD



Well Name: Federal 6-24-9-16  
 LOCATION: S24, T9S, R16E  
 COUNTY/STATE: Duchesne  
 API: 43-013-32962

Spud Date: 11-2-07  
 TD: 5750'  
 CSG: 11-18-07  
 POP: 12-12-07

DATE	HRS	Oil (bbls)	Water (bbls)	Recovered Water (bbls)	Gas (mcf)	Casing Pressure (psi)	SPM	Comments
12/12/2007				1657				POP @ 2:30 P.M. w/ 80" SL @ 5 SPM. 1657 Total water to recover.
12/13/2007	16	70	23	1634	0	10	5	
12/14/2007	24	96	0	1634	35	20	5	
12/15/2007	24	20	118	1516	0	30	5	Drained 100 bbls from T1 to T3
12/16/2007	24	0	195	1321	0	45	5	
12/17/2007	24			1321	35	50	5	53 Total production
12/18/2007	24			1321	0	50	5	63 bbls total production
12/19/2007	24			1321	0	50	5	68 bbls total production
12/20/2007	24			1321	0	30	5	Lowered Rods
12/21/2007	24	70	0	1321	0	30	5	treater problems
12/22/2007	24	55	0	1321	0	30	5	Transferred 130 bw from T1 to WDI
12/23/2007	24	45	0	1321	0	30	5	
12/24/2007	24	35	0	1321	0	30	5	
12/25/2007	24	20	0	1321	0	30	4 1/2	
12/26/2007	24	0	0	1321	0	35	5	
12/27/2007	24	0	0	1321	0	35	5	Heat testing
12/28/2007	24			1321	0	40	5	21 Total production
12/29/2007	24			1321	0	40	5	71 Total production
12/30/2007	24			1321	64	40	5	58 Total production
12/31/2007	24	0	62	1259	64	55	5	
1/1/2008	24	0	60	1199	74	40	5	
1/2/2008	24	12	0	1199	0	30	5	
1/3/2008	24	0	0	1199	0	30	5	Lowered rods to tag
1/4/2008				1199				
1/5/2008				1199				
1/6/2008				1199				
1/7/2008				1199				
1/8/2008				1199				
1/9/2008				1199				
1/10/2008				1199				
1/11/2008				1199				
1/12/2008				1199				
		<b>423</b>	<b>458</b>		<b>272</b>			

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-15855
---	--

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
--	---

<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> FEDERAL 6-24-9-16
------------------------------------	--

<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY	<b>9. API NUMBER:</b> 43013329620000
--	---

<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052	<b>PHONE NUMBER:</b> 435 646-4825 Ext	<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
--	--	--

<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2093 FNL 2046 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENW Section: 24 Township: 09.0S Range: 16.0E Meridian: S	<b>COUNTY:</b> DUCHESNE  <b>STATE:</b> UTAH
---	---

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>10/17/2013</b>  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION  OTHER: <input type="text" value="OAP to Current Formation"/>

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

Newfield proposes to perforate and fracture stimulate from 3867'-4597' with in the current production formation (Green River)

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

**Date:** October 22, 2013

**By:** *Derek Quist*

<b>NAME (PLEASE PRINT)</b> Mandie Crozier	<b>PHONE NUMBER</b> 435 646-4825	<b>TITLE</b> Regulatory Tech
<b>SIGNATURE</b> N/A		<b>DATE</b> 10/17/2013

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-15855
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</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>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>1. TYPE OF WELL</b> Oil Well		<b>8. WELL NAME and NUMBER:</b> FEDERAL 6-24-9-16
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>9. API NUMBER:</b> 43013329620000
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052	<b>PHONE NUMBER:</b> 435 646-4825 Ext	<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2093 FNL 2046 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENW Section: 24 Township: 09.0S Range: 16.0E Meridian: S		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 10/21/2014  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input checked="" type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input checked="" type="checkbox"/> CONVERT WELL TYPE <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"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER <input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
<p>The subject well has been converted from a producing oil well to an injection well on 10/21/2014. On 10/20/2014 Richard Powell with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 10/21/2014 the casing was pressured up to 1631 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was a State representative available to witness the test - Bart Kettle.</p>		<p><b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY October 22, 2014</b></p>
<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A		<b>DATE</b> 10/22/2014

# Mechanical Integrity Test Casing or Annulus Pressure Test

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

Witness: BART KETTLE DOGM Date 10/21/14 Time 1:30 am pm

Test Conducted by: EVERETT LINN

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

Well: Federal 4-24-9-14 Field: Monument Butte  
Well Location: SE1/4 Sec 24 T9S R16E API No: 43-013-32962  
Duchesne County UT

<u>Time</u>	<u>Casing Pressure</u>	
0 min	<u>11029</u>	psig
5	<u>11030</u>	psig
10	<u>11030</u>	psig
15	<u>11030</u>	psig
20	<u>11031</u>	psig
25	<u>11031</u>	psig
30 min	<u>11031</u>	psig
35	_____	psig
40	_____	psig
45	_____	psig
50	_____	psig
55	_____	psig
60 min	_____	psig

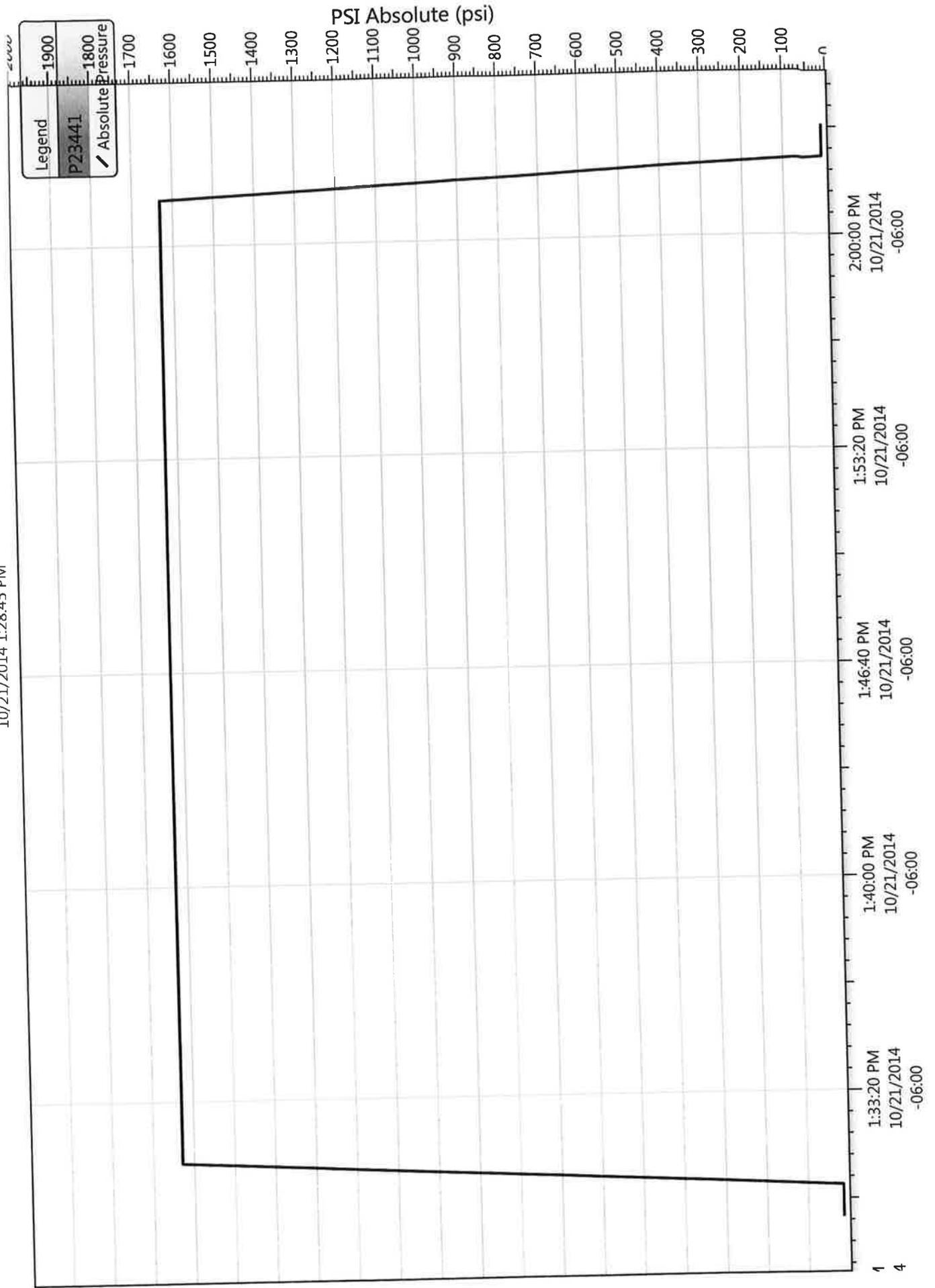
Tubing pressure: 0 psig

Result: Pass Fail

Signature of Witness: [Signature]

Signature of Person Conducting Test: [Signature]

Federal 6-24-9-16 (10/21/2014, conv. MIT)  
10/21/2014 1:28:45 PM





Well Name: Federal 6-24-9-16

### Job Detail Summary Report

Sundry Number: 56961 API Well Number: 43013329620000

Jobs		Job Start Date	Job End Date
Primary Job Type		10/16/2014	10/21/2014
Conversion			

Daily Operations			
Report Start Date	Report End Date	24hr Activity Summary	
10/16/2014	10/16/2014	MIRU	
Start Time	14:00	End Time	15:15
Start Time	15:15	End Time	15:45
Start Time	15:45	End Time	16:15
Start Time	16:15	End Time	16:30
Start Time	16:30	End Time	18:00
Start Time	18:00	End Time	19:30
Report Start Date	Report End Date	24hr Activity Summary	
10/17/2014	10/17/2014	POOH	
Start Time	05:30	End Time	07:00
Start Time	07:00	End Time	08:15
Start Time	08:15	End Time	09:30
Start Time	09:30	End Time	15:00
Start Time	15:00	End Time	16:15
Start Time	16:15	End Time	17:00
Start Time	17:00	End Time	18:30
Report Start Date	Report End Date	24hr Activity Summary	
10/20/2014	10/20/2014	pt tbg and fish s.v. nd bop set packer and pt csg	
Start Time	05:30	End Time	07:00
Start Time	07:00	End Time	09:30

Comment
SPOT RIG, RU RIG
UNHANG RODS AND HORSES HEAD
UNSEAT PUMP AND PULL HIGH, FLUSH RODS WITH 40 BBLS WATER
SOFT SEAT AND PT TBG TO 3000 PSI. GOOD TEST
POOH WITH 144 RODS LAYING DOWN ON TRAILER. PU POLISHED ROD AND SWIFN, CLEAN LOCATION, SDFN
Travel time
"pooh with rods, nu bop and pooh with tbg breaking and doping collars"
LD POLISHED ROD AND FINISH POOH WITH RODS LD ON TRAILER
RD FLOW LINE, ND WH, RELEASE TAC, FUNCTION TEST AND NU BOP, RU WORK FLOOR
POOH WITH TBG BREAKING EVERY CONNECTION, CLEANING THREADS AND INSPECTING FOR DAMAGE, APPLY LIQUID O RING AND RETORQUE TO APPLY LIQUID O RING AND RETORQUE TO SPEC. TALLY OUT. LD 55 JNTS EXCESS TBG FROM BOTTOM OF STRING.
PU/MU PACKER ASSY AND TIH WITH 120 JNTS TBG
PUMP 10 BBLS PAD AND DROP S.V. PUMP TO PSN AND PRESSURE UP TBG TO 3000 PSI. START TIMER, FAILED TEST, BUMP UP AND SWIF WEEKEND. SWIFN, CLEAN LOCATION, SDFN.
Travel time
Travel time
Travel time
Travel time
CHECK TBG PRESSURE, 1350 PSI, BUMP UP AND RETEST, FAILED TEST, RETEST, FINALLY GOT A GOOD TBG TEST



Well Name: Federal 6-24-9-16

### Job Detail Summary Report

Start Time	09:30	End Time	10:15	Comment
Start Time	10:15	End Time	10:45	Comment
Start Time	10:45	End Time	11:30	Comment
Start Time	11:30	End Time	11:45	Comment
Start Time	11:45	End Time	17:00	Comment
Start Time	17:00	End Time	18:30	Comment
Report Start Date	10/21/2014	Report End Date	10/21/2014	24hr Activity Summary
Start Time	05:30	End Time	07:00	Comment
Start Time	07:00	End Time	10:30	Comment
Start Time	10:30	End Time	11:30	Comment
Start Time	11:30	End Time	12:00	Comment

RU SANDLINE AND FISHING TOOLS. RIH WITH SANDLINE TO CATCH S.V. POOH WITH SANDLINE AND S.V.

RD WORK FLOOR, ND BOP, LAND TBG ON WH, NU WH.

RU HOT OILER TO CSG, PUMP 50 BBLs PACKER FLUID DOWN CSG.

ND WH, SET PACKER AND PACK OFF. LAND TBG IN 16K TENSION, NU WH

FILL CSG AND PRESSURE UP TO 1400 PSI, START TIMER, CHECK CSG PRESSURE EVERY 5 MINUTES, FAILED TEST AFTER FAILED TEST, BUMP UP AND RETEST, NEVER GOT A GOOD TEST. CSG HAD RISEN 50 PSI FIRST TEST, AND 20 PSI ON THE LAST TEST OF THE DAY. SWIFN, CLEAN LOCATION, SDFN.

Travel time

PT CSG. CONDUCT MIT

CHECK CSG PRESSURE, 1600 PSI, START TIMER, GOT A GOOD CSG TEST. CALL MIT AND WAIT FOR HIM TO SHOW UP, RU MIT AND START TEST, FAILED THE FIRST TEST, 2ND TEST WAS SUCCESSFUL. GOOD TEST. On 10/20/2014 Richard Powell with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 10/21/2014 the casing was pressured up to 1631 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was a State representative available to witness the test - Bart Kettle.

RD RIG, RACK OUT WINCH TRUCK AND TOOLS. PREP TO MOVE RIG.

ROAD RIG TO THE 8-24-9-16.

**NEWFIELD**

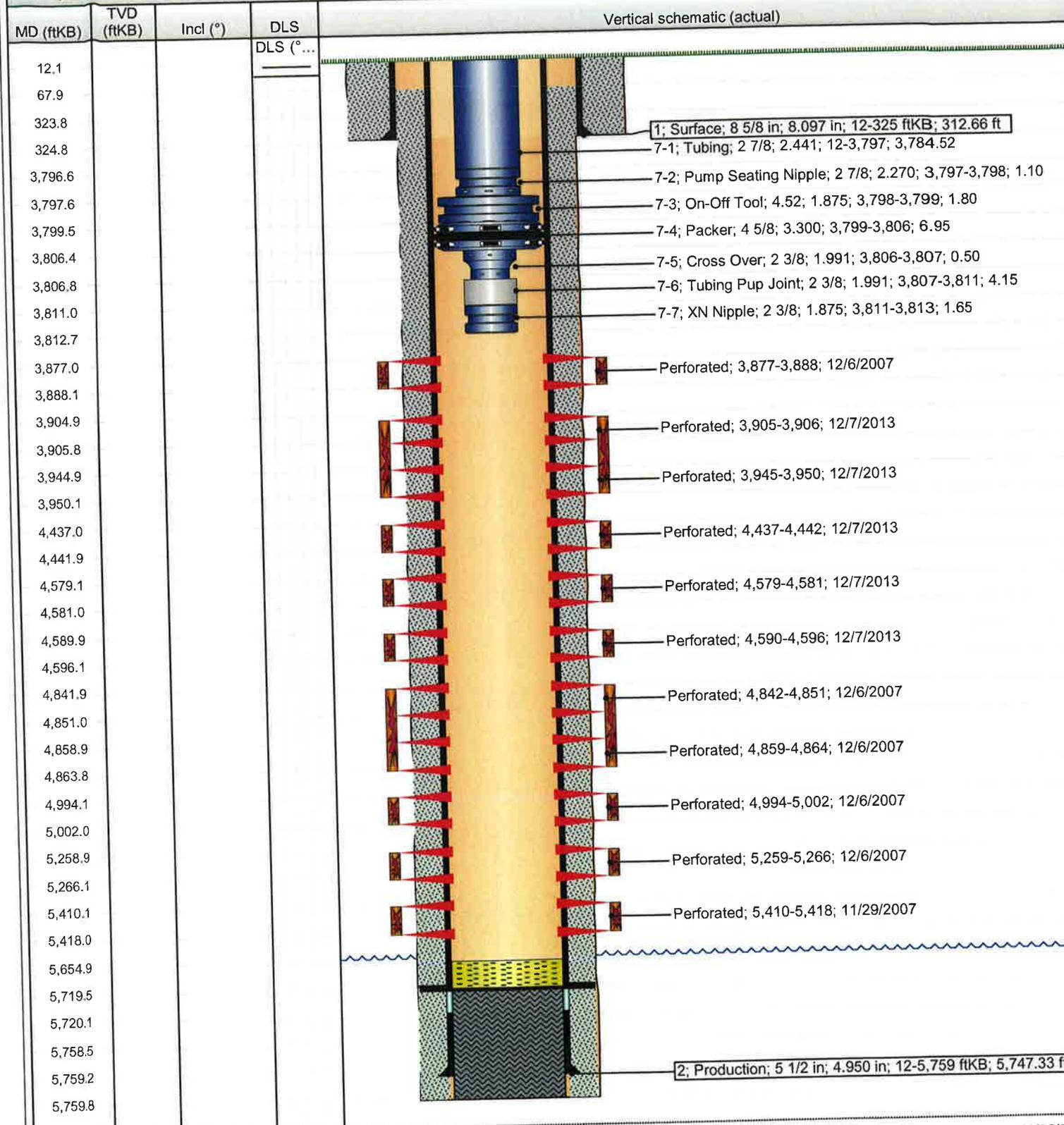
**Schematic**

**Well Name: Federal 6-24-9-16**

Surface Legal Location 24-9S-16E		API/UWI 43013329620000	Well RC 500158994	Lease	State/Province Utah	Field Name GMBU CTE6	County DUCHESNE
Spud Date 11/2/2007	Rig Release Date 11/18/2007	On Production Date 12/12/2007	Original KB Elevation (ft) 5,623	Ground Elevation (ft) 5,611	Total Depth All (TVD) (ftKB)	PBTD (All) (ftKB) Original Hole - 5,719.5	

<b>Most Recent Job</b>			
Job Category Production / Workover	Primary Job Type Conversion	Secondary Job Type Basic	Job Start Date 10/16/2014
		Job End Date 10/21/2014	

**TD: 5,760.0** Vertical - Original Hole, 10/22/2014 7:45:14 AM



# NEWFIELD

## Newfield Wellbore Diagram Data Federal 6-24-9-16



Surface Legal Location 24-9S-16E		API/UWI 43013329620000		Lease	
County DUCHESNE		State/Province Utah		Field Name GMBU CTB6	
Well Start Date 11/2/2007		Spud Date 11/2/2007		Final Rig Release Date 11/18/2007	
Original KB Elevation (ft) 5,623		Ground Elevation (ft) 5,611		Total Depth (ftKB) 5,760.0	
				Total Depth All (TVD) (ftKB) Original Hole - 5,719.5	

Casing Strings						
Csg Des	Run Date	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	Set Depth (ftKB)
Surface	11/2/2007	8 5/8	8.097	24.00	J-55	325
Production	11/18/2007	5 1/2	4.950	15.50	J-55	5,759

Cement				
String: Surface, 325ftKB 11/5/2007				
Cementing Company	Top Depth (ftKB)	Bottom Depth (ftKB)	Full Return?	Vol Cement Ret (bbl)
BJ Services Company	12.0	324.7		
Fluid Description	Fluid Type	Amount (sacks)	Class	Estimated Top (ftKB)
2% CaCL2 + 1/4#/sk Cello-Flake	Lead	160	G	12.0

String: Production, 5,759ftKB 11/18/2007				
Cementing Company	Top Depth (ftKB)	Bottom Depth (ftKB)	Full Return?	Vol Cement Ret (bbl)
BJ Services Company	68.0	5,760.0		
Fluid Description	Fluid Type	Amount (sacks)	Class	Estimated Top (ftKB)
10% gel + 3% KCL, 5#s /sk CSE + 2# sk/kolseal + 1/2#s/sk Cello Flake	Lead	300	Prem-lite II	68.0
Fluid Description	Fluid Type	Amount (sacks)	Class	Estimated Top (ftKB)
2% Gel + 3% KCL, .5%EC1, 1/4# sk C.F. 2% gel. 3% SM	Tail	400	50/50 POZ	2,841.0

Tubing Strings								
Tubing Description				Run Date	Set Depth (ftKB)			
Tubing				10/16/2014	3,812.7			
Item Des	Jts	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btn (ftKB)
Tubing	120	2 7/8	2.441	6.50	J-55	3,784.52	12.0	3,796.5
Pump Seating Nipple	1	2 7/8	2.270			1.10	3,796.5	3,797.6
On-Off Tool	1	4.515	1.875			1.80	3,797.6	3,799.4
Packer	1	4 5/8	3.300			6.95	3,799.4	3,806.4
Cross Over	1	2 3/8	1.991			0.50	3,806.4	3,806.9
Tubing Pup Joint	1	2 3/8	1.991			4.15	3,806.9	3,811.0
XN Nipple	1	2 3/8	1.875			1.65	3,811.0	3,812.7

Rod Strings							
Rod Description				Run Date	Set Depth (ftKB)		
Item Des	Jts	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btn (ftKB)

Other In Hole				
Des	Top (ftKB)	Btn (ftKB)	Run Date	Pull Date
Fill	5,655	5,719	9/1/2009	

Perforation Intervals							
Stage#	Zone	Top (ftKB)	Btn (ftKB)	Shot Dens (shots/ft)	Phasing (%)	Norm Hole Dia (in)	Date
5	GB4, Original Hole	3,877	3,888	4	120	0.490	12/6/2007
6	GB4 NEW, Original Hole	3,905	3,906	2	180	0.340	12/7/2013
6	GB6, Original Hole	3,945	3,950	2	180	0.340	12/7/2013
6	D1, Original Hole	4,437	4,442	3	180	0.340	12/7/2013
6	C, Original Hole	4,579	4,581	2	120	0.340	12/7/2013
6	C, Original Hole	4,590	4,596	2	180	0.340	12/7/2013
4	A1, Original Hole	4,842	4,851	4	120	0.490	12/6/2007
4	A1, Original Hole	4,859	4,864	4	120	0.490	12/6/2007
3	LODC, Original Hole	4,994	5,002	4	120	0.490	12/6/2007
2	CP .5, Original Hole	5,259	5,266	4	120	0.490	12/6/2007
1	CP3, Original Hole	5,410	5,418	4	120	0.490	11/29/2007

Stimulations & Treatments							
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	2,055	0.81	23.2	2,661			
2	2,035	0.82	23.1	2,890			
3	3,198	1.07	23.3	3,308			
4	2,132	0.87	23.1	2,455			
5	1,632	0.85	23.2	1,748			
6	1,659	0.82					

**NEWFIELD**

**Newfield Wellbore Diagram Data  
Federal 6-24-9-16**



Stimulations & Treatments							
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)
6	1,758	0.84					
7	1,745	0.85					
8	1,639	0.87					

Proppant		
Stage#	Total Prop Vol Pumped (lb)	Total Add Amount
1		Proppant White Sand 25257 lb
2		Proppant White Sand 25324 lb
3		Proppant White Sand 25369 lb
4		Proppant White Sand 40223 lb
5		Proppant White Sand 38701 lb
6		Proppant White Sand 15000 lb
6		Proppant White Sand 7300 lb
7		Proppant White Sand 17100 lb
8		Proppant White Sand 61840 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>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-15855	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)	<b>8. WELL NAME and NUMBER:</b> FEDERAL 6-24-9-16
<b>1. TYPE OF WELL</b> Water Injection Well	<b>9. API NUMBER:</b> 43013329620000
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY	<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052	<b>PHONE NUMBER:</b> 435 646-4825 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2093 FNL 2046 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENW Section: 24 Township: 09.0S Range: 16.0E Meridian: S	<b>COUNTY:</b> DUCHESNE  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 12/17/2014	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input checked="" type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input checked="" type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

The above reference well was put on injection at 8:00 AM on 12/17/2014.

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
 FOR RECORD ONLY  
 December 23, 2014**

<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 12/23/2014	



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

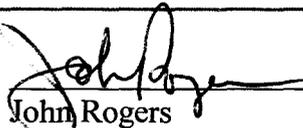
Cause No. UIC-425

**Operator:** Newfield Production Company  
**Well:** Federal 6-24-9-16  
**Location:** Section 24, Township 9 South, Range 16 East  
**County:** Duchesne  
**API No.:** 43-013-32962  
**Well Type:** Enhanced Recovery (waterflood)

### Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on September 23, 2014.
2. Maximum Allowable Injection Pressure: 1,613 psig
3. Maximum Allowable Injection Rate: (restricted by pressure limitation)
4. Injection Interval: Green River Formation (3,729' – 5,720').
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

12/10/2014  
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\Newfield





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

September 23, 2014

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

Subject: Greater Monument Butte Unit Well: Federal 6-24-9-16, Section 24, Township 9 South, Range 16 East, SLBM, Duchesne County, Utah, API Well # 43-013-32962

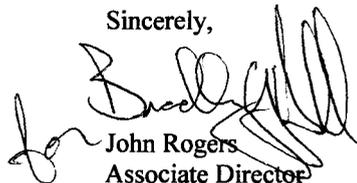
Newfield Production Company:

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 3,729 feet in the Federal 6-24-9-16 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 6-24-9-16

**Location:** 24/9S/16E      **API:** 43-013-32962

**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 325 feet and has a cement top at the surface. A 5½ inch production casing is set at 5,750 feet. The cement bond log is somewhat problematic but appears to demonstrate adequate bond in this well up to about 2,870 feet or higher. A 2 7/8 inch tubing with a packer is proposed to be set at 3,827 feet. Higher perforations will be opened at a later date. A mechanical integrity test will be run on the well prior to injection. At the time of this revision (12/12/2014), based on surface locations, there are 9 producing wells and 5 injection wells in the AOR. In addition, there are 2 directionally drilled producing wells with surface locations outside the AOR and bottom hole locations inside the AOR. Finally, there are 3 approved surface locations inside the AOR for directional wells to be drilled to bottom hole locations outside the AOR and 3 approved surface locations outside the AOR for bottom hole locations inside the AOR. All 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 1700 feet. Injection shall be limited to the interval between 3,729 feet and 5,720 feet in the Green River Formation. Information submitted by Newfield indicates that the fracture gradient for the 6-24-9-16 well is 1.00 psi/ft., which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 1,613 psig. The requested maximum pressure is 1,613 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 6-24-9-16**

**page 2**

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

**Bonding:** Bonded with the BLM

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

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

Reviewer(s): Mark Reinbold Date: 9/18/2014 (revised 12/12/2014)

4770 S. 5600 W.  
 P.O. BOX 704005  
 WEST VALLEY CITY, UTAH 84170  
 FED. TAX ID.# 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 TEMPLE STE 1210 P.O. BOX 145801 SALT LAKE CITY, UT 84114	9001402352	7/25/2014

RECEIVED  
 JUL 30 2014

ACCOUNT NAME	
DIV OF OIL, GAS & MINING	
TELEPHONE	ADORDER# / INVOICE#
8015385340	0000972678 /
SCHEDULE	
Start 07/25/2014	End 07/25/2014
CUST. REF. NO.	
UIC-425	
CAPTION	
BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NAT	
SIZE	
63 Lines	2.00 COLUMN
TIMES	RATE
3	
MISC. CHARGES	AD CHARGES
TOTAL COST	
216.68	

BEFORE THE DIVISION OF OIL, GAS AND MINING  
 DEPARTMENT OF NATURAL RESOURCES  
 STATE OF UTAH  
 NOTICE OF AGENCY ACTION  
 CAUSE NO. UIC-425

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 18, 22, AND 24, 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:**  
 Monument Federal 42-18-9-16Y well located in SE/4 NE/4, Section 18, Township 9 South, Range 16 East  
 API 43-013-31724  
 Federal 10-22-9-16 well located in NW/4 SE/4, Section 22, Township 9 South, Range 16 East  
 API 43-013-33166  
 Federal 6-24-9-16 well located in SE/4 NW/4, Section 24, Township 9 South, Range 16 East  
 API 43-013-32962

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, of P.O. Box 145801, Salt Lake City, UT 84114-5801, phone number (801) 538-3340. 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 22nd day of July, 2014.

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

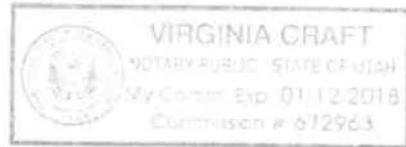
AFFIDAVIT OF PUBLICATION

AS NEWSPAPER AGENCY COMPANY, LLC dba MEDIAONE OF UTAH LEGAL BOOKER, I CERTIFY THAT THE ATTACHED ADVERTISEMENT OF **BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH NOTICE OF AGENCY ACTION CAUSE NO. UIC-425 IN THE MATTER OF THE APPLICA** FOR **DIV OF OIL-GAS & MINING**, WAS PUBLISHED BY THE NEWSPAPER AGENCY COMPANY, LLC dba MEDIAONE OF UTAH, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET NEWS, DAILY NEWSPAPERS PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN UTAH, AND PUBLISHED IN SALT LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH. NOTICE IS ALSO POSTED ON UTAHLEGALS.COM ON THE SAME DAY AS THE FIRST NEWSPAPER PUBLICATION DATE AND REMAINS ON UTAHLEGALS.COM INDEFINITELY. COMPLIES WITH UTAH DIGITAL SIGNATURE ACT UTAH CODE 46-2-101; 46-3-104

PUBLISHED ON Start 07/25/2014 End 07/25/2014

SIGNATURE 

DATE 7/25/2014



Virginia Craft  
 NOTARY SIGNATURE

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

# AFFIDAVIT OF PUBLICATION

County of Duchesne,  
STATE OF UTAH

I, Kevin Ashby on oath, say that I am the PUBLISHER of the Uintah Basin Standard, a weekly newspaper of general circulation, published at Roosevelt, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue such newspaper for 1 consecutive issues, and that the first publication was on the 22 day of July, 2014, and that the last publication of such notice was in the issue of such newspaper dated the 21 day of July, 2014, and that said notice was published on Utahlegals.com on the same day as the first newspaper publication and the notice remained on Utahlegals.com until the end of the scheduled run.

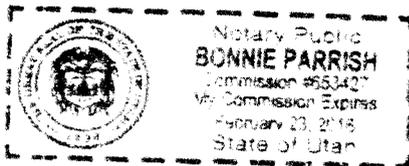
Kevin Ashby  
Publisher

Subscribed and sworn to before me on this

29 day of July, 2014

by Kevin Ashby.

Bonnie Parrish  
Notary Public



## BEFORE THE DIVISION OF OIL, GAS AND MINING, DEPART- MENT OF NATURAL RESOURCES, STATE OF UTAH NOTICE OF AGENCY ACTION CAUSE NO. **UIC-425**

IN THE MAT-  
TER OF THE  
APPLICATION  
OF NEWFIELD  
PRODUCTION  
COMPANY FOR  
ADMINISTRATIVE  
APPROVAL OF  
CERTAIN WELLS  
LOCATED IN SEC-  
TIONS 18, 22, AND  
24, TOWNSHIP 9  
SOUTH, RANGE 16  
EAST, DUCHESNE  
COUNTY, UTAH,  
AS CLASS II INJEC-  
TION WELLS.

THE STATE OF  
UTAH TO ALL PER-  
SONS INTERESTED  
IN THE ABOVE  
ENTITLED MAT-  
TER.

Notice is hereby  
given that the Divi-  
sion of Oil, Gas and  
Mining (the "Divi-  
sion") is commencing  
an informal adjudi-  
cative proceeding  
to consider the ap-  
plication of Newfield  
Production Company,  
1001 17th Street,  
Suite 2000, Denver,  
Colorado 80202, tele-  
phone 303-893-0102,  
for administrative

Continued on next page

Continued from  
previous page

approval of the fol-  
lowing wells located  
in Duchesne County,  
Utah, for conversion  
to Class II injection  
wells.

Greater Monument  
Butte Unit.

Monument Federal  
42-18-9-16Y well  
located in SE 4 NE 4,  
Section 18, Township  
9 South, Range 16  
East

API 43-013-31724  
Federal 10-22-9-16  
well located in NW 4  
SE 4, Section 22,  
Township 9 South,  
Range 16 East

API 43-013-33166  
Federal 6-24-9-16  
well located in SE 4  
NW 4, Section 24,  
Township 9 South,  
Range 16 East

API 43-013-32962  
The proceeding  
will be conducted in  
accordance with Utah  
Admin. R649-10,  
Administrative Proce-  
dures.

Selected zones  
in the Green River  
Formation will be  
used for water injec-  
tion. The maximum  
requested injection  
pressures and rates  
will be determined  
based on fracture  
gradient informa-  
tion 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 22nd day of July, 2014.

STATE OF UTAH  
DIVISION OF  
OIL, GAS & MINING

S/  
Brad Hill  
Permitting Man-

ager  
Published in the  
Utah Basin Standard July 29, 2014

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-425

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

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

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

Greater Monument Butte Unit:

Monument Federal 42-18-9-16Y well located in SE/4 NE/4, Section 18, Township 9 South, Range 16 East  
API 43-013-31724

Federal 10-22-9-16 well located in NW/4 SE/4, Section 22, Township 9 South, Range 16 East  
API 43-013-33166

Federal 6-24-9-16 well located in SE/4 NW/4, Section 24, Township 9 South, Range 16 East  
API 43-013-32962

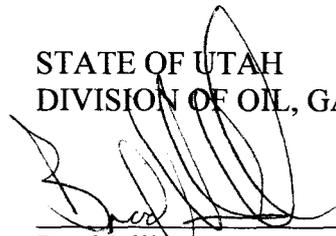
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Selected zones in the Green River Formation will be used for water injection. The maximum requested injection pressures and rates will be determined based on fracture gradient information submitted by Newfield Production Company.

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 22<sup>nd</sup> day of July, 2014.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING



Brad Hill  
Permitting Manager

**NEWFIELD PRODUCTION COMPANY**

**MONUMENT FEDERAL 42-18-9-16Y,  
FEDERAL 10-22-9-16,  
FEDERAL 6-24-9-16**

**Cause No. UIC-425**

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

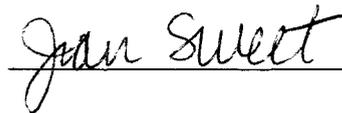
Uintah Basin Standard  
268 South 200 East  
Roosevelt, UT 84066  
Via e-mail [ubslegals@ubmedia.biz](mailto:ubslegals@ubmedia.biz)

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

July 23, 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-425

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 Production Company Cause No. UIC-425**

1 message

**Cindy Kleinfelter** <ckleinfelter@ubmedia.biz>  
To: Jean Sweet <jsweet@utah.gov>

Thu, Jul 24, 2014 at 2:52 PM

On 7/23/2014 11:20 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

Received. It will be published July 29.  
Thank you.  
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

July 23, 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-425

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 #0000972678-01**

<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	mfultz

<b>Total Amount</b>	<b>\$216.68</b>	<b>Tear Sheets</b>	<b>Proofs</b>	<b>Affidavits</b>
<b>Payment Amt</b>	<b>\$0.00</b>			
<b>Amount Due</b>	<b>\$216.68</b>	0	0	1
<b>Payment Method</b>		<b>PO Number</b>	UIC-425	

**Confirmation Notes:**  
Text: Jean

<b>Ad Type</b>	<b>Ad Size</b>	<b>Color</b>
Legal Liner	2.0 X 63 Li	<NONE>

<b>Product</b>	<b>Placement</b>	<b>Position</b>
Salt Lake Tribune::	Legal Liner Notice - 0998	Public Meeting/Hear-ing Notices
<b>Scheduled Date(s):</b>	7/25/2014	
<b>Product</b>	<b>Placement</b>	<b>Position</b>
Deseret News::	Legal Liner Notice - 0998	Public Meeting/Hear-ing Notices
<b>Scheduled Date(s):</b>	7/25/2014	
<b>Product</b>	<b>Placement</b>	<b>Position</b>
utahlegals.com::	utahlegals.com	utahlegals.com
<b>Scheduled Date(s):</b>	7/25/2014	

**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-425**

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 18, 22, AND 24, 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 injector wells:

**Greater Monument Butte Unit**  
Mormont Federal 42-18-9-16Y well located in SE/4 NE/4, Section 18, Township 9 South, Range 16 East  
API 43-013-31724  
Federal 10-22-9-16 well located in NW/4 SE/4, Section 22, Township 9 South, Range 16 East  
API 43-013-33166  
Federal 6-24-9-16 well located in SE/4 NW/4, Section 24, Township 9 South, Range 16 East  
API 43-013-32962

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

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

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Brad Hill, Permitting Manager, at P.O. Box 145801, Salt Lake City, UT 84114-5801, phone number (801) 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 22nd day of July, 2014.

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

972678

UPAXLP

**NEWFIELD**



**RECEIVED**

**JUL 08 2014**

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

**Newfield Exploration Company**

1001 17th Street | Suite 2000

Denver, Colorado 80202

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

July 3, 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 #6-24-9-16  
Monument Butte Field, Lease #UTU-15855  
Section 24-Township 9S-Range 16E  
Duchesne County, Utah

Dear Mr. Reinbold:

Newfield Production Company herein requests approval to convert the Federal #6-24-9-16 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,

  
Jill L. Loyle  
Regulatory Associate



**NEWFIELD PRODUCTION COMPANY**  
**APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL**  
**FEDERAL #6-24-9-16**  
**MONUMENT BUTTE FIELD (GREEN RIVER) FIELD**  
**LEASE #UTU-15855**  
**JULY 3, 2014**

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STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR INJECTION WELL - UIC FORM 1

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

Well Name and number: Federal #6-24-9-16  
Field or Unit name: Monument Butte (Green River) Lease No. UTU-15855  
Well Location: QQ SENW section 24 township 9S range 16E county Duchesne

Is this application for expansion of an existing project? ..... Yes  No   
Will the proposed well be used for: Enhanced Recovery? ..... Yes  No   
Disposal? ..... Yes  No   
Storage? ..... Yes  No   
Is this application for a new well to be drilled? ..... Yes  No   
If this application is for an existing well,  
has a casing test been performed on the well? ..... Yes  No   
Date of test: \_\_\_\_\_  
API number: 43-013-32962

Proposed injection interval: from 3729 to 5720  
Proposed maximum injection: rate 500 bpd pressure 1613 psig  
Proposed injection zone contains [x] oil, [ ] gas, and/or [ ] fresh water within 1/2  
mile of the well.

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

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

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

Name: Jill L Loyle Signature   
Title: Regulatory Associate Date: 3.9.14  
Phone No. 303-383-4135

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

Comments:

# FEDERAL 6-24-9-16

Spud Date: 11/02/07  
 Put on Production: 12/12/07  
 GL: 5611' KB: 5623'

Initial Production: BOPD,  
 MCFD, BWPD

## Proposed Injection Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (312.81')  
 DEPTH LANDED: 324.66' 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: 149 jts. (5761.33')  
 DEPTH LANDED: 5750' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP: 68'

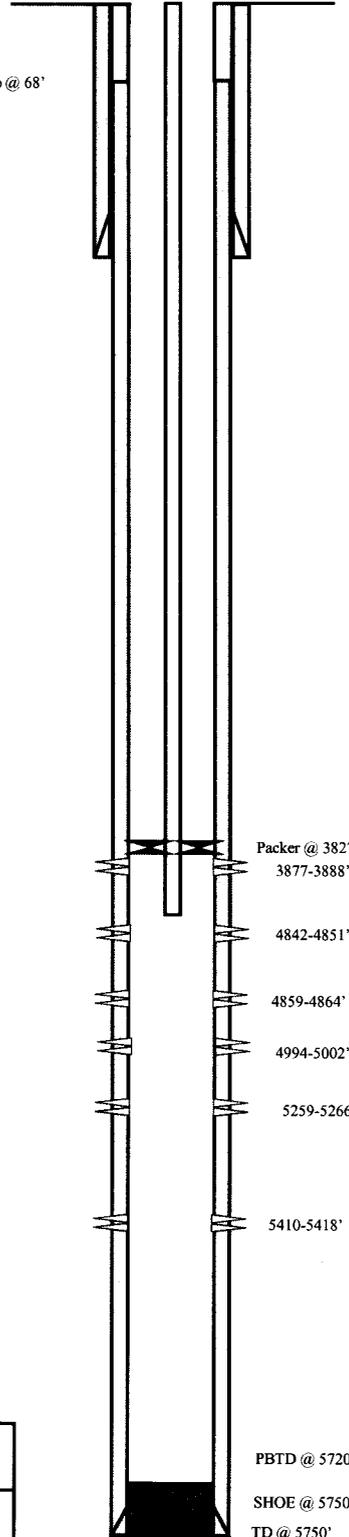
### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 172 jts (5400')  
 TUBING ANCHOR: 5399.5' KB  
 NO. OF JOINTS: 1 jts (32.6')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5434.9' KB  
 NO. OF JOINTS: 2 jts (62.9')  
 TOTAL STRING LENGTH: EOT @ 5499' KB

### FRAC JOB

12/06/07	5410-5418'	<b>Frac CP3 sands as follows:</b> 25257# 20/40 sand in 361 bbls Lightning 17 frac fluid. Treated @ avg press of 2391 psi w/avg rate of 23.1 BPM. ISIP 2055 psi. Calc flush: 5408 gal. Actual flush: 4906 gal.
12/06/07	5259-5266'	<b>Frac CP.5 sands as follows:</b> 25324# 20/40 sand in 351 bbls Lightning 17 frac fluid. Treated @ avg press of 2677 psi w/avg rate of 23.1 BPM. ISIP 2035 psi. Calc flush: 5257 gal. Actual flush: 4754 gal.
12/06/07	4994-5002'	<b>Frac LODC sands as follows:</b> 25369# 20/40 sand in 354 bbls Lightning 17 frac fluid. Treated @ avg press of 3093 psi w/avg rate of 23.2 BPM. ISIP 3198 psi. Calc flush: 4992 gal. Actual flush: 4490 gal.
12/06/07	4842-4864'	<b>Frac A1 sands as follows:</b> 40223# 20/40 sand in 398 bbls Lightning 17 frac fluid. Treated @ avg press of 2114 psi w/avg rate of 23.1 BPM. ISIP 2132 psi. Calc flush: 4840 gal. Actual flush: 4326 gal.
12/06/07	3877-3888'	<b>Frac GB4 sands as follows:</b> 38701# 20/40 sand in 339 bbls Lightning 17 frac fluid. Treated @ avg press of 1497 psi w/avg rate of 23.2 BPM. ISIP 1632 psi. Calc flush: 3875 gal. Actual flush: 3822 gal.
4/3/09		Tubing Leak. Updated r & t details.
9/3/09		Tubing Leak. Updated rod & tubing details.
10/16/2010		Tubing Leak. Update rod and tubing details.

Cement Top @ 68'



### PERFORATION RECORD

11/29/07	5410-5418'	4 JSPF	32 holes
12/06/07	5259-5266'	4 JSPF	28 holes
12/06/07	4994-5002'	4 JSPF	32 holes
12/06/07	4859-4864'	4 JSPF	20 holes
12/06/07	4842-4851'	4 JSPF	36 holes
12/06/07	3877-3888'	4 JSPF	44 holes

**NEWFIELD**

---

**FEDERAL 6-24-9-16**  
 2039'FNL & 2046' FWL  
 SE/NW Section 24-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-32962; Lease # UTU-15855

## **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 #6-24-9-16 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 #6-24-9-16 well, the proposed injection zone is from Garden Gulch to Basal Carbonate (3729' - 5720'). 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 3407' and the TD is at 5750'.

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

The referenced log for the Federal #6-24-9-16 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-15855) 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 325' KB, and 5-1/2", 15.5# casing run from surface to 5750' 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 1613 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 #6-24-9-16, for existing perforations (3877' - 5418') calculates at 1.00 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 1613 psig. We may add additional perforations between 3407' and 5750'. 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 #6-24-9-16, the proposed injection zone (3729' - 5720') 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-13.

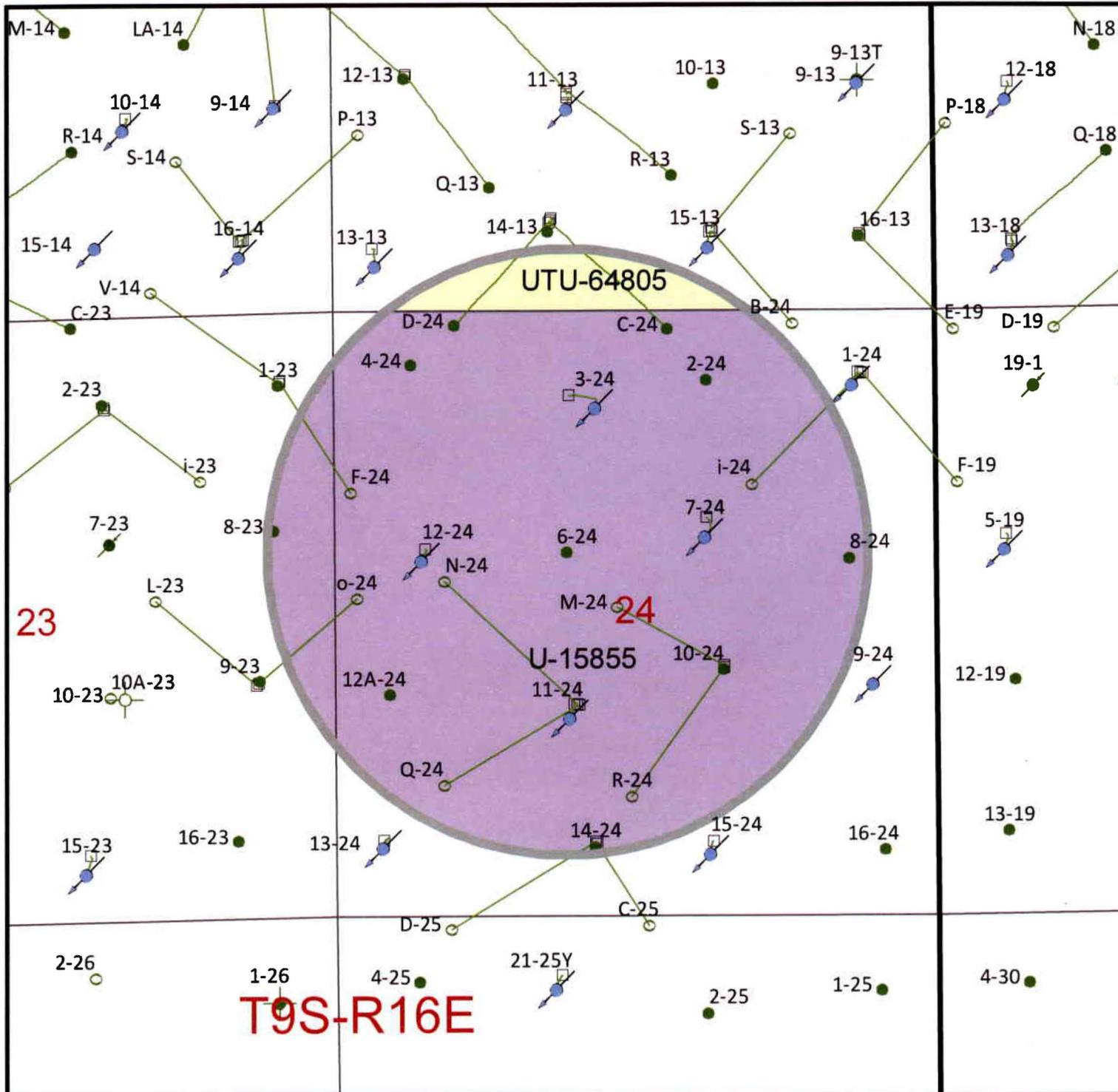
Additionally, the injection system will be equipped with high and low pressure shut down devices that will automatically shut in injection waters if a system blockage or leakage occurs. One way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure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

**2.12 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\_num**

- U-15855
- UTU-64805

**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

23

24

T9S-R16E

Federal 6-24-9-16  
Section 24, T9S-R16E

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

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

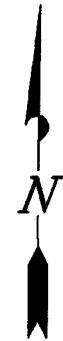
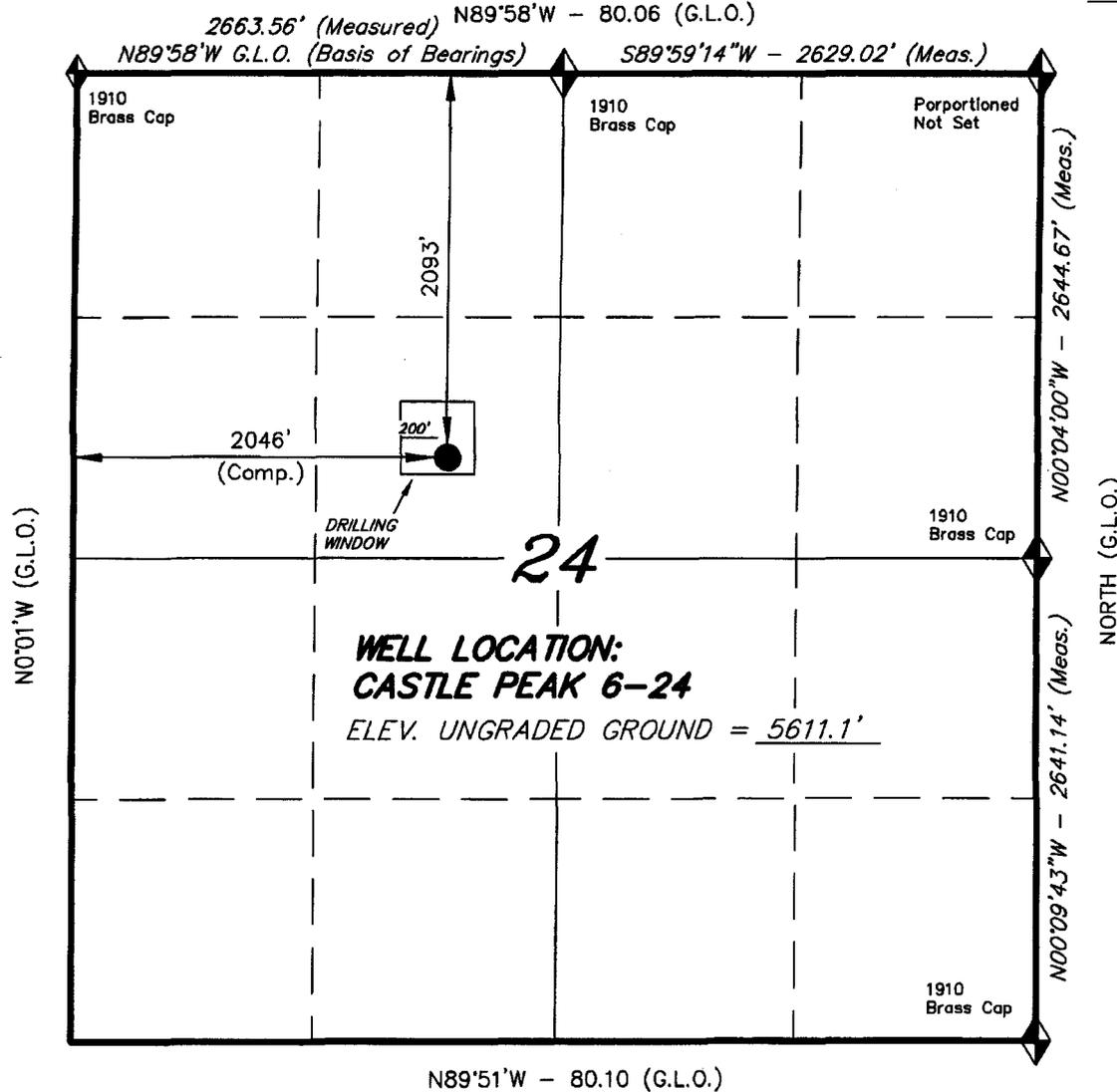
1001 17th Street Suite 2000  
Denver, Colorado 80202  
Phone: (303) 893-0102

March 13, 2014

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

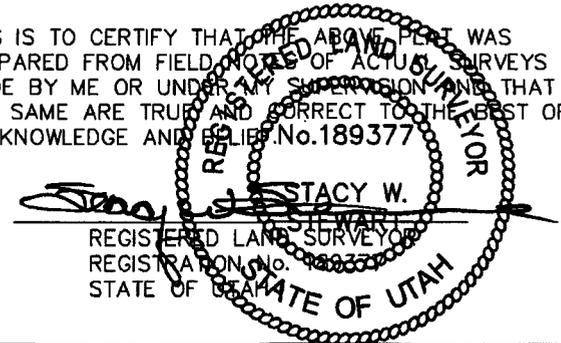
## NEWFIELD PRODUCTION COMPANY

WELL LOCATION, CASTLE PEAK 6-24,  
LOCATED AS SHOWN IN THE SE 1/4 NW  
1/4 OF SECTION 24, T9S, R16E,  
S.L.B.&M. DUCHESNE COUNTY, UTAH.



**Note:**  
The Proposed Well head bears  
N16°25'09"E 2181.55' from the North  
1/4 Corner of Section 24.

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



◆ = SECTION CORNERS LOCATED

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

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

SCALE: 1" = 1000'	SURVEYED BY: D.P.
DATE: 10-3-05	DRAWN BY: F.T.M.
NOTES:	FILE #

**EXHIBIT B**

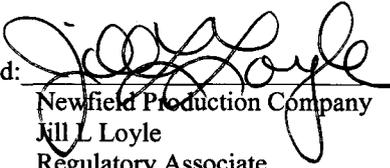
<b>#</b>	<b>Legal Description</b>	<b>Lessor &amp; Expiration</b>	<b>Lessee &amp; Operating Rights</b>	<b>Surface Owner</b>
1	T9S-16E SLM Section 23: E2, NW, E2SW, NWSW Section 24: N2, SW, N2SE, SWSE	USA UTU-15855 HBP	Newfield Production Company Newfield RMI LLC Bee Hive Oil LLC Journey Properties LLC King Oil & Gas of Texas LTD Six Gold Oil LLC Stone Energy Corp	USA
2	T9S-R16E SLM Section 13: NWNE, NENW, S2N2, S2	USA UTU-64805 HBP	Newfield Production Company Newfield RMI LLC ABO Petro Corp MYCO Industries Inc OXY Y-1 Company Yates Petroleum Corp	USA

ATTACHMENT C

CERTIFICATION FOR SURFACE OWNER NOTIFICATION

RE: Application for Approval of Class II Injection Well  
Federal #6-24-9-16

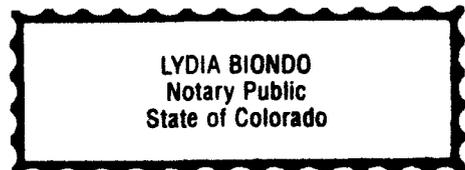
I hereby certify that a copy of the injection application has been provided to all surface owners within a one-half mile radius of the proposed injection well.

Signed:   
Newfield Production Company  
Jill L. Loyle  
Regulatory Associate

Sworn to and subscribed before me this 3<sup>rd</sup> day of July, 2014.

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

My Commission Expires: 12/31/15



## FEDERAL 6-24-9-16

Spud Date: 11/02/07  
 Put on Production: 12/12/07  
 GL: 5611' KB: 5623'

Initial Production: BOPD,  
 MCFD, BWPD

### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (312.81')  
 DEPTH LANDED: 324.66' 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: 149 jts. (5761.33')  
 DEPTH LANDED: 5750' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP: 68'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 172 jts (5400')  
 TUBING ANCHOR: 5399.5' KB  
 NO. OF JOINTS: 1 jts (32.6')  
 SEATING NIPPLE: 2-7/8" (1.10")  
 SN LANDED AT: 5434.9' KB  
 NO. OF JOINTS: 2 jts (62.9')  
 TOTAL STRING LENGTH: EOT @ 5499' KB

#### SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM polished rods  
 SUCKER RODS: 1-4' x 3/4" pony rods, 99-3/4" guided rods, 45-3/4" guided rods, 66-3/4" guided rods, 6-1 1/2" weight rods.  
 PUMP SIZE: CDI 2-1/2" x 1-1/2" x 12x 18"  
 SPM 82"  
 PUMP SPEED, 4 SPM:

#### FRAC JOB

12/06/07	5410-5418'	<b>Frac CP3 sands as follows:</b> 25257# 20/40 sand in 361 bbls Lightning 17 frac fluid. Treated @ avg press of 2391 psi w/avg rate of 23.1 BPM. ISIP 2055 psi. Calc flush: 5408 gal. Actual flush: 4906 gal.
12/06/07	5259-5266'	<b>Frac CP.5 sands as follows:</b> 25324# 20/40 sand in 351 bbls Lightning 17 frac fluid. Treated @ avg press of 2677 psi w/avg rate of 23.1 BPM. ISIP 2035 psi. Calc flush: 5257 gal. Actual flush: 4754 gal.
12/06/07	4994-5002'	<b>Frac LODC sands as follows:</b> 25369# 20/40 sand in 354 bbls Lightning 17 frac fluid. Treated @ avg press of 3093 psi w/avg rate of 23.2 BPM. ISIP 3198 psi. Calc flush: 4992 gal. Actual flush: 4490 gal.
12/06/07	4842-4864'	<b>Frac A1 sands as follows:</b> 40223# 20/40 sand in 398 bbls Lightning 17 frac fluid. Treated @ avg press of 2114 psi w/avg rate of 23.1 BPM. ISIP 2132 psi. Calc flush: 4840 gal. Actual flush: 4326 gal.
12/06/07	3877-3888'	<b>Frac GB4 sands as follows:</b> 38701# 20/40 sand in 339 bbls Lightning 17 frac fluid. Treated @ avg press of 1497 psi w/avg rate of 23.2 BPM. ISIP 1632 psi. Calc flush: 3875 gal. Actual flush: 3822 gal.
4/3/09		Tubing Leak. Updated r & t details.
9/3/09		Tubing Leak. Updated rod & tubing details.
10/16/2010		Tubing Leak. Update rod and tubing details.

Cement Top @ 68'

SN 5430'

3877-3888'  
 4842-4851'  
 4859-4864'  
 4994-5002'  
 5259-5266'  
 Anchor @ 5400'  
 5410-5418'  
 EOT @ 5499'  
 PBTD @ 5720'  
 SHOE @ 5750'  
 TD @ 5750'

#### PERFORATION RECORD

11/29/07	5410-5418'	4 JSPF	32 holes
12/06/07	5259-5266'	4 JSPF	28 holes
12/06/07	4994-5002'	4 JSPF	32 holes
12/06/07	4859-4864'	4 JSPF	20 holes
12/06/07	4842-4851'	4 JSPF	36 holes
12/06/07	3877-3888'	4 JSPF	44 holes

**NEWFIELD**

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**FEDERAL 6-24-9-16**

2039'FNL & 2046' FWL  
 SE/NW Section 24-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-32962; Lease # UTU-15855

## FEDERAL 2-24-9-16

Spud Date: 10/11/07  
 Put on Production: 10/16/07  
 GL: 5559' KB: 5571'

Initial Production: BOPD,  
 MCFD, BWPD

### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (310.63')  
 DEPTH LANDED: 322.48' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 1- 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: 148 jts. (5720.99')  
 DEPTH LANDED: 5734.24' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP: 40'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 173 jts (5543.7')  
 TUBING ANCHOR: 5555.65' KB  
 NO. OF JOINTS: 1 jts (30.9')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5577.4' KB  
 NO. OF JOINTS: 1 jts (31.6')  
 2 7/8" NC (.45")  
 TOTAL STRING LENGTH: EOT @ 5611' KB

#### SUCKER RODS

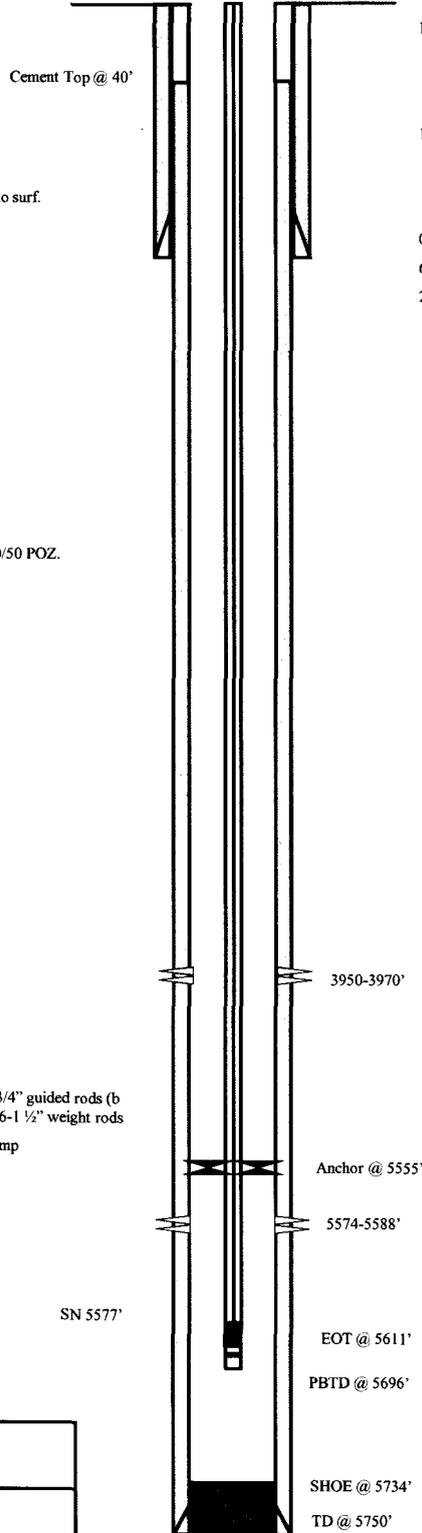
POLISHED ROD: 1-1/2" x 26' SM polished rods  
 SUCKER RODS: 1-8", 2-12", 1-2", 2-6" x 3/4" pony rods, 100-3/4" guided rods (b grd), 76-3/4" plain rods (b grd), 20-3/4" guided rods (a grd), 6-1 1/2" weight rods  
 PUMP SIZE: CDI 2-1/2" x 1-1/2" x 12' x 16' 'RHAC rod pump  
 STROKE LENGTH: 76"  
 PUMP SPEED, 4.5 SPM:

#### FRAC JOB

11/09/07	5574-5588'	<b>Frac CPS sands as follows:</b> 75968# 20/40 sand in 619 bbls Lightning 17 frac fluid. Treated @ avg press of 1986 psi w/avg rate of 23.2 BPM. ISIP 2173 psi. Calc flush: 5572 gal. Actual flush: 4998 gal.
11/09/07	3950-3970'	<b>Frac GB6 sands as follows:</b> 151571# 20/40 sand in 1011 bbl Lightning 17 frac fluid. Treated @ avg press of 1593 psi w/avg rate of 23.1 BPM. ISIP 1775 psi. Calc flush: 3948 gal. Actual flush: 3864 gal.
05/29/08		Pump change. Updated rod and tubing detail
6/11/08		pump change. Updated rod and tubing detail
2/4/2011		Pump Change. Update rod and tubing details.

#### PERFORATION RECORD

11/09/07	5574-5588'	4 JSPF	56 holes
11/09/07	3950-3970'	4 JSPF	80 holes



**NEWFIELD**

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**FEDERAL 2-24-9-16**

595' FNL & 2010' FEL

NW/NE Section 24-T9S-R16E

Duchesne Co, Utah

API #43-013-33083; Lease # UTU-15855

## Federal 3-24-9-16

Spud Date: 10-13-07  
 Put on Production: 11-21-07  
 GL: 5605' KB: 5617'

Initial Production: 56.4 BOPD,  
 25.0 MCFD, 34.3 BWPD

### Injection Wellbore Diagram

#### SURFACE CASING

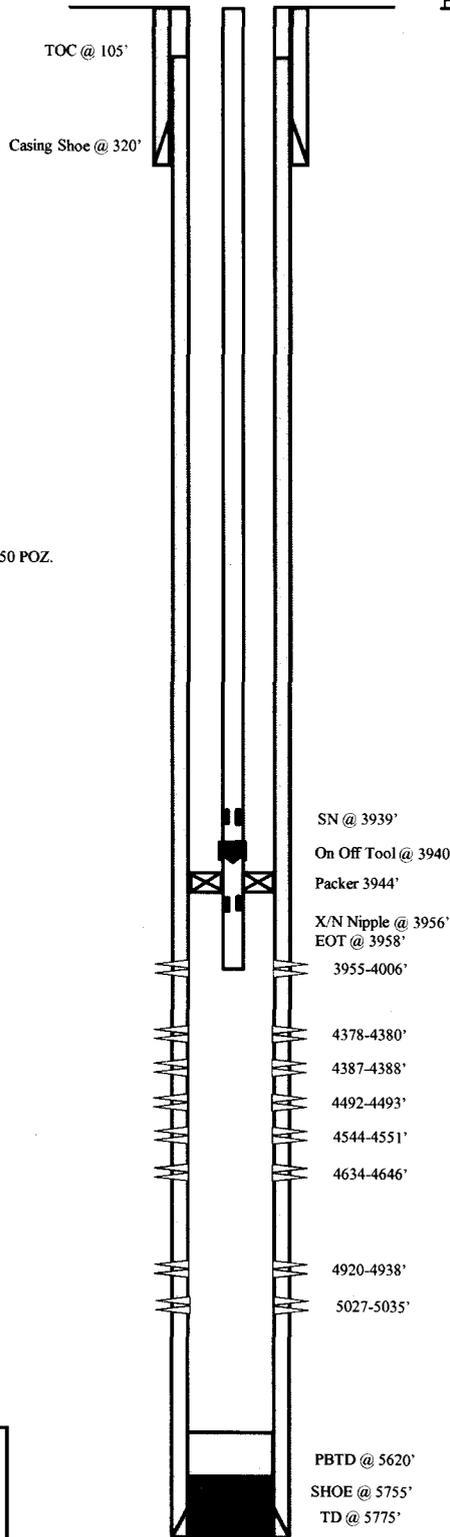
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (311')  
 DEPTH LANDED: 320'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 148 jts. (5741.47') Includes Shoe Jt. (39.25')  
 HOLE SIZE: 7-7/8"  
 DEPTH LANDED: 5754.72'  
 CEMENT DATA: 300 sk Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP AT: 105'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 125 jts (3927.1')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 3939.1' KB  
 ON/OFF TOOL AT: 3940.2'  
 ARROW #1 PACKER CE AT: 3944.09'  
 XO 2-3/8 x 2-7/8 J-55 AT: 3948.9'  
 TBG PUP 2-3/8 J-55 AT: 3949.9'  
 X/N NIPPLE AT: 3956.1'  
 TOTAL STRING LENGTH: EOT @ 3958'



#### FRAC JOB

11-7-07	5027-5035'	<b>Frac LODC sands as follows:</b> 15,380# 20/40 sand in 274 bbls Lightning 17 fluid. Treat at 3260 psi @ 22.5 BPM. ISIP 2956 psi. Calc flush: 5025 gal. Actual flush: 4519 gal.
11-16-07	4920-4938'	<b>Frac A1 sands as follows:</b> 90,793# 20/40 sand in 690 bbls Lightning 17 fluid. Treat at 2002 psi @ 24.75 BPM. ISIP 2240 psi. Calc flush: 4918 gal. Actual flush: 4414 gal.
11-16-07	4634-4646'	<b>Frac C sands as follows:</b> Frac with 49,940 # 20/40 sand in 449 bbls Lightning 17 fluid. Treat at 1978 psi @ 24.8 BPM. ISIP 1897 psi. Calc flush: 4632 gal. Actual flush: 4129 gal.
11-16-07	4544-5441'	<b>Frac D2 sand as follows:</b> Frac with 14,138# 20/40 sand in 261 bbls Lightning 17 fluid. Treat at 2280psi @ 24.9 BPM. ISIP 1934 psi. Calc flush: 4542 gal. Actual flush: 3952 gal.
11-16-07	3995-4006'	<b>Frac GB-6 sands as follows:</b> Frac with 38,509# 20/40 sand in 377 bbls Lightning 17 fluid. Treat at 1729 psi @ 24.8 BPM. ISIP 1934 psi. Calc flush: 3993 gal. Actual flush: 4032 gal.
7/6/09		<b>Major Workover.</b> Updated rod & tubing detail.
5/4/2010		<b>Tubing leak.</b> Updated rod and tubing detail.
6/9/2011		<b>Tubing leak.</b> Updated rod & tubing detail.
10/08/12	4378-4493'	<b>Frac D1 &amp; DS1 sands as follows:</b> Frac with 29832# 20/40 sand in 362 bbls Lightning 17 fluid.
10/09/12		<b>Convert to Injection Well</b>
10/12/12		<b>Conversion MIT Finalized</b> - update tbg detail

#### PERFORATION RECORD

3995-4006'	4 JSPF	44 holes
4544-4551'	4 JSPF	28 holes
4634-4646'	4 JSPF	48 holes
4920-4938'	4 JSPF	72 holes
5027-5035'	4 JSPF	32 holes
10/04/12	4492-4493'	3 JSPF 3 holes
10/04/12	4387-4388'	3 JSPF 3 holes
10/04/12	4378-4380'	3 JSPF 6 holes

**NEWFIELD**

Federal 3-24-9-16  
 722' FNL & 2063' FWL  
 NENW Section 24-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33084; Lease #UTU-15855

## FEDERAL 4-24-9-16

Spud Date: 12/12/07  
 Put on Production: 02/26/08  
 GL: 5613' KB: 5625'

Initial Production: BOPD,  
 MCFD, BWPD

### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (304.16')  
 DEPTH LANDED: 316.01' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 1- 160, sxs Class "G" cmt, est 3 bbls cmt to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 134 jts. (5745.08')  
 DEPTH LANDED: 5758.33' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP: 84'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 169 jts (5298.24')  
 TUBING ANCHOR: 5310.24' KB  
 NO. OF JOINTS: 2 jts (62.78')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5375.82' KB  
 NO. OF JOINTS: 2 jts (62.76')  
 TOTAL STRING LENGTH: EOT @ 5440.13' KB

#### SUCKER RODS

POLISHED ROD: 1-1/2" x 26' SM polished rods  
 SUCKER RODS: 1 - 3/4" x 2' Pony Rod, 1 - 3/4" x 4' Pony Rod, 1 - 3/4" x 6' Pony Rod, 99 - 3/4" Guided Rods, 89 - 3/4" Plain Rods, 20 - 3/4" Guided Rods, 6 - 1 1/2" weight bars  
 PUMP SIZE: CDI 2 1/2" x 1 1/2" x 12 x 19 1/2" RHAC  
 STROKE LENGTH: 102"  
 PUMP SPEED: 5 SPM

#### FRAC JOB

02/21/08 5350-5360' **Frac CPI sands as follows:**  
 19538# 20/40 sand in 318 bbls Lightning 17 frac fluid. Treated @ avg press of 2319 psi w/avg rate of 23.0 BPM. ISIP 2169 psi.

02/21/08 5062-5068' **Frac LODC sands as follows:**  
 14448# 20/40 sand in 267 bb Lightning 17 frac fluid. Treated @ avg press of 2913 psi w/avg rate of 23.1 BPM. ISIP 3354 psi.

02/21/08 4936-4947' **Frac A3, sands as follows:**  
 79356# 20/40 sand in 628 bbls Lightning 17 frac fluid. Treated @ avg press of 2038 psi w/avg rate of 23.1 BPM. ISIP 2069 psi.

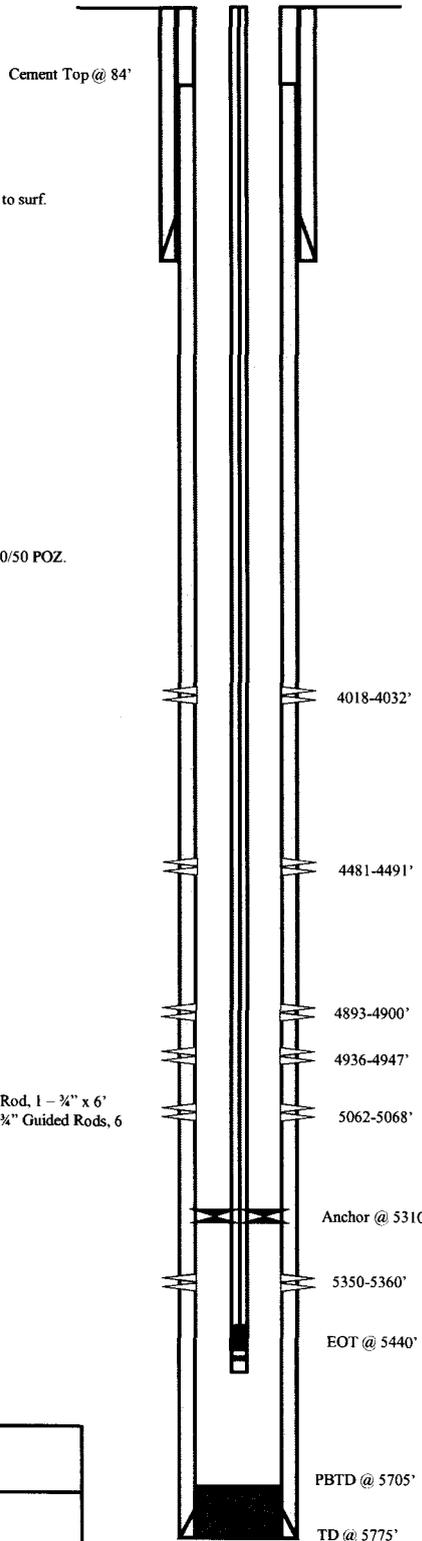
02/21/08 4893-4900' **Frac A1 sands as follows:**  
 79356# 20/40 sand in 628 bbls Lightning 17 frac fluid. Treated @ avg press of 2038 psi w/avg rate of 23.1 BPM. ISIP 2069 psi.

02/21/08 4481-4491' **Frac D1 sands as follows:**  
 54904# 20/40 sand in 482 bbls Lightning 17 frac fluid. Treated @ avg press of 2070 psi w/avg rate of 23.1 BPM. ISIP 2153 psi.

02/21/08 4018-4032' **Frac GB6 sands as follows:**  
 74458# 20/40 sand in 594 bbls Lightning 17 frac fluid. Treated @ avg press of 2125 psi w/avg rate of 23.1 BPM. ISIP 1788 psi.

#### PERFORATION RECORD

Date	Interval	Tool	Holes
02/21/08	5350-5360'	4 JSPF	40 holes
02/21/08	5062-5068'	4 JSPF	24 holes
02/21/08	4936-4947'	4 JSPF	44 holes
02/21/08	4893-4900'	4 JSPF	28 holes
02/23/08	4481-4491'	4 JSPF	40 holes
02/23/08	4018-4032'	4 JSPF	56 holes



**NEWFIELD**

**FEDERAL 4-24-9-16**

462' FNL & 679' FWL  
 NW/NW Section 24-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33004; Lease # UTU-15855

## FEDERAL 7-24-9-16

Spud Date: 10/08/07  
 Put on Production: 11/29/07  
 GL: 5582' KB: 5594'

### Injection Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (312.36')  
 DEPTH LANDED: 320.63' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 1- 160, sxs Class "G" cmt, 7 bbls cmt to surf.

#### PRODUCTION CASING

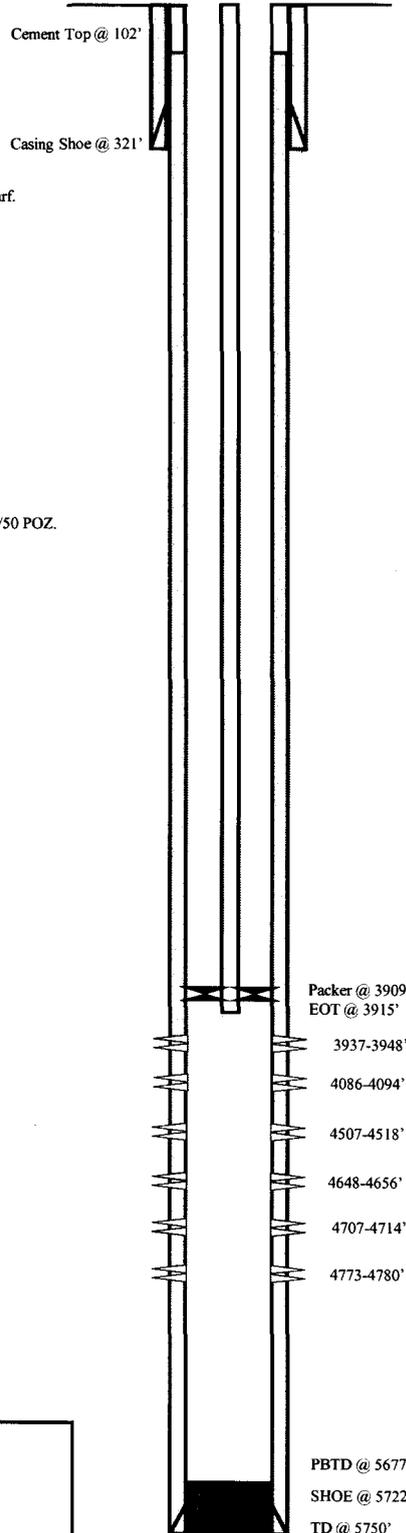
CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 133 jts. (5708.82')  
 DEPTH LANDED: 5722.07' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP: 102'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 130 jts (3891.9')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 3903.9' KB  
 ON/OFF TOOL AT: 3905.0'  
 PACKER CE @ 3909.59'  
 XN NIPPLE: 3914'  
 TOTAL STRING LENGTH: EOT @ 3915' KB

#### FRAC JOB

11/28/07	4773-4780'	<b>Frac A.5 sands as follows:</b> 17251# 20/40 sand in 275 bbls Lightning 17 frac fluid. Treated @ avg press of 2409 psi w/avg rate of 23 BPM. ISIP 2414 psi. Calc flush: 4771 gal. Actual flush: 4326 gal.
11/28/07	4707-4714'	<b>Frac B2 sands as follows:</b> 14724# 20/40 sand in 259 bbl Lightning 17 frac fluid. Treated @ avg press of 2302 psi w/avg rate of 23 BPM. ISIP 2046 psi. Calc flush: 4705 gal. Actual flush: 4242 gal.
11/28/07	4648-4656'	<b>Frac B1 sands as follows:</b> 34965# 20/40 sand in 404 bbls Lightning 17 frac fluid. Treated @ avg press of 2302 psi w/avg rate of 23 BPM. ISIP 2285 psi. Calc flush: 4646 gal. Actual flush: 4200 gal.
11/28/07	4507-4518'	<b>Frac D3 sands as follows:</b> 19882# 20/40 sand in 289 bbls Lightning 17 frac fluid. Treated @ avg press of 2096 psi w/avg rate of 23 BPM. ISIP 1854 psi. Calc flush: 4505 gal. Actual flush: 3990 gal.
11/28/07	4086-4094'	<b>Frac PB8 sands as follows:</b> 39746# 20/40 sand in 382 bbls Lightning 17 frac fluid. Treated @ avg press of 2344 psi w/avg rate of 23 BPM. ISIP 2153 psi. Calc flush: 4084 gal. Actual flush: 3612 gal
11/28/07	3937-3948'	<b>Frac GB6 sands as follows:</b> 9438# 20/40 sand in 219 bbls Lightning 17 frac fluid. Treated @ avg press of 2045 psi w/avg rate of 23 BPM. ISIP 1931 psi. Calc flush: 3935 gal. Actual flush: 3864 gal
7/17/08		<b>Pump Change.</b> Updated rod and tubing detail
9/16/09		<b>Pump Change.</b> Updated rod & tubing details.
1/14/10		<b>Tubing Leak.</b> Updated rod and tubing detail.
07/03/12		<b>Convert to Injection Well</b>
07/10/12		<b>Conversion MIT Finalized</b> - update tbg detail



#### PERFORATION RECORD

4773-4780'	4 JSPF	28 holes
4707-4714'	4 JSPF	28 holes
4648-4656'	4 JSPF	32 holes
4507-4518'	4 JSPF	44 holes
4086-4094'	4 JSPF	32 holes
3937-3948'	4 JSPF	44 holes

**NEWFIELD**

**FEDERAL 7-24-9-16**

1790' FNL & 2019' FEL

SW/NE Section 24-T9S-R16E

Duchesne Co, Utah

API #43-013-33085; Lease # UTU-15855

## FEDERAL 8-24-9-16

Spud Date: 2/25/08  
Put on Production: 4/18/08

Initial Production: BOPD,  
MCFD, BWPD

GL: 5603' KB: 5615'

### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 8 jts  
DEPTH LANDED: 333'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: To surface with 160 sx Class "G" cmt

Cement Top @ 40'

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 137 jts  
DEPTH LANDED: 5739'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 275 sx Premlite II and 400 sx 50/50 Poz  
CEMENT TOP: 40'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 166 jts (5216.48')  
TUBING ANCHOR: 5228.48' KB  
NO. OF JOINTS: 1 jts (31.42')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5262.70' KB  
NO. OF JOINTS: 2 jts (62.90')  
TOTAL STRING LENGTH: EOT @ 5327.15' KB

#### SUCKER RODS

POLISHED ROD: 1-1/2" x 26' polished rods  
SUCKER RODS: 1-4" x 3/4" pony sub, 97-3/4" guided rods, 87-3/4" slick rods, 20-3/4" guided rods, 6-1 1/2" weight rods.  
PUMP SIZE: CDI 2-1/2" x 1-1/2" x 16x 18" RHAC  
STROKE LENGTH: 102'  
PUMP SPEED, SPM: 5

#### FRAC JOB

4/1/08 5272-5278' **Frac CP.5 sds as follows:**  
15,319# 20/40 sand in 284 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2126 psi @ ave rate of 23.3 BPM. ISIP 2956 psi. Actual Flush: 4750 gal.

4/1/08 4693-4702' **Frac B1 sds as follows:**  
60,062# 20/40 sand in 502 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1779 psi @ ave rate of 23.5 BPM. ISIP 1884 psi. Actual Flush: 4179 gal.

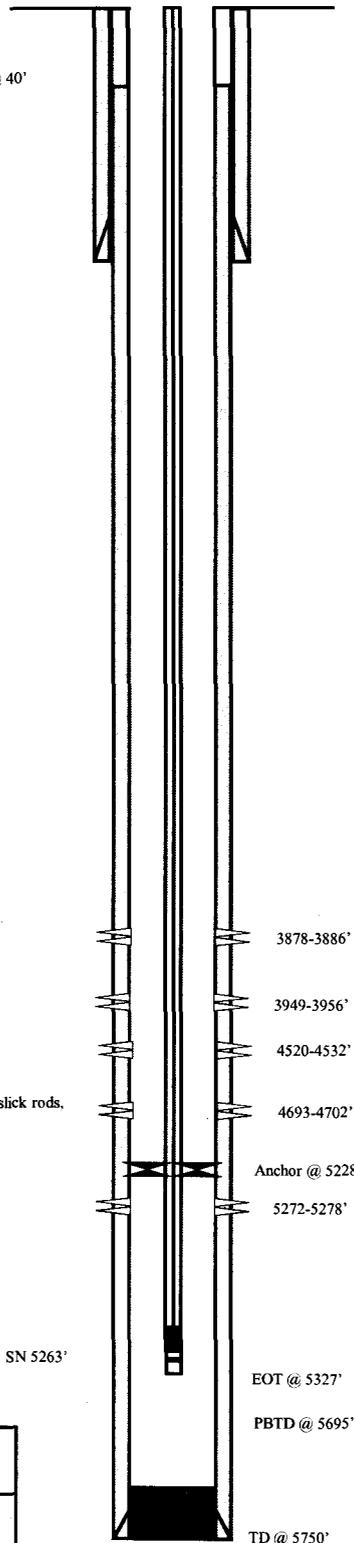
4/1/08 4520-4532' **Frac D2 sds as follows:**  
35,229 20/40 sand in 407 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2972 psi @ ave rate of 21.1 BPM. ISIP 2107 psi. Actual Flush: 3986

4/1/08 3949-3956' **Frac GB6 sds as follows:**  
29,694# 20/40 sand in 367 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1808 psi @ ave rate of 23.5 BPM. ISIP 1640 psi. Actual Flush: 3486 gal.

4/1/08 3878-3886' **Frac CB2 sds as follows:**  
31,997#s of 20/40 sand in 369 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1932 psi @ ave rate of 23.5 BPM. ISIP 1618 psi. Actual Flush: 3822 gal.

#### PERFORATION RECORD

4/1/08	3878-3886'	4 JSPF	32 holes
4/1/08	3949-3956'	4 JSPF	28 holes
4/1/08	4520-4532'	4 JSPF	48 holes
4/1/08	4693-4702'	4 JSPF	36 holes
3/31/08	5272-5278'	4 JSPF	24 holes



**NEWFIELD**

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**FEDERAL 8-24-9-16**

2148' FNL & 763' FEL

SE/NE Section 24-T9S-R16E

Duchesne Co, Utah

API #43-013-33086; Lease # UTU-15855

## Federal 10-24-9-16

Spud Date: 02/28/08  
 Put on Production: 4/03/08  
 GL: 5619' KB: 5631'

### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (308.08')  
 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: 132jts. (5761.15')  
 HOLE SIZE: 7-7/8"  
 DEPTH LANDED: 5730.96'  
 CEMENT DATA: 275 sk Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP AT: 120'

#### TUBING

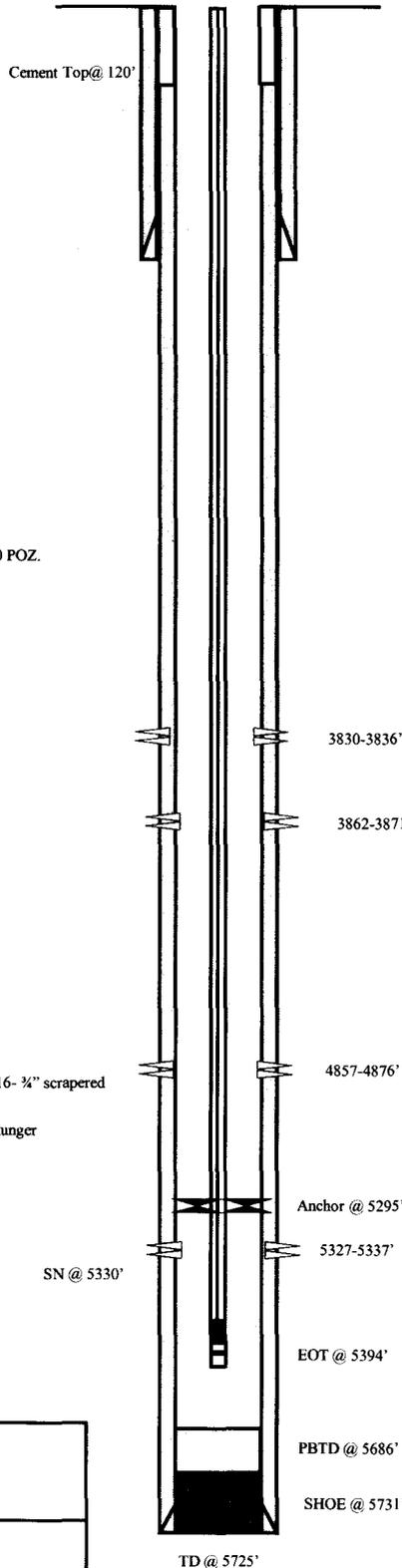
SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 168 jts (5283.44')  
 TUBING ANCHOR: 5295.44'  
 NO. OF JOINTS: 1 jts (31.49')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5329.73' KB  
 NO. OF JOINTS: 2 jts (62.63')  
 TOTAL STRING LENGTH: EOT @ 5393.91' w/12' KB

#### SUCKER RODS

POLISHED ROD: 1-1/2" x 26'  
 SUCKER RODS: 1-2", 1-4", 1-6", 1-8" x 3/4" pony rods "B", 216- 3/4" scraped "B" rods, 6- 1 1/2" weight "B" rods  
 PUMP SIZE: 2-1/2" x 1-1/2" 12' x 18' RHAC pump w/ SM plunger  
 STROKE LENGTH: 86"  
 PUMP SPEED, SPM: 4

#### FRAC JOB

3-28-08	5327-5337'	<b>Frac CP2 sands as follows:</b> Frac with 35352# 20/40 sand in 424bbls Lightning 17 fluid. Treat with ave pressure of 1894 psi @ 23.4 BPM. ISIP 1833 psi.
3-28-08	4857-4876'	<b>Frac A3 sands as follows:</b> Frac with 120384# 20/40 sand in 867 bbls Lightning 17 fluid. Treat with ave pressure of 1747psi @ 26 BPM. ISIP 2031psi.
3-28-08	3830-3836'	<b>Frac GB2 &amp; CB4 sands as follows:</b> Frac with 18427# 20/40 sand in 269 bbls Lightning 17 fluid. Treat with ave pressure of 1791psi @ 23.4 BPM. ISIP 1700 psi.
9/3/09		Pump change. Updated rod & tubing details.



#### PERFORATION RECORD

3830-3836'	4 JSPF	24 holes
3862-3871'	4 JSPF	36 holes
4857-4876'	4 JSPF	76 holes
5327-5337'	4 JSPF	40 holes

**NEWFIELD**



**Federal 10-24-9-16**  
 2138' FSL & 1861' FEL  
 NWSE Section 24 -T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33339; Lease #UTU-15855

Spud Date: 1/28/08  
 Put on Production: 03/27/08  
 GL: 5524' KB: 5536'

## Federal 11-24-9-16

### Injection Wellbore Diagram

#### SURFACE CASING

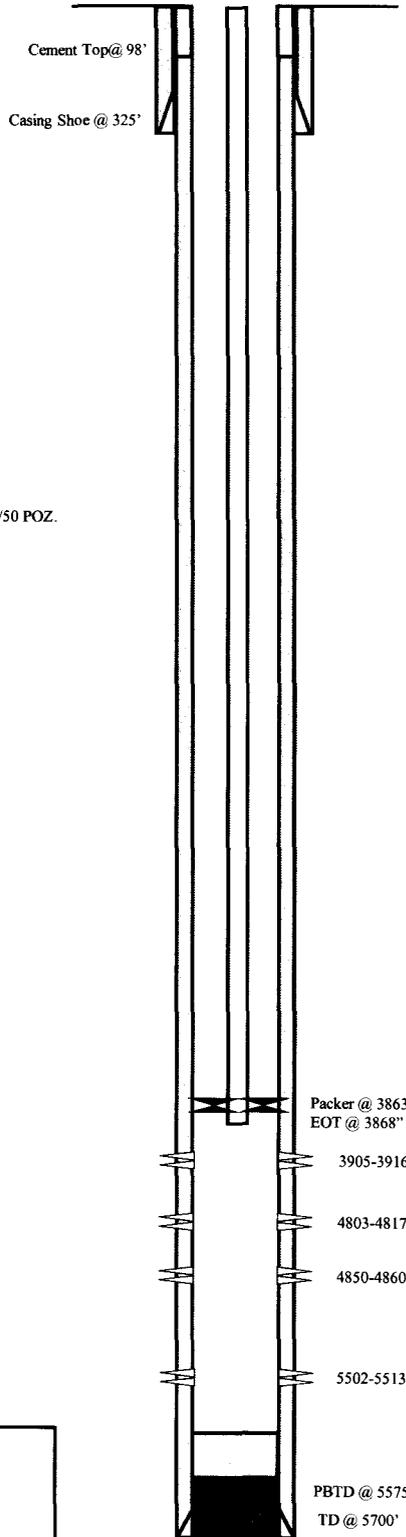
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (324.53')  
 DEPTH LANDED: 325'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 134jts. (5713') Includes Shoe Jt. (42.35')  
 HOLE SIZE: 7-7/8"  
 DEPTH LANDED: 5683.90'  
 CEMENT DATA: 300 sk Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP AT: 98'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 122 jts (3845.2')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 3857.2' KB  
 ON/OFF TOOL: 2-7/8" @ 3858.3'  
 X NIPPLE: 2-7/8" @ 3859.7'  
 ARROW #1 PACKER CE @ 3863.39'  
 X/N NIPPLE: 2-7/8" @ 3867'  
 TOTAL STRING LENGTH: EOT @ 3868'



#### FRAC JOB

3-17-08	5502-5513'	<b>Frac CP.5 sands as follows:</b> Frac with 19765# 20/40 sand in 317bbbs Lightning 17 fluid. Treat with ave pressure of 2298 psi @ 25.0 BPM. ISIP 1934 psi.
3-17-08	4803-4860'	<b>Frac A3 &amp; A1 sands as follows:</b> Frac with 44956# 20/40 sand in 505 bbbs Lightning 17 fluid. Treat with ave pressure of 2193psi @ 24.5 BPM. ISIP 2242psi.
3-17-08	3905-3916'	<b>Frac GB6 sands as follows:</b> Frac with 35394# 20/40 sand in 401 bbbs Lightning 17 fluid. Treat with ave pressure of 1791psi @ 24.8 BPM. ISIP 1896 psi.
1/11/10		<b>Parted rods.</b> Updated rod and tubing detail.
07/03/12		<b>Convert to Injection Well</b>
07/10/12		<b>Conversion MIT Finalized</b> – update tbg detail

#### PERFORATION RECORD

3905-3916'	4 JSPF	44 holes
4803-4817'	4 JSPF	56 holes
4850-4860'	4 JSPF	40 holes
5502-5513'	4 JSPF	44 holes

### NEWFIELD

**Federal 11-24-9-16**  
 1852' FSL & 2094' FWL  
 NESW Section 24 -T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33340; Lease UTU-15855

## FEDERAL 12A-24-9-16

Spud Date: 11/05/07  
 Put on Production: 01/26/08  
 GL: 5640' KB: 5652'

Initial Production: BOPD,  
 MCFD, BWPD

### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (306.37')  
 DEPTH LANDED: 318.22' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 1- 160, sxs Class "G" cmt, est 0 bbls cmt to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 147 jts. (5692.63')  
 DEPTH LANDED: 5705.88' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP: 112'

#### TUBING

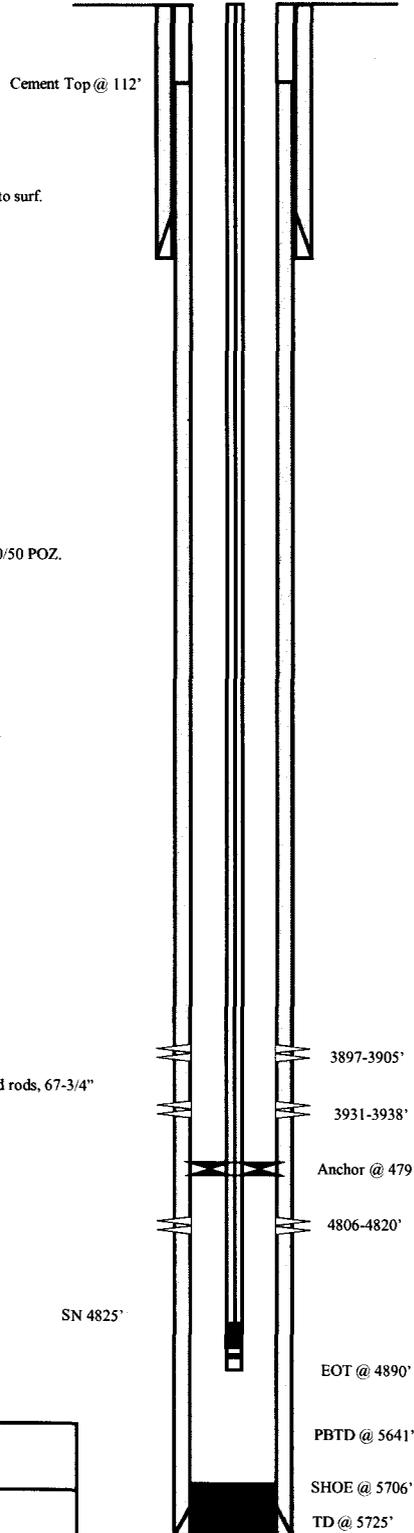
SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 152 jts (4778.87')  
 TUBING ANCHOR: 4790.87' KB  
 NO. OF JOINTS: 1 jts (31.42')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4825.09' KB  
 NO. OF JOINTS: 2 jts (62.86')  
 TOTAL STRING LENGTH: EOT @ 4889.50' KB

#### SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM polished rods  
 SUCKER RODS: 1-2', 4', 8' x 3/4" pony rods, 99-3/4" guided rods, 67-3/4" plain rods, 20-3/4" guided rods, 6-1 1/2" weight rods.  
 PUMP SIZE: CDI 2-1/2" x 1-1/2" x 14' RHAC  
 STROKE LENGTH: 86"  
 PUMP SPEED, 5 SPM:

#### FRAC JOB

01/22/2008 4806-4820' **Frac A1 sands as follows:**  
 70235# 20/40 sand in 570 bbls Lightning 17 frac fluid. Treated @ avg press of 1932 psi w/avg rate of 23.3 BPM. ISIP 2247 psi.  
 01/22/2008 3897-3938' **Frac GB6 sands as follows:**  
 64050# 20/40 sand in 507 bbl Lightning 17 frac fluid. Treated @ avg press of 1813 psi w/avg rate of 23.3 BPM. ISIP 1701 psi.



#### PERFORATION RECORD

4806-4820'	4 JSPF	56 holes
3931-3938'	4 JSPF	28 holes
3897-3905'	4 JSPF	32 holes

**NEWFIELD**

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**FEDERAL 12A-24-9-16**

1951' FSL & 482' FWL  
 NW/SW Section 24-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33341; Lease # UTU-15855

## Federal 14-24-9-16

Spud Date: 1/18/08  
 Put on Production: 3/24/08  
 GL: 5704' KB: 5716'

Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (311.53')  
 DEPTH LANDED: 323.38'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G", circ. 4 bbls to surf.

### PRODUCTION CASING

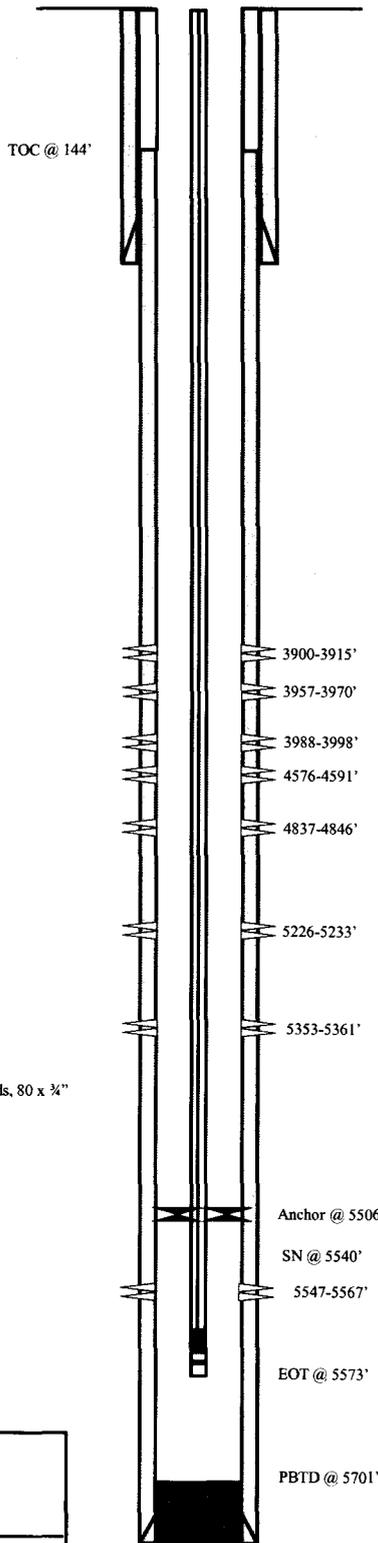
CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 135 jts (5732.19')  
 HOLE SIZE: 7-7/8"  
 DEPTH LANDED: 5745.44'  
 CEMENT DATA: 300 sxs Premlite II & 400 sxs 50/50 POZ  
 CEMENT TOP AT: 144' per CBL 3/10/08

### TUBING (GI 2/14/11)

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 175 jts (5494.06')  
 TUBING ANCHOR: 5506.06'  
 NO. OF JOINTS: 1 jts (31.4')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5540.26' KB  
 NO. OF JOINTS: 1 jt (31.4')  
 NOTCHED COLLAR: 2-7/8" (0.45')  
 TOTAL STRING LENGTH: EOT @ 5573.21'

### SUCKER RODS (GI 2/14/11)

POLISHED ROD: 1-1/2" x 26'  
 SUCKER RODS: 4', 4', 6', 8' x 3/4" pony rod, 99 x 3/4" guided rods, 80 x 3/4" sucker rods, 35 x 3/4" guided rods, 6 x 1-1/2" weight bars  
 PUMP SIZE: 2-1/2" x 1-1/2" x 16' x 20' RHAC  
 STROKE LENGTH: 86"  
 PUMP SPEED, SPM: 4  
 PUMPING UNIT: WEATHERFORD C-228-213-86



### FRAC JOB

**3-15-08 5547-5567' Frac CP5 Sands as follows:**  
 90,237# 20/40 sand in 711 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 1817 w/ ave rate of 23.4 bpm w/ 8 ppg of sand. ISIP was 2069. Actual Flush: 5082 gal.

**3-15-08 5353-5361' Frac CP2 Sands as follows:**  
 14,734# 20/40 sand in 284 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2150 w/ ave rate of 23.4 bpm w/ 6.5 ppg of sand. ISIP was 1989. Actual Flush: 4872 gal.

**3-15-08 5226-5233' Frac LODC Sands as follows:**  
 15,212# 20/40 sand in 283 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2379 w/ ave rate of 23.4 bpm w/ 6.5 ppg of sand. ISIP was 2268. Actual Flush: 4746 gal.

**3-15-08 4837-4846' Frac A1 Sands as follows:**  
 No breakdown or Frac

**3-15-08 4576-4591' Frac C Sands as follows:**  
 70,586# 20/40 sand in 574 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2299 w/ ave rate of 23.3 bpm w/ 8 ppg of sand. ISIP was 2299. Actual Flush: 4074 gal.

**3-15-08 3900-3998' Frac GB4 & GB6 Sands as follows:**  
 121,107# 20/40 sand in 849 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2299 w/ ave rate of 26 bpm w/ 8 ppg of sand. ISIP was 1794. Actual Flush: 3780 gal.

No Breakdown or Frac

### PERFORATION RECORD

3/15/08	3900-3915'	4 JSPF	60 holes
3/15/08	3957-3970'	4 JSPF	52 holes
3/15/08	3988-3998'	4 JSPF	40 holes
3/15/08	4576-4591'	4 JSPF	60 holes
3/15/08	4837-4846'	4 JSPF	36 holes (No frac)
3/15/08	5226-5233'	4 JSPF	28 holes
3/15/08	5353-5361'	4 JSPF	32 holes
3/15/08	5547-5567'	4 JSPF	80 holes

**NEWFIELD**

Federal 14-24-9-16  
 617' FSL & 2285' FWL  
 SE/SW Section 24 - T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33343; Lease UTU-15855

TD @ 5750'

**NEWFIELD**

**Schematic**

**Well Name: Federal 8-23-9-16**

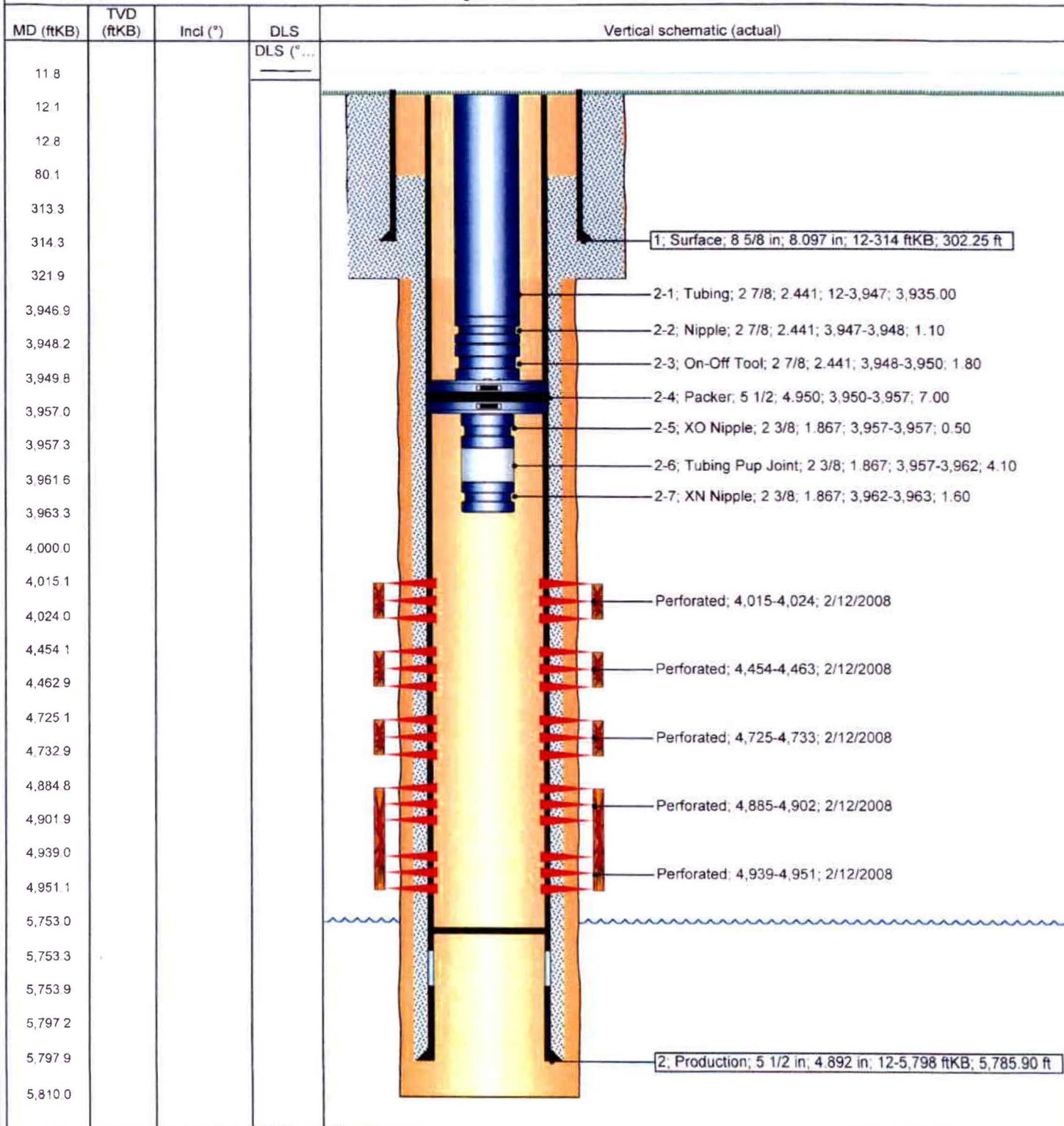
Surface Legal Location 23-9S-16E		API/UWI 43013329610000	Well RC 500159250	Lease	State/Province Utah	Field Name GMBU CTB6	County DUCHESNE
Spud Date	Rig Release Date	On Production Date 2/14/2008	Original KB Elevation (ft) 5,697	Ground Elevation (ft) 5,685	Total Depth All (TVD) (ftKB)	PBTD (All) (ftKB) Original Hole - 5,753.0	

**Most Recent Job**

Job Category Production / Workover	Primary Job Type Conversion	Secondary Job Type Basic	Job Start Date 2/14/2014	Job End Date
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**TD: 5,810.0**

Vertical - Original Hole, 3/10/2014 12:40:08 PM



Well Name: GMBU C-24-9-16

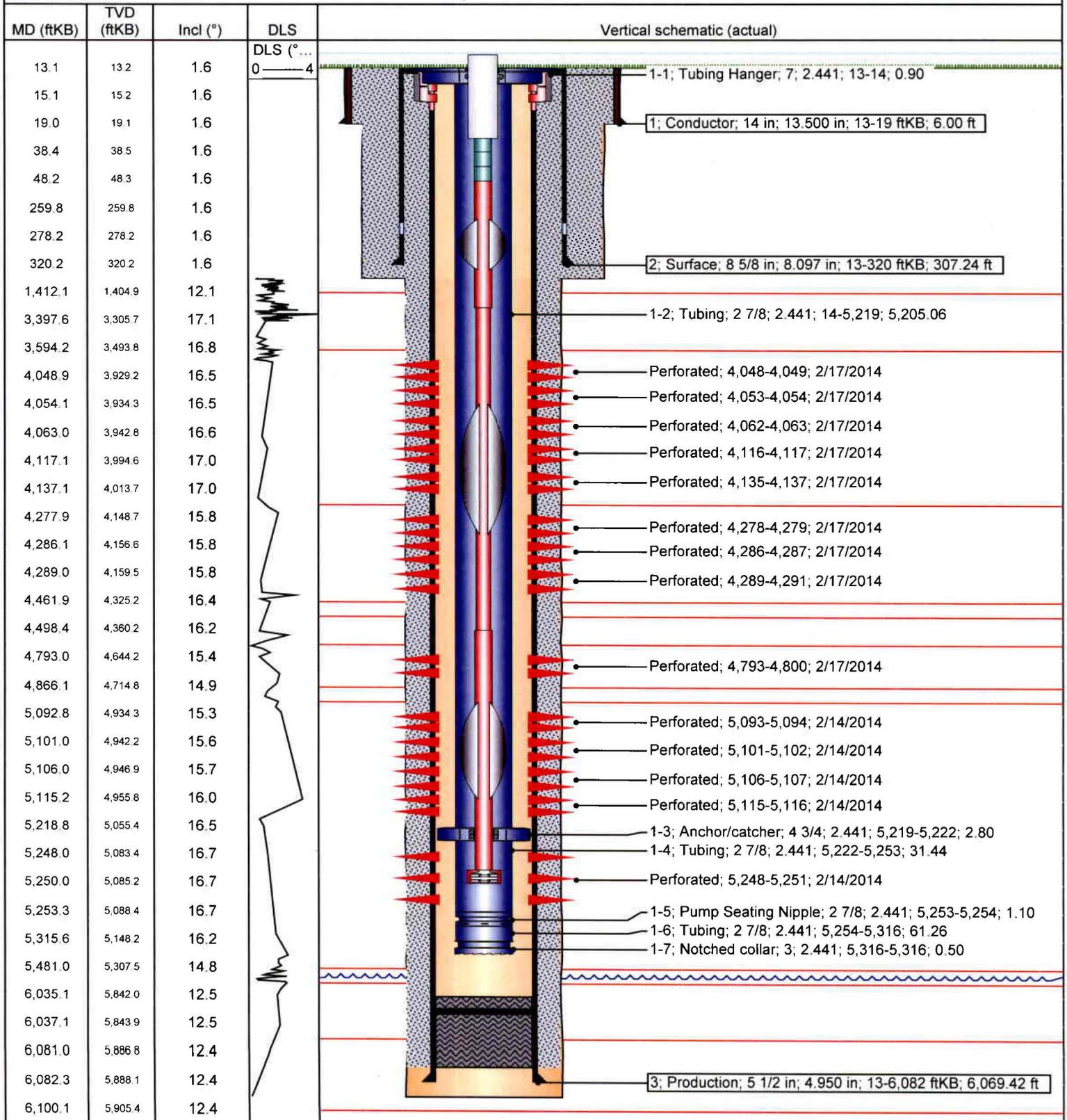
Surface Legal Location SESW 787 FSL 1935 FWL Sec 13 T9S R16E Mer SLB		API/UWI 43013522840000	Well RC 500360790	Lease UTU64805	State/Province Utah	Field Name GMBU CTB5	County Duchesne
Spud Date 1/17/2014	Rig Release Date 1/30/2014	On Production Date 2/26/2014	Original KB Elevation (ft) 5,595	Ground Elevation (ft) 5,582	Total Depth All (TVD) (ftKB) Original Hole - 5,897.6	PBD (All) (ftKB) Original Hole - 6,035.8	

Most Recent Job

Job Category Initial Completion	Primary Job Type Fracture Treatment	Secondary Job Type P&P	Job Start Date 2/14/2014	Job End Date 2/21/2014
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TD: 6,092.0

Slant - Original Hole, 7/2/2014 1:31:53 PM



Well Name: GMBU D-24-9-16

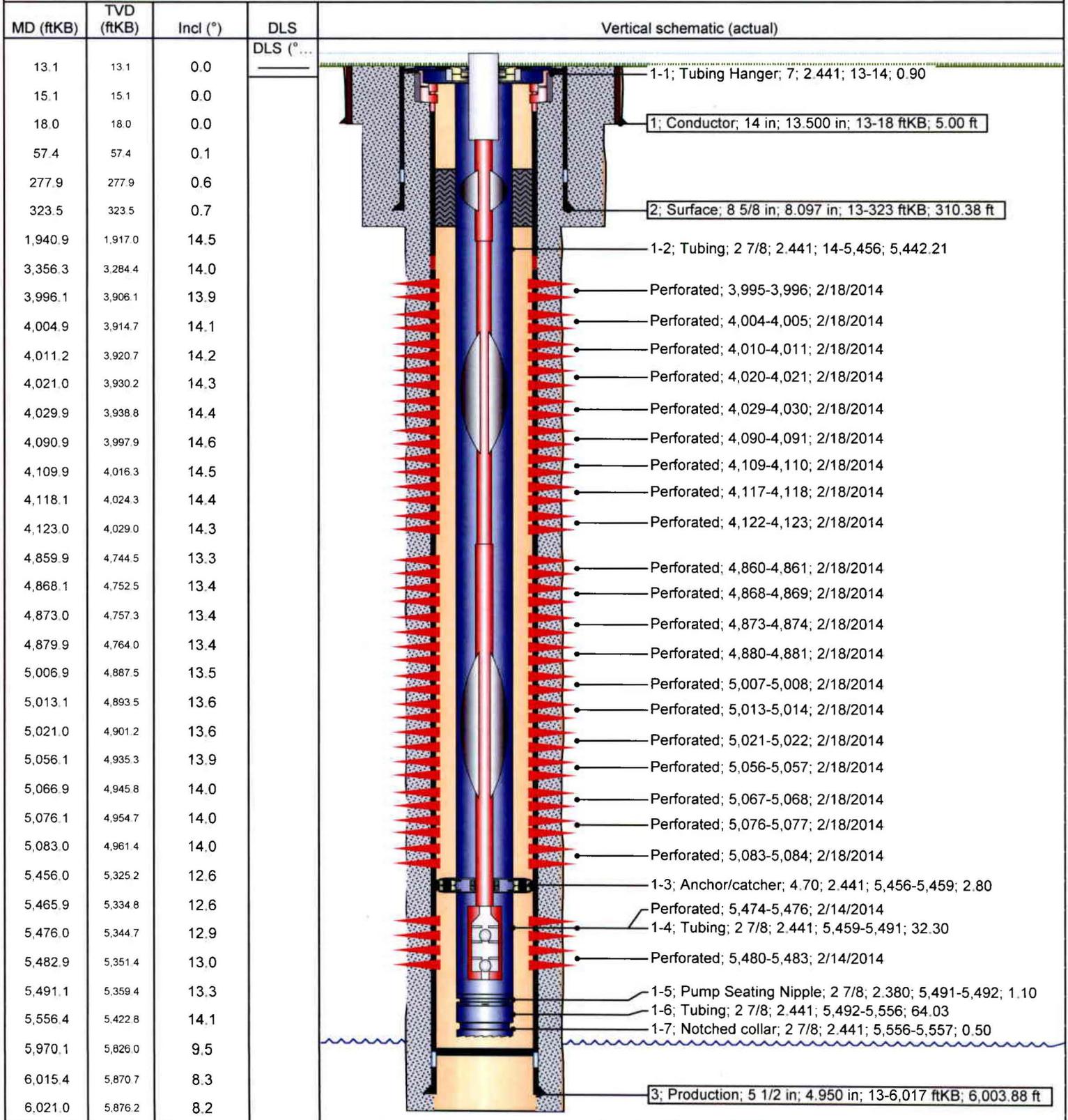
Surface Legal Location SESW 769 FSL 1923 FWL Sec 13 T9S R16E Mer SLB		API/UWI 43013522830000	Well RC 500360792	Lease UTU64805	State/Province Utah	Field Name GMBU CTB5	County Duchesne
Spud Date 1/20/2014	Rig Release Date 2/3/2014	On Production Date 2/26/2014	Original KB Elevation (ft) 5,595	Ground Elevation (ft) 5,582	Total Depth All (TVD) (ftKB) Original Hole - 5,876.2	PBTD (All) (ftKB) Original Hole - 5,970.1	

Most Recent Job

Job Category Initial Completion	Primary Job Type Fracture Treatment	Secondary Job Type P&P	Job Start Date 2/14/2014	Job End Date 2/26/2014
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TD: 6,021.0

Slant - Original Hole, 7/2/2014 1:31:10 PM



## Castle Peak Federal 12-24-9-16

Spud Date: 09/21/81  
 Put on Production: 11/07/81  
 GL: 5663' KB: '

### Injection Wellbore Diagram

#### SURFACE CASING

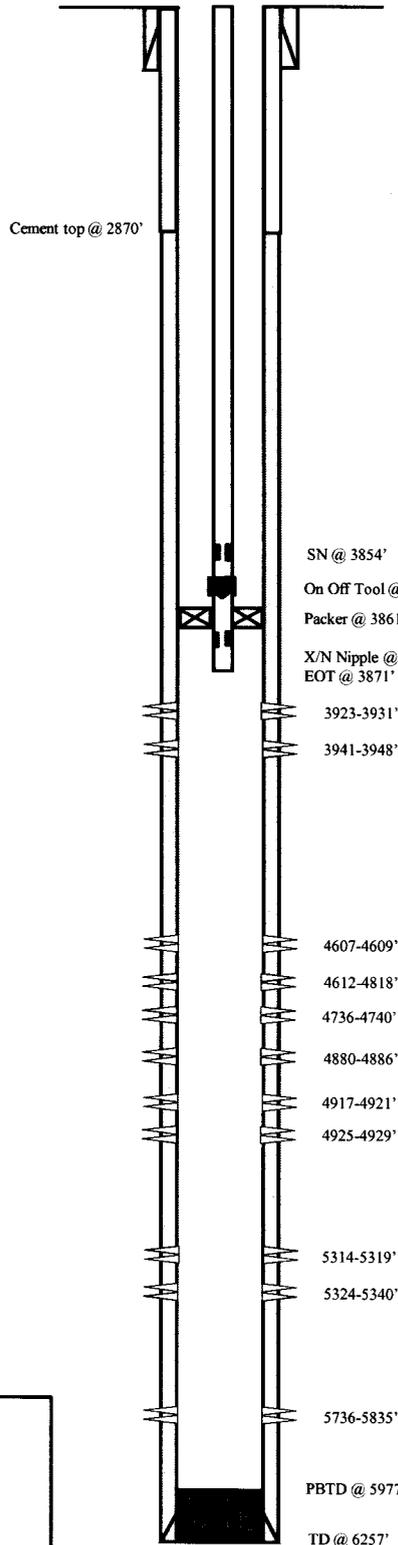
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: jts (294')  
 DEPTH LANDED: 294' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 200 sx Class "H"

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: ? jts (')  
 DEPTH LANDED: 6019'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 766 sx 50/50 Pozmix  
 CEMENT TOP AT: 2870'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 126 jts (3842.4')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 3854.4' KB  
 ON/OFF TOOL AT: 3855.5'  
 ARROW #1 PACKER CE AT: 3861.3'  
 XO 2-3/8 x 2-7/8 J-55 AT: 3864.3'  
 TBG PUP 2-3/8 J-55 AT: 3864.8'  
 X/N NIPPLE AT: 3869'  
 TOTAL STRING LENGTH: EOT @ 3871'



#### FRAC JOB

9-21-81 Spud Well  
 10-24-81 Perf: 5,736'-5,835'  
 10-30-82 Frac BGR zone as follows: Totals 3,000 gal, 2,000# sd Avg TP 2,300 ISIP 1,580, after 5 min 1,450  
 11-3-81 Perf: 5,324'-5,340', 5,314'-5,319'  
 Frac CP-1 zone as follows: Totals 26,500 gal, 40,000# 20/40 sd 9,000# 10/20 sd ISIP 2,160, after 5 min 2,120  
 9-29-82 Perf: 4,607'-4,609', 4,612'-4,618'  
 9-30-82 Frac C-SD zone as follows: Totals 35,500 gal, 85,000# 20/40 sd Max TP 2,800 @ 30 BPM Avg TP 2,400 @ 30 BPM ISIP 2,000, after 5 min 1,750  
 10-5-82 Perf: 3,923'-3,931', 3,941'-3,948'  
 10-6-82 Frac GB-6 zone as follows: Totals 35,500 gal, 85,000# 20/40 sd Max TP 2,400 @ 30 BPM Avg TP 1,900 @ 30 BPM ISIP 1,700, after 5 min 1,575  
 5/11/2009 **Re-Completion**  
 5/11/2009 5314-5340' Frac stg#1 CPI sds as follows: 80,105# 20/40 sand in 740 bbls of Lightning 17 fluid. Treated @ ave pressure of 3498 w/ ave rate of 17 bpm w/ 6 ppg sand. ISIP was 2198 w/ .85FG. 5 minutes was 2145. 10 min was 2135. 15 min was 2126 (10 psi on casing).  
 5/11/2009 4880-4929' Frac A sds as follows: 50,237# 20/40 sand in 488 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 4470 w/ ave rate of 17.1 bpm w/ 6 ppg sand. ISIP was 1946 w/ .83FG. 5 minutes was 1919. 10 min was 1807. 15 min was 1734 (0 psi on casing).  
 5/11/2009 4736-4740' Frac B1 sds as follows: 16,144# 20/40 sand in 208 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 4147 w/ ave rate of 17.1 bpm w/ 6 ppg sand. ISIP was 2014 w/ .86FG. 5 minutes was 1646. 10 min was 1607. 15 min was 1586 (0 psi on casing).  
 11/21/12 **Convert to Injection Well**  
 11/27/12 **Conversion MIT Finalized - update tbg detail**

#### PERFORATION RECORD

5736-5835'	JSPF	holes
5324-5340'	JSPF	holes
5314-5319'	JSPF	holes
4612-4618'	JSPF	holes
4607-4609'	JSPF	holes
3941-3948'	JSPF	holes
3923-3931'	JSPF	holes
4/20/09 5324-5340'	4 JSPF	64 holes
4/20/09 5314-5319'	4 JSPF	16 holes
4/20/09 4925-4929'	4 JSPF	16 holes
4/20/09 4917-4921'	4 JSPF	16 holes
4/20/09 4880-4886'	4 JSPF	16 holes
4/20/09 4736-4740'	4 JSPF	16 holes



**NEWFIELD**

Castle Peak Federal 12-24-9-16  
 749 FWL 1982 FNL  
 SWNW Section 24-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-30588; Lease #U-15855

43-013-52281

Well Name: GMBU M-24-9-16

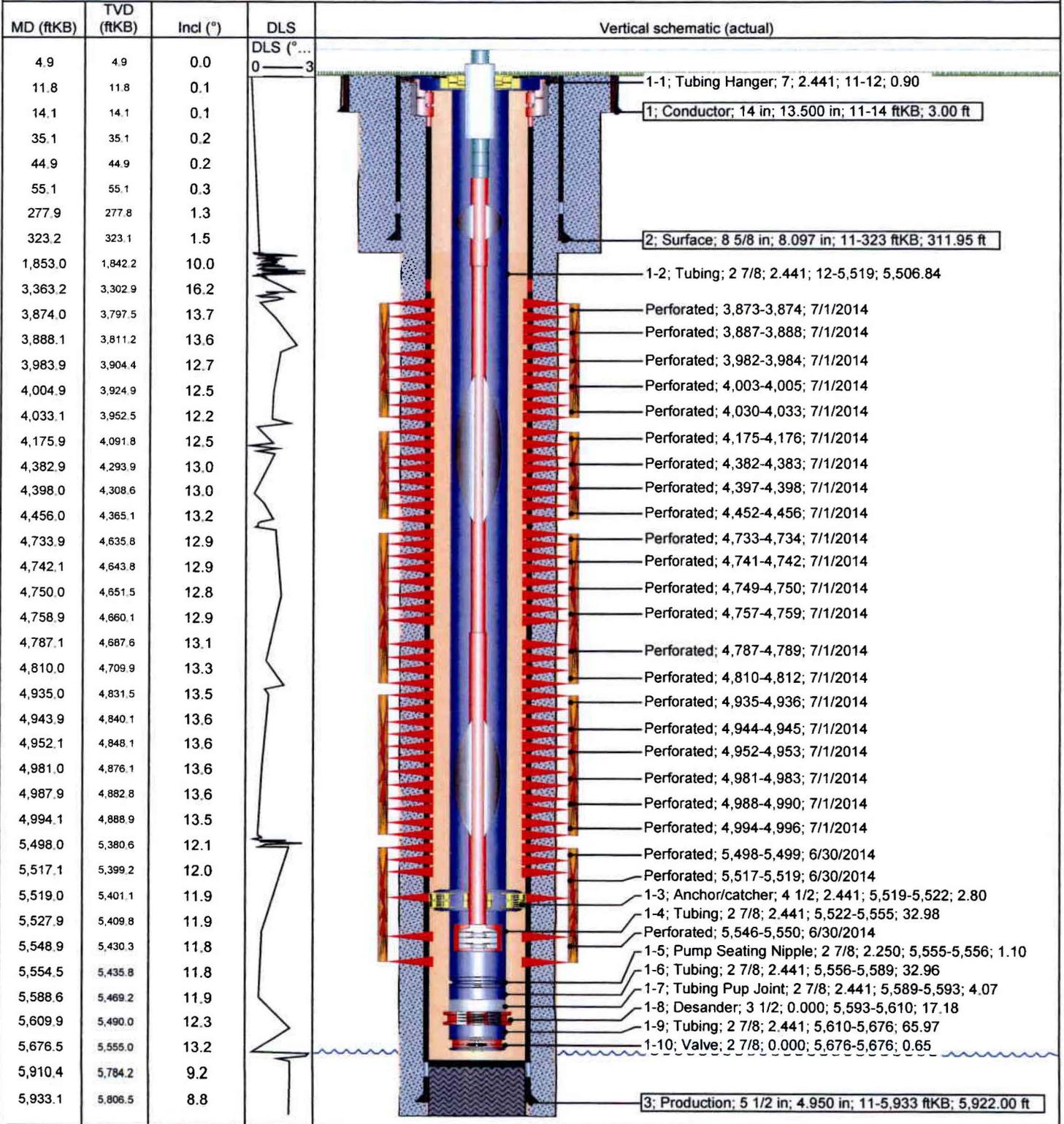
Surface Legal Location NWSE 2187 FSL 1861 FEL Sec 24 T9S R16E		API/UWI 43013522810000	Well RC 500360872	Lease UTU15855	State/Province Utah	Field Name GMBU CTB5	County Duchesne
Spud Date 5/22/2014	Rig Release Date 6/16/2014	On Production Date 7/11/2014	Original KB Elevation (ft) 5,635	Ground Elevation (ft) 5,624	Total Depth All (TVD) (ftKB) Original Hole - 5,818.3	PBD (All) (ftKB) Original Hole - 5,908.8	

Most Recent Job

Job Category Initial Completion	Primary Job Type Fracture Treatment	Secondary Job Type P&P	Job Start Date 6/30/2014	Job End Date 7/11/2014
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TD: 5,945.0

Slant - Original Hole, 8/25/2014 4:45:07 PM



**NEWFIELD**



**Schematic**

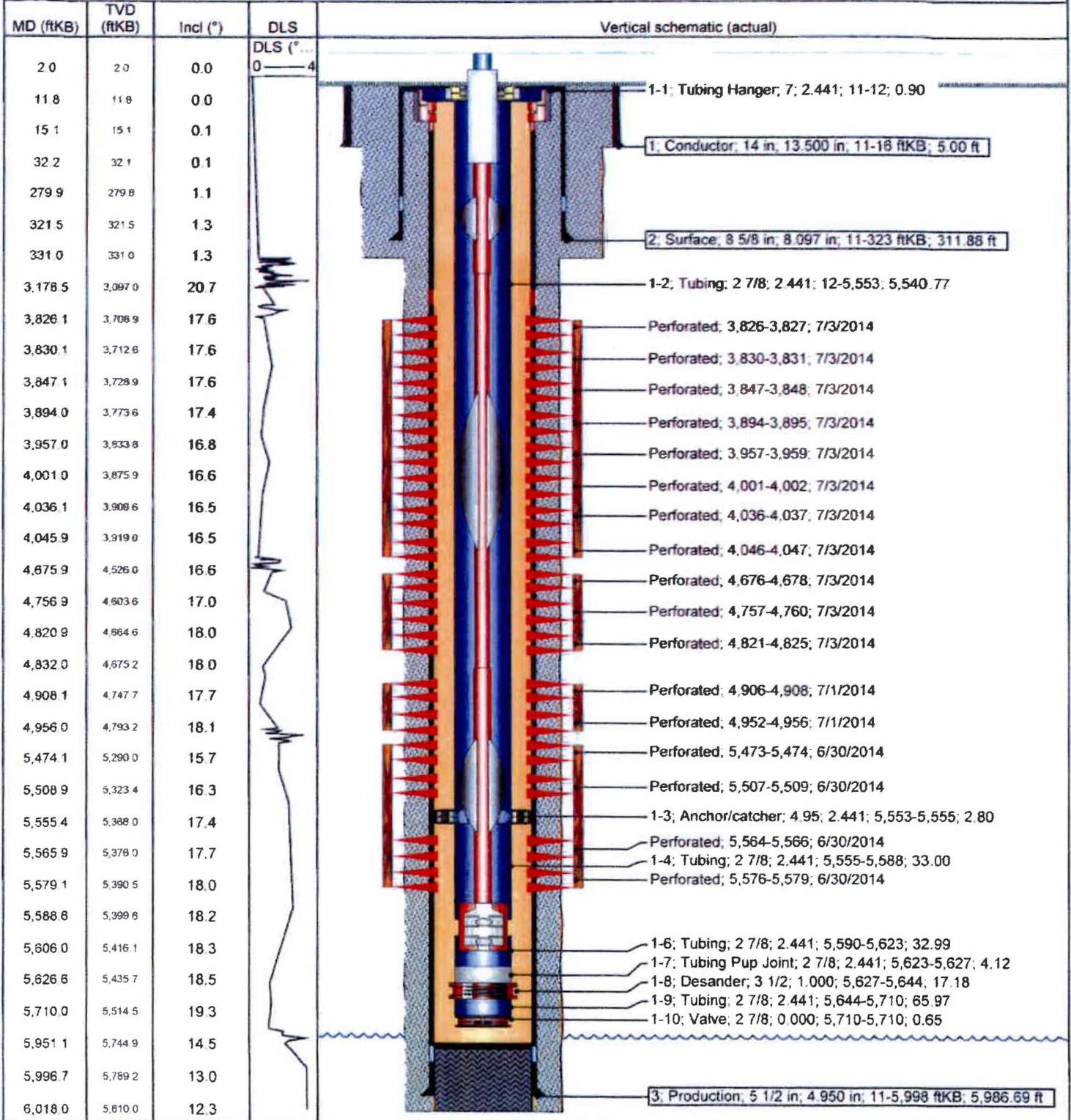
43-013-52282

Well Name: **GMBU R-24-9-16**

Surface Legal Location NWSE 2166 FSL 1862 FEL Sec 24 T9S R16E		API/UWI 43013522820000	Well RC 500346551	Lease UTU15855	State/Province Utah	Field Name GMBU CTB6	County Duchesne
Spud Date 5/21/2014	Rig Release Date 8/13/2014	On Production Date 7/11/2014	Original KB Elevation (ft) 5,635	Ground Elevation (ft) 5,624	Total Depth All (TVD) (ftKB) Original Hole - 5,809.9	P5TD (All) (ftKB) Original Hole - 5,951.0	

<b>Most Recent Job</b>				
Job Category Initial Completion	Primary Job Type Fracture Treatment	Secondary Job Type P&P	Job Start Date 6/30/2014	Job End Date 7/8/2014

**TD: 6,018.0** Slant - Original Hole, 8/26/2014 1:02:10 PM



# ATTACHMENT F

1 of 8

Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078

multi-chem<sup>®</sup>

A HALLIBURTON SERVICE

Units of Measurement: **Standard**

## Water Analysis Report

Production Company: **NEWFIELD PRODUCTION**  
 Well Name: **BELUGA INJ FACILITY**  
 Sample Point: **Commingled After**  
 Sample Date: **11/4/2013**  
 Sample ID: **WA-257478**

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:	11/11/2013	Sodium (Na):	2661.00	Chloride (Cl):	5000.00
System Temperature 1 (°F):	300	Potassium (K):	34.00	Sulfate (SO4):	266.00
System Pressure 1 (psig):	1300	Magnesium (Mg):	24.00	Bicarbonate (HCO3):	1654.00
System Temperature 2 (°F):	70	Calcium (Ca):	46.00	Carbonate (CO3):	
System Pressure 2 (psig):	15	Strontium (Sr):	4.90	Acetic Acid (CH3COO)	
Calculated Density (g/ml):	1.004	Barium (Ba):	3.90	Propionic Acid (C2H5COO)	
pH:	8.30	Iron (Fe):	1.23	Butanoic Acid (C3H7COO)	
Calculated TDS (mg/L):	9712.71	Zinc (Zn):	0.33	Isobutyric Acid ((CH3)2CHCOO)	
CO2 in Gas (%):		Lead (Pb):	0.08	Fluoride (F):	
Dissolved CO2 (mg/L):	224.00	Ammonia NH3:		Bromine (Br):	
H2S in Gas (%):		Manganese (Mn):	0.36	Silica (SiO2):	16.91
H2S in Water (mg/L):	9.00				

**Notes:**

**B=4.9 AI=0.07 LI=5.58**

(PTB = Pounds per Thousand Barrels)

Temp (°F)	PSI	Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO4-2H2O		Celestite SrSO4		Halite NaCl		Zinc Sulfide	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
70.00	14.00	1.36	34.40	1.80	2.29	3.26	0.68	1.61	0.87	0.00	0.00	0.00	0.00	0.00	0.00	10.92	0.17
95.00	157.00	1.40	34.75	1.56	2.26	3.05	0.68	1.75	0.88	0.00	0.00	0.00	0.00	0.00	0.00	10.41	0.17
121.00	300.00	1.48	35.82	1.38	2.23	2.93	0.68	1.90	0.88	0.00	0.00	0.00	0.00	0.00	0.00	10.00	0.17
146.00	443.00	1.57	36.86	1.25	2.19	2.87	0.68	2.04	0.89	0.00	0.00	0.00	0.00	0.00	0.00	9.66	0.17
172.00	585.00	1.68	37.77	1.16	2.16	2.86	0.68	2.19	0.89	0.00	0.00	0.00	0.00	0.00	0.00	9.39	0.17
197.00	728.00	1.81	38.51	1.10	2.13	2.88	0.68	2.32	0.89	0.00	0.00	0.00	0.00	0.00	0.00	9.16	0.17
223.00	871.00	1.94	39.07	1.06	2.12	2.94	0.68	2.45	0.89	0.00	0.00	0.00	0.00	0.00	0.00	8.97	0.17
248.00	1014.00	2.09	39.48	1.05	2.12	3.03	0.68	2.56	0.89	0.00	0.00	0.00	0.00	0.00	0.00	8.82	0.17
274.00	1157.00	2.24	39.75	1.06	2.12	3.13	0.68	2.67	0.89	0.00	0.00	0.00	0.00	0.00	0.00	8.69	0.17
300.00	1300.00	2.39	39.94	1.08	2.13	3.25	0.68	2.76	0.89	0.00	0.00	0.00	0.00	0.00	0.00	8.57	0.17

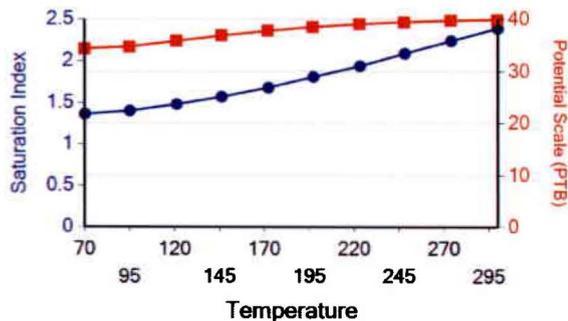
## Water Analysis Report

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
70.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.09	12.71	0.03	0.28	1.78	0.00	0.00	5.30	0.94
95.00	157.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.16	11.88	0.03	1.28	6.70	0.20	1.31	5.82	0.95
121.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.20	11.19	0.03	2.42	11.92	0.83	4.31	6.53	0.95
146.00	443.00	0.00	0.00	0.00	0.00	0.00	0.00	1.22	0.21	10.60	0.03	3.60	16.34	1.49	6.86	7.30	0.95
172.00	585.00	0.00	0.00	0.00	0.00	0.00	0.00	1.49	0.21	10.11	0.03	4.78	19.10	2.16	8.69	8.11	0.95
197.00	728.00	0.00	0.00	0.00	0.00	0.00	0.00	1.73	0.22	9.69	0.03	5.93	20.16	2.83	9.75	8.94	0.96
223.00	871.00	0.00	0.00	0.00	0.00	0.00	0.00	1.93	0.22	9.33	0.03	7.06	20.43	3.49	10.27	9.76	0.96
248.00	1014.00	0.00	0.00	0.00	0.00	0.00	0.00	2.10	0.22	9.03	0.03	8.12	20.49	4.12	10.50	10.55	0.96
274.00	1157.00	0.00	0.00	0.00	0.00	0.00	0.00	2.24	0.22	8.76	0.03	9.12	20.50	4.71	10.60	11.29	0.96
300.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	2.35	0.22	8.53	0.03	10.04	20.50	5.25	10.64	11.98	0.96

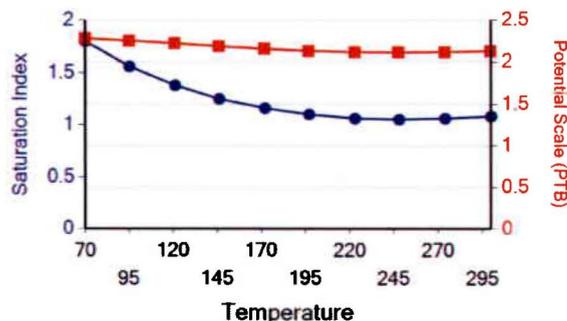
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Mg Silicate Fe Silicate

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

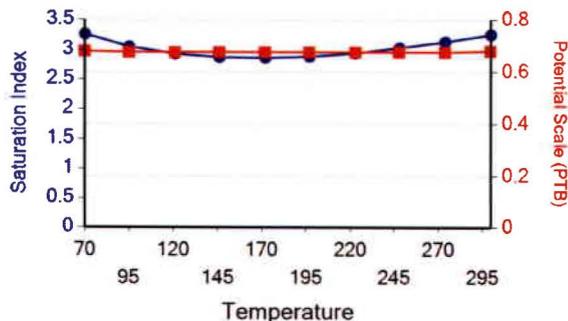
**Calcium Carbonate**



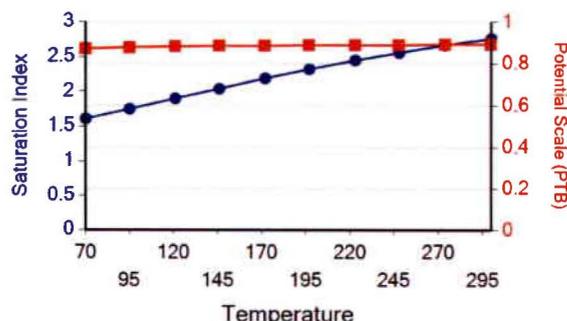
**Barium Sulfate**



**Iron Sulfide**

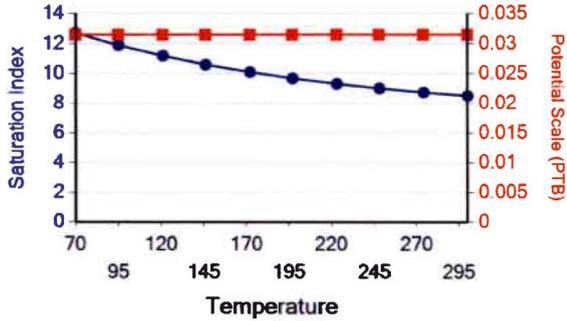


**Iron Carbonate**

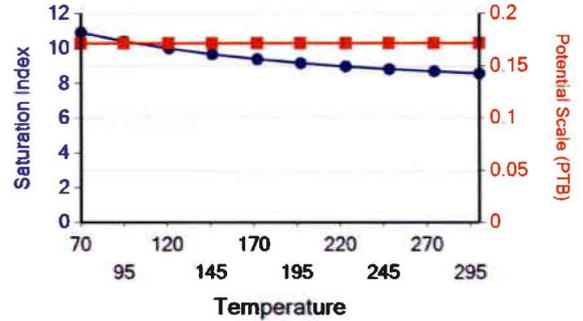


Water Analysis Report

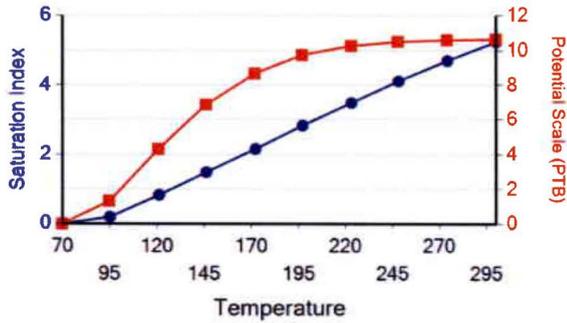
Lead Sulfide



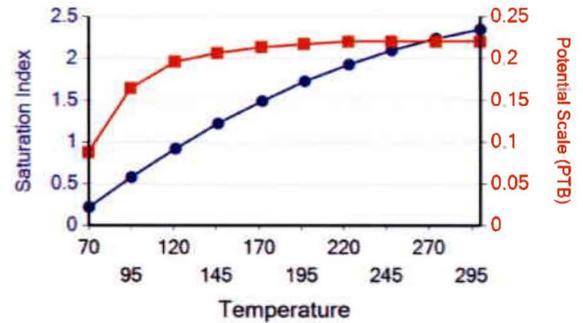
Zinc Sulfide



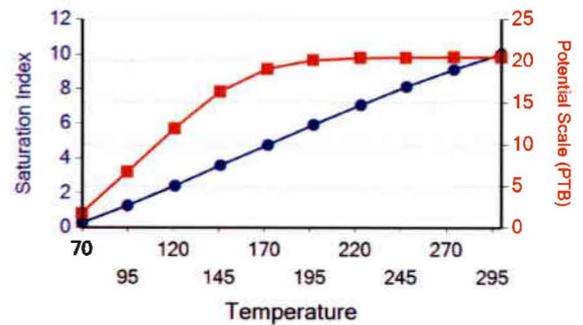
Ca Mg Silicate



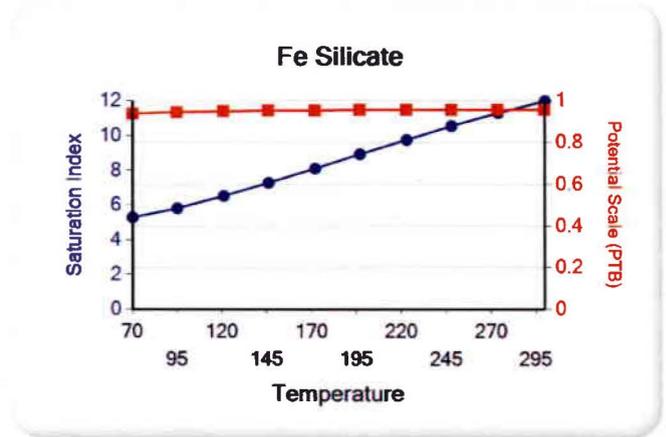
Zinc Carbonate



Mg Silicate



Water Analysis Report



# ATTACHMENT F

5 of 8

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: **FEDERAL 6-24-9-16**  
 Sample Point: **Wellhead**  
 Sample Date: **5/22/2014**  
 Sample ID: **WA-275882**

Sales Rep: **Pete Prodromides**  
 Lab Tech: **Layne Wilkerson**

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

Sample Specifics		Analysis @ Properties in Sample Specifics			
		Cations		Anions	
		mg/L		mg/L	
Test Date:	5/29/2014	Sodium (Na):	8509.21	Chloride (Cl):	12000.00
System Temperature 1 (°F):	100	Potassium (K):	299.25	Sulfate (SO4):	191.00
System Pressure 1 (psig):	4500	Magnesium (Mg):	18.62	Bicarbonate (HCO3):	2488.80
System Temperature 2 (°F):	180	Calcium (Ca):	7.81	Carbonate (CO3):	
System Pressure 2 (psig):	4500	Strontium (Sr):	5.20	Acetic Acid (CH3COO)	
Calculated Density (g/ml):	1.0134	Barium (Ba):	1.85	Propionic Acid (C2H5COO)	
pH:	8.10	Iron (Fe):	0.97	Butanoic Acid (C3H7COO)	
Calculated TDS (mg/L):	23543.59	Zinc (Zn):	0.59	Isobutyric Acid ((CH3)2CHCOO)	
CO2 in Gas (%):		Lead (Pb):	0.00	Fluoride (F):	
Dissolved CO2 (mg/L):	40.00	Ammonia NH3:		Bromine (Br):	
H2S in Gas (%):		Manganese (Mn):	0.13	Silica (SiO2):	20.16
H2S in Water (mg/L):	75.00				

**Notes:**

B=- AI=0.07 LI=1.86

(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
180.00	4500.00	0.39	3.83	0.10	0.22	3.15	0.54	1.54	0.68	0.00	0.00	0.00	0.00	0.00	0.00	9.86	0.31
171.00	4500.00	0.35	3.56	0.12	0.27	3.15	0.54	1.50	0.68	0.00	0.00	0.00	0.00	0.00	0.00	9.94	0.31
162.00	4500.00	0.31	3.29	0.15	0.33	3.15	0.54	1.45	0.68	0.00	0.00	0.00	0.00	0.00	0.00	10.03	0.31
153.00	4500.00	0.28	3.01	0.19	0.38	3.15	0.54	1.41	0.68	0.00	0.00	0.00	0.00	0.00	0.00	10.13	0.31
144.00	4500.00	0.24	2.73	0.22	0.44	3.16	0.54	1.36	0.67	0.00	0.00	0.00	0.00	0.00	0.00	10.24	0.31
135.00	4500.00	0.21	2.45	0.26	0.50	3.18	0.54	1.32	0.67	0.00	0.00	0.00	0.00	0.00	0.00	10.35	0.31
126.00	4500.00	0.19	2.18	0.31	0.56	3.21	0.54	1.28	0.67	0.00	0.00	0.00	0.00	0.00	0.00	10.47	0.31
117.00	4500.00	0.16	1.92	0.36	0.62	3.24	0.54	1.23	0.66	0.00	0.00	0.00	0.00	0.00	0.00	10.60	0.31
108.00	4500.00	0.14	1.68	0.42	0.68	3.27	0.54	1.18	0.66	0.00	0.00	0.00	0.00	0.00	0.00	10.74	0.31
100.00	4500.00	0.12	1.44	0.48	0.74	3.32	0.54	1.14	0.65	0.00	0.00	0.00	0.00	0.00	0.00	10.89	0.31

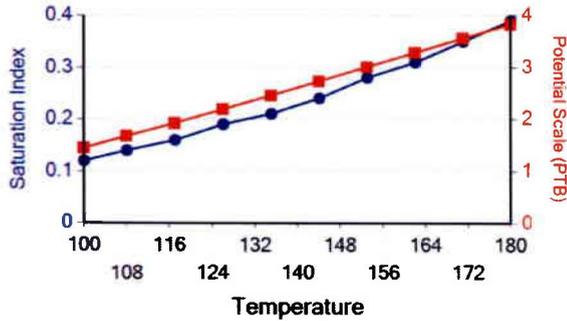
## Water Analysis Report

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
180.00	4500.00	0.00	0.00	0.00	0.00	0.00	0.00	1.25	0.38	0.00	0.00	2.85	17.30	0.21	1.76	6.01	0.75
171.00	4500.00	0.00	0.00	0.00	0.00	0.00	0.00	1.17	0.37	0.00	0.00	2.44	15.34	0.00	0.00	5.72	0.75
162.00	4500.00	0.00	0.00	0.00	0.00	0.00	0.00	1.08	0.36	0.00	0.00	2.02	13.17	0.00	0.00	5.43	0.74
153.00	4500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98	0.35	0.00	0.00	1.61	10.81	0.00	0.00	5.14	0.74
144.00	4500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.34	0.00	0.00	1.19	8.28	0.00	0.00	4.86	0.74
135.00	4500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.78	0.33	0.00	0.00	0.78	5.63	0.00	0.00	4.58	0.73
126.00	4500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.31	0.00	0.00	0.37	2.87	0.00	0.00	4.30	0.73
117.00	4500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.29	0.00	0.00	0.00	0.00	0.00	0.00	4.03	0.72
108.00	4500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.26	0.00	0.00	0.00	0.00	0.00	0.00	3.77	0.71
100.00	4500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.21	0.00	0.00	0.00	0.00	0.00	0.00	3.52	0.70

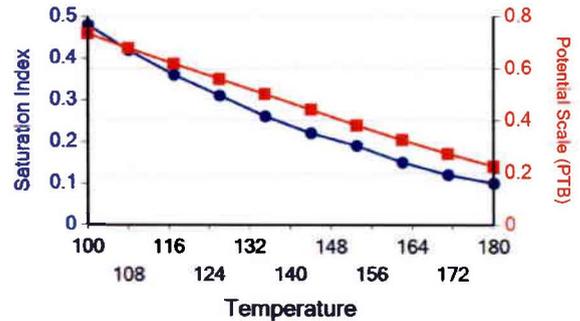
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Mg Silicate Ca Mg Silicate Fe Silicate

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

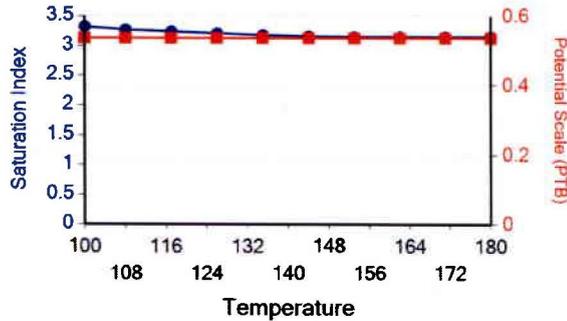
**Calcium Carbonate**



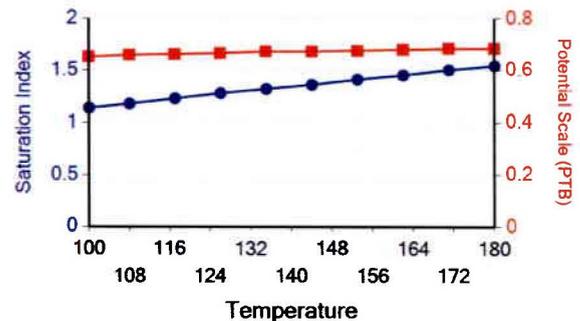
**Barium Sulfate**



**Iron Sulfide**

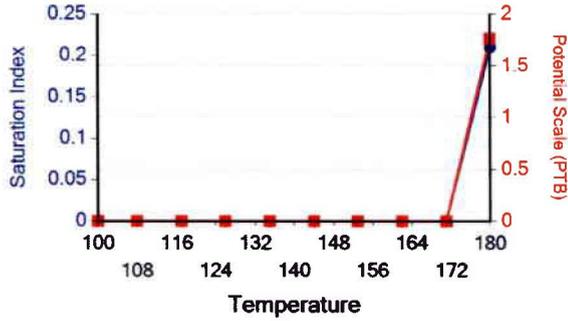


**Iron Carbonate**

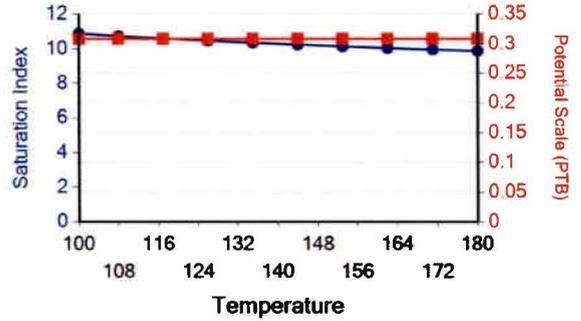


Water Analysis Report

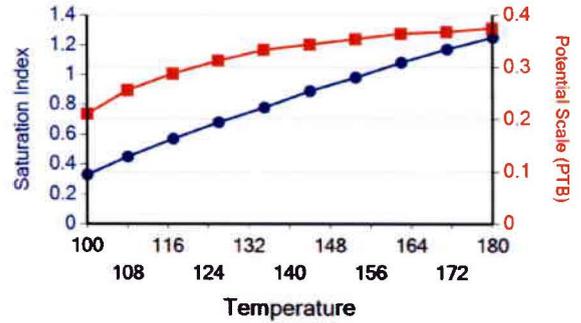
Ca Mg Silicate



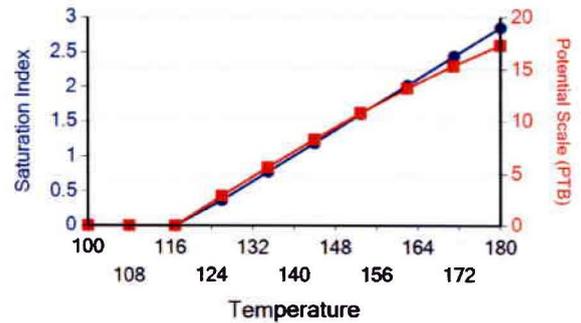
Zinc Sulfide



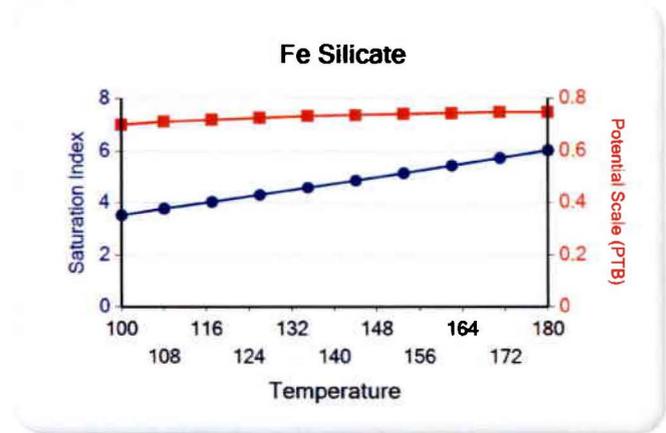
Zinc Carbonate



Mg Silicate



Water Analysis Report



**Attachment "G"**

**Federal #6-24-9-16  
Proposed Maximum Injection Pressure**

Frac Interval (feet)		Avg. Depth (feet)	ISIP (psi)	Calculated Frac Gradient (psi/ft)	Pmax
Top	Bottom				
5410	5418	5414	2055	0.81	2020
5259	5266	5263	2035	0.82	2001
4994	5002	4998	3198	1.07	3166
4842	4864	4853	2132	0.87	2101
2877	3888	3383	1632	1.00	1613
				<b>Minimum</b>	<u>1613</u> ←

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

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

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

**Daily Activity Report**

Format For Sundry

**FEDERAL 6-24-9-16****10/1/2007 To 2/29/2008****12/6/2007 Day: 1****Completion**

Rigless on 12/5/2007 - 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 @ 5670' & cement top @ 68'. Perforate stage #1, CP3 sds @ 5410-18' w/ 3-1/8" Slick Guns (19 gram, .49"EH, 120°) w/ 4 spf for total of 32 shots. 110 BWTR. SWIFN.

**12/7/2007 Day: 2****Completion**

Rigless on 12/6/2007 - RU BJ Services. 0 psi on well. Frac CP3 sds w/ 25,257#'s of 20/40 sand in 361 bbls of Lightning 17 fluid. Broke @ 3177 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 2391 psi @ ave rate of 23.1 BPM. Pumped 504 gals of 15% HCL in flush for Stage #2. ISIP 2055 psi. Leave pressure on well. 471 BWTR RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 7' perf gun. Set plug @ 5360'. Perforate CP.5 sds @ 5259- 66' 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. 1450 psi on well. Frac CP.5 sds w/ 25,324#'s of 20/40 sand in 351 bbls of Lightning 17 fluid. Broke @ 1605 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 2677 psi @ ave rate of 23.1 BPM. Pumped 504 gals of 15% HCL in flush for Stage #3. ISIP 2035 psi. Leave pressure on well. 822 BWTR RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 8' perf gun. Set plug @ 5090'. Perforate LODC sds @ 4994- 5002' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 32 shots. RU BJ Services. 1660 psi on well. Pressured up to 4200 psi, Would not breakdown. RU WL & dumpbail acid. RU BJ Services. 1570 psi on well. Frac LODC sds w/ 25,369#'s of 20/40 sand in 354 bbls of Lightning 17 fluid. Broke @ 3198 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 3093 psi @ ave rate of 23.2 BPM. Pumped 504 gals of 15% HCL in flush for Stage #4. ISIP 3198 psi. Leave pressure on well. 1176 BWTR RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug, 5' & 9' perf gun. Set plug @ 4940'. Perforate A1 sds @ 4859- 64', 4842'- 51' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 56 shots (2 runs due to misfire). RU BJ Services. 1835 psi on well. Frac A1 sds w/ 40,223#'s of 20/40 sand in 398 bbls of Lightning 17 fluid. Broke @ 2120 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 2114 psi @ ave rate of 23.1 BPM. Pumped 504 gals of 15% HCL in flush for Stage #5. ISIP 2132 psi. Leave pressure on well. 1574 BWTR RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 11' perf gun. Set plug @ 3990'. Perforate GB4 sds @ 3877- 88' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 44 shots. RU BJ Services. 1285 psi on well. Frac A1 sds w/ 38,701#'s of 20/40 sand in 339 bbls of Lightning 17 fluid. Broke @ 1366 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1497 psi @ ave rate of 23.2 BPM. ISIP 1632 psi. Begin immediate flowback on 12/64 choke @ 1 BPM. Flowed for 1 1/2 hrs & died. Rec. 95 BTF. SIWFN w/ 1818 BWTR.

**12/8/2007 Day: 3****Completion**

NC #2 on 12/7/2007 - MIRU NC #2. Bleed off well, flowing back approx. 50 BW. ND 5000# BOPs & frac head. NU 3000# wellhead & BOPs. PU 120- jts 2 7/8" J-55 6.5# tbg from trailer (tallying & drifting). RU pump & pump lines. SDFN.

**12/11/2007 Day: 4****Completion**

NC #2 on 12/10/2007 - Continue TIH w/ tbg & tag fill @ 3905'. RU power swivel. Clean out to plug

& 3990'. Drill up plug in 29 minutes & circulate well clean. Cont. TIH w/ tbg & tag fill @ 4915'. Clean out to plug @ 4940' & drill up plug in 33 minutes. Circulate well clean. TIH w/ tbg & tag fill @ 5050'. Clean out to plug @ 5090' & drill up plug in 27 minutes. Circulate well clean. TIH w/ tbg & tag fill @ 5340'. Clean out to plug @ 5360' & drill up plug in 28 minutes. Circulate well clean. TIH w/ tbg & tag fill @ 5460' & clean out to PBDT @ 5720'. Circulate well clean. Drain pump & pump lines. SDFN.

---

**12/12/2007 Day: 5**

**Completion**

NC #2 on 12/11/2007 - RD power swivel. Thaw tbg & csg valves w/ hot oiler. RU swab equipment. Made 19 swab runs w/ SFL @ surface & EFL @ 2100'. Ending w/ approx 5% oil cut, small show of gas & no show of sand. Recovered 171 Bbls fluid total. RD swab. TIH w/ tbg & tag PBDT @ 5720'. TOOH w/ tbg & LD BHA. TIH w/ tbg as follows: 2 7/8 NC, 2- jts 2 7/8 J-55 6.5# tbg, SN, 1- jt tbg, TA, 172- jts tbg. RD rig floor. ND BOPs. Set TA @ 5401' w/ 16000# tension. NU wellhead. X-over for rods. SDFN.

---

**12/13/2007 Day: 6**

**Completion**

NC #2 on 12/12/2007 - Hot oiler had flushed tbg w/ 60 BW @ 250°. PU & prime CDI pump. TIH w/ rods (from trailer) as detailed below. RU pumping unit. Wait on pin for horses head to be made. Hang rods off. With tbg full, stroke test pump w/ unit to 800 psi (good test). RDMO. PWOP @ 2:30 PM w/ 80" SL & 5 SPM. Est 1657 BWTR. Final Report!

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**Pertinent Files: Go to File List**

## ATTACHMENT H

### WORK PROCEDURE FOR PLUGGING AND ABANDONMENT

1. Set CIBP @ 3827'
2. Plug #1 Set 100' plug on top of CIBP using 12 sx Class "G" cement
3. Plug #2 176' balance plug using 19 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 44 sx Class "G" cement down 5 ½" casing to 375'

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

## FEDERAL 6-24-9-16

Spud Date: 11/02/07  
 Put on Production: 12/12/07  
 GL: 5611' KB: 5623'

Initial Production: BOPD,  
 MCFD, BWPD

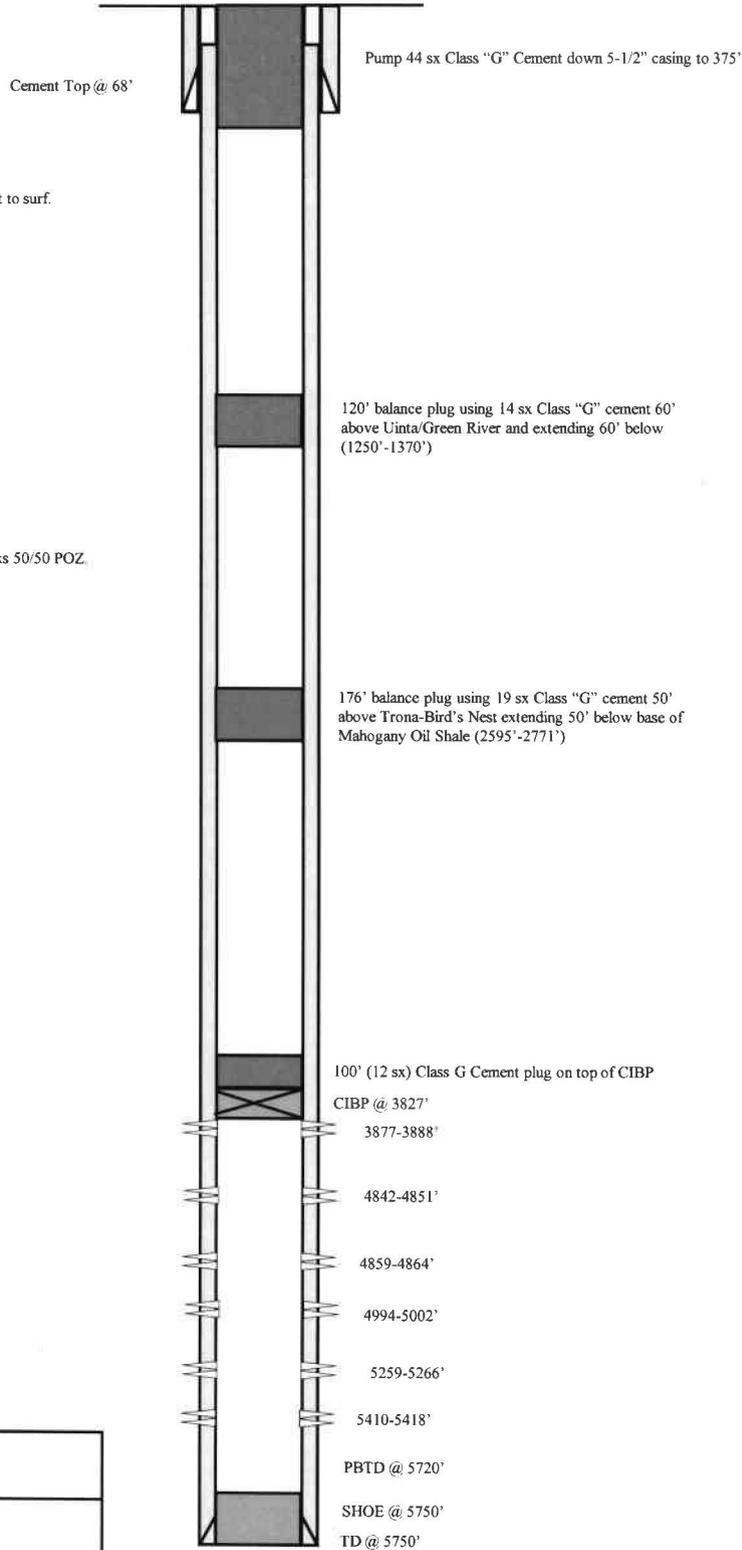
### Proposed P & A Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (312.81')  
 DEPTH LANDED: 324.66' 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: 149 jts. (5761.33')  
 DEPTH LANDED: 5750' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP: 68'




<b>FEDERAL 6-24-9-16</b> 2039'FNL & 2046' FWL SE/NW Section 24-T9S-R16E Duchesne Co, Utah API #43-013-32962; Lease # UTU-15855