

**NEWFIELD**



January 12, 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: 3-21-9-16, 5-21-9-16, 6-21-9-16, 7-21-9-16,  
8-21-9-16, 3-22-9-16, 5-22-9-16, 6-22-9-16, and 7-22-9-16.

Dear Diana:

Enclosed find APD's on the above referenced wells. The proposed 6-22-9-16 is an Exception Location. Our Land Department will send you the required Exception Location Letter. If you have any questions, feel free to give either Shon Mckinnon or myself a call.

Sincerely,

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

Mandie Crozier  
Regulatory Specialist

mc  
enclosures

**RECEIVED**

**JAN 13 2006**

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.  
UTU-64379

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

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

8. Lease Name and Well No.  
Federal 6-22-9-16

9. API Well No.  
43-013-33026

10. Field and Pool, or Exploratory  
Monument Butte

11. Sec., T., R., M., or Blk. and Survey or Area  
SE/NW Sec. 22, 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 2340' FNL 2060' FWL 576225X 40.017149  
At proposed prod. zone 4429833Y -110.106819

14. Distance in miles and direction from nearest town or post office\*  
Approximatley 24.7 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. 300' f/se, NA' f/unit

16. No. of Acres in lease  
1626.36

17. Spacing Unit dedicated to this well  
40 Acres

18. Distance from proposed location\* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1676'

19. Proposed Depth  
5975'

20. BLM/BIA Bond No. on file  
UTB000192

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
5913' GL

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

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

24. Attachments

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

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

25. Signature *Mandie Crozier* Name (Printed/Typed) Mandie Crozier Date 1/11/06

Title Regulatory Specialist

Approved by (Signature) *Bradley Hill* Name (Printed/Typed) BRADLEY G. HILL Date 03-06-06

Title ENVIRONMENTAL MANAGER

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

JAN 13 2006

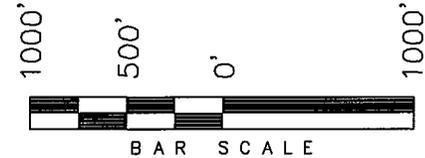
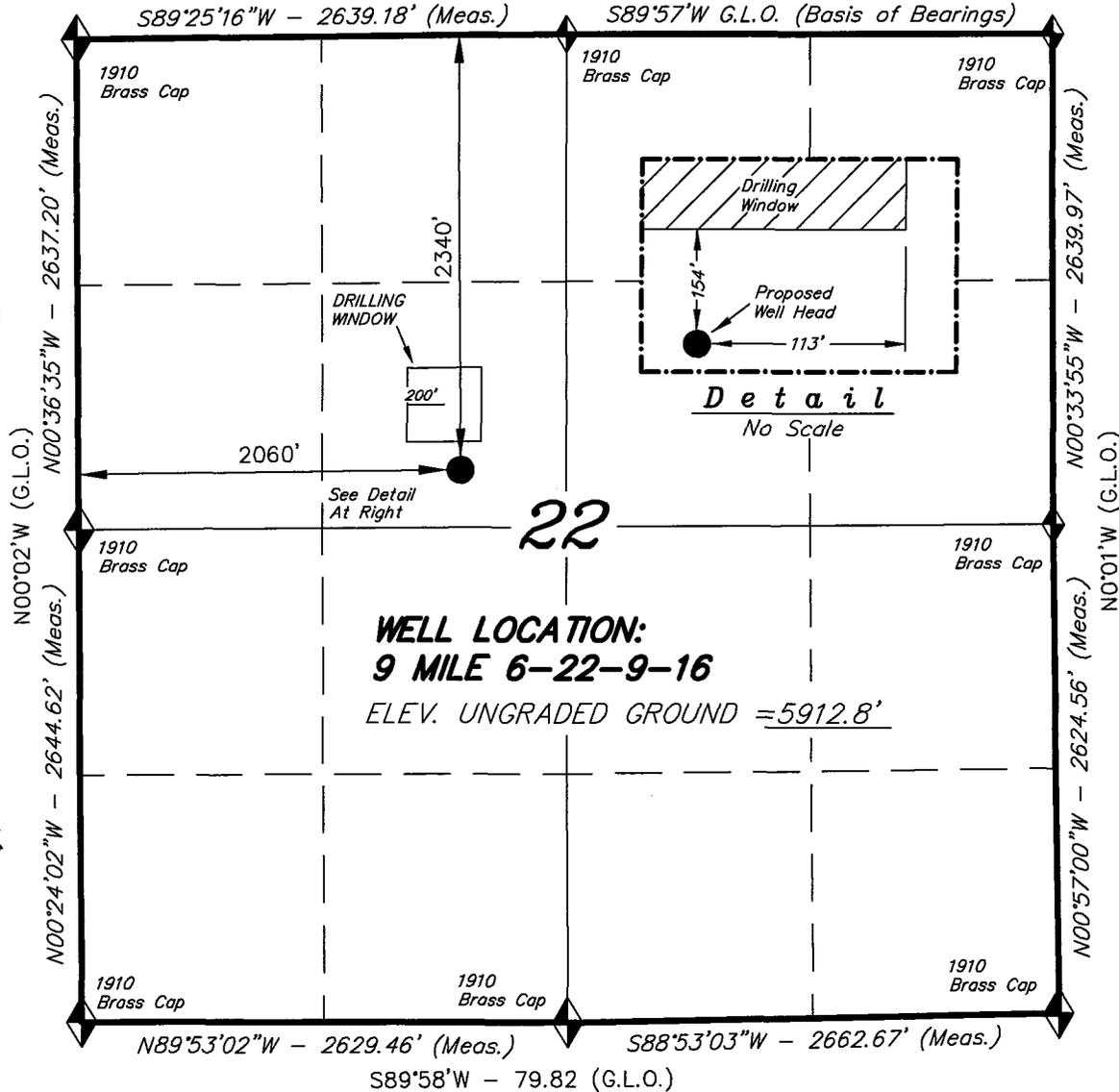
DIV. OF OIL, GAS & MINING

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

NEWFIELD PRODUCTION COMPANY

S89°57'W - 79.16 (G.L.O.) 2629.55' (Measured)  
 S89°57'W G.L.O. (Basis of Bearings)

WELL LOCATION, 9 MILE 6-22-9-16,  
 LOCATED AS SHOWN IN THE SE 1/4 NW  
 1/4 OF SECTION 22, T9S, R16E,  
 S.L.B.&M. DUCHESNE COUNTY, UTAH.



**WELL LOCATION:**  
**9 MILE 6-22-9-16**  
 ELEV. UNGRADED GROUND = 5912.8'

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

REGISTERED LAND SURVEYOR  
 STACY W. STUART  
 REGISTERED LAND SURVEYOR  
 REGISTRATION No. 48937  
 STATE OF UTAH

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

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

**9 MILE 6-22-9-16**  
 (Surface Location) NAD 83  
 LATITUDE = 40° 01' 01.94"  
 LONGITUDE = 110° 06' 26.86"

DATE SURVEYED: 11-11-05	SURVEYED BY: C.M.
DATE DRAWN: 12-6-05	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

NEWFIELD PRODUCTION COMPANY  
FEDERAL #6-22-9-16  
SE/NW SECTION 22, T9S, R16E  
DUCHESNE COUNTY, UTAH

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. GEOLOGIC SURFACE FORMATION:

Uinta formation of Upper Eocene Age

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Uinta	0' – 2380'
Green River	2380'
Wasatch	5975'

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

Green River Formation 2380' – 5975' - 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 #6-22-9-16  
SE/NW SECTION 22, T9S, R16E  
DUCHESNE COUNTY, UTAH

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. EXISTING ROADS

See attached Topographic Map "A"

To reach Newfield Production Company well location site Federal #6-22-9-16 located in the SE 1/4 NW 1/4 Section 22, T9S, R16E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.6 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southwesterly - 10.9 miles  $\pm$  to its junction with an existing road to the northeast; proceed northeasterly and then southwesterly - 10.1 miles  $\pm$  to its junction with an existing road to the east; proceed northeasterly - 1.3 miles  $\pm$  to its junction with the beginning of the proposed access road; proceed northeasterly - 4,370'  $\pm$  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 #05-240, 7/25/05. Paleontological Resource Survey prepared by, Wade E. Miller, 9/28/05. See attached report cover pages, Exhibit "D".

For the Federal #6-22-9-16 Newfield Production Company requests a 3400' ROW be granted in Lease UTU-74392 and 970' of disturbed area be granted in Lease UTU-64379 to allow for construction of the proposed access road. Refer to Topographic Map "B". The proposed access road will be an 18' crown road (9' either side of the centerline) with drainage ditches along either side of the proposed road whether it is deemed necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area. The maximum grade will be less than 8%. There will be no culverts required along the access road. There will be barrow ditches and turnouts as needed along this road. There are no fences encountered along this proposed road. There will be no new gates or cattle guards required. All construction material for this access road will be borrowed material accumulated during construction of the access road.

Newfield Production Company requests a 3400' ROW be granted in Lease UTU-74392 and 970' of disturbed area be granted in Lease UTU-64379 to allow for construction of the proposed gas lines. It is proposed that the ROW and 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**

**Mountain Plover:** If new construction or surface disturbing activities are scheduled to occur between May 1 and June 15, detailed surveys of the area within 0.5 mile of the proposed location and within 300 feet of proposed access routes must be conducted to detect the presence of mountain plovers. All surveys must be conducted in accordance with the survey protocols outlined in the most recent USFWS Survey Protocol. Surveys must be completed prior to initiating new construction or surface disturbing activities. No new construction or surface disturbing activities will be allowed between March 15 and August 15 within a 0.5 mile radius of any documented mountain plover nest site.

**Reserve Pit Liner**

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

**Location and Reserve Pit Reclamation**

Please refer to the Monument Butte Field SOP.

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

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

The proposed Federal #6-22-9-16 was on-sited on 8/31/05. The following were present; Shon Mckinnon (Newfeild Production), Byron Tolman (Bureau of Land Management), and Todd MaGrath (Bureau of Landmanagement). Weather conditions were clear and ground cover was 100% open.

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

Representative

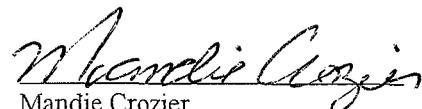
Name: Shon Mckinnon  
 Address: Route #3 Box 3630  
 Myton, UT 84052  
 Telephone: (435) 646-3721

Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #6-22-9-16 SE/NW Section 22, Township 9S, Range 16E: Lease UTU-64379 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4488944.

I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

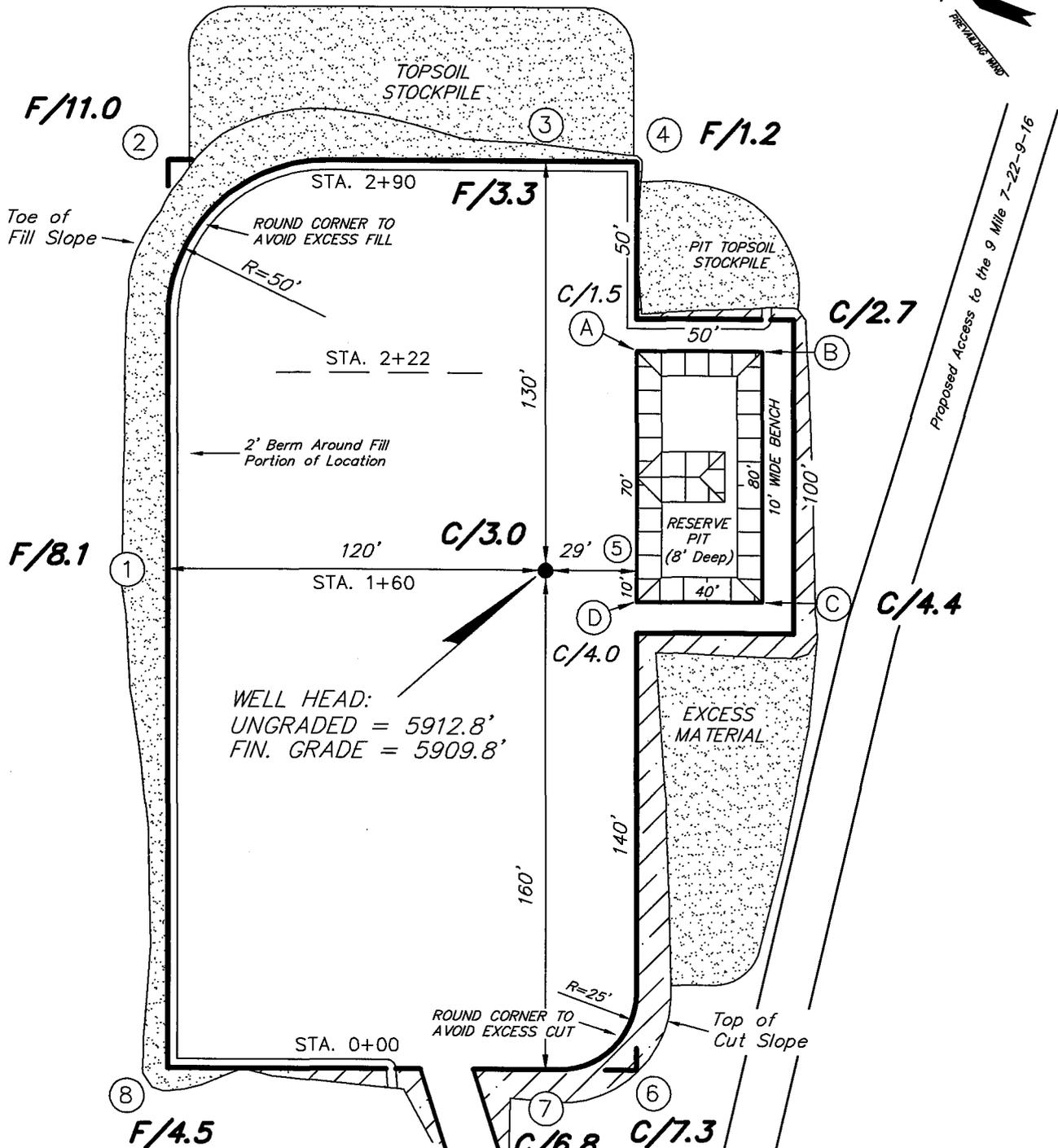
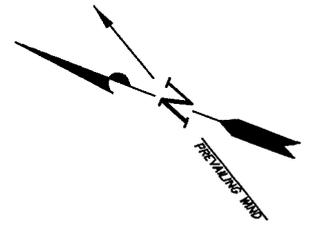
1/11/06  
 Date

  
 Mandie Crozier  
 Regulatory Specialist  
 Newfield Production Company

# NEWFIELD PRODUCTION COMPANY

9 MILE 6-22-9-16

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



WELL HEAD:  
UNGRADED = 5912.8'  
FIN. GRADE = 5909.8'

**REFERENCE POINTS**

- 170' NORTHWESTERLY = 5896.7'
- 220' NORTHWESTERLY = 5893.4'
- 180' NORTHEASTERLY = 5903.6'
- 230' NORTHEASTERLY = 5896.3'

PROPOSED ACCESS ROAD  
(Max. 6% Grade)

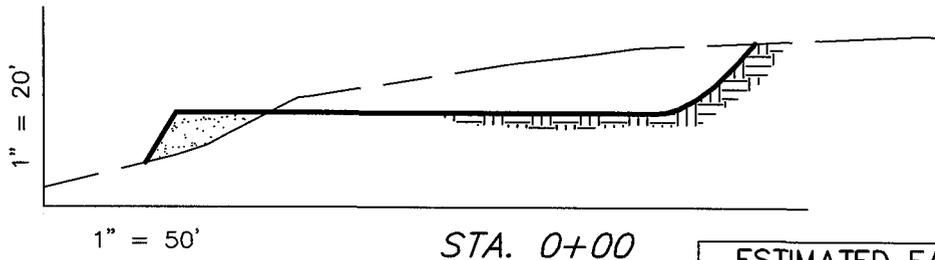
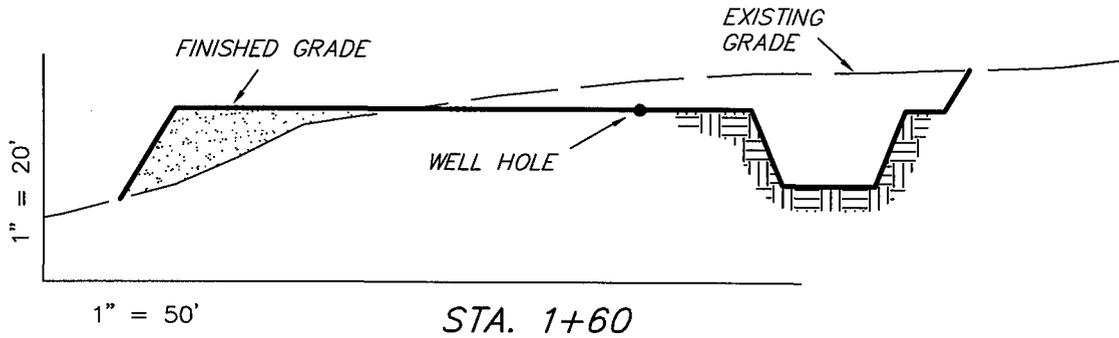
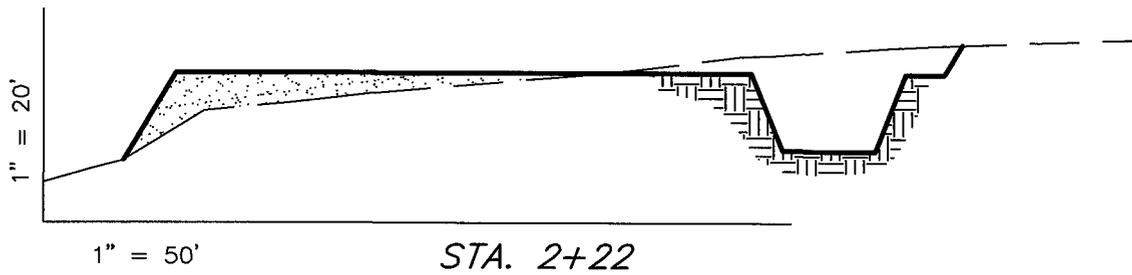
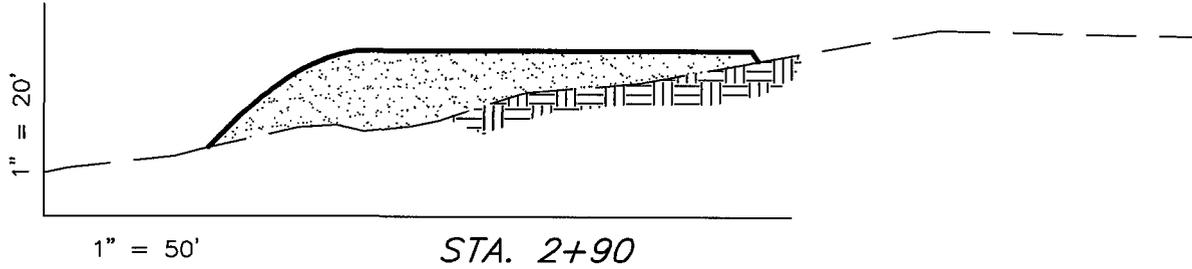
SURVEYED BY: C.M.	SCALE: 1" = 50'
DRAWN BY: F.T.M.	DATE: 11-22-05

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

# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS

9 MILE 6-22-9-16



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

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

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	2,910	2,910	Topsoil is not included in Pad Cut	0
PIT	640	0		640
TOTALS	3,550	2,910	1,030	640

SURVEYED BY: C.M.

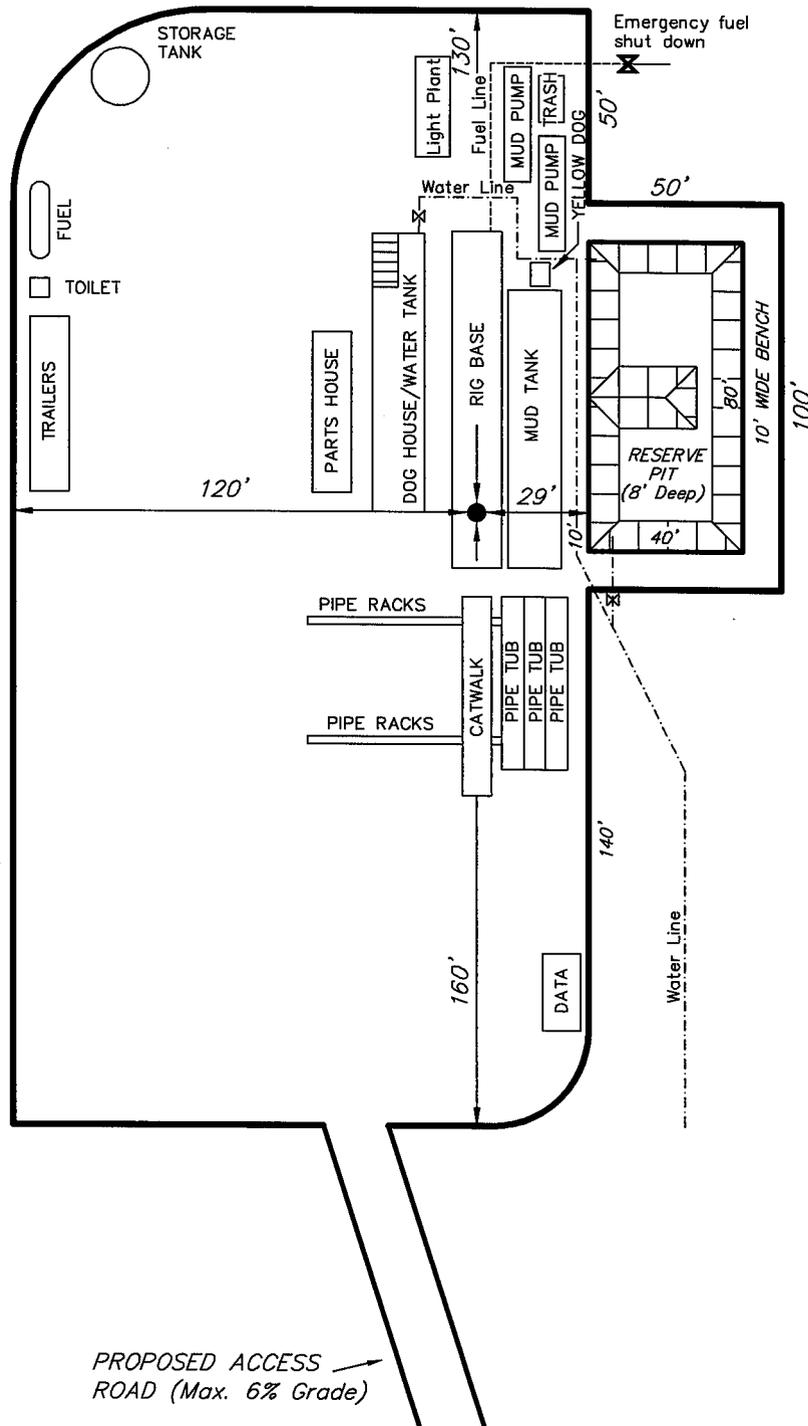
SCALE: 1" = 50'

DRAWN BY: F.T.M.

DATE: 11-22-05

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

**NEWFIELD PRODUCTION COMPANY**  
**TYPICAL RIG LAYOUT**  
**9 MILE 6-22-9-16**



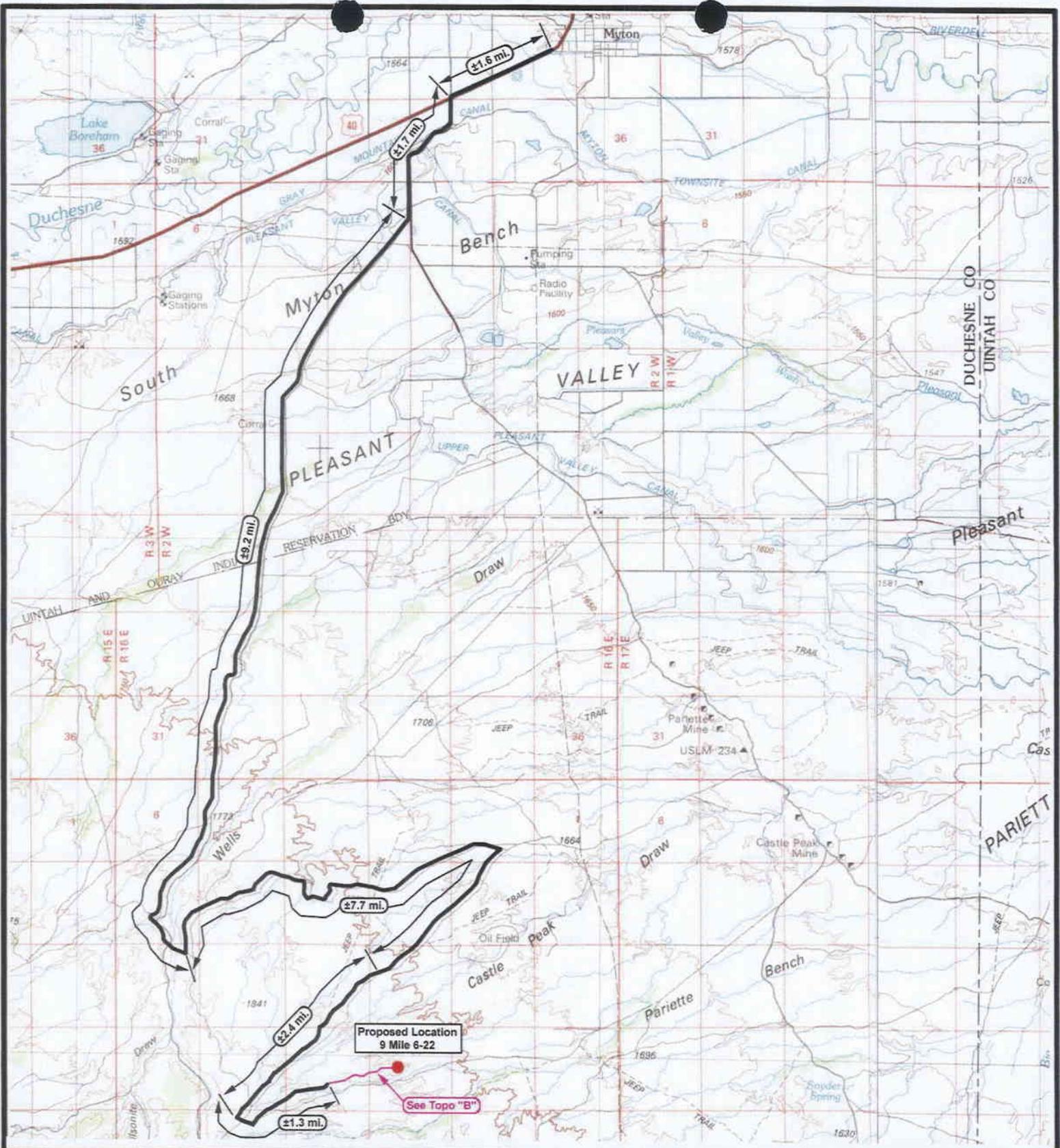
SURVEYED BY: C.M.

SCALE: 1" = 50'

DRAWN BY: F.T.M.

DATE: 11-22-05

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



**NEWFIELD**  
Exploration Company

**9 Mile 6-22-9-16**  
**SEC. 22, T9S, R16E, S.L.B.&M.**



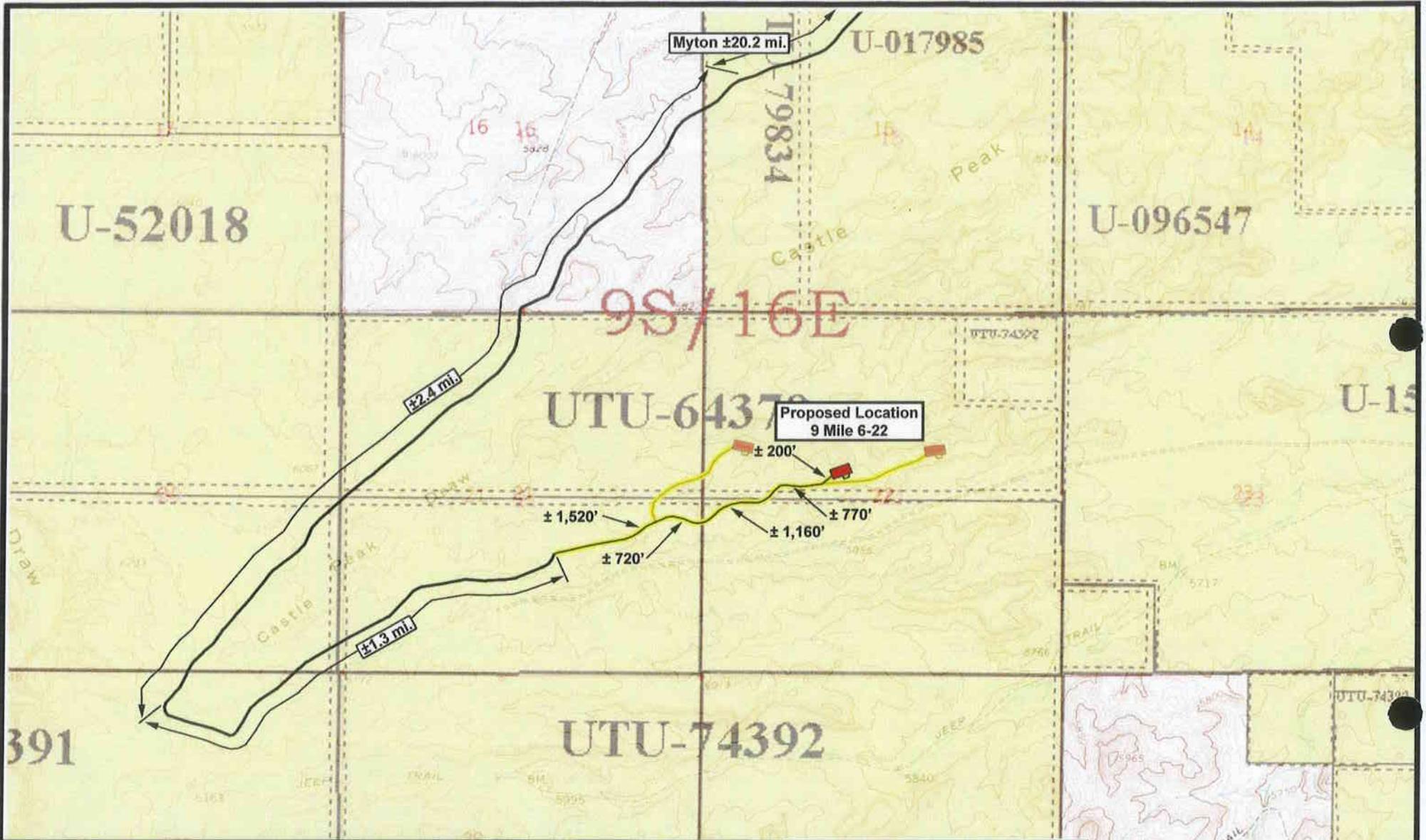
**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1 = 100,000  
DRAWN BY: mw  
DATE: 12-06-2005

**Legend**

- Existing Road
- Proposed Access

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



**NEWFIELD**  
Exploration Company

**9 Mile 6-22-9-16**  
**SEC. 22, T9S, R16E, S.L.B.&M.**



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

SCALE: 1" = 2,000'  
DRAWN BY: mw  
DATE: 12-06-2005

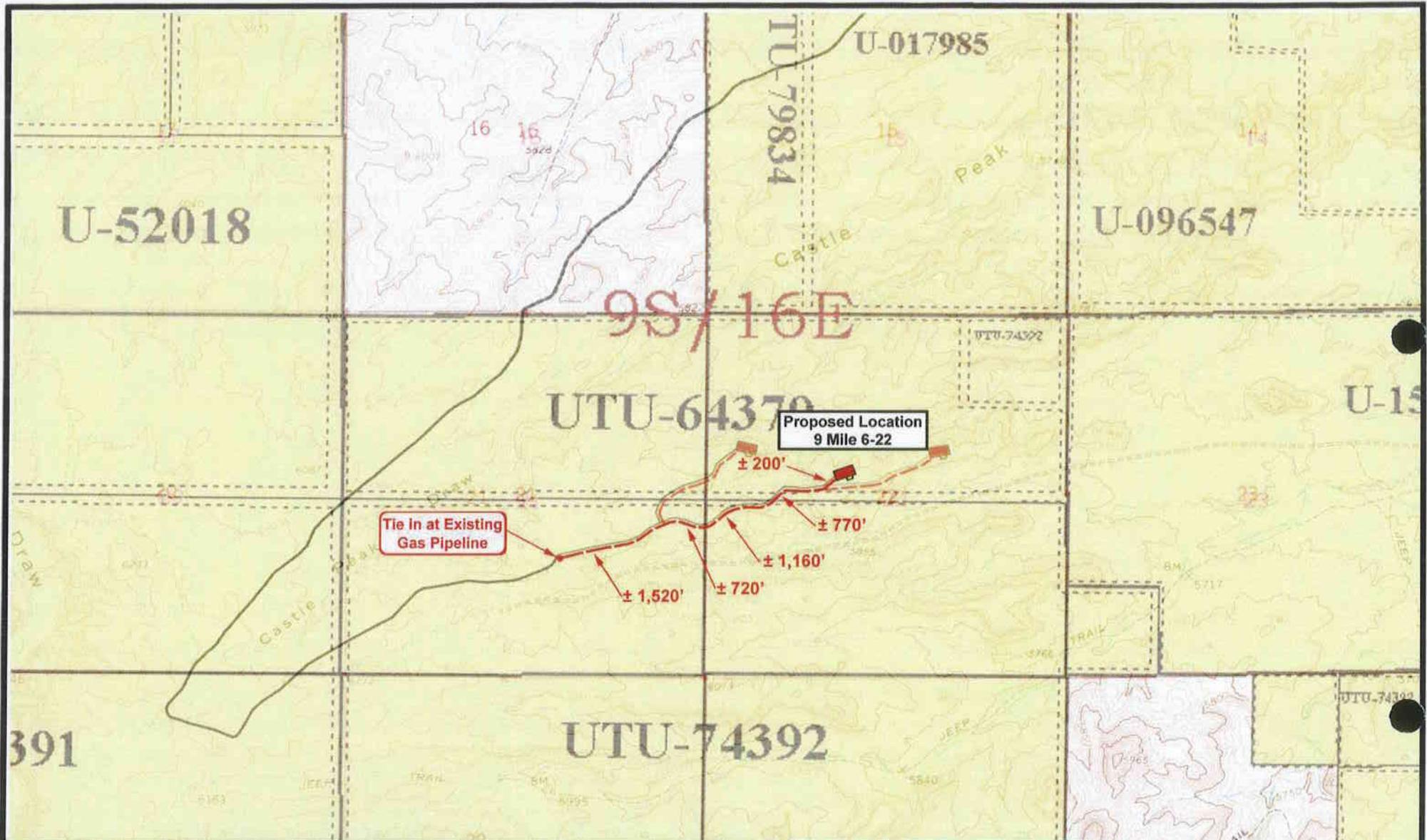
**Legend**

Existing Road

Proposed Access

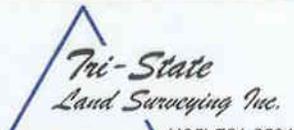
TOPOGRAPHIC MAP

**"B"**



 **NEWFIELD**  
Exploration Company

**9 Mile 6-22-9-16**  
**SEC. 22, T9S, R16E, S.L.B.&M.**

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

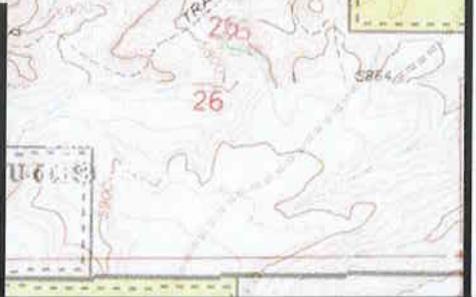
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DRAWN BY: mw  
DATE: 12-06-2005

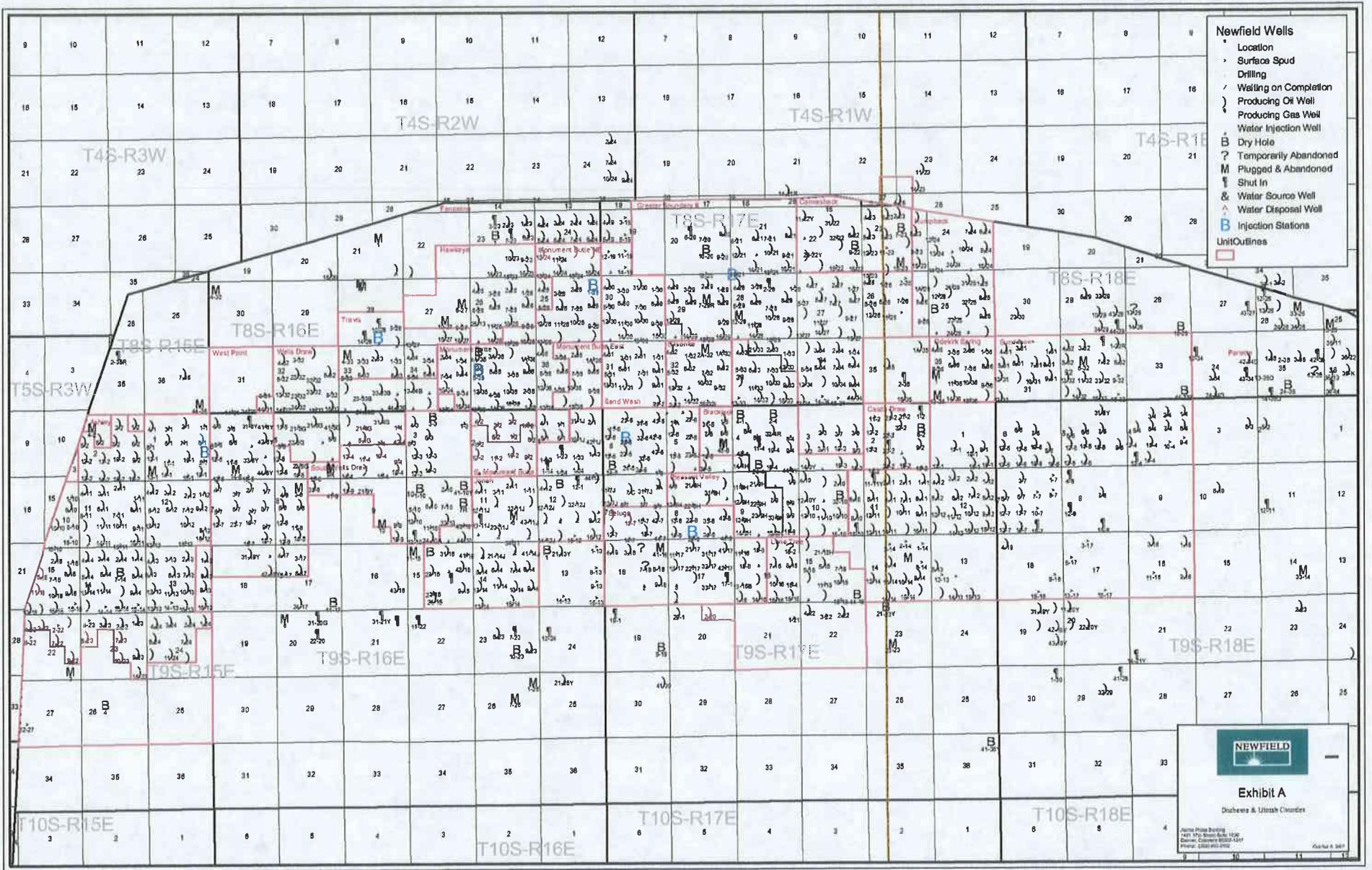
**Legend**

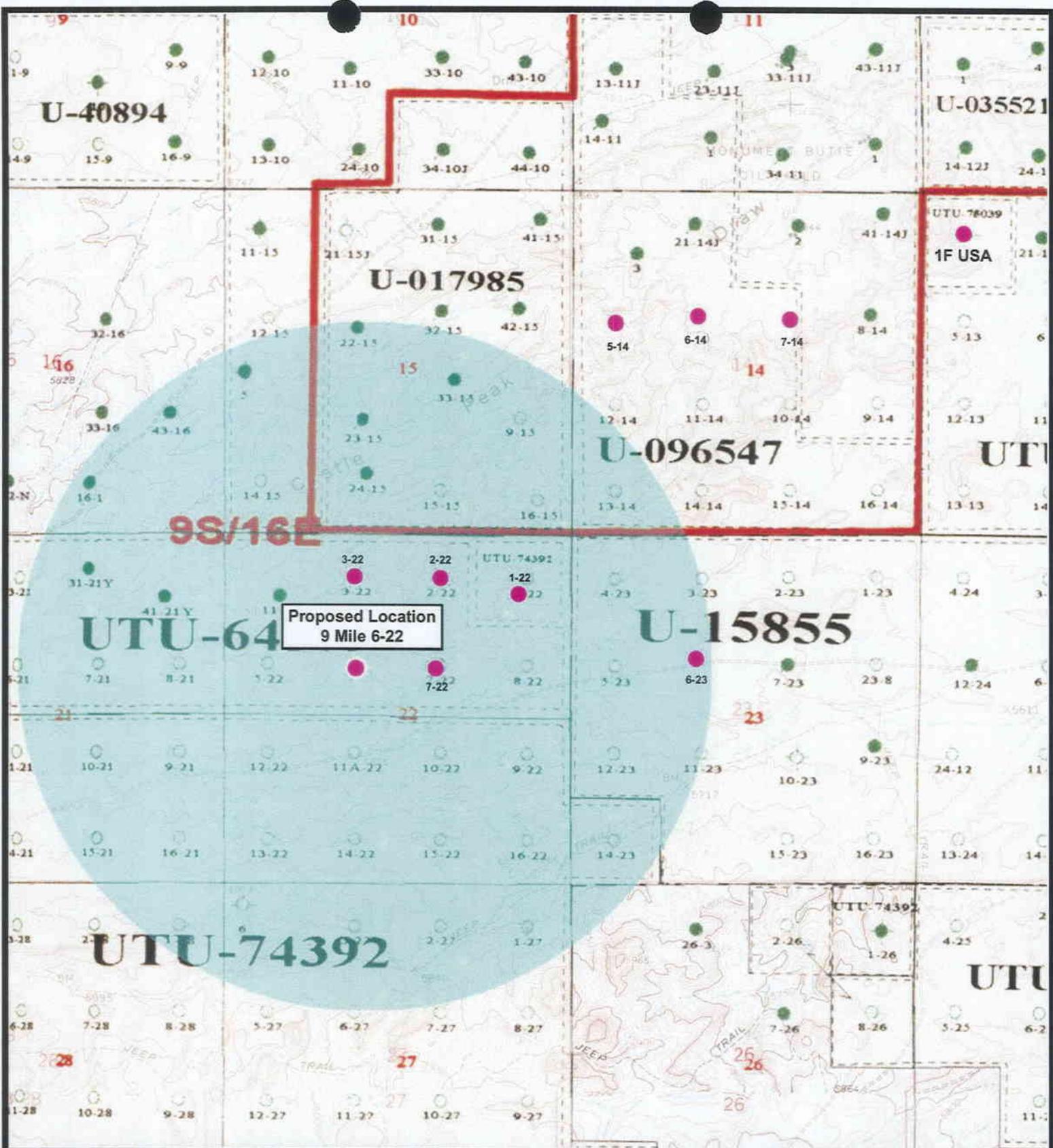
-  Roads
-  Proposed Gas Line

**TOPOGRAPHIC MAP**

**"C"**








**NEWFIELD**  
Exploration Company

**9 Mile 6-22-9-16**  
**SEC. 22, T9S, R16E, S.L.B.&M.**




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

SCALE: 1" = 2,000'  
DRAWN BY: mw  
DATE: 12-06-2005

**Legend**

- Well Locations
- One-Mile Radius

**Exhibit "B"**

# 2-M SYSTEM

Blowout Prevention Equipment Systems

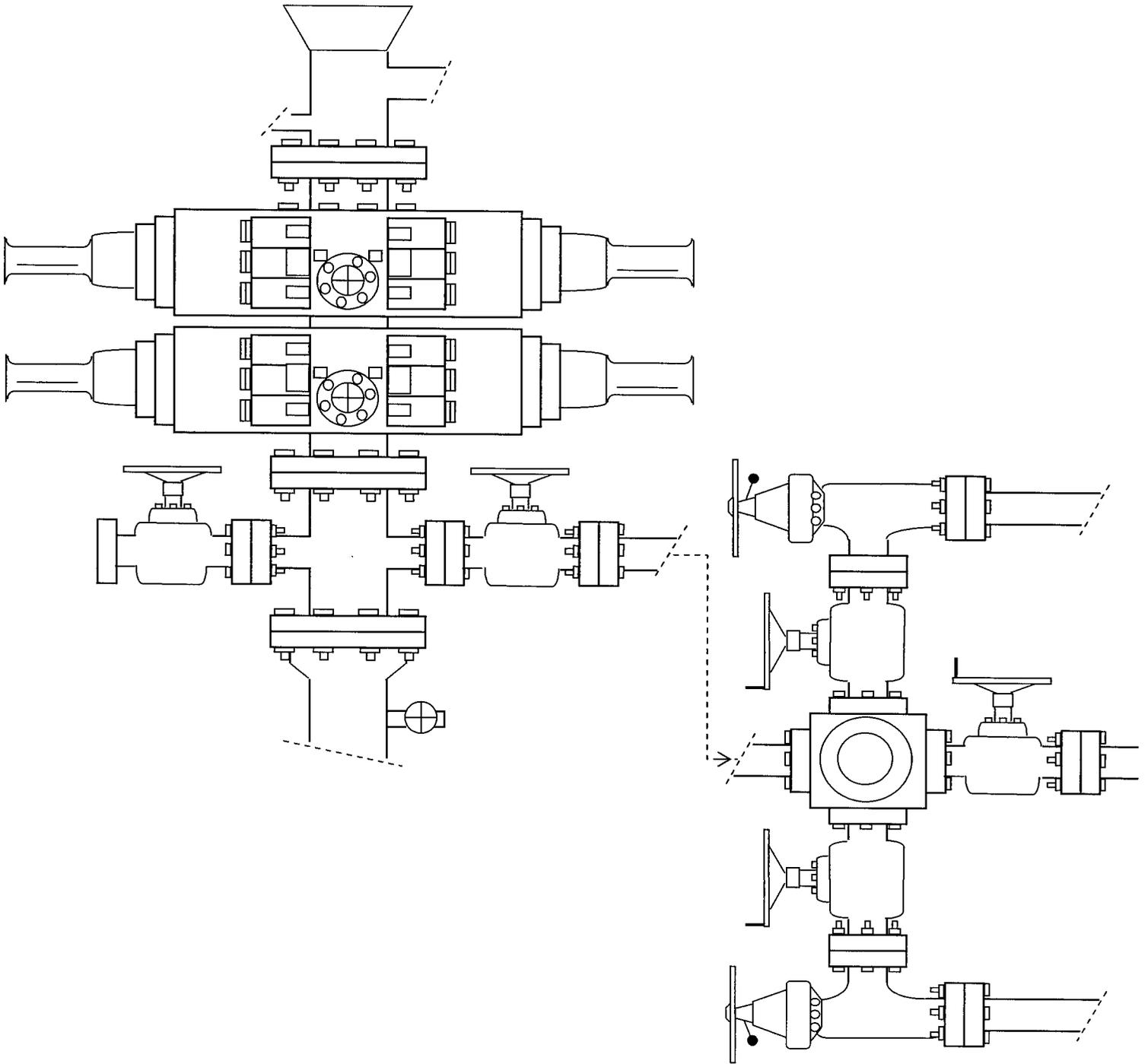


EXHIBIT C

Exhibit "D"  
Page 1 of 2

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

By:

Katie Simon

Prepared For:

Bureau of Land Management  
Vernal Field Office

Prepared Under Contract With:

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

Prepared By:

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

MOAC Report No. 05-240

July 25, 2005

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

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

NEWFIELD PRODUCTION COMPANY

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

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

REPORT OF SURVEY

Prepared for:

Newfield Production Company

Prepared by:

Wade E. Miller  
Consulting Paleontologist  
September 28, 2005

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 01/13/2006

API NO. ASSIGNED: 43-013-33026
--------------------------------

WELL NAME: FEDERAL 6-22-9-16  
 OPERATOR: NEWFIELD PRODUCTION ( N2695 )  
 CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:  
 SENW 22 090S 160E  
 SURFACE: 2340 FNL 2060 FWL  
 BOTTOM: 2340 FNL 2060 FWL  
 COUNTY: DUCHESNE  
 LATITUDE: 40.01715 LONGITUDE: -110.1068  
 UTM SURF EASTINGS: 576225 NORTHINGS: 4429833  
 FIELD NAME: MONUMENT BUTTE ( 105 )

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

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

PROPOSED FORMATION: GRRV  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

Plat  
 Bond: Fed[1] Ind[] Sta[] Fee[]  
 (No. UTB000192 )

Potash (Y/N)  
 Oil Shale 190-5 (B) or 190-3 or 190-13  
 Water Permit  
 (No. MUNICIPAL )

RDCC Review (Y/N)  
 (Date: \_\_\_\_\_ )

Fee Surf Agreement (Y/N)  
 Intent to Commingle (Y/N)

LOCATION AND SITING:

\_\_\_\_ R649-2-3.  
 Unit: \_\_\_\_\_

\_\_\_\_ R649-3-2. General  
 Siting: 460 From Qtr/Qtr & 920' Between Wells

R649-3-3. Exception :  
 \_\_\_\_\_ Drilling Unit  
 Board Cause No: \_\_\_\_\_  
 Eff Date: \_\_\_\_\_  
 Siting: \_\_\_\_\_

\_\_\_\_ R649-3-11. Directional Drill

COMMENTS: SDP, Separate SW

STIPULATIONS: 1- Federal Approval  
2- Spacing Strip





RECEIVED

MAR 03 2006

DIV. OF OIL, GAS & MINING

February 28, 2006

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

Re: Exception Location: Federal 6-22-9-16  
2340' FNL, 2060' FWL SENW Sec 22-T9S-16E  
Duschene Cty., Utah; Lease UTU-64379

Dear Ms. Whitney:

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

The above referenced location is an exception location under Rule 649-3-2, being 154' south of the drilling window tolerance for the SENW of Sec 22-T9S-R16E. The attached plat depicts the proposed drillsite location and illustrates the deviation from the drilling window, in accordance with Rule R649-3-2. The requested location has been selected due to the extreme terrain.

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

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

Sincerely,  
NEWFIELD PRODUCTION COMPANY

A handwritten signature in cursive script that reads "Laurie Deseau".

Laurie Deseau  
Properties Administrator

Exception Location  
Federal 6-22-9-16; Lease UTU-64379

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

By: *Gary Walden*  
GARY WALDEN, Senior Landman  
Print Name and Title

Date: 2-16-06

RECEIVED  
MAR 03 2006  
DIV. OF OIL, GAS & MINING

Form 3160-1  
(September 2001)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
APPLICATION FOR PERMIT TO DRILL OR REENTER

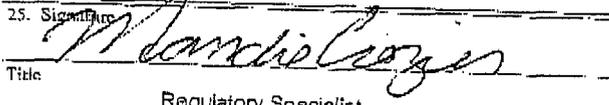
FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

5. Lease Serial No. UTU-64379	
6. If Indian, Allottee or Tribe Name N/A	
7. If Unit or CA Agreement, Name and No. N/A	
8. Lease Name and Well No. Federal G-22-9-16	
9. API Well No.	
1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER	10. Field and Pool, or Exploratory Monument Butte
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	11. Sec., T., R., M., or Blk. and Survey or Area SE/NW Sec. 22, T9S R16E
2. Name of Operator Newfield Production Company	12. County or Parish Duchesne
3a. Address Route #3 Box 3630, Myton UT 84052	13. State UT
3b. Phone No. (include area code) (435) 646-3721	14. Distance in miles and direction from nearest town or post office* Approximatley 24.7 miles southwest of Myton, Utah
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SE/NW 2340' FNL 2060' FWL At proposed prod. zone	15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 300' flse. NA' trunk
16. No. of Acres in lease 1626.36	17. Spacing Unit dedicated to this well 40 Acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1676'	19. Proposed Depth 5975'
20. BLM/BIA Bond No. on file UTB000192	21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5913' GL
22. Approximate date work will start* 1st Quarter 2008	23. Estimated duration Approximately seven (7) days from start to rig fabrication.

24. Attachments

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

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

25. Signature 	Name (Printed/Typed) Mandie Crozier	Date 1/11/06
Title Regulatory Specialist		
Approved by (Signature)	Name (Printed/Typed)	Date
Title	Office	

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

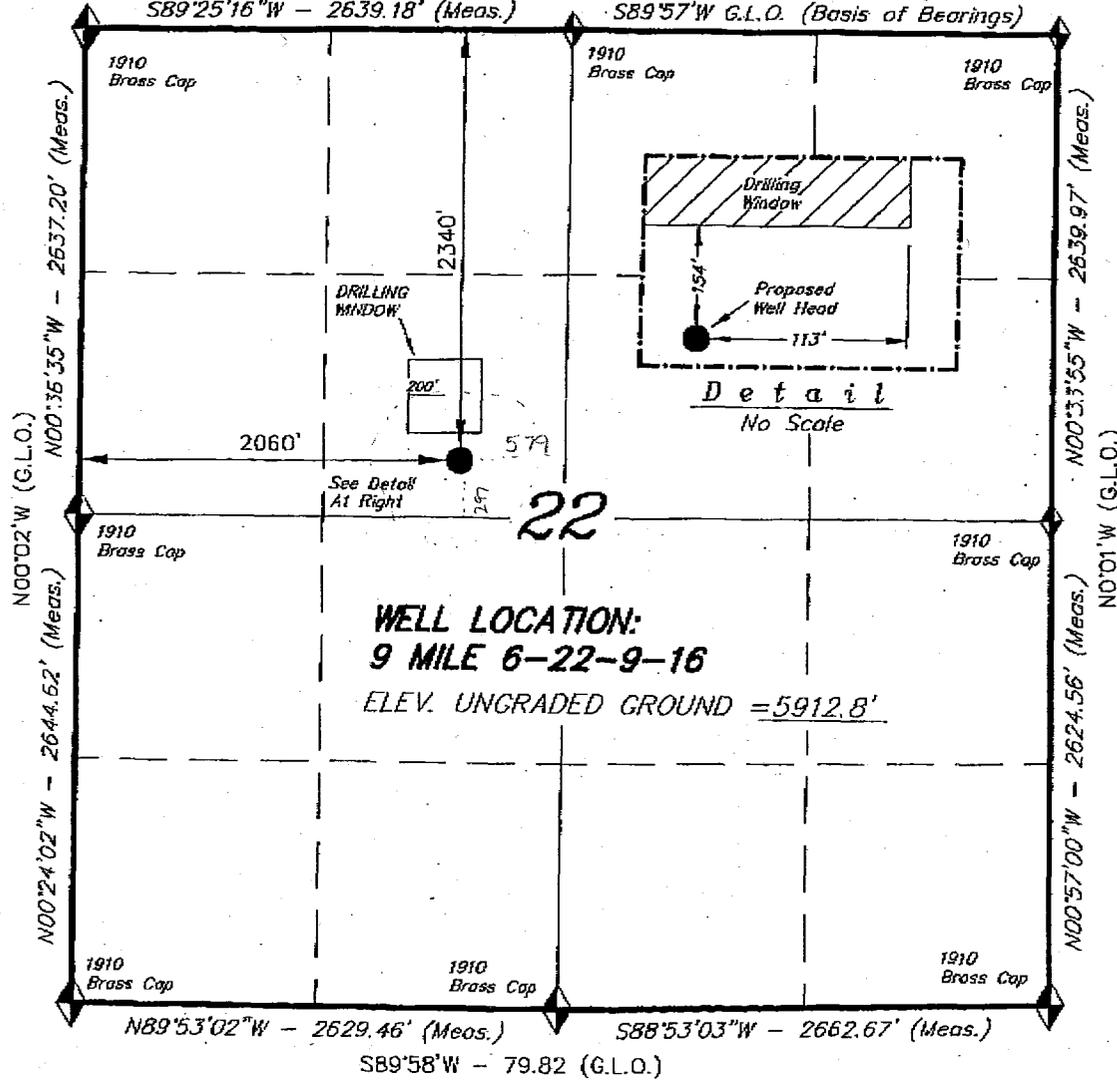
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

\*Instructions on Reverse

RECEIVED  
MAR 03 2006  
DIV. OF OIL, GAS & MINING

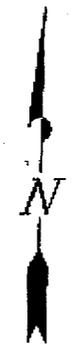
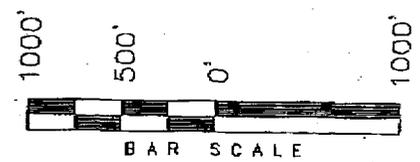
# T9S, R16E, S.L.B.&M.

S89°57'W - 79.16 (G.L.O.) 2629.55' (Measured)  
S89°25'16"W - 2639.18' (Meas.) S89°57'W G.L.O. (Basis of Bearings)

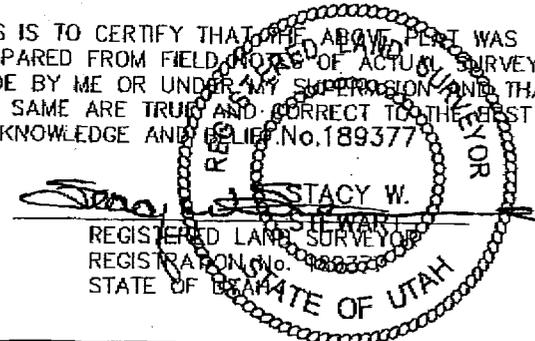


## NEWFIELD PRODUCTION COMPANY

WELL LOCATION, 9 MILE 6-22-9-16,  
LOCATED AS SHOWN IN THE SE 1/4 NW  
1/4 OF SECTION 22, T9S, R16E,  
S.L.B.&M. DUCHESNE COUNTY, UTAH.



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



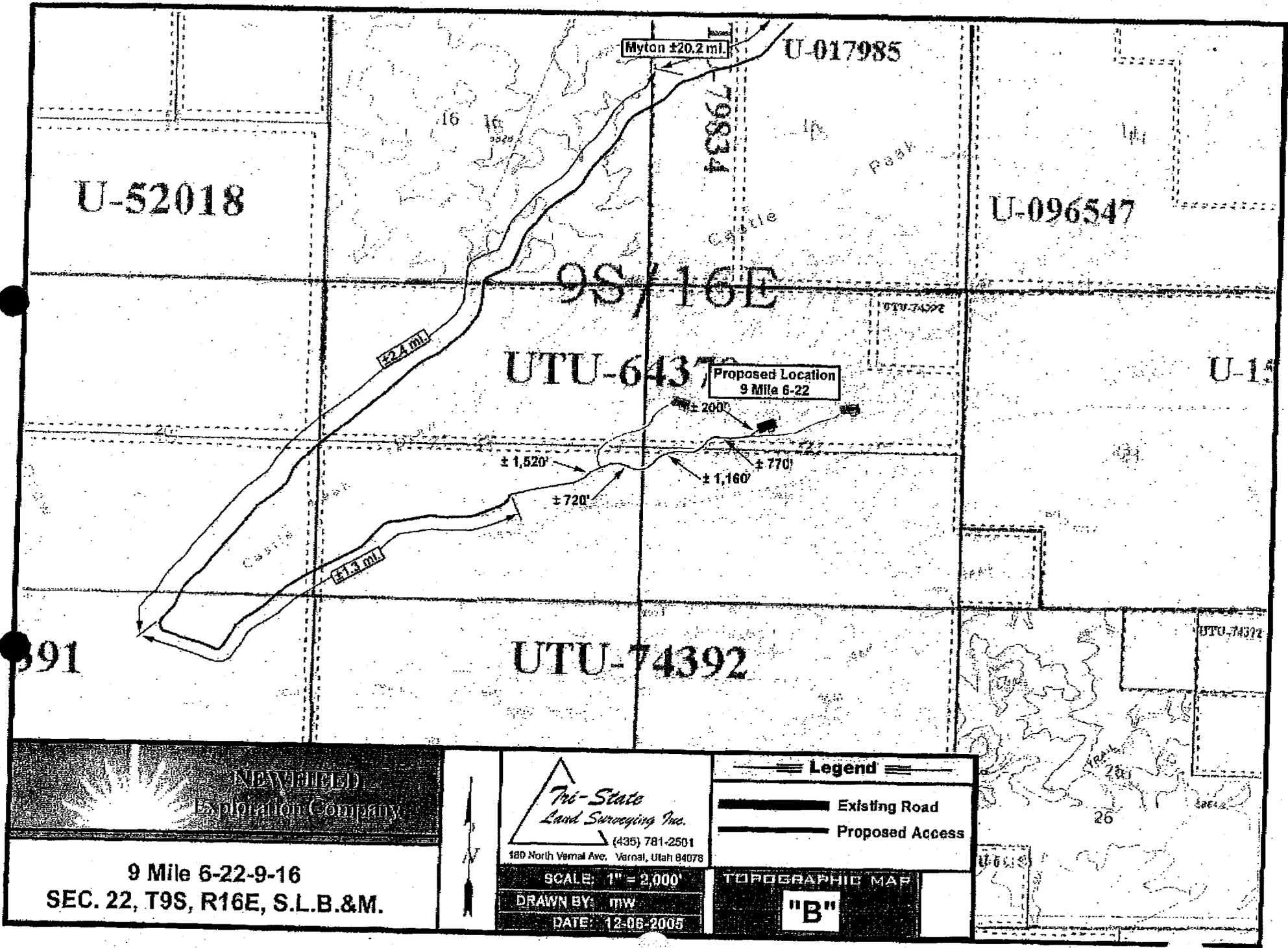
◆ = SECTION CORNERS LOCATED

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

<p>9 MILE 6-22-9-16 (Surface Location) NAD 83 LATITUDE = 40° 01' 01.94" LONGITUDE = 110° 06' 26.86"</p>
---

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

DATE SURVEYED: 11-11-05	SURVEYED BY: C.M.
DATE DRAWN: 12-6-05	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'



**NEWFIELD**  
Exploration Company

**9 Mile 6-22-9-16**  
**SEC. 22, T9S, R16E, S.L.B.&M.**

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

SCALE: 1" = 2,000'  
DRAWN BY: mw  
DATE: 12-06-2005

**Legend**

Existing Road  
Proposed Access

**TOPOGRAPHIC MAP**  
**"B"**



**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*

March 6, 2006

Newfield Production Company  
Route #3 Box 3630  
Myton, UT 84052

Re: Federal 6-22-9-16 Well, 2340' FNL, 2060' FWL, SE NW, Sec. 22, T. 9 South,  
R. 16 East, Duchesne County, Utah

Gentlemen:

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

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-33026.

Sincerely,

Gil Hunt  
Associate Director

mf  
Enclosures

cc: Duchesne County Assessor  
Bureau of Land Management, Vernal District Office

**Operator:** Newfield Production Company  
**Well Name & Number** Federal 6-22-9-16  
**API Number:** 43-013-33026  
**Lease:** UTU-64379

**Location:** SE NW                      Sec. 22                      T. 9 South                      R. 16 East

### Conditions of Approval

1. General

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

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

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

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

- Contact Dan Jarvis at (801) 538-5338

3. Reporting Requirements

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

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

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

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

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

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

8. Well Name and No.  
**FEDERAL 6-22-9-16**

9. API Well No.  
**43-013-33026**

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)  
**2340 FNL 2060 FWL SE/NW Section 22, T9S R16E**

12. CHECK APPROPRIATE BOX(es) 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 <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 3/6/06 (expiration 3/6/07).

This APD has not yet been approved by the BLM.

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 03-06-07  
By: [Signature]

3-7-07  
RM

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MAR 06 2007  
DIV. OF OIL, GAS & MINING

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

Signed Mandie Crozier Title Regulatory Specialist Date 3/5/2007  
Mandie Crozier

CC: UTAH DOGM

(This space for Federal or State office use)

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

Conditions of approval, if any:

CC: Utah DOGM

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

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

**API:** 43-013-33026  
**Well Name:** Federal 6-22-9-16  
**Location:** SE/NW Section 22,T9S R16E  
**Company Permit Issued to:** Newfield Production Company  
**Date Original Permit Issued:** 3/6/2006

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

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

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

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

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

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

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

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

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

Mandi Crozier  
Signature

3/5/2007

Date

Title: Regulatory Specialist

Representing: Newfield Production Company

RECEIVED

MAR 06 2007

DIV. OF OIL, GAS & MINING

RECEIVED

JAN 18 2006

DEPARTMENT OF THE INTERIOR

Form 3160-3  
(September 2001)

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

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-64379
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator Newfield Production Company		7. If Unit or CA Agreement, Name and No. N/A
3a. Address Route #3 Box 3630, Myton UT 84052	3b. Phone No. (include area code) (435) 646-3721	8. Lease Name and Well No. Federal 6-22-9-16
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SE/NW 2340' FNL 2060' FWL At proposed prod. zone		9. API Well No. 431013.33026
14. Distance in miles and direction from nearest town or post office* Approximatley 24.7 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. 300' f/lse, NA' f/unit	16. No. of Acres in lease 1626.36	11. Sec., T., R., M., or Blk. and Survey or Area SE/NW Sec. 22, T9S R16E
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1676'	19. Proposed Depth 5975'	12. County or Parish Duchesne
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5913' GL	22. Approximate date work will start* 1st Quarter 2006	13. State UT
20. BLM/BLA Bond No. on file UTB000192		
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 1/11/06
Title Regulatory Specialist		

Approved by (Signature) <i>Jerry Kowalski</i>	Name (Printed/Typed) Jerry Kowalski	Date 10-2-2007
Title Assistant Field Manager Lands & Mineral Resources		
Office VERNAL FIELD OFFICE		

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

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

\*(Instructions on reverse)

NOTICE OF APPROVAL **CONDITIONS OF APPROVAL ATTACHED**  
RECEIVED

OCT 10 2007

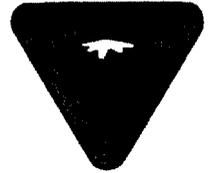
DIV. OF OIL, GAS & MINING

07BM4731A



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

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



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

**Company:** Newfield Production Company  
**Well No:** Federal 6-22-9-16  
**API No:** 43-013-33026

**Location:** SENW, Sec 22, T9S, R16E  
**Lease No:** UTU-64379  
**Agreement:** N/A

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	435-781-4490	435-828-4470
Petroleum Engineer:	Michael Lee	435-781-4432	435-828-7875
Petroleum Engineer:	James Ashley	435-781-4470	435-828-7874
Petroleum Engineer:	Ryan Angus	435-781-4430	435-828-7368
Supervisory Petroleum Technician:	Jamie Sparger	435-781-4502	435-828-3913
NRS/Enviro Scientist:	Paul Buhler	435-781-4475	435-828-4029
NRS/Enviro Scientist:	Karl Wright	435-781-4484	
NRS/Enviro Scientist:	Holly Villa	435-781-4404	
NRS/Enviro Scientist:	Chuck MacDonald	435-781-4441	
NRS/Enviro Scientist:	Jannice Cutler	435-781-3400	
NRS/Enviro Scientist:	Michael Cutler	435-781-3401	
NRS/Enviro Scientist:	Anna Figueroa	435-781-3407	
NRS/Enviro Scientist:	Verlyn Pindell	435-781-3402	
NRS/Enviro Scientist:	Darren Williams	435-781-4447	
NRS/Enviro Scientist:	Nathan Packer	435-781-3405	

Fax: 435-781-4410

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

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

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

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

**General Surface COAs**

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

•  
**Lease Notices (field review and RMP):**

- Lessee/operator is given notice the area has been identified as containing Golden Eagle habitat. Modifications may be required in the Surface Use Plan to protect the Golden and/or their habitat from surface disturbing activities in accordance with Section 6 of the lease terms, Endangered Species Act, and 43 CFR 3101.1-2.
- Lessee/operator is given notice the area has been identified as containing Ferruginous Hawk habitat. Modifications may be required in the Surface Use Plan to protect the Ferruginous Hawk and/or their habitat from surface disturbing activities in accordance with Section 6 of the lease terms, Endangered Species Act, and 43 CFR 3101.1-2.

**Comments:**

- The proposed area contains poor Mountain Plover habitat due to dense vegetation and many rolling hills.
- Adhere to Executive Order 5327 of April 15, 1930, stipulations for lands in oil shale withdrawal.
- All applicable local, state, and/or federal laws, regulations, and/or statutes will be complied with.

**Specific Surface COAs**

- All traffic related to this action will be restricted to approved routes. Cross-country vehicle travel will not be allowed.
- No vehicle travel, construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support vehicles and/or construction equipment. If such equipment creates ruts in excess of four inches deep, the soil shall be deemed too wet to adequately support construction equipment.
- The access road will be crowned and ditched. Flat-bladed roads are not allowed.
- If additional erosion occurs during the life of this project, more culverts, low water crossings, berms, wing ditches or etc. will be needed to control the erosion.

- Low-water crossings will be appropriately constructed to avoid sedimentation of drainage ways and other water resources.
- Pipelines will be buried at all major drainage crossings.
- Prevent fill and stock piles from entering drainages.
- The reserve pit will be lined with a 12 ml or greater liner and felt prior to spudding.
- The liner is to be cut 5 feet below ground surface or at the level of the cuttings, whichever is deeper, and the excess liner material is to be disposed of at an authorized disposal site.
- When the reserve pit contains fluids or toxic substances, the operator must ensure animals do not ingest or become entrapped in pit fluids.
- If Uinta Basin hookless cactus or other special status plants are found, construction will cease and the AO will be notified to determine the appropriate mitigation.

Interim Reclamation:

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

The interim seed mix for this location shall be:

Crested wheat grass ( <i>Agropyron cristatum</i> ):	4 lbs/acre
Needle and Thread grass ( <i>Hesperostipa comata</i> ):	4 lbs/acre
Indian Rice grass ( <i>Achnatherum hymenoides</i> ):	4 lbs/acre

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

- Certified weed free seed and straw shall be used for final and interim and reclamation. The operator shall submit a receipt with certification for the seed and any straw used on location.
- The topsoil from the reserve pit shall be stripped and piled separately near the reserve pit. When the reserve pit is closed it shall be re-contoured, then the area shall be seeded in the same manner as the topsoil.
- There shall be no primary or secondary weeds in the seed mixture.
- The above listed seed mix shall be used to seed all unused portions of the pad including the topsoil and the 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 mixtures shall be doubled and the area raked or chained to cover the seed. Seeding shall be conducted in the fall.

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

## **DOWNHOLE CONDITIONS OF APPROVAL**

### **SITE SPECIFIC DOWNHOLE CONDITIONS OF APPROVAL**

- A variance is granted for O.O. #2 III. E. 1.
- The blooie line shall be straight or have targeted tees for bends in the line.
- Not requiring an automatic igniter or continuous pilot on the blooie line
- Run a cement bond log from TD to the base of the surface casing shoe.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

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

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth

(from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- 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.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement 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](mailto:UT_VN_Welllogs@BLM.gov). This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

## **OPERATING REQUIREMENT REMINDERS:**

- 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.
- 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.
- 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 the BLM Vernal Field Office.
- 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.
- 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.

- 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.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal 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. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- 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.
- 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 and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- 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.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

**DIVISION OF OIL, GAS AND MINING**

**SPUDDING INFORMATION**

Name of Company: NEWFIELD PRODUCTION COMPANY

Well Name: FEDERAL 6-22-9-16

Api No: 43-013-33026 Lease Type: FEDERAL

Section 22 Township 09S Range 16E County DUCHESNE

Drilling Contractor NDSI RIG # NS#1

**SPUDDED:**

Date 03/13/08

Time 1:30 PM

How DRY

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

Reported by BRANDON HALL

Telephone # (435) 828-6110

Date 03/14/08 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.

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

1. Type of Well  
 Oil Well    Gas Well    Other

2. Name of Operator  
 NEWFIELD PRODUCTION COMPANY

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

3b. Phone   (include area code)  
 435.646.3721

4. Location of Well   (Footage, Sec., T., R., M., or Survey Description)  
 2340 FNL 2060 EWL  
 SENW Section 22 T9S R16E

5. Lease Serial No.  
 Federal 6-22-9-16

6. If Indian, Allottee or Tribe Name.

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

8. Well Name and No.  
 FEDERAL 6-22-9-16

9. API Well No.  
 4301333026

10. Field and Pool, or Exploratory Area  
 MONUMENT BUTTE

11. County or Parish, State  
 DUCHESNE, UT

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

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

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

On 3/13/08 MIRU NDSI NS#1. Spud well @ 1:30pm. Drill 335' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24 # csgn. Set @ 302.78 On 3/16/08 cement with 160 sks of class "G" w/ 3% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cf/ sk yield. Returned 5 bbls cement to pit. WOC.

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

Title  
 Drilling Foreman

Signature

Date  
 03/17/2008

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by  
 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.

Title \_\_\_\_\_ Date \_\_\_\_\_  
 Office \_\_\_\_\_

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

(Instructions on reverse)

RECEIVED

MAR 18 2008

DIV. OF OIL, GAS & MINING

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

8 5/8 CASING SET AT 302.78

LAST CASING 8 5/8" SET AT 302.78'  
 DATUM 12' KB  
 DATUM TO CUT OFF CASING \_\_\_\_\_  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER 335 LOGGER \_\_\_\_\_  
 HOLE SIZE 12 1/4

OPERATOR NewField Production Company  
 WELL Federal 6-22-9-16  
 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 39.28'					
		WHI - 92 csg head			8rd	A	0.95
7	8 5/8"	Maverick ST&C csg	24#	J-55	8rd	A	290.93
LAST CASING		<b>GUIDE</b> shoe			8rd	A	0.9
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			292.78
TOTAL LENGTH OF STRING		292.78	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>302.78</b>
TOTAL		290.93	7	} COMPARE			
TOTAL CSG. DEL. (W/O THRDS)		290.93	7				
TIMING		1ST STAGE					
BEGIN RUN CSG.	Spud	1:30 PM	3/13/2008	GOOD CIRC THRU JOB		Yes	
CSG IN HOLE		10:00 AM	3/14/2008	Bbls CMT CIRC TO SURFACE		5	
BEGIN CIRC		11:18 AM	3/16/2008	RECIPROCATED PIPE FOR		THRU _____ FT STROKE	
BEGIN PUMP CMT.		11:30 AM	3/16/2008			N/A	
BEGIN DSPL. CMT		11:45 AM	3/16/2008	BUMPED PLUG TO		200 _____ PSI	
PLUG DOWN		11:52 AM	3/16/2008				

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			

CSG IN HOLE \_\_\_\_\_  
 GOMRAN REPRESENTATIVE Don Bastian DATE 3/16/2008  
 BEGIN PUMP \_\_\_\_\_  
 BEGIN DSPL. CMT \_\_\_\_\_  
 PLUG DOWN \_\_\_\_\_  
 CEMENT USED \_\_\_\_\_  
 STAGE \_\_\_\_\_  
 TOTAL \_\_\_\_\_

Form 3160-5  
(September 2001)

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.  
**UTU 64379**

6. If Indian, Allottee or Tribe Name.

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

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

1. Type of Well  
 Oil Well  Gas Well  Other

8. Well Name and No.  
**FEDERAL 6-22-9-16**

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

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

3b. Phone (include area code)  
435.646.3721

9. API Well No.  
4301333026

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
2340 FNL 2060 FWL

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

11. County or Parish, State

**DUCHESNE, UT**

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production(Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Weekly Status Report</u>
	<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 recomple 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 recomple 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 4/2/08 MIRU Patterson Rig #52. Set all equipment. Pressure test Kelly, TIW, Choke manifold, & Bop's to 2,000 psi. Test 8.625 csgn to 1,500 psi. Vernal BLM field, & Roosevelt DOGM office was notified of test. PU BHA and tag cement @ 263'. Drill out cement & shoe. Drill a 7.875 hole with fresh water to a depth of 5931'. Lay down drill string & BHA. Open hole log w/ Dig/SP/GR log's TD to surface. PU & TIH with Guide shoe, shoe jt, float collar, 139 jt's of 5.5 J-55, 15.5# csgn. Set @ 5904.35' / KB. Cement with 300 sks cement mixed @ 11.0 ppg & 3.43 yld. The 400 sks cement mixed @ 14.4 ppg & 1.24 yld. Returned 7 bbls of cement to reserve pit. Nipple down Bop's. Drop slips @ 108,000 #'s tension. Release rig @ 5:00 pm 4/10/08.

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

Don Bastian

Signature *Don Bastian*

Title

Drilling Foreman

Date

04/11/2008

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

Approved by

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.

Title

Date

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**

**APR 14 2008**

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

NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

COMPANY \_\_\_\_\_  
 REGION \_\_\_\_\_  
 PROJECT \_\_\_\_\_  
 LAST CASING 8 5/8" SET # 302  
 DATUM 12' KB  
 DATUM TO CUT OFF CASING 12'  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER 5931' Loggers 5918'  
 HOLE SIZE 7 7/8"

CASING SET AT 5904.35  
 Flt clr @ 5882.50'  
 OPERATOR Newfield Production Company  
 WELL Federal 6-22-9-16  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # Patterson #52

LOG OF CASING STRING:

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		Landing Jt					14
		Short jt 3880' (6.12')					
139	5 1/2"	ETC LT & C casing	15.5#	J-55	8rd	A	5870.5
		Float collar					0.6
1	5 1/2"	ETC LT&C csg	15.5#	J-55	8rd	A	20.6
LAST CASING		GUIDE shoe			8rd	A	0.65
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			5906.35
TOTAL LENGTH OF STRING		5906.35	140	LESS CUT OFF PIECE			14
LESS NON CSG. ITEMS		15.25		PLUS DATUM TO T/CUT OFF CSG			12
PLUS FULL JTS. LEFT OUT		169.79	4	CASING SET DEPTH			<b>5904.35</b>
TOTAL		<b>6060.89</b>	144	} COMPARE			
TOTAL CSG. DEL. (W/O THRDS)		6060.89	144				
TIMING		1ST STAGE	2nd STAGE				
BEGIN RUN CSG.		3:30 AM	4/10/2008	GOOD CIRC THRU JOB			Yes
CSG. IN HOLE		8:30 AM	4/10/2008	Bbls CMT CIRC TO SURFACE			7
BEGIN CIRC		8:30 AM	4/10/2008	RECIPROCATED PIPE FOR			THRUSTROKE NA
BEGIN PUMP CMT		10:40 AM	4/10/2008	DID BACK PRES. VALVE HOLD ?			Yes
BEGIN DSPL. CMT		11:25 AM	4/10/2008	BUMPED PLUG TO			1890 PSI
PLUG DOWN		11:50 AM	4/10/2008				

CEMENT USED		CEMENT COMPANY- <b>B. J.</b>	
STAGE	INVT #	CEMENT TYPE & ADDITIVES	
1	300	Premlite II w/ 10% gel + 3 % KCL, 3#s /sk CSE + 2# sk/kolseal + 1/2#s/sk Cello Flake	
LESS NON C		mixed @ 11.0 ppg W / 3.43 cf/sk yield	
2	400	50/50 poz W/ 2% Gel + 3% KCL, .5%EC1, 1/4# sk C.F. 2% gel. 3% SM mixed @ 14.4 ppg W/ 1.24 YLD	
CENTRALIZER & SCRATCHER PLACEMENT		SHOW MAKE & SPACING	
Centralizers - Middle first, top second & third. Then every third collar for a total of 20.			

CSG IN HOLE \_\_\_\_\_  
 COMPANY REPRESENTATIVE Don Bastian DATE 4/10/2008  
 BEGIN PUMP CMT \_\_\_\_\_  
 BEGIN DSPL CMT \_\_\_\_\_  
 PLUG DOWN \_\_\_\_\_  
 CEMENT USED \_\_\_\_\_  
 STAGE INVT # \_\_\_\_\_  
 (W/ L) \_\_\_\_\_  
 (S) \_\_\_\_\_  
 (D) \_\_\_\_\_

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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
UTU-64379

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER

8. WELL NAME and NUMBER:  
FEDERAL 6-22-9-16

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:  
4301333026

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

PHONE NUMBER  
435.646.3721

10. FIELD AND POOL, OR WILDCAT:  
MONUMENT BUTTE

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: 2340 FNL 2060 FWL

COUNTY: DUCHESNE

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

STATE: UT

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

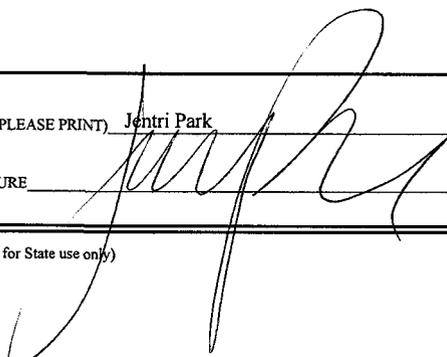
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: 05/23/2008	<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 05/06/08, attached is a daily completion status report.

NAME (PLEASE PRINT) Jentri Park

TITLE Production Clerk

SIGNATURE 

DATE 05/23/2008

(This space for State use only)

**RECEIVED**

**MAY 27 2008**

DIV. OF OIL, GAS & MINING

**Daily Activity Report**

Format For Sundry

**FEDERAL 6-22-9-16****2/1/2008 To 6/30/2008****4/25/2008 Day: 1****Completion**

Rigless on 4/24/2008 - Instal 5K 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 @ 5854' & cement top @ 196'. Perforate stage #1, CP5 sds @ 5734-5749' & CP4 sds @ 5693-5699' w/ 3-1/8" Slick Guns (19 gram, .49"HE, 120°) w/ 4 spf for total of 48 shots. 140 bbls EWTR. SIFN.

**5/1/2008 Day: 2****Completion**

Rigless on 4/30/2008 - RU BJ Services "Ram Head" frac flange. RU BJ & frac CP5 & CP4 sds, stage #1 down casing w/ 16,361#'s of 20/40 sand in 302 bbls of Lightning 17 frac fluid. Open well w/ 0 psi on casing. Perfs broke down @ 3717psi. Pump 30 gals of Techna Hib Chemical. Treated @ ave pressure of 2441 w/ ave rate of 23.2 bpm w/ 6.5 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2055. 442 bbls EWTR. Leave pressure on well. RU Perforators LLC. WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" (6K) composite flow through frac plug & 7' perf gun. Set plug @ 5620'. Perforate CP2 sds @ 5510-17' w/ 3-1/8" Slick Guns (19 gram, .49"HE, 120°) w/ 4 spf for total of 28 shots. RU BJ & frac stage #2 w/ 15,257#'s of 20/40 sand in 279 bbls of Lightning 17 frac fluid. Open well w/ 1695 psi on casing. Perfs broke down @ 2497 psi. Pump 30 gals of Techna Hib Chemical. Treated @ ave pressure of 2046 w/ ave rate of 23.2 bpm w/ 6.5 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 1762. 721 bbls EWTR. Leave pressure on well. RU WLT. RIH w/ frac plug & 7', 4' perf gun. Set plug @ 5150'. Perforate A3 sds @ 5044-51' & A1 sds @ 4976-80' w/ 4 spf for total of 44 shots. RU BJ & frac stage #3 w/ 14,997#'s of 20/40 sand in 235 bbls of Lightning 17 frac fluid. Open well w/ 1626 psi on casing. Perfs broke down @ 1911 psi. Pump 30 gals of Techna Hib Chemical. Treated @ ave pressure of 2158 w/ ave rate of 23.2 bpm w/ 6.5 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 1884. 956 bbls EWTR. Leave pressure on well. RU WLT. RIH w/ frac plug & 15' perf gun. Set plug @ 4840'. Perforate C sds @ 4724-39' w/ 4 spf for total of 60 shots. RU BJ & frac Stage #4 w/ 115,315#'s of 20/40 sand in 825 bbls of Lightning 17 frac fluid. Open well w/ 1555 psi on casing. Perfs broke down @ 3108 psi. Pump 30 gals of Techna Hib Chemical. Treated @ ave pressure of 1876 w/ ave rate of 23.2 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2044. 1781 bbls EWTR. Leave pressure on well. RU WLT. RIH w/ frac plug & 9' perf gun. Set plug @ 4620'. Perforate D1 sds @ 4566-75' w/ 4 spf for total of 36 shots. RU BJ & frac Stage #5 w/ 40,206#'s of 20/40 sand in 394 bbls of Lightning 17 frac fluid. Open well w/ 1475 psi on casing. Perfs broke down @ 3184 psi. Pump 30 gals of Techna Hib Chemical. Treated @ ave pressure of 1832 w/ ave rate of 23.2 bpm w/ 8 ppg of sand. ISIP was 1850. 2175 bbls EWTR. RD BJ & WLT. Flow well back. Well flowed for 6 hours & died w/ 420 bbls rec'd. SIFN.

**5/3/2008 Day: 3****Completion**

Western #1 on 5/2/2008 - MIRUSU. Open well w/ 0 psi on casing. RD Cameron BOP's & 5Kfrac head. Instal 3K production tbg head & Scheafer BOP's. RU 4-3/4" Chomp bit & bit sub. Tally, pick up & TIH w/ new 2-7/8", J-55, 6.5# tbg & TIH to tag plug @ 4620'. RU swivel, pump & tanks. Drlg out plug #1. TIH w/ tbg to tag plug @

4840'. Drlg out plug #2. TIH w/ tbg to tag plug @ 5150'. Drlg out plug #3. Circulate well clean. SIFN.

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**5/6/2008 Day: 4**

**Completion**

Western #1 on 5/5/2008 - Open well w/ 250 psi on casing. TIH w/ tbg to tag plug. RU swivel, pump & tanks. C/O to plug @ 5150'. Drlg out plug #4. TIH w/ tbg to tag plug @ 5620'. Drlg out plug #5. TIH w/ tbg to tag sand @ 5713'. C/O to PBD @ 5883'. LD 2 jts tbg. RU swab equipment. Made 11 runs to rec'd 115 bbls of fluid. IFL was surface. FFL was 2300'. Last run showed trace of oil w/ no sand. TIH w/ tbg to tag 11' of new sand. C/O to PBTD @ 5883'. TOOH w/ tbg. LD bit & bit sub. TIH w/ BP, 6 jts tbg, Nipple, PBGA, 1 jt tbg, SN, 2 jts tbg, TA new CDI 45,000# shear, 157 jts tbg. EOT @ 4949'. SIFN.

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**5/7/2008 Day: 5**

**Completion**

Western #1 on 5/6/2008 - Open well w/ 0 psi on casing. TIH w/ tbg 20 jts in RD BOP's. Set TA @ 5290' w/ 16,000#'s tension w/ SN @ 5356' & EOT @ 5583'. Flush tbg 60 bbls water. Pick up & prime pump. TIH w/ new 2-1/2" x 1-1/2" x 12' x 16' RHAC CDI pump w/ 118"SL, 6- 1-1/2" weight rods, 20- 3/4" guided rods, 88- 3/4" plain rods, 99- 3/4" guided rods, 2', 6', 8' x 3/4" pony rods, 1-1/2" x 26' polished rod. Space pump. Test tbg & pump to 800 psi. RDMOSU. POP @ 6:30PM w/ 86"SL @ 5 SPM. Final Report.

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**Pertinent Files: Go to File List**

(See other instructions on reverse side)

OMB NO. 1004-0137  
Expires: February 28, 1995

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

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

5. LEASE DESIGNATION AND SERIAL NO.

**UTU-64379**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

**NA**

7. UNIT AGREEMENT NAME

**Federal**

8. FARM OR LEASE NAME, WELL NO.

**Federal 6-22-9-16**

9. WELL NO.

**43-013-33026**

10. FIELD AND POOL OR WILDCAT

**Monument Butte**

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

**Sec. 22, T9S, R16E**

1a. TYPE OF WORK

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

1b. TYPE OF WELL

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

2. NAME OF OPERATOR

**Newfield Exploration Company**

3. ADDRESS AND TELEPHONE NO.

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

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

At Surface **2340' FNL & 2060' FWL (SE/NW) Sec. 22, T9S, R16E**

At top prod. Interval reported below

At total depth

14. API NO. **43-013-33026** DATE ISSUED **03-06-07**

12. COUNTY OR PARISH

**Duchesne**

13. STATE

**UT**

15. DATE SPUNDED

**03-13-08**

16. DATE T.D. REACHED

**04-09-08**

17. DATE COMPL. (Ready to prod.)

**05-06-08**

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

**5913' GL**

19. ELEV. CASINGHEAD

**5925' KB**

20. TOTAL DEPTH, MD & TVD

**5931'**

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

**5883'**

22. IF MULTIPLE COMPL., HOW MANY\*

**----->**

23. INTERVALS DRILLED BY

**----->**

ROTARY TOOLS

**X**

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)\*

**Green River 4566'-5749'**

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**

28. 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#	303'	12-1/4"	To surface with 160 sx Class "G" cmt	
5-1/2" - J-55	15.5#	5904'	7-7/8"	300 sx Premlite II and 400 sx 50/50 Poz	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	EOT @ 5583'	TA @ 5290'

31. PERFORATION RECORD (Interval, size and number)

INTERVAL	SIZE	SPF/NUMBER	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
(CP5 & 4) 5734'-49', 5693'-99'	.49"	4/48	5693'-5749'	Frac w/ 16,361# 20/40 sand in 302 bbls fluid
(CP2) 5510'-5517'	.49"	4/28	5510'-5517'	Frac w/ 15,257# 20/40 sand in 279 bbls fluid
(A3 & 1) 5044'-51', 4976'-80'	.49"	4/44	4976'-5051'	Frac w/ 14,997# 20/40 sand in 235 bbls fluid
(C) 4724'-4739'	.49"	4/60	4724'-4739'	Frac w/ 115,315# 20/40 sand in 825 bbls fluid
(D1) 4566'-4575'	.49"	4/36	4566'-4575'	Frac w/ 40,206# 20/40 sand in 394 bbls fluid

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

33.\* PRODUCTION

DATE FIRST PRODUCTION <b>05/10/08</b>	PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump) <b>2-1/2" x 1-1/2" x 12' x 16' RHAC SM Plunger Pump</b>	WELL STATUS (Producing or shut-in) <b>PRODUCING</b>					
DATE OF TEST <b>05-19-08</b>	HOURS TESTED	CHOKE SIZE	PROD. FOR TEST PERIOD <b>----&gt;</b>	OIL--BBL. <b>192</b>	GAS--MCF. <b>126</b>	WATER--BBL. <b>33</b>	GAS-OIL RATIO <b>656</b>
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE <b>----&gt;</b>	OIL--BBL.	GAS--MCF.	WATER--BBL.	OIL GRAVITY-API (CORR.)	

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

**Sold & Used for Fuel**

**JUN 19 2008**

35. LIST OF ATTACHMENTS

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

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

SIGNED *[Signature]* TITLE **Production Technician** DATE **6/17/2008**

Jextri Park

JP

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

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	38. GEOLOGIC MARKERS		
				NAME	MEAS. DEPTH	TRUE VERT. DEPTH
			Well Name Federal 6-22-9-16	Garden Gulch Mkr	3552'	
				Garden Gulch 1	3761'	
				Garden Gulch 2	3876'	
				Point 3 Mkr	4121'	
				X Mkr	4390'	
				Y-Mkr	4423'	
				Douglas Creek Mkr	4541'	
				BiCarbonate Mkr	4777'	
				B Limestone Mkr	4876'	
				Castle Peak	5387'	
				Basal Carbonate	5846'	
				Total Depth (LOGGERS)	5918'	

# NEWFIELD



Well Name: Federal 6-22-9-16  
 LOCATION: S22, T9S, R16E  
 COUNTY/STATE: Duchesne  
 API: 43-013-33026

Spud Date: 3-13-08  
 TD: 5950'  
 CSG: 4-8-08  
 POP: 5-6-08

DATE	HRS	Oil (bbls)	Water (bbls)	Recovered Water (bbls)	Gas (mcf)	Casing Pressure (psi)	SPM	Comments
5/6/2008				1660				POP @ 6:30 P.M. w/ 86" SL @ 5 SPM. 1660 Total water to recover.
5/7/2008	16	0	30	1630	0	35	4 3/4	
5/8/2008	24	0	75	1555	13	68	4 1/4	
5/9/2008	24	0	62	1493	13	65	4 1/4	
5/10/2008	24	32	35	1458	20	62	4 1/4	
5/11/2008	24	55	17	1441	20	65	4 1/4	
5/12/2008	24	53	15	1426	20	70	4 1/4	
5/13/2008	24	53	13	1413	27	67	4 3/8	
5/14/2008	24	57	13	1400	31	70	4 1/4	
5/15/2008	24	57	7	1393	45	70	4 1/2	Tubing 50
5/16/2008	24	43	32	1361	49	70	4 1/2	Tubing 60
5/17/2008	24	52	5	1356	49	70	4	
5/18/2008	24	38	8	1348	54	70	4	
5/19/2008	24	192	33	1315	126	100	4 1/4	Tubing 60
5/20/2008	24	167	8	1307	117	110	4 1/4	Tubing 50
5/21/2008	24	80	25	1282	47	65	4 1/4	
5/22/2008	24	29	25	1257	13	70	4 1/4	
5/23/2008	24	65	13	1244	40	70	4 1/4	
5/24/2008	24	48	3	1241	37	70	4 1/2	
5/25/2008	24	62	7	1234	40	70	4 1/2	
5/26/2008	24	58	5	1229	43	70	4 1/2	
5/27/2008	24	60	8	1221	46	70	4 1/2	
5/28/2008	24	59	8	1213	46	80	4 1/2	
5/29/2008	24	63	2	1211	38	70	4 1/2	
5/30/2008	24	57	7	1204	51	70	4 1/2	
5/31/2008	24	60	10	1194	60	75	4 1/2	
6/1/2008	24	56	2	1192	43	70	4 1/2	
6/2/2008	24	155	8	1184	82	160	4 1/2	
6/3/2008				1184				
6/4/2008				1184				
6/5/2008				1184				
6/6/2008				1184				
		<b>1651</b>	<b>476</b>		<b>1170</b>			

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9  <b>5.LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-64379
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7.UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> FEDERAL 6-22-9-16
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY	<b>9. API NUMBER:</b> 43013330260000
<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> 2340 FNL 2060 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENW Section: 22 Township: 09.0S Range: 16.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE  <b>COUNTY:</b> DUCHESNE  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/22/2014	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input checked="" type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input checked="" type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

The subject well has been converted from a producing oil well to an injection well on 07/18/2014. On 07/21/2014 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 07/22/2014 the casing was pressured up to 1266 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 - Chris Jensen.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 August 22, 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> 7/25/2014	

# Mechanical Integrity Test Casing or Annulus Pressure Test

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

Witness: Chris Jensen Date 7/22/14 Time 9:45 (am) pm  
Test Conducted by: R. Berg  
Others Present: \_\_\_\_\_

Well: <u>Federal 6-22-9-16</u>	Field: <u>monument 12th</u>
Well Location: <u>Federal 6-22-9-16</u> <u>SE/NW Sec. 22, T9S R16E</u> <u>Duchene County Utah</u>	API No: <u>4301333026</u>

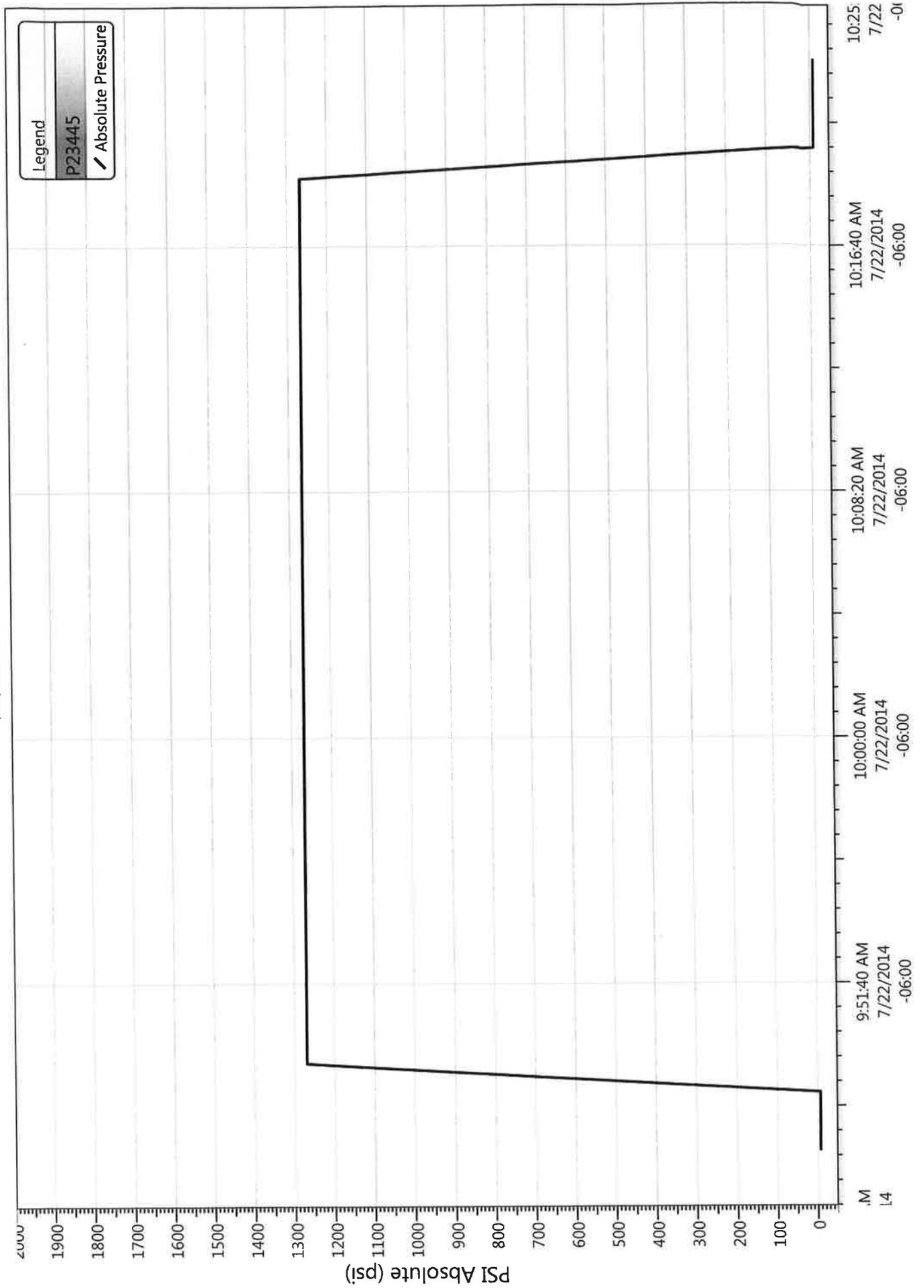
<u>Time</u>	<u>Casing Pressure</u>	
0 min	<u>1269</u>	psig
5	<u>1268</u>	psig
10	<u>1267</u>	psig
15	<u>1267</u>	psig
20	<u>1266</u>	psig
25	<u>1266</u>	psig
30 min	<u>1266</u>	psig
35	_____	psig
40	_____	psig
45	_____	psig
50	_____	psig
55	_____	psig
60 min	_____	psig

Tubing pressure: 0 psig

Result: Pass Fail

Signature of Witness: Chris Jensen  
Signature of Person Conducting Test: R. Berg

Federal 6-22-9-16 Conversion Mit 7/22/14  
7/22/2014 9:45:13 AM





Well Name: Federal 6-22-9-16

### Job Detail Summary Report

Primary Job Type Conversion	Job Start Date 7/16/2014	Job End Date 7/22/2014
--------------------------------	-----------------------------	---------------------------

Daily Operations		24hr Activity Summary
Report Start Date	Report End Date	CONT POOH BREAKING COLLARS
7/16/2014	7/16/2014	
Start Time	End Time	Comment
00:00	00:30	C/T Trav
00:30	01:30	: Safety Meeting, 6:30 to 7:00: BMW H/O Flushed Tbg w/ 30BW
01:30	02:15	: Break & Redope 34-Jts, 8:00: BMW H/O Flushed Tbg w/ 30BW
02:15	03:45	Inspect Drill Line Due to TAC Hanging Up
03:45	04:45	: Break & Redope 29-Jts (4492.60'
04:45	05:15	LD 34-Jts & BHA on Trailer, Cleaned out 15' of Fill From Tail Jts
05:15	05:30	Took Break
05:30	07:00	MU WTF Arrow Set Injection PKR Assa, TIH w/ 143-Jts
07:00	08:00	BMW H/O Pmped 10BW Pad, Drop SA/valv, RIH w/ S/Line to Seat SA/valv, 10BW to Fill
08:00	10:30	PT Tbg to 3050psi, Observ Press, 10psi Loss Every 15Min For 60Min, Repress to 3050psi, 10psi Loss Every 15Min for 45Min, 10Psi Loss in 30Min, 5psi Loss in 30Min, NO PRESSURE LOSS IN 30Min, GOOD TBG TESTI,
10:30	11:00	: Bleed Off Press, Retrieve SA/valv
11:00	11:30	: RD Workfloor, ND BOPs, MU WH Flange,
11:30	12:30	: H/O Pmped 60BW w/ Multi-Chem PKR Fluids d/ Annulus, Circ @ 40BW
12:30	13:00	Set AS-1X PKR CE @ 4511' w/ 1500# of Tension, NU 3K Injection Tree, 6:10: Hole Remaining Full, PT Annulus to 1500psi, SWIFN, Left Pressure on Over Night,
13:00	13:30	: Cleaned Up Location
13:30	14:00	C/T Travl
7/17/2014	7/17/2014	MIRUSU
Start Time	End Time	Comment
05:30	06:00	CREW TRAVEL
06:00	18:30	MIRUSU, R/U BMW, To Csg, Pmp 60 Bbls Wtr, D/Csg, P/U Polish Rod to U/Seat Pmp, L/D Polish Rod, POOH W/ 2 Rods, R/U H/Oiler, To Tbg, Attempt To Flush Tbg, Pressured Up To 1500Psi After 3 Bbls Wtr, P/U Rods To S/P Back, Attempt To P/Test Tbg, P/Test Failed @ 2250Psi, Flush Tbg w/40Bbls Wtr, U/Seat Pmp, Start L/D Rods, L/D 1-2' 3/4 Pony Rod, 1-6' 3/4 Pony Rod, 1-8' 3/4 Pony Rod, 99 4 per 3/4, 88 3/4 Slick, 20 4 per 3/4, 6 WT Bars, Flush Rods Due To Oil On Trip Out, Flush W/ 20 Bbls, N/D Well Head, N/U Bop, Do A Function Test, Good Test, R/U Rig Flr, R/U Tong, Release T/A, P/U 8 Jts Tbg Tagged Fill @ 5835(48' Fill), L/D 8 Jts Tbg, H/Oiler, Flushed Tbg w/ 30 Bbls Wtr, POOH w/ 80-Jts Breaking & Doping..... SWIFN @ 6:30
18:30	19:00	CREW TRAVEL



# Job Detail Summary Report

Well Name: Federal 6-22-9-16

Report Start Date	Report End Date	24hr Activity Summary	Start Time	End Time	Comment
7/18/2014	7/18/2014	MIT	05:30	06:00	C/Travi
	06:00		07:00		Safety Meeting
	07:00		07:15		Check Csg Press, 1500psi
	07:15		08:00		Prepared to XO Drill Line
	08:00		08:15		Safety Meeting w/ HSC
	08:15		09:45		XO Drill Line
	09:45		10:15		Waiting on MIT, XO For Rods, Prepare Rig & Location to RD
	10:15		10:45		RD, 10:10 Newfield Wtr Service Rep Performed MIT GOOD TEST! (1458-1457psi)
	10:45		11:30		RDSU
	11:30		11:30		: FINAL RIG REPORT! MOSU to Fed 2-22-9-16
7/22/2014	7/22/2014	Conduct MIT	09:45	10:15	On 07/21/2014 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 07/22/2014 the casing was pressured up to 1266 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 - Chris Jensen.

**NEWFIELD**

**Schematic**

**Well Name: Federal 6-22-9-16**

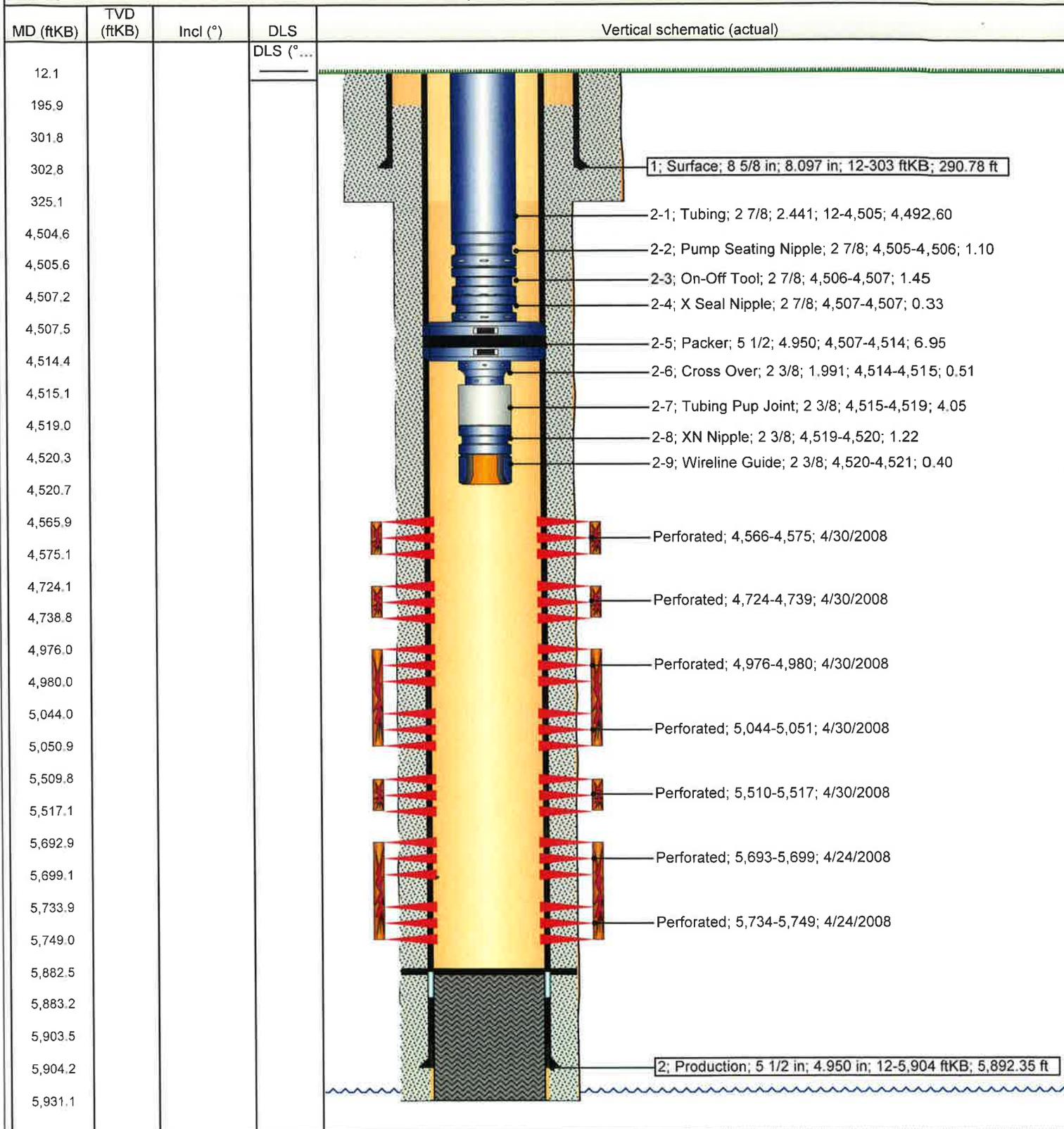
Surface Legal Location 22-9S-16E				API/UWI 43013330260000	Well RC 500154759	Lease	State/Province Utah	Field Name GMBU CTB6	County DUCHESNE
Spud Date 3/13/2008	Rig Release Date 4/10/2008	On Production Date 5/6/2008	Original KB Elevation (ft) 5,925	Ground Elevation (ft) 5,913	Total Depth All (TVD) (ftKB)			PBTD (All) (ftKB) Original Hole - 5,882.5	

**Most Recent Job**

Job Category Production / Workover	Primary Job Type Conversion	Secondary Job Type Basic	Job Start Date 7/16/2014	Job End Date 7/22/2014
---------------------------------------	--------------------------------	-----------------------------	-----------------------------	---------------------------

**TD: 5,931.0**

Vertical - Original Hole, 7/23/2014 9:49:31 AM



**NEWFIELD****Newfield Wellbore Diagram Data  
Federal 6-22-9-16**

Surface Legal Location 22-9S-16E		API/UWI 43013330260000		Lease	
County DUCHESNE		State/Province Utah		Field Name GMBU CTB6	
Well Start Date 3/13/2008		Spud Date 3/13/2008		On Production Date 5/6/2008	
Original KB Elevation (ft) 5,925		Ground Elevation (ft) 5,913		Total Depth (ftKB) 5,931.0	
		Total Depth All (TVD) (ftKB)		PBTD (All) (ftKB) Original Hole - 5,882.5	

**Casing Strings**

Csg Des	Run Date	OD (in)	ID (in)	WVLen (lb/ft)	Grade	Set Depth (ftKB)
Surface	3/13/2008	8 5/8	8.097	24.00	J-55	303
Production	4/10/2008	5 1/2	4.950	15.50	J-55	5,904

**Cement****String: Surface, 303ftKB 3/16/2008**

Cementing Company BJ Services Company		Top Depth (ftKB) 12.0	Bottom Depth (ftKB) 325.0	Full Return?	Vol Cement Ret (bbl)
Fluid Description 2% CaCL2 + 1/4#/sk Cello-Flake		Fluid Type Lead	Amount (sacks) 160	Class G	Estimated Top (ftKB) 12.0

**String: Production, 5,904ftKB 4/10/2008**

Cementing Company BJ Services Company		Top Depth (ftKB) 196.0	Bottom Depth (ftKB) 5,931.0	Full Return?	Vol Cement Ret (bbl)
Fluid Description 10% gel + 3% KCL, 3#/s /sk CSE + 2# sk/kolseal + 1/2#/s/sk Cello Flake		Fluid Type Lead	Amount (sacks) 300	Class Premlite II	Estimated Top (ftKB) 196.0
Fluid Description 2% Gel + 3% KCL, .5%EC1, 1/4# sk C.F. 2% gel. 3% SM		Fluid Type Tail	Amount (sacks) 400	Class 50/50 POZ	Estimated Top (ftKB) 3,064.0

**Tubing Strings**

Tubing Description		Run Date		Set Depth (ftKB)				
Item Des	Jts	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)
Tubing	143	2 7/8	2.441	6.50	J-55	4,492.60	12.0	4,504.6
Pump Seating Nipple	1	2 7/8				1.10	4,504.6	4,505.7
On-Off Tool	1	2 7/8				1.45	4,505.7	4,507.2
X Seal Nipple	1	2 7/8				0.33	4,507.2	4,507.5
Packer	1	5 1/2	4.950			6.95	4,507.5	4,514.4
Cross Over	1	2 3/8	1.991			0.51	4,514.4	4,514.9
Tubing Pup Joint	1	2 3/8				4.05	4,514.9	4,519.0
XN Nipple	1	2 3/8				1.22	4,519.0	4,520.2
Wireline Guide	1	2 3/8				0.40	4,520.2	4,520.6

**Rod Strings**

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

**Perforation Intervals**

Stage#	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Phasing (°)	Nom Hole Dia (in)	Date
5	D1, Original Hole	4,566	4,575	4	120	0.490	4/30/2008
4	C, Original Hole	4,724	4,739	4	120	0.490	4/30/2008
3	A1, Original Hole	4,976	4,980	4	120	0.490	4/30/2008
3	A3, Original Hole	5,044	5,051	4	120	0.490	4/30/2008
2	CP2, Original Hole	5,510	5,517	4	120	0.490	4/30/2008
1	CP4, Original Hole	5,693	5,699	4	120	0.490	4/24/2008
1	CP5, Original Hole	5,734	5,749	4	120	0.490	4/24/2008

**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	0.79	23.2	2,863			
2	1,762	0.75	23.2	2,292			
3	1,884	0.81	23.2	2,380			
4	2,044	0.87	23.2	2,188			
5	1,850	0.84	23.2	2,183			

**Proppant**

Stage#	Total Prop Vol Pumped (lb)	Total Add Amount
1		Proppant White Sand 16361 lb
2		Proppant White Sand 16361 lb
3		Proppant White Sand 14997 lb
4		Proppant White Sand 115315 lb

**NEWFIELD**

**Newfield Wellbore Diagram Data  
Federal 6-22-9-16**



Proppant		
Stage#	Total Prop Vol Pumped (lb)	Total Add Amount
5		Proppant White Sand 40206 lb

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
<b>1. TYPE OF WELL</b> Water Injection Well	<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-64379
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052	<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>PHONE NUMBER:</b> 435 646-4825 Ext	<b>8. WELL NAME and NUMBER:</b> FEDERAL 6-22-9-16
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2340 FNL 2060 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENW Section: 22 Township: 09.0S Range: 16.0E Meridian: S	<b>9. API NUMBER:</b> 43013330260000
	<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
	<b>COUNTY:</b> DUCHESNE
	<b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 10/29/2014	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input checked="" type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input checked="" type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

The above reference well was put on injection at 1:15 PM on 10/29/2014.

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

Date: ~~November 10, 2014~~

By:

<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/30/2014	



GARY R. HERBERT  
Governor

SPENCER J. COX  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

## UNDERGROUND INJECTION CONTROL PERMIT

### Cause No. UIC-421

**Operator:** Newfield Production Company  
**Well:** Federal 6-22-9-16  
**Location:** Section 22, Township 9 South, Range 16 East  
**County:** Duchesne  
**API No.:** 43-013-33026  
**Well Type:** Enhanced Recovery (waterflood)

### Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on June 16, 2014.
2. Maximum Allowable Injection Pressure: 1,726 psig
3. Maximum Allowable Injection Rate: (restricted by pressure limitation)
4. Injection Interval: Green River Formation (3,875' – 5,883')
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

10/27/2014  
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

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GARY R. HERBERT  
Governor

SPENCER J. COX  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

June 16, 2014

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

Subject: Greater Monument Butte Unit Well: Federal 6-22-9-16, Section 22, Township 9 South, Range 16 East, SLBM, Duchesne County, Utah, API Well # 43-013-33026

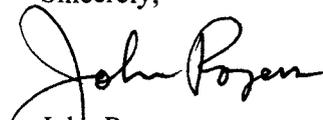
Newfield Production Company:

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 3,875 feet in the Federal 6-22-9-16 well.

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

Sincerely,

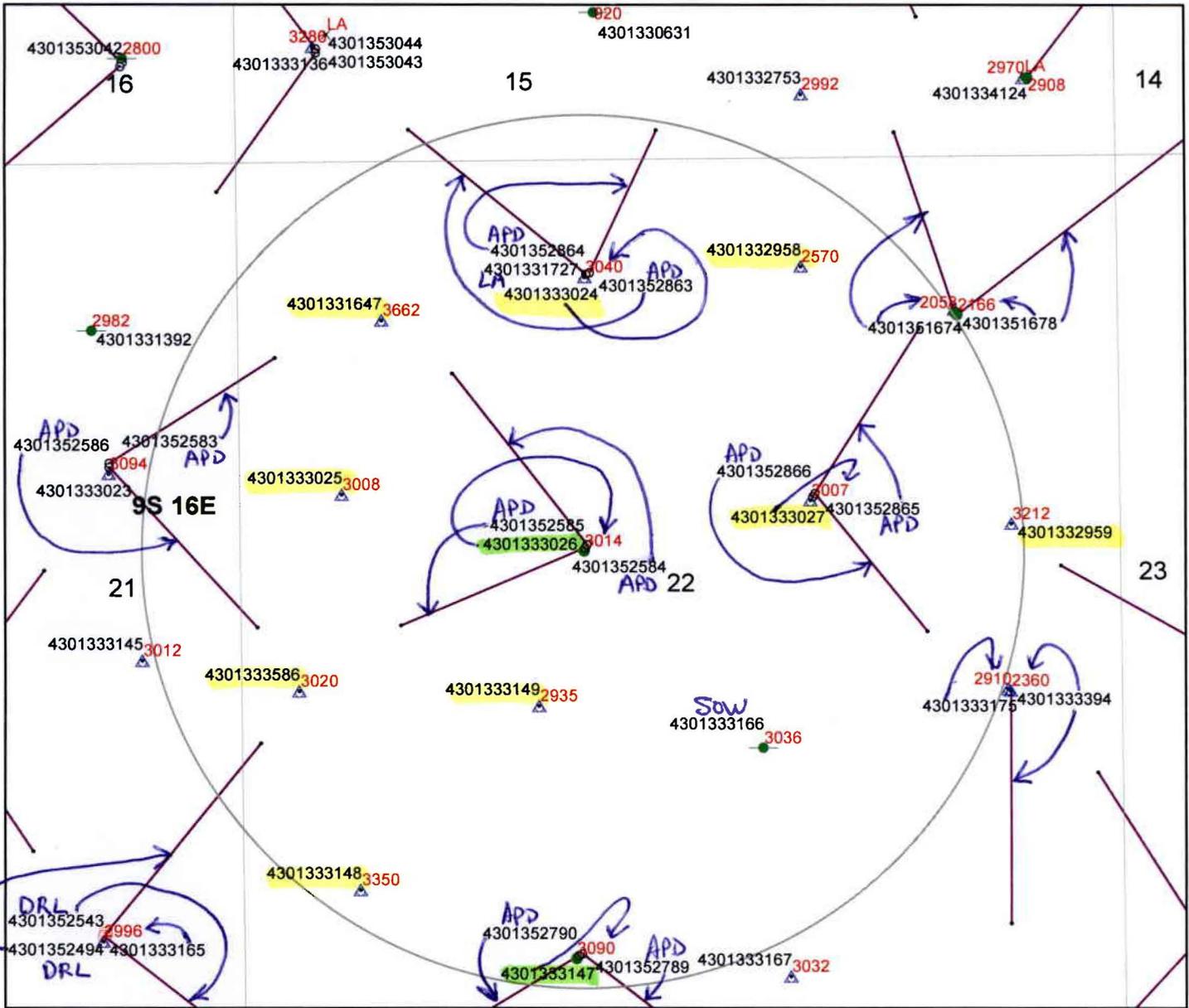
  
John Rogers  
Associate Director

JR/MLR/js

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

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





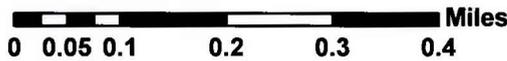
**Legend**

**Oil & Gas Well Type**

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

**Cement Bond Tops  
Federal 6-22-9-16  
API #43-013-33026  
UIC-421.3**

*(updated 10/2/2014)*



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

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

**Applicant:** Newfield Production Company      **Well:** Federal 6-22-9-16

**Location:** 22/9S/16E      **API:** 43-013-33026

**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 303 feet and has a cement top at the surface. A 5½ inch production casing is set at 5,904 feet. The cement bond log is somewhat problematic but appears to demonstrate adequate bond in this well up to about 3,014 feet or higher. A 2 7/8 inch tubing with a packer will be set at 4,516 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 (10/2/2014), based on surface locations, there are 2 producing wells, 9 injection wells, and 1 shut-in well in the AOR. There is 1 currently drilling directional well with a surface location outside the AOR and a bottom hole location inside the AOR. Finally, there are 2 approved surface locations outside the AOR from which directional wells will be drilled to bottom hole locations inside the AOR and 3 approved surface location inside the AOR from which directional wells will be drilled to bottom hole locations outside the AOR. All of the existing wells have evidence of adequate casing and cement for the proposed injection interval.

**Ground Water Protection:** As interpreted from the Utah Geological Survey's DOE Project-Uinta Basin Water Draft Map (Paul B. Anderson, December 2, 2011), the base of moderately saline water (3000-10,000 mg/l TDS) is at a depth of approximately 2700 feet. Injection shall be limited to the interval between 3,875 feet and 5,883 feet in the Green River Formation. Information submitted by Newfield indicates that the fracture gradient for the 6-22-9-16 well is 0.75 psi/ft., which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 1,726 psig. The requested maximum pressure is 1,726 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 6-22-9-16**  
**page 2**

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

**Bonding:** Bonded with the BLM

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

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

Reviewer(s): Mark Reinbold Date: 6/12/2014 (revised 10/2/2014)

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

The Salt Lake Tribune

MEDIAONE

Deseret News

PROOF OF PUBLICATION

CUSTOMER'S COPY

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

RECEIVED  
MAY 15 2014

DIV OF OIL-GAS & MINING

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

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

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

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

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

Greater Monument Butte Unit:  
 Ashley Federal 12-248-9-15 well located in NW/4 SW/4, Section 24, Township 9 South, Range 15 East  
 API 43-013-15782  
 Federal 2-22-9-16 well located in NW/4 NE/4, Section 22, Township 9 South, Range 16 East  
 API 43-013-32958  
 Federal 6-22-9-16 well located in SE/4 NW/4, Section 22, Township 9 South, Range 16 East  
 API 43-013-33026  
 Federal 8-22-9-16 well located in SE/4 NE/4, Section 22, Township 9 South, Range 16 East  
 API 43-013-32959  
 Federal 14-22-9-16 well located in SE/4 SW/4, Section 22, Township 9 South, Range 16 East  
 API 43-013-33147  
 Federal 4-23-9-16 well located in NW/4 NW/4, Section 23, Township 9 South, Range 16 East  
 API 43-013-33177  
 Federal 2-28-9-16 well located in NW/4 NE/4, Section 28, Township 9 South, Range 16 East  
 API 43-013-33409  
 Federal 4-28-9-16 well located in NW/4 NW/4, Section 28, Township 9 South, Range 16 East  
 API 43-013-33407  
 Federal 2-29-9-16 well located in NW/4 NE/4, Section 29, Township 9 South, Range 16 East  
 API 43-013-33424

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

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

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

Dated this 6th day of May, 2014.

AFFIDAVIT OF PUBLICATION

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

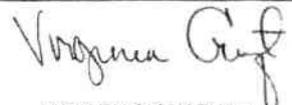
PUBLISHED ON Start 05/09/2014 End 05/09/2014

SIGNATURE 

DATE 5/13/2014

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

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

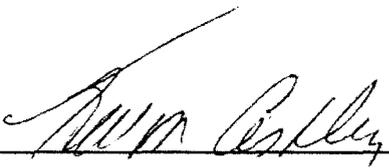
  
 NOTARY SIGNATURE

2260/EGVICADMIN/GFR/6131

# AFFIDAVIT OF PUBLICATION

County of Duchesne,  
STATE OF UTAH

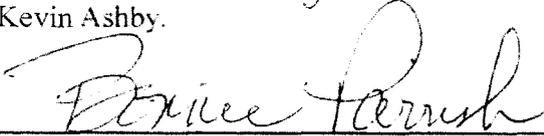
I, Kevin Ashby on oath, say that I am the PUBLISHER of the Uintah Basin Standard, a weekly newspaper of general circulation, published at Roosevelt, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue such newspaper for 1 consecutive issues, and that the first publication was on the 13 day of May, 2014, and that the last publication of such notice was in the issue of such newspaper dated the 13 day of May, 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.

  
\_\_\_\_\_  
Publisher

Subscribed and sworn to before me on this

16 day of May, 2014

by Kevin Ashby.

  
\_\_\_\_\_  
Notary Public

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

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

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

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

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

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

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

ston is commencing an informal adjudicative proceeding to consider the application of Newfield Production Company, 1001 17th Street, Suite 2000, Denver, Colorado 80202, telephone 303-893-0102, for administrative approval of the following wells located in Duchesne County, Utah, for conversion to Class II injection wells:

Greater Monument Butte Unit:

Ashley Federal 12-24R-9-15 well located in NW/4 SW/4, Section 24, Township 9 South, Range 15 East

API 43-013-15782  
Federal 2-22-9-16 well located in NW/4 NE/4, Section 22 Township 9 South, Range 16 East

API 43-013-32958  
Federal 6-22-9-16 well located in SE/4 NW/4, Section 22, Township 9 South, Range 16 East

API 43-013-33026  
Federal 8-22-9-16 well located in SE/4 NE/4, Section 22, Township 9 South, Range 16 East

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

API 43-013-33147  
Federal 4-23-9-16 well located in NW/4 NW/4, Section 23, Township 9 South, Range 16 East

API 43-013-33177  
Federal 2-28-9-16 well located in NW/4 NE/4, Section 28, Township 9 South, Range 16 East

API 43-013-33409  
Federal 4-28-9-16 well located in NW/4 NW/4, Section 28, Township 9 South, Range 16 East

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

API 43-013-33424

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

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

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

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API 43-013-33147
- Federal 4-23-9-16 well located in NW/4 NW/4, Section 23, Township 9 South, Range 16 East  
API 43-013-33177
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API 43-013-33407
- Federal 2-29-9-16 well located in NW/4 NE/4, Section 29, Township 9 South, Range 16 East  
API 43-013-33424

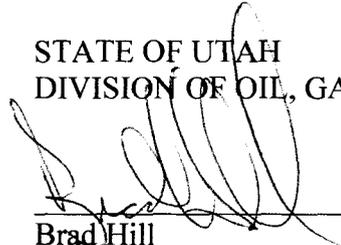
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Selected zones in the Green River Formation will be used for water injection. The maximum requested injection pressures and rates will be determined based on fracture gradient information submitted by Newfield Production Company.

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Dated this 6th day of May, 2014.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING

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

Brad Hill  
Permitting Manager

**Newfield Production Company**

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

**Cause No. UIC-421**

Publication Notices were sent to the following:

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

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

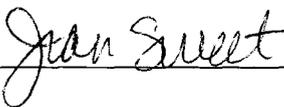
Uintah Basin Standard  
268 South 200 East  
Roosevelt, UT 84066  
via e-mail [ubslegals@ubmedia.biz](mailto:ubslegals@ubmedia.biz)

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

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

Newfield Production Company  
Rt 3 Box 3630  
Myton, UT 84052

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

  
\_\_\_\_\_



GARY R. HERBERT  
Governor

SPENCER J. COX  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

May 8, 2014

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

Uintah Basin Standard  
268 South 200 East  
Roosevelt, UT 84066

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

To whom it may concern:

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

Please send proof of publication and billing to:

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

Sincerely,

Jean Sweet  
Executive Secretary

Enclosure





Jean Sweet <jsweet@utah.gov>

---

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

1 message

---

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

Fri, May 9, 2014 at 12:49 PM

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

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

To whom it may concern:

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

Please send proof of publication and billing to:

Division of Oil, Gas and Mining

PO Box 145801

Salt Lake City, UT 84114-5801

Sincerely,

-

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

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

Cindy



GARY R. HERBERT  
*Governor*

SPENCER J. COX  
*Lieutenant Governor*

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

May 8, 2014

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

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

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

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

Please send proof of publication and billing for **account #9001402352** to:

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

Sincerely,

Jean Sweet  
Executive Secretary

Enclosure



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

<b>Client</b>	DIV OF OIL-GAS & MINING	<b>Payor Customer</b>	DIV OF OIL-GAS & MINING
<b>Client Phone</b>	801-538-5340	<b>Payor Phone</b>	801-538-5340
<b>Account#</b>	9001402352	<b>Payor Account</b>	9001402352
<b>Address</b>	1594 W NORTH TEMPLE STE 1210, SALT LAKE CITY UT 84116-3154 USA	<b>Payor Address</b>	1594 W NORTH TEMPLE STE 1210, SALT LAKE CITY UT 84116-3154
<b>Fax</b>	801-359-3940	<b>Ordered By</b>	<b>Acct. Exec</b>
<b>EMAIL</b>	juliecarter@utah.gov	Jean	kstowe

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

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

**Ad Content Proof Actual Size**

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

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Dated this 6th day of May, 2014.

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

957536

UPAXP

**NEWFIELD**



**Newfield Exploration Company**

1001 17th Street | Suite 2000

Denver, Colorado 80202

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

April 23, 2014

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

RE: Permit Application for Water Injection Well  
Federal #6-22-9-16  
Monument Butte Field, Lease #UTU-34379  
Section 22-Township 9S-Range 16E  
Duchesne County, Utah

RECEIVED  
APR 25 2014  
DIV. OF OIL, GAS & MINING

Dear Mr. Reinbold:

Newfield Production Company herein requests approval to convert the Federal #6-22-9-16 from a producing oil well to a water injection well in the Monument Butte (Green River) Field.

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

Sincerely,

  
Jill L. Loyle  
Regulatory Associate

**NEWFIELD PRODUCTION COMPANY**  
**APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL**  
**FEDERAL #6-22-9-16**  
**MONUMENT BUTTE FIELD (GREEN RIVER) FIELD**  
**LEASE #UTU-34379**  
**APRIL 23, 2014**

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# Federal 6-22-9-16

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

Initial Production: BOPD,  
 MCFD, BWPD

Proposed Injection  
 Wellbore Diagram

**SURFACE CASING**

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

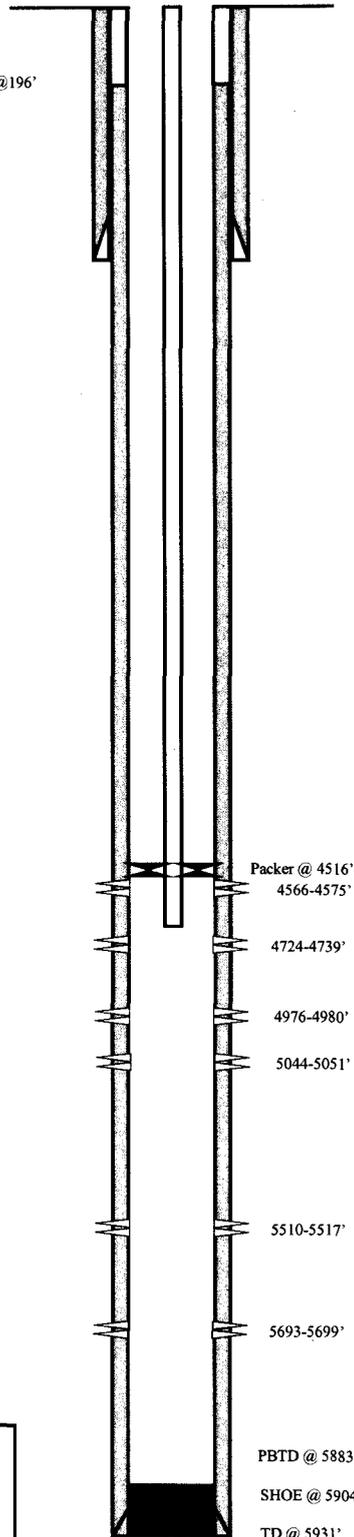
**PRODUCTION CASING**

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

**TUBING**

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

Cement top @ 196'



**FRAC JOB**

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

**PERFORATION RECORD**

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

**NEWFIELD**

**Federal 6-22-9-16**

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

## **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 #6-22-9-16 from a producing oil well to a water injection well in Monument Butte (Green River) Field.

**2.4 A description of the pools from which the identified wells are producing or have produced.**

The proposed injection well will inject into the Green River Formation.

**2.5 The names, description and depth of the pool or pools to be affected.**

The injection zone is in the Green River Formation. For the Federal #6-22-9-16 well, the proposed injection zone is from Garden Gulch to Basal Carbonate (3875' - 5883'). 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 3552' and the TD is at 5931'.

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

The referenced log for the Federal #6-22-9-16 is on file with the Utah Division of Oil, Gas and Mining.

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

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

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

See Attachment B.

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

See Attachment C.

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

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

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

This proposed injection well is on a Federal lease (Lease #UTU-34379) 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 303' KB, and 5-1/2", 15.5# casing run from surface to 5904' 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 1726 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 #6-22-9-16, for existing perforations (4566' - 5699') calculates at 0.75 psig/ft. The maximum injection pressures will be limited so as not to exceed this gradient. A step rate test will be performed periodically to ensure we are below parting pressure. The proposed maximum injection pressure is 1726 psig. We may add additional perforations between 3552' and 5931'. 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 #6-22-9-16, the proposed injection zone (3875' - 5883') 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.

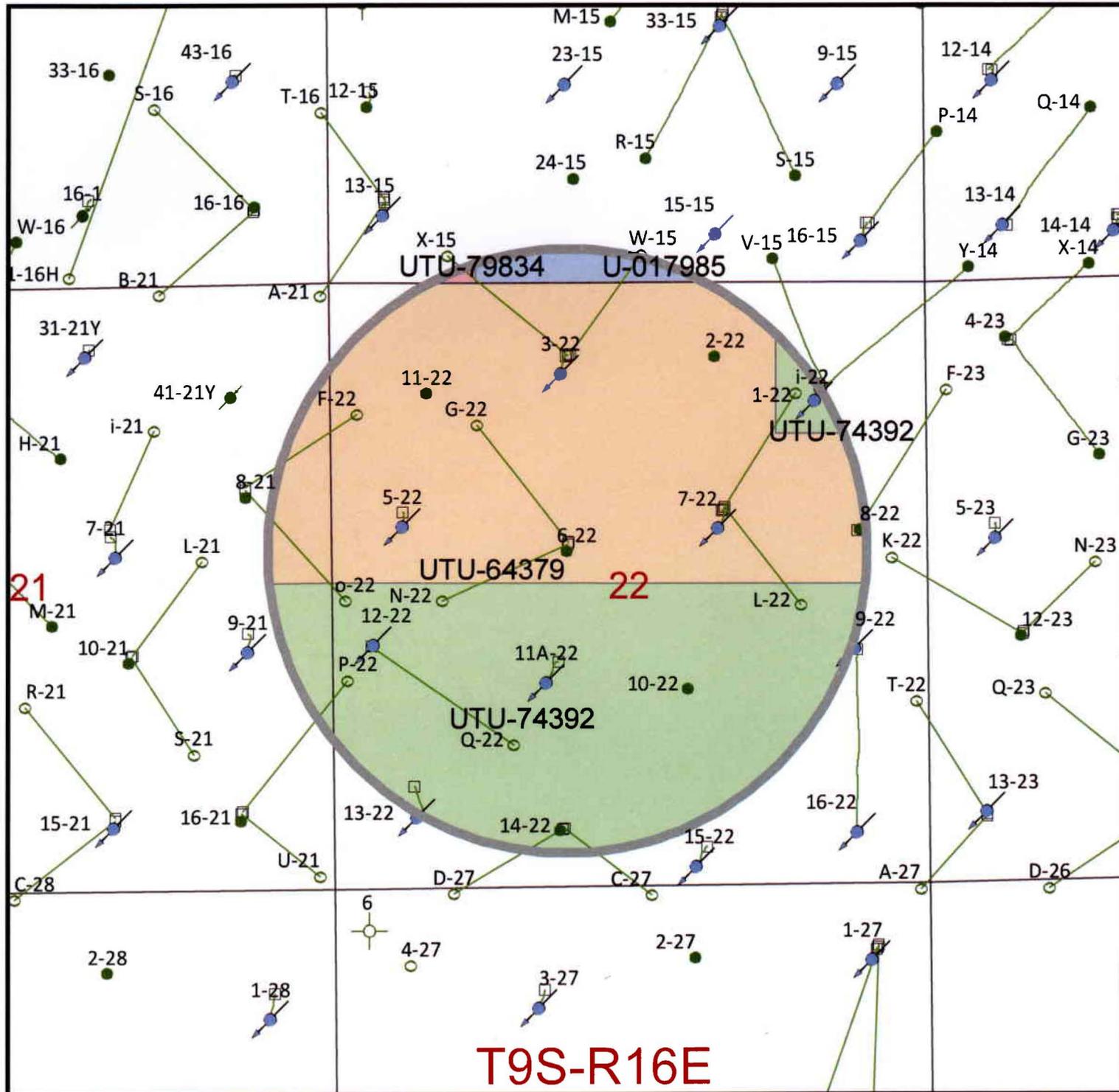
Additionally, the injection system will be equipped with high and low pressure shut down devices that will automatically shut in injection waters if a system blockage or leakage occurs. One way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure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

- U-017985
- UTU-64379
- UTU-74392
- UTU-79834

**Well Status**

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

Federal 6-22-9-16  
Section 22, T9S-R16E

**NEWFIELD**

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

**1/2 Mile Radius Map**

Duchesne County

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

March 13, 2014

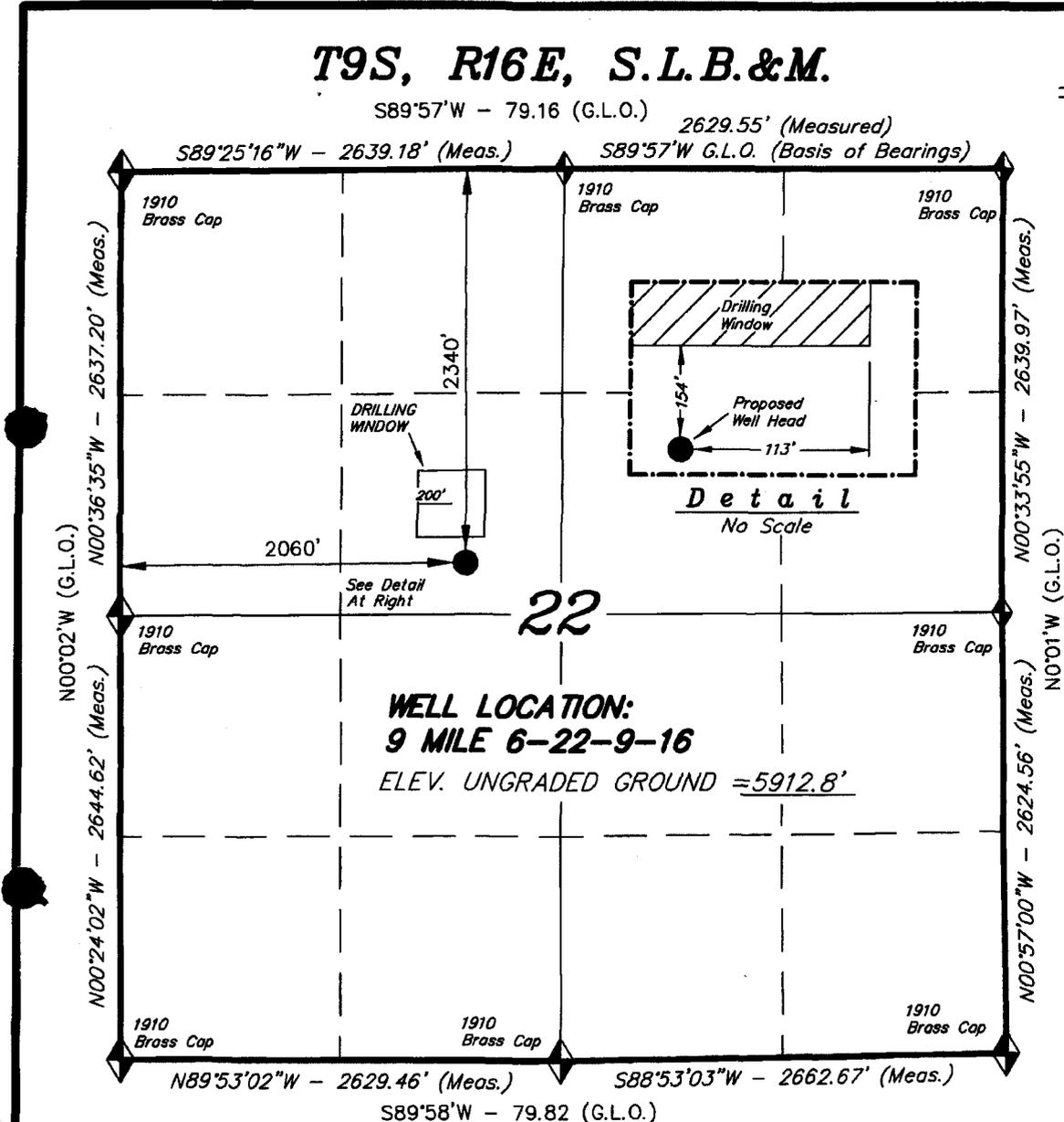
**T9S-R16E**

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

S89°57'W - 79.16 (G.L.O.) 2629.55' (Measured)

## NEWFIELD PRODUCTION COMPANY

WELL LOCATION, 9 MILE 6-22-9-16,  
LOCATED AS SHOWN IN THE SE 1/4 NW  
1/4 OF SECTION 22, T9S, R16E,  
S.L.B.&M. DUCHESNE COUNTY, UTAH.



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

*Stacy W. Stewart*  
REGISTERED LAND SURVEYOR  
REGISTRATION No. 189377  
STATE OF UTAH

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

DATE SURVEYED: 11-11-05	SURVEYED BY: C.M.
DATE DRAWN: 12-6-05	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

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

**9 MILE 6-22-9-16**  
(Surface Location) NAD 83  
LATITUDE = 40° 01' 01.94"  
LONGITUDE = 110° 06' 26.86"

**EXHIBIT B**

<b>#</b>	<b>Legal Description</b>	<b>Lessor &amp; Expiration</b>	<b>Lessee &amp; Operating Rights</b>	<b>Surface Owner</b>
1	T9S-R16E SLM Section 10: S2SE Section 15: E2,E2W2	USA UTU-017985 HBP	Newfield Production Company Newfield RMI LLC ABO Petroleum Corp MYCO Industries Inc OXY Y-1 Company Yates Petroleum Corp	USA
2	T9S-R16E SLM Section 8: SWNE, SE Section 9: SWSW Section 17: NE Section 18: E2SW, SE, LOTS 3,4 Section 19: NE, E2NW, LOTS 1,2 Section 21: N2 Section 22: W2NE, SENE, NW	USA UTU-64379 HBP	Newfield Production Company Newfield RMI LLC Yates Petroleum Corp	USA
3	T9S-R16E SLM Section 21: S2 Section 22: NENE, S2 Section 23: SWSW Section 24: SESE Section 26: NENE Section 27: All Section 28: All	USA UTU-74392 HBP	Newfield Production Company Newfield RMI LLC ABO Petroleum Corp MYCO Industries Inc OXY Y-1 Company Yates Petroleum Corp	USA
4	T9S-R16E SLM Section 15: W2W2	USA UTU-79834 HBP	Newfield Production Company Newfield RMI LLC	USA

ATTACHMENT C

CERTIFICATION FOR SURFACE OWNER NOTIFICATION

RE: Application for Approval of Class II Injection Well  
Federal #6-22-9-16

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

Signed: Jill L. Loyle  
Newfield Production Company  
Jill L. Loyle  
Regulatory Associate

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

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

My Commission Expires: 12/31/15

LYDIA BIONDO  
Notary Public  
State of Colorado

## Federal 6-22-9-16

Spud Date: 3-13-08  
Put on Production: 5-6-08

GL: 5913' KB: 5925'

### SURFACE CASING

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

### PRODUCTION CASING

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

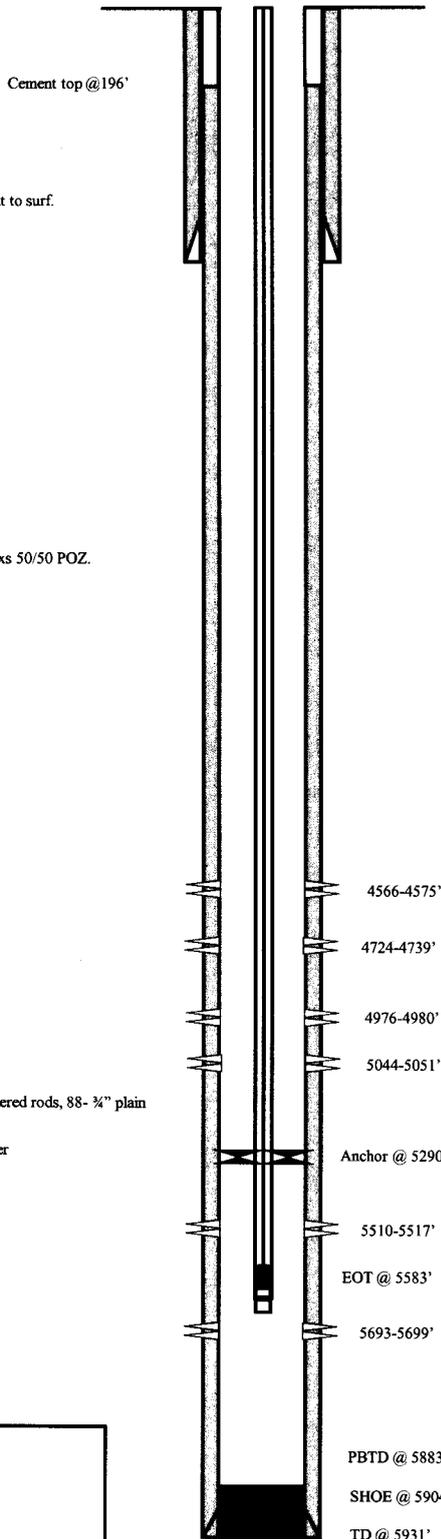
### TUBING

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

### SUCKER RODS

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

### Wellbore Diagram



Initial Production: BOPD,  
MCFD, BWPD

### FRAC JOB

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

### PERFORATION RECORD

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

**NEWFIELD**

**Federal 6-22-9-16**

2340' FNL & 2060' FWL  
SE/NW Section 22-T9S-R16E

Duchesne Co, Utah

API # 43-013-33026; Lease # UTU-34379

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

## Federal 1-22-9-16

### Injection Wellbore Diagram

#### SURFACE CASING

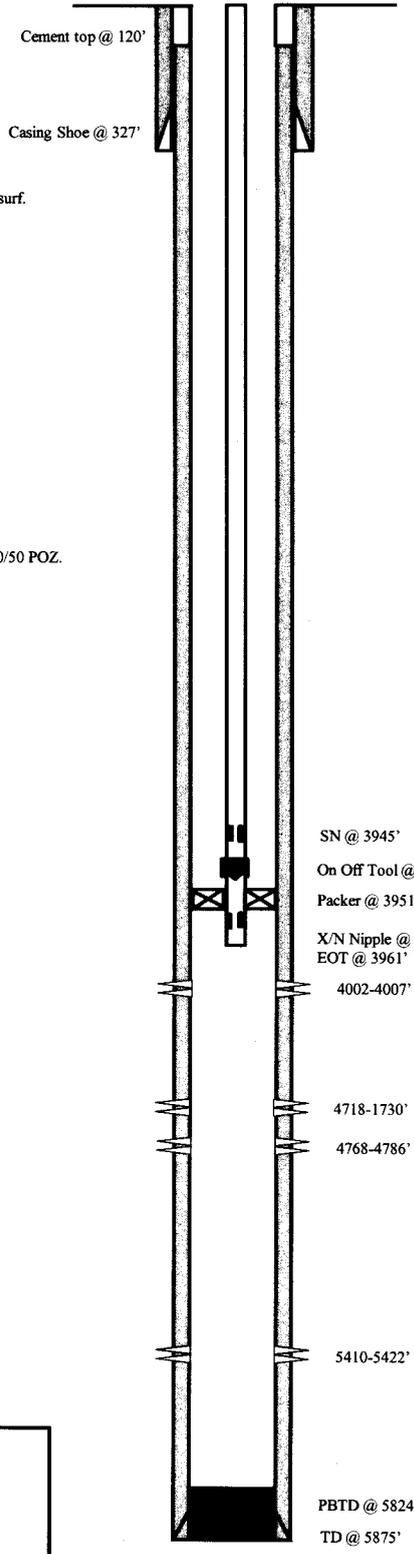
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (315.48')  
 DEPTH LANDED: 327.33' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 4 bbls cmt to surf.

#### PRODUCTION CASING

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

#### TUBING

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



#### FRAC JOB

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

#### PERFORATION RECORD

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

**NEWFIELD**

**Federal 1-22-9-16**  
 887' FNL & 963' FEL  
 NE/NE Section 22-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-32612; Lease #UTU-74392

**NEWFIELD**

**Schematic**

43-013-32958

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

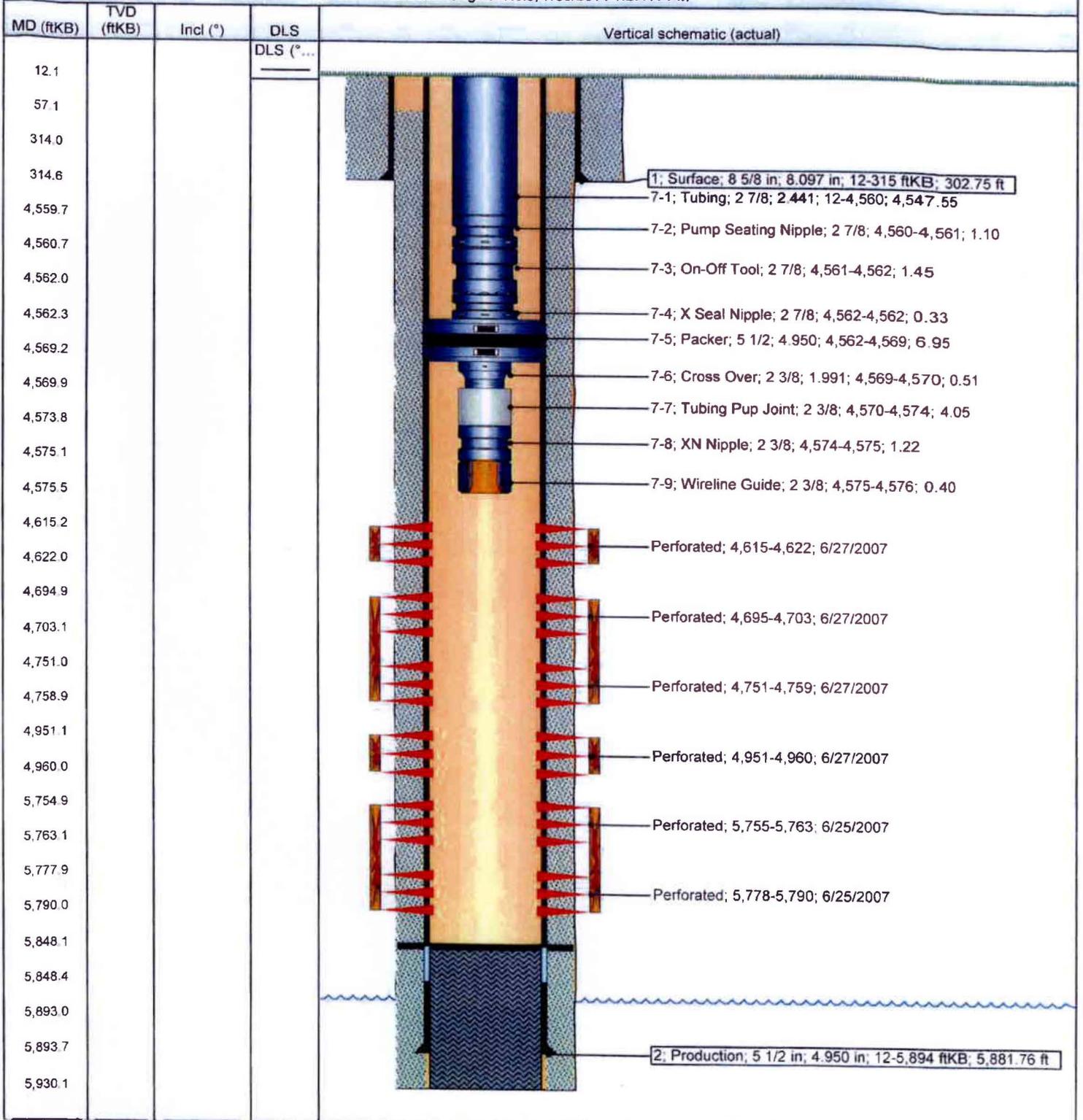
Surface Legal Location 22-9S-16E		API/UWI 43013329580000	Well RC 500158554	Lease	State/Province Utah	Field Name GMBU CTB6	County DUCHESNE
Spud Date 5/23/2007	Rig Release Date 6/8/2007	On Production Date 7/3/2007	Original KB Elevation (ft) 5,872	Ground Elevation (ft) 5,860	Total Depth All (TVD) (ftKB)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

**Most Recent Job**

Job Category Production / Workover	Primary Job Type Conversion	Secondary Job Type Basic	Job Start Date 7/18/2014	Job End Date 7/29/2014
---------------------------------------	--------------------------------	-----------------------------	-----------------------------	---------------------------

**TD: 5,930.0**

Vertical - Original Hole, 7/30/2014 1:27:41 PM



## Federal 3-22-9-16

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

### Injection Wellbore Diagram

#### SURFACE CASING

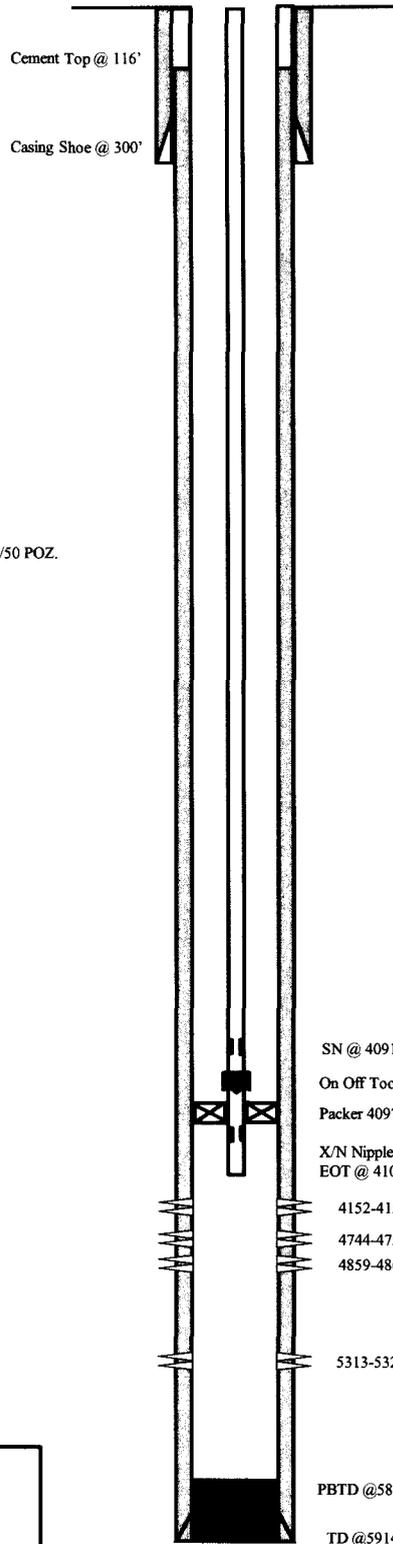
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (287.98')  
 DEPTH LANDED: 299.83' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: To surface with 160 sxs Class "G" cmt

#### PRODUCTION CASING

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

#### TUBING

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



#### FRAC JOB

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

#### PERFORATION RECORD

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



**NEWFIELD**

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

## Federal 7-22-9-16

Spud Date: 3/12/08

Put on Production: 04/23/08

GL: ~~5818~~ KB: 5880'  
5868'

### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 8 jts. (323.72')  
DEPTH LANDED: 336'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt

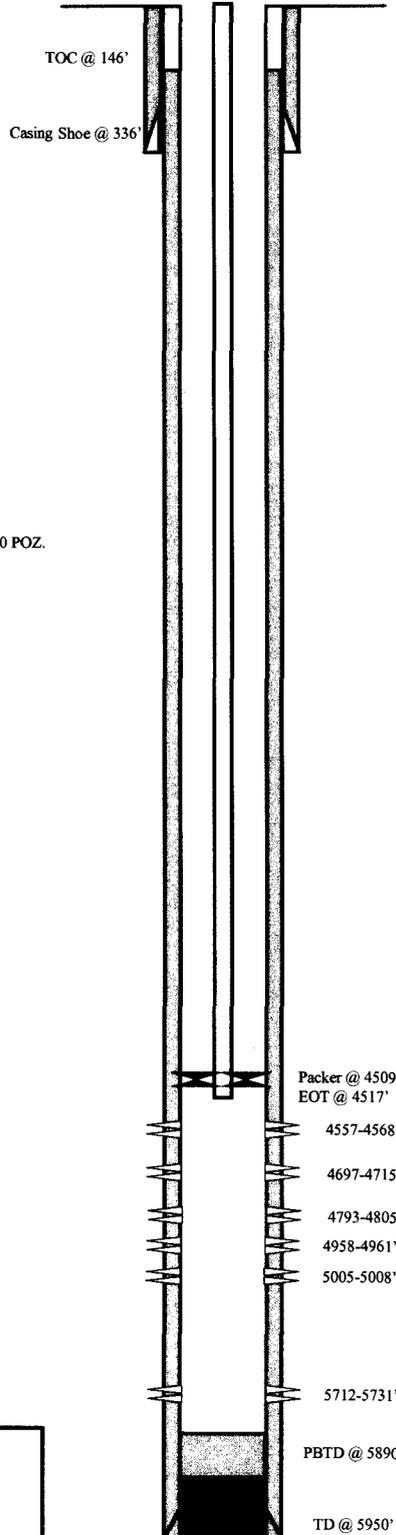
### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 141 jts. (5930.89')  
HOLE SIZE: 7-7/8"  
DEPTH LANDED: 5944'  
CEMENT DATA: 300 sk Prem. Lite II mixed & 400 sxs 50/50 POZ.  
CEMENT TOP AT: 146'

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
TBG PUP: 1 jt (10.2')  
NO. OF JOINTS: 142 jts (4480.1')  
ON/OFF TOOL AT: 4502.3'  
PACKER CE @ 4508.77'  
XO 2-7/8 x 2-3/8" AT: 4511.2'  
TBG PUP AT: 4511.7'  
TOTAL STRING LENGTH: EOT @ 4517' w/12' KB

### Injection Wellbore Diagram



### FRAC JOB

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

### PERFORATION RECORD

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

**NEWFIELD**

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

## Federal 9-22-9-16

Spud Date: 4-19-2007  
 Put on Production: 6-08-2007  
 GL: 5803' KB: 5815'

### Injection Wellbore Diagram

#### SURFACE CASING

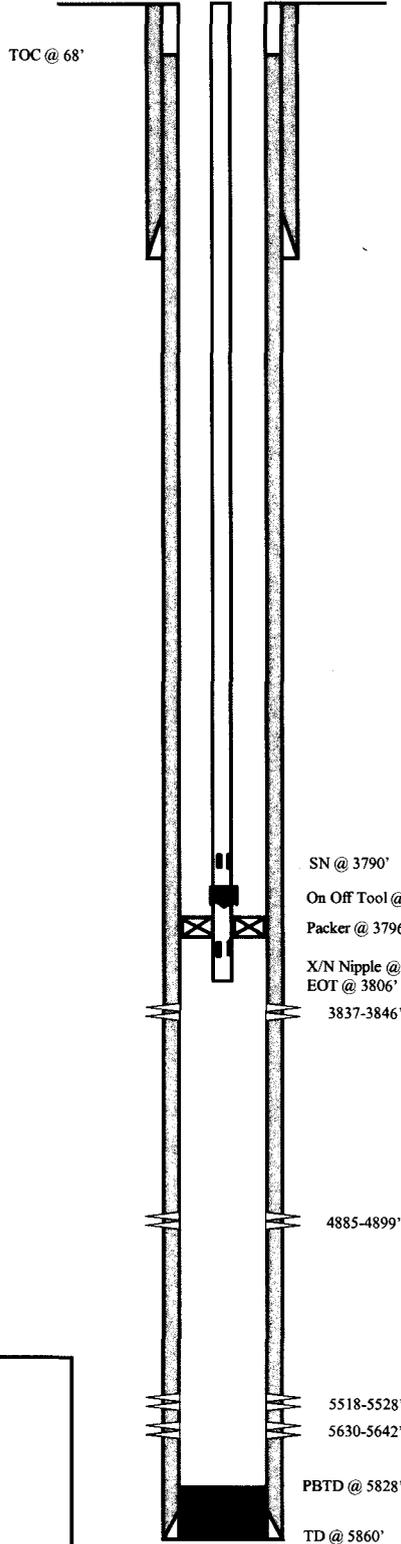
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7jts (312.91')  
 DEPTH LANDED: 322.91'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160sxs Class "G" cmt, circ 5 bbls to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 133jts (5855.48')  
 DEPTH LANDED: 5852.48'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 325sxs Premlite II & 425sxs 50/50 POZ.  
 CEMENT TOP AT: 68' per CBL 5/30/07

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 123 jts (3778')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 3790' KB  
 ON/OFF TOOL AT: 3791.1'  
 ARROW #1 PACKER CE AT: 3796.4'  
 XO 2-3/8 x 2-7/8 J-55 AT: 3800.1'  
 TBG PUP 2-3/8 J-55 AT: 3800.6'  
 X/N NIPPLE AT: 3804.8'  
 TOTAL STRING LENGTH: EOT @ 3806.3'



#### FRAC JOB

06-05-07	5630-5642'	<b>Frac CP5 sands as follows:</b> 39984# 20/40 sand in 405 bbls Lightning 17 frac fluid. Treated @ avg press of 1953 psi w/avg rate of 24.7 BPM. ISIP 2165 psi. Calc flush: 5328 gal. Actual flush: 5208 gal.
06-05-07	5518-5528'	<b>Frac CP4 sands as follows:</b> 25037# 20/40 sand in 336 bbls Lightning 17 frac fluid. Treated @ avg press of 2283 psi w/avg rate of 24.7 BPM. ISIP 2241 psi. Calc flush: 5516 gal. Actual flush: 4998 gal.
06-05-07	4885-4899'	<b>Frac A1 sands as follows:</b> 59792# 20/40 sand in 485 bbls Lightning 17 frac fluid. Treated @ avg press of 1701 psi w/avg rate of 24.7 BPM. ISIP 2240 psi. Calc flush: 4883 gal. Actual flush: 4368 gal.
06-05-07	3837-3846'	<b>Frac GB2 sands as follows:</b> 35741# 20/40 sand in 345 bbls Lightning 17 frac fluid. Treated @ avg press of 1806 w/ avg rate of 24.7 BPM. ISIP 2950 psi. Calc flush: 3835 gal. Actual flush: 3738 gal.
12-13-07		<b>Pump Change.</b> Updated rod & tubing details.
1-30-08		<b>Pump Change.</b> Updated rod & tubing details.
8-29-08		<b>Pump Change.</b> Updated rod & tubing details.
1/23/09		<b>Pump Change.</b> Updated r & t details.
10/05/11		<b>Pump Change.</b> Rods & tubing updated.
08/21/13		<b>Convert to Injection Well</b>
08/23/13		<b>Conversion MIT Finalized</b> - update tbg detail

#### PERFORATION RECORD

05-30-07	5630-5642'	4 JSPF	48 holes
06-05-07	5518-5528'	4 JSPF	40 holes
06-05-07	4885-4899'	4 JSPF	96 holes
06-05-07	3837-3846'	4 JSPF	36 holes

**NEWFIELD**

**Federal 9-22-9-16**  
 2079' FSL & 668' FEL  
 NE/SE Section 22-T9S-R16E  
 Duchesne Co, Utah  
 API # 43-013-33175; Lease # UTU-74392

## FEDERAL 10-22-9-16

Spud Date: 04/26/07  
 Put on Production: 06/29/07  
 GL: 5955' KB: 5967'

Initial Production: BOPD,  
 MCFD, BWPD

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (310.97')  
 DEPTH LANDED: 322.82' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 6 bbls cmt to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 133 jts. (5904.01')  
 DEPTH LANDED: 5917.26' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 425 sxs 50/50 POZ.  
 CEMENT TOP: 160'

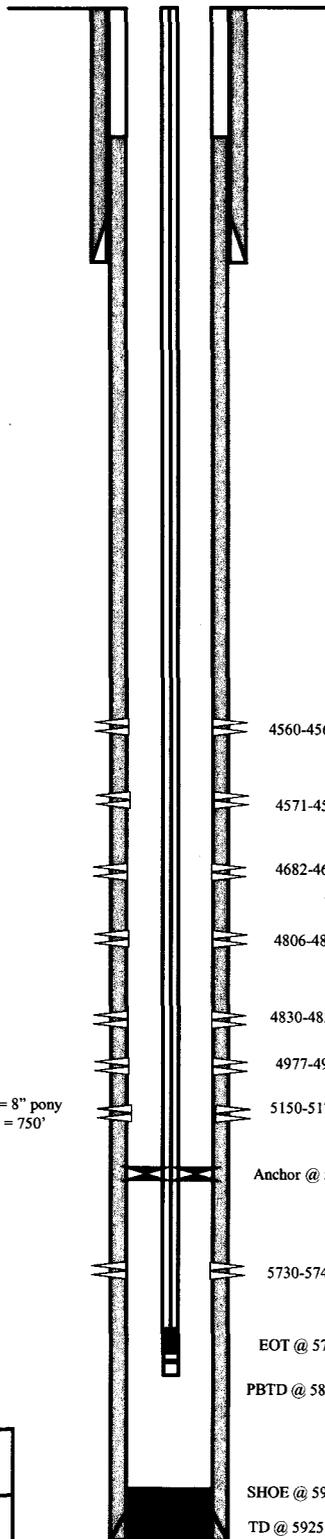
### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 182 jts (5685.0')  
 TUBING ANCHOR: 5697.0' KB  
 NO. OF JOINTS: 1 jts (31.4')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5731.2' KB  
 NO. OF JOINTS: 1 jts (31.7')  
 TOTAL STRING LENGTH: EOT @ 5764' KB

### SUCKER RODS

POLISHED ROD: 1-1/2" x 26' SM polished rods  
 SUCKER RODS: 2 x 3/4" - 8' pony rod, 1 x 3/4" = 6' pony rod, 1 x 3/4" = 8" pony rod, 98-3/4" = 2450' guided rods, 93- 3/4" = 2325' sucker rods, 30- 3/4" = 750' guided rods, 6-1 1/2" = 150' weight bars  
 PUMP SIZE: 2 1/2" x 1 1/4" x 12 x 16' RHAC  
 STROKE LENGTH: 86"  
 PUMP SPEED, SPM: 5

### Wellbore Diagram



### FRAC JOB

06/25/07	5730-5740'	<b>Frac CP5 sands as follows:</b> 40069# 20/40 sand in 408 bbls Lightning 17 frac fluid. Treated @ avg press of 1945 psi w/avg rate of 24.7 BPM. ISIP 2163 psi. Calc flush: 5728 gal. Actual flush: 5208 gal.
06/26/07	5150-5178'	<b>Frac LODC sands as follows:</b> 126558# 20/40 sand in 899 bbls Lightning 17 frac fluid. Treated @ avg press of 2216 psi w/avg rate of 24.7 BPM. ISIP 2676 psi. Calc flush: 5148 gal. Actual flush: 4662 gal.
06/26/07	4977-4998'	<b>Frac A1 sands as follows:</b> 94957# 20/40 sand in 708 bbls Lightning 17 frac fluid. Treated @ avg press of 1623 psi w/avg rate of 24.7 BPM. ISIP 1945 psi. Calc flush: 4975 gal. Actual flush: 4494 gal.
06/26/07	4806-4835'	<b>Frac B2 &amp; B1 sands as follows:</b> 61885# 20/40 sand in 508 bbls Lightning 17 frac fluid. Treated @ avg press of 1689 psi w/avg rate of 24.7 BPM. ISIP 1825 psi. Calc flush: 4804 gal. Actual flush: 4326 gal.
06/26/07	4682-4688'	<b>Frac D3 sands as follows:</b> 12609# 20/40 sand in 241 bbls Lightning 17 frac fluid. Treated @ avg press of 2133 psi w/avg rate of 24.7 BPM. ISIP 1776 psi. Calc flush: 4680 gal. Actual flush: 4221 gal.
06/26/07	4560-4565'	<b>Frac D1 sands as follows:</b> 16073# 20/40 sand in 246 bbls Lightning 17 frac fluid. Treated @ avg press of 1881 psi w/avg rate of 24.7 BPM. ISIP 1857 psi. Calc flush: 4558 gal. Actual flush: 4494 gal.

05/28/08 pump change. Updated rod and tubing details  
 4560-4565' 6/21/2010 Parted rods. Updated rod and tubing detail.  
 6/23/2010 Parted rods. Updated rod and tubing detail.  
 3/15/11 Parted rods. Updated rod and tubing detail.

### PERFORATION RECORD

06/21/07	5730-5740'	4 JSPF	40 holes
06/25/07	5150-5178'	4 JSPF	112 holes
06/26/07	4977-4998'	4 JSPF	84 holes
06/26/07	4830-4835'	4 JSPF	20 holes
06/26/07	4806-4817'	4 JSPF	44 holes
06/26/07	4682-4688'	4 JSPF	24 holes
06/26/07	4571-4576'	4 JSPF	20 holes
06/26/07	4560-4565'	4 JSPF	20 holes

**NEWFIELD**

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**FEDERAL 10-22-9-16**

1736'FSL & 2137' FEL

NW/SE Section 22-T9S-R16E

Duchesne Co, Utah

API #43-013-33166; Lease # UTU-74392

## Federal 11A-22-9-16

Spud Date: 5-15-07  
 Put on Production: 7-18-07  
 GL: 5867' KB: 5879'

### Injection Wellbore Diagram

#### SURFACE CASING

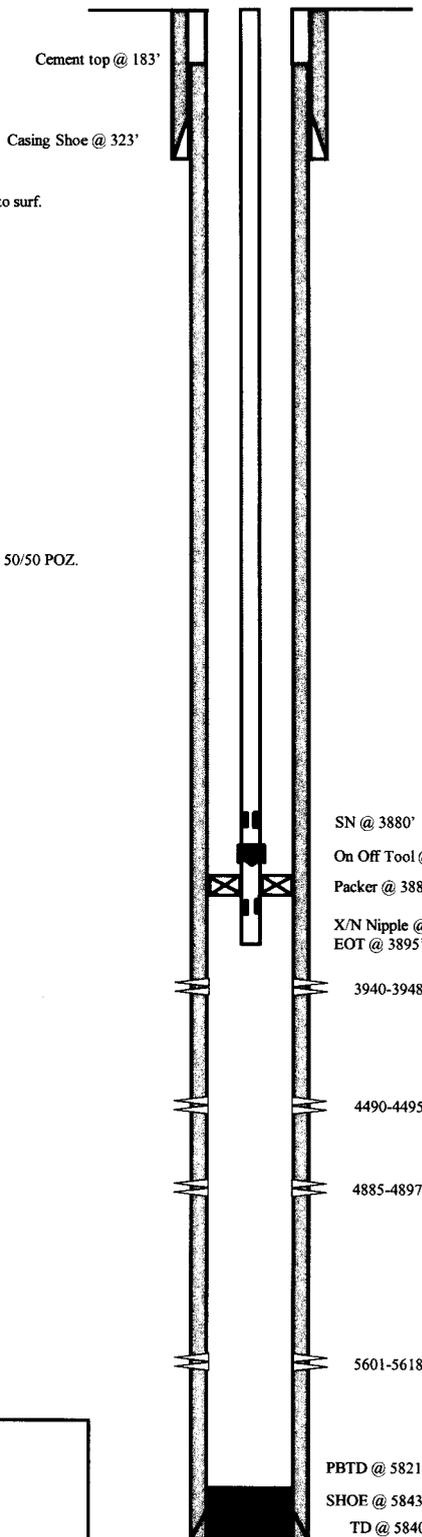
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jnts (311.35')  
 DEPTH LANDED: 323.2' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 3 bbls cmt to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 134 jts (5829.37')  
 DEPTH LANDED: 5842.62' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TO SURFACE: 183'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 124 jts (3867.6')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 3879.6' KB  
 ON/OFF TOOL AT: 3880.7'  
 ARROW #1 PACKER CE AT: 3885'  
 XO 2-3/8 x 2-7/8 J-55 AT: 3889.5'  
 TBG PUP 2-3/8 J-55 AT: 3890'  
 X/N NIPPLE AT: 3894.1'  
 TOTAL STRING LENGTH: EOT @ 3895.5'



#### FRAC JOB

7-9-07 5601-5618' **Frac CP5 sands as follows:**  
 50556# 20/40 sand in 495 bbls Lightning 17 frac fluid. Treated @ avg press of 1972 psi w/avg rate of 24.8 BPM. ISIP 2200 psi. Calc flush: 5599 gal. Actual flush: 5082 gal.

7-11-07 4885-4897' **Frac A1 sands as follows:**  
 70631# 20/40 sand in 616 bbls Lightning 17 frac fluid. Treated @ avg press of 1959 psi w/avg rate of 24.8 BPM. ISIP 2160 psi. Calc flush: 4883 gal. Actual flush: 4410 gal.

7-13-07 4490-4495' **Frac D1 sands as follows:**  
 20088# 20/40 sand in 310 bbls Lightning 17 frac fluid. Treated @ avg press of 1769 psi w/avg rate of 24.8BPM. ISIP 1908 psi. Calc flush: 4489 gal. Actual flush: 3990 gal.

7-13-07 3940-3948' **Frac GB4 sands as follows:**  
 42107# 20/40 sand in 394 bbls Lightning 17 frac fluid. 24.8BPM. ISIP 1470psi. Calc flush: 3938 gal. Actual flush: 3906 gal.

06/25/08 **Workover.** Rod & Tubing detail updated.  
 1/18/2010 **Tubing leak.** Updated rod and tubing detail.  
 11/16/12 **Convert to Injection Well**  
 11/20/12 **Conversion MIT Finalized** -- update tbg detail

#### PERFORATION RECORD

7-9-07	5601-5618'	4 JSPF	68 holes
7-18-07	4885-4897'	4 JSPF	48 holes
7-11-07	4490-4495'	4 JSPF	20 holes
7-13-07	3940-3948'	4 JSPF	32 holes

**NEWFIELD**

**Federal 11A-22-9-16**  
 2007' FSL & 1783' FWL  
 NE/SW Section 22-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33149; Lease #UTU-74392

**NEWFIELD**

**Schematic**

43-013-32959

Well Name: Federal 8-22-9-16

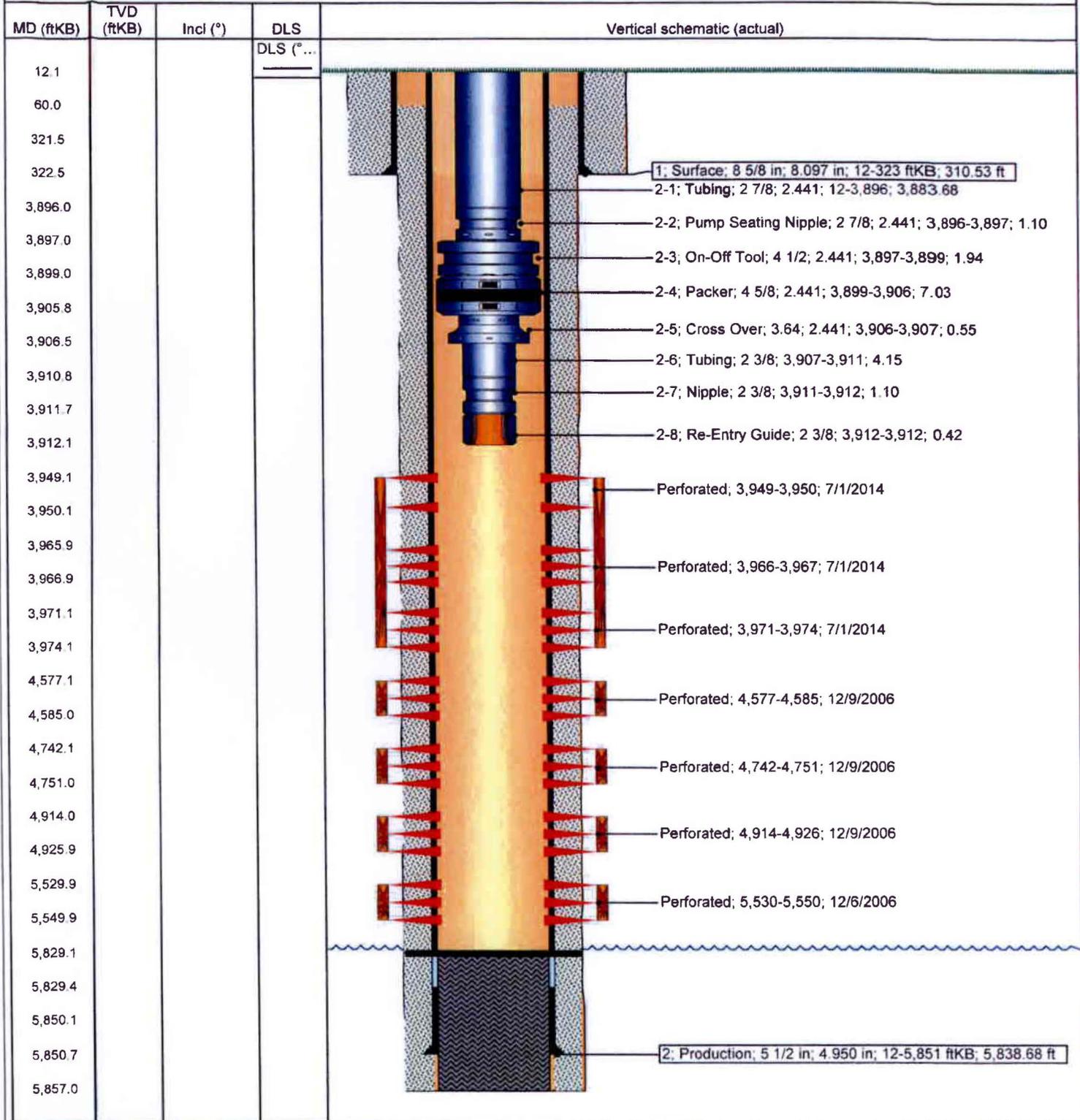
Surface Legal Location 22-9S-16E		API/UWI 43013329590000	Well RC 500159036	Lease	State/Province Utah	Field Name GMBU CTB6	County DUCHESNE
Spud Date 11/1/2006	Rig Release Date 11/24/2006	On Production Date 12/13/2006	Original KB Elevation (ft) 5,791	Ground Elevation (ft) 5,779	Total Depth All (TVD) (ftKB) Original Hole - 5,828.9		PBTD (All) (ftKB) Original Hole - 5,828.9

**Most Recent Job**

Job Category Production / Workover	Primary Job Type Conversion	Secondary Job Type OAP	Job Start Date 6/30/2014	Job End Date 7/3/2014
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TD: 5,857.0

Vertical - Original Hole, 7/23/2014 8:41:09 AM



## Federal 5-22-9-16

Spud Date: 3-18-08  
 Put on Production: 5-9-08  
 GL: 5918' KB: 5930'

### Injection Wellbore Diagram

#### SURFACE CASING

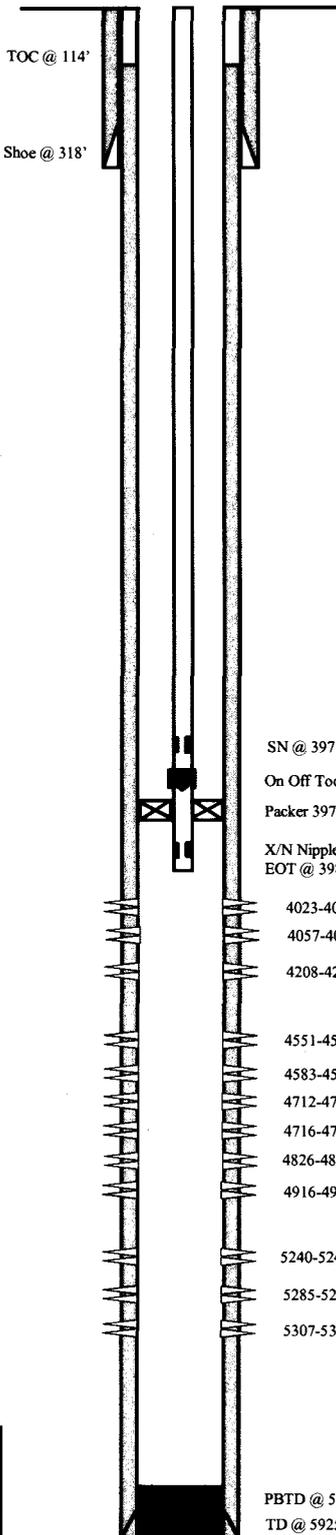
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (307.89')  
 DEPTH LANDED: 317.89'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, circ. 8 bbls to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 141 jts (5922.15')  
 DEPTH LANDED: 5920.15'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II & 400 sxs 50/50 POZ.  
 CEMENT TOP AT: 114' per CBL 4/29/08

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 126 jts (3959.1')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 3971.1' KB  
 ON/OFF TOOL AT: 3972.2'  
 PACKER CE AT: 3977.15'  
 TBG PUP 2-3/8" AT: 3980.9'  
 X/N NIPPLE AT: 3985.1'  
 TOTAL STRING LENGTH: EOT @ 3987'



#### FRAC JOB

05-06-08 5307-5313' **RU BJ & frac LODC sds as follows:**  
 99,254# 20/40 sand in 750 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2444 w/ ave rate of 28.6 bpm w/ 8 ppg of sand. ISIP was 2669. Actual Flush: 4746 gal.

05-06-08 4916-4923' **RU BJ & frac stage #2 as follows:**  
 19,006# 20/40 sand in 304 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2172 w/ ave rate of 23.4 bpm w/ 6.5 ppg of sand. ISIP was 2395. Actual Flush: 4452 gal.

05-06-08 4826-4835' **RU BJ & frac stage #3 as follows:**  
 29,485# 20/40 sand in 377 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 1724 w/ ave rate of 23.4 bpm w/ 6.5 ppg of sand. ISIP was 1676. Actual Flush: 4326 gal.

05-06-08 4551-4556' **RU BJ & frac stage #4 as follows:**  
 19,618# 20/40 sand in 297 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 1788 w/ ave rate of 23.2 bpm w/ 6.5 ppg of sand. ISIP was 1868. Actual Flush: 4074 gal.

05-06-08 4208-4216' **RU BJ & frac stage #5 as follows:**  
 24,768# 20/40 sand in 330 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2518 w/ ave rate of 23.2 bpm w/ 6.5 ppg of sand. ISIP was 2984. Actual Flush: 4116 gal.

10/7/09 Tubing Leak. Updated rod & tubing details.

09/12/12 4712-4718' **Frac C sands as follows:** 10839# 20/40 sand in 126 bbls of Lightning 17 frac fluid.

09/13/12 4057-4060' **Frac GB6 sands as follows:** 18889 # 20/40 sand in 192 bbls of Lightning 17 frac fluid.

09/13/12 4023-4026' **Frac GB4 sands as follows:** 20651# 20/40 sand in 182 bbls of Lightning 17 frac fluid.

09/14/12 **Convert to Injection Well**

09/18/12 **Conversion MIT Finalized** - update tbg detail

#### PERFORATION RECORD

Date	Depth Range	Tool	Holes
04-24-08	5307-5313'	4 JSPF	24 holes
04-30-08	5285-5293'	4 JSPF	32 holes
04-30-08	5240-5248'	4 JSPF	32 holes
04-30-08	4916-4923'	4 JSPF	28 holes
04-30-08	4826-4835'	4 JSPF	36 holes
04-30-08	4583-4588'	4 JSPF	20 holes
04-30-08	4551-4556'	4 JSPF	20 holes
04-30-08	4208-4216'	4 JSPF	32 holes
09-12-12	4716-4718'	3 JSPF	6 holes
09-12-12	4712-4713'	3 JSPF	3 holes
09-12-12	4057-4060'	3 JSPF	9 holes
09-12-12	4023-4026'	3 JSPF	9 holes

**NEWFIELD**

**Federal 5-22-9-16**  
 1989' FNL & 613' FWL  
 SW/NW Section 22-T9S-R16E  
 Duchesne Co, Utah  
 API # 43-013-33025; Lease # UTU-64379

Spud Date: 4/28/2009  
 Put on Production: 7/22/2009  
 GL: 5966' KB: 5978'

## Federal 12-22-9-16

### Injection Wellbore Diagram

#### SURFACE CASING

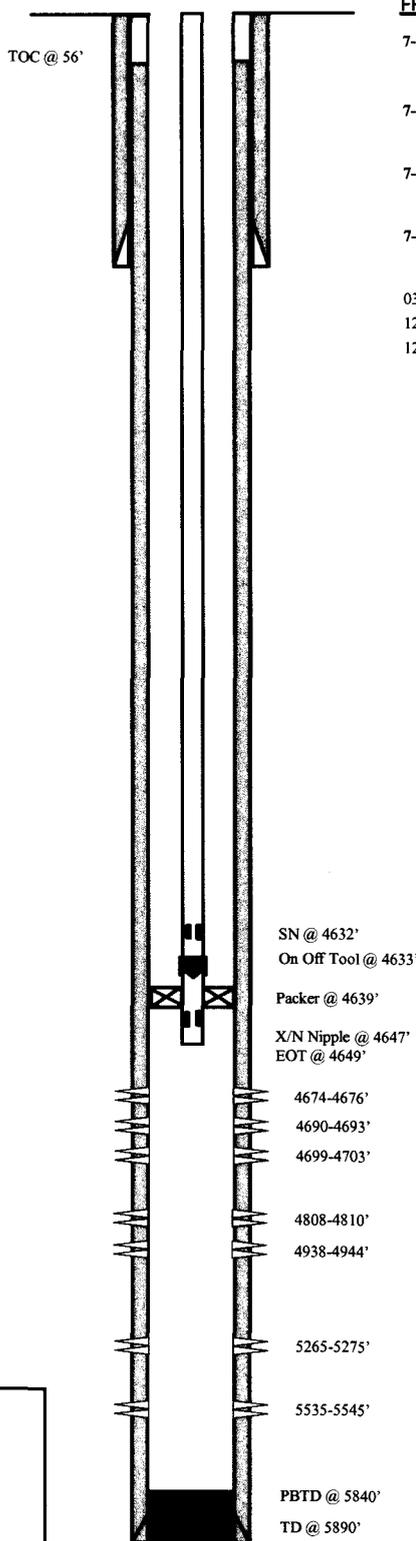
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 8 jts (313.85')  
 HOLE SIZE: 12-1/4"  
 DEPTH LANDED: 325.7' KB  
 CEMENT DATA: 160 sxs Class 'G', circ. 4 bbls to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 149 jts (5868.64')  
 HOLE SIZE: 7 7/8"  
 DEPTH LANDED: 5881.89'  
 CEMENT DATA: 275 sxs Prem. Lite and 401 sxs 50/50 POZ  
 CEMENT TOP AT: 56' per CBL 7/14/09

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 167 jts (4619.9')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4631.9' KB  
 ON/OFF TOOL AT: 4633'  
 ARROW #1 PACKER CE AT: 4639.1'  
 XO 2-3/8 x 2-7/8 J-55 AT: 4642.8'  
 TBG PUP 2-3/8 J-55 AT: 4643.3'  
 X/N NIPPLE AT: 4647.4'  
 TOTAL STRING LENGTH: EOT @ 4649.03'



#### FRAC JOB

7-23-09 5535-5545' **Frac CP3 sands as follows:**  
 Frac with 34,344# 20/40 sand in 249 bbls of Lightning 17 fluid.  
 7-23-09 5265-5275' **Frac LODC sands as follows:**  
 Frac with 65,879# 20/40 sand in 147 bbls of Lightning 17 fluid.  
 7-23-09 4808-4944' **Frac A3 & B2 sands as follows:**  
 Frac with 34,625# 20/40 sand in 285 bbls of Lightning 17 fluid.  
 7-23-09 4674-4703' **Frac C sands as follows:**  
 Frac with 34344# 20/40 sand in 249 bbls of Lightning 17 fluid.  
 03/16/2011 **Tubing Leak.** Rod & tubing detail updated.  
 12/18/13 **Convert to Injection Well**  
 12/20/13 **Conversion MIT Finalized** -update tbg detail

#### PERFORATION RECORD

5535-5545'	3 JSFP	30 holes
5265-5275'	3 JSFP	30 holes
4938-4944'	3 JSFP	18 holes
4808-4810'	3 JSFP	6 holes
4699-4703'	3 JSFP	12 holes
4690-4693'	3 JSFP	9 holes
4674-4676'	3 JSFP	6 holes

**NEWFIELD**

**Federal 12-22-9-16**

2113' FSL & 349' FWL NW/SW  
 Section 22-T9S-R16E  
 Duchesne Co, Utah  
 API # 43-013-33586; Lease # UTU-74392

## Federal 13-22-9-16

Spud Date: 5-9-2007  
 Put on Production: 6-25-2007  
 GL: 5994' KB: 6006'

### Injection Wellbore Diagram

#### SURFACE CASING

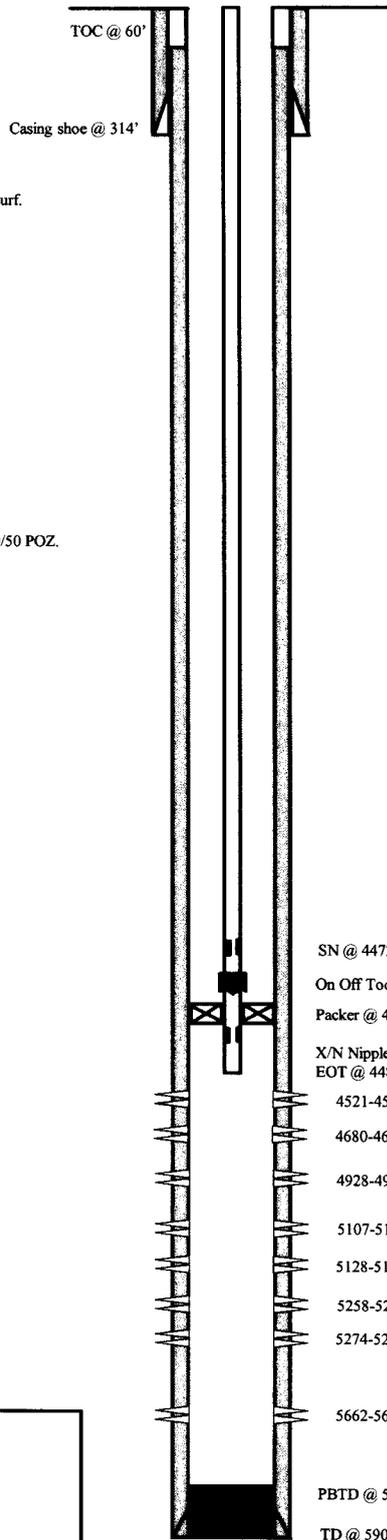
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (302.02')  
 DEPTH LANDED: 313.87' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 3 bbls cmt to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 134 jts (5879.22')  
 DEPTH LANDED: 5892.47' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 325 sxs Prem. Lite II mixed & 425 sxs 50/50 POZ.  
 CEMENT TOP AT: 60'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 142 jts (4460.3')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4472.5' KB  
 ON/OFF TOOL AT: 4473.4'  
 ARROW #1 PACKER CE AT: 4478.17'  
 XO 2-3/8 x 2-7/8 J-55 AT: 4481.8'  
 TBG PUP 2-3/8 J-55 AT: 4482.3'  
 X/N NIPPLE AT: 4486.5'  
 TOTAL STRING LENGTH: EOT @ 4488'



#### FRAC JOB

06-19-07	5662-5672'	<b>Frac CP5 sands as follows:</b> 41156# 20/40 sand in 409 bbls Lightning 17 frac fluid. Treated @ avg press of 1991 psi w/avg rate of 21.8 BPM. ISIP 2175 psi. Calc flush: 5660 gal. Actual flush: 5158 gal.
06-19-07	5258-5286'	<b>Frac LODC sands as follows:</b> 79611# 20/40 sand in 602 bbls Lightning 17 frac fluid. Treated @ avg press of 2528 psi w/avg rate of 21.8 BPM. ISIP 2750 psi. Calc flush: 5256 gal. Actual flush: 4788 gal.
06-18-07	5107-5136'	<b>Frac LODC sands as follows:</b> 55106# 20/40 sand in 451 bbls Lightning 17 frac fluid. Treated @ avg press of 2838 psi w/avg rate of 24.7 BPM. ISIP 3235 psi. Calc flush: 5105 gal. Actual flush: 4620 gal.
06-19-07	4928-4942'	<b>Frac A1 sands as follows:</b> 59043# 20/40 sand in 475 bbls Lightning 17 frac fluid. Treated @ avg press of 1937 w/avg rate of 24.7 BPM. ISIP 2260 psi. Calc flush: 4926 gal. Actual flush: 4872 gal.
08/27/07		<b>Pump Change:</b> Rod & Tubing detail unchanged.
5/29/08		<b>Stuck pump:</b> Rod & Tubing detail updated.
1/31/09		<b>Pump Change:</b> Updated r & t detail.
3/16/2011		<b>Pump Change:</b> Updated rod & tubing detail.
11/26/12	<b>4680-4684'</b>	<b>Frac C sands as follows:</b> 11774# 20/40 sand in 216 bbls Lightning 17 frac fluid.
11/27/12	<b>4521-4526'</b>	<b>Frac D1 sands as follows:</b> 13743# 20/40 sand in 259 bbls Lightning 17 frac fluid.
11/28/12		<b>Convert to Injection Well</b>
12/04/12		<b>Conversion MIT Finalized</b> - update tbg detail

#### PERFORATION RECORD

06-18-07	5662-5672'	4 JSPF	40 holes
06-19-07	5274-5286'	4 JSPF	48 holes
06-19-07	5258-5264'	4 JSPF	24 holes
06-19-07	5128-5136'	4 JSPF	32 holes
06-19-07	5103-5110'	4 JSPF	32 holes
06-19-07	4928-4942'	4 JSPF	56 holes
11/21/12	4680-4684'	3 JSPF	12 holes
11/21/12	4521-4526'	3 JSPF	15 holes

**NEWFIELD**

Federal 13-22-9-16  
 906' FSL & 702' FWL  
 SW/SW Section 22-T9S-R16E  
 Duchesne Co, Utah  
 API # 43-013-33148; Lease # UTU-74392

Spud Date: 4-25-07  
 Put on Production: 6-22-07  
 GL: 5894' KB: 5906'

## Fed. #14-22-9-16

### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (309.02')  
 DEPTH LANDED: 320.87' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: To surface with 160 sx Class "G" cmt.

#### PRODUCTION CASING

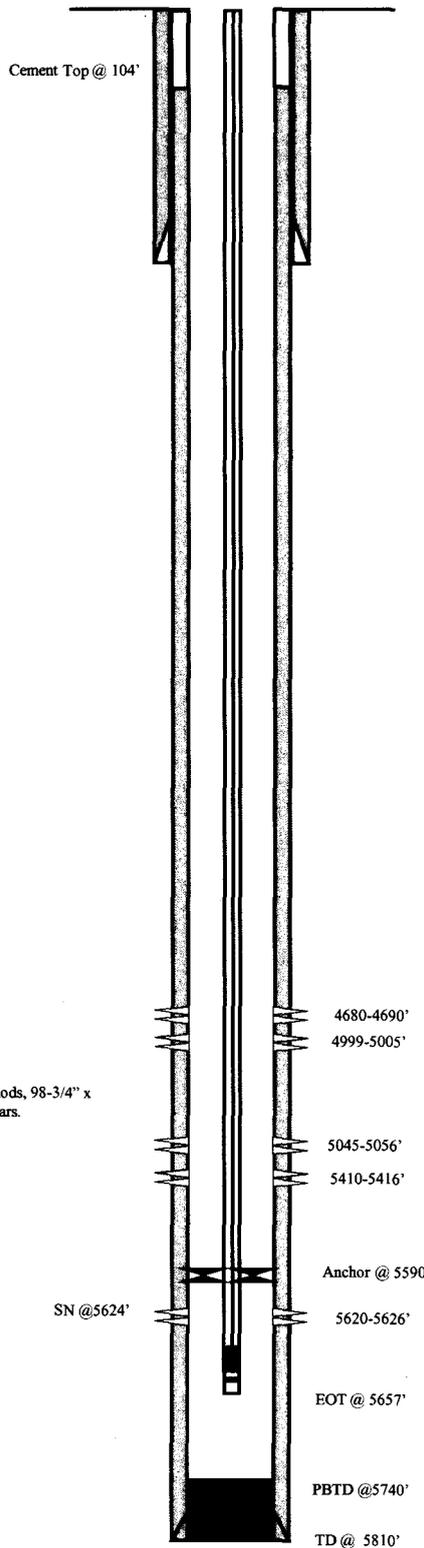
CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 142 jts. (6165.44')  
 DEPTH LANDED: 5793.94' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sx Prem. Lite II & 400 sx 50/50 Poz.  
 CEMENT TOP: 104'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 179 jts (5577.57')  
 TUBING ANCHOR: 5589.57' KB  
 NO. OF JOINTS: 1 jts (31.63')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5624.00' KB  
 NO. OF JOINTS: 1 jts (31.57')  
 TOTAL STRING LENGTH: EOT @ 5657.12' KB

#### SUCKER RODS

POLISHED ROD: 1-1/2" x 26'  
 SUCKER RODS: 3/4 x 4' Pony rod, 100-3/4 x 25' Scrapered Rods, 98-3/4" x 25' Slick Rods, 20-3/4' x 25' scrapered rods, 6-1 1/2 x 25' wt bars.  
 PUMP SIZE: 2 1/2" x 1 1/2" x 12x 15' RHAC  
 STROKE LENGTH: 86"  
 PUMP SPEED, 5 SPM:



#### FRAC JOB

6/15/07 **5620-5626 RU BJ & frac CP5 sds as follows:**  
 14,228#s of 20/40 sand in 265 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2740 w/ ave rate of 27 bpm w/ 6.5 ppg of sand. ISIP was 2525. Actual flush: 5166 gals.

6/15/07 **5410-5416 RU BJ & frac stage #2 as follows:**  
 19,400# 20/40 sand in 298 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2147 w/ ave rate of 24.8 bpm w/ 6.5 ppg of sand. ISIP was 2134. Actual flush: 4914 gals.

6/15/07 **4999-5005 RU BJ & frac stage #3 as follows:**  
 55,118# 20/40 sand in 482 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2856 w/ ave rate of 24.8 bpm w/ 6.5 ppg of sand. ISIP was 2986. Actual flush: 4536 gals.

6/15/07 **4680-4690 RU BJ & frac stage #4 as follows:**  
 61,337# 20/40 sand in 472 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 1703 w/ ave rate of 24.8 bpm w/ 8 ppg of sand. ISIP was 2056. Actual flush: 4662 gals.

1/3/09 Pump Change. Updated rod & tubing details.

#### PERFORATION RECORD

Date	Interval	Stages	Holes
06/15/07	5620-5626'	4 JSPF	24 holes
06/15/07	5410-5416'	4 JSPF	112 holes
06/15/07	5045-5056'	4 JSPF	84 holes
06/15/07	4999-5005'	4 JSPF	20 holes
06/15/07	4680-4690'	4 JSPF	40 holes

**NEWFIELD**

Federal 14-22-9-16  
 477' FSL and 1988' FWL  
 SE/SW Sec. 22, T9S, 16E  
 Duchesne Co, Utah  
 API #43-013-33147; Lease #UTU-74392

**NEWFIELD**

**Schematic**

Well Name: Mon 11-22-9-16

43-013-31647

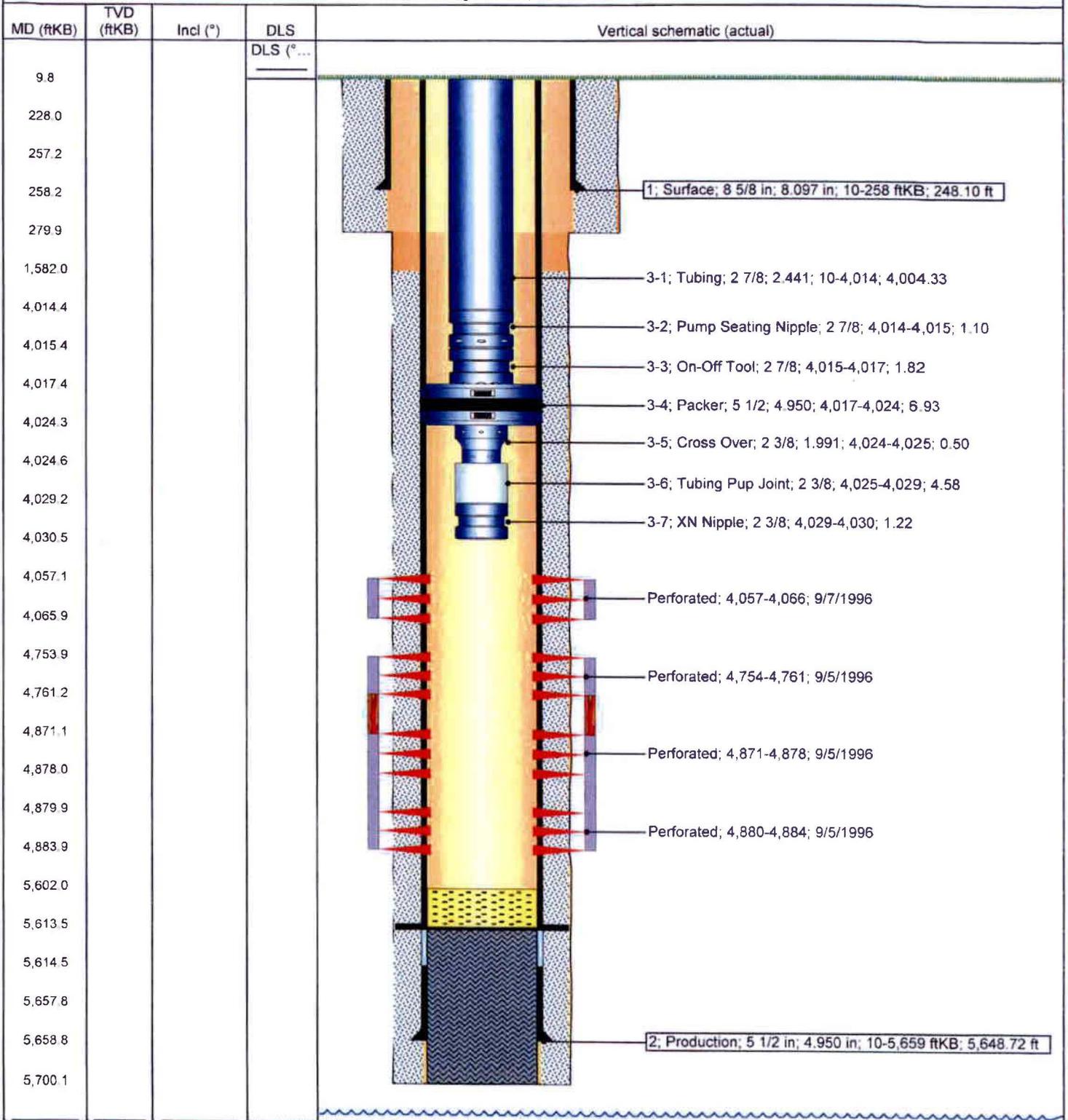
Surface Legal Location 22-9S-16E		API/UWI 43013316470000	Well RC 500151005	Lease	State/Province Utah	Field Name GMBU CTB6	County DUCHESNE
Spud Date 8/19/1996	Rig Release Date 8/27/1996	On Production Date 9/26/1996	Original KB Elevation (ft) 5,927	Ground Elevation (ft) 5,917	Total Depth All (TVD) (ftKB)	PBTD (All) (ftKB)	Original Hole - 5,613.5

**Most Recent Job**

Job Category Production / Workover	Primary Job Type Conversion	Secondary Job Type Basic	Job Start Date 6/12/2014	Job End Date 6/17/2014
---------------------------------------	--------------------------------	-----------------------------	-----------------------------	---------------------------

**TD: 5,700.0**

Vertical - Original Hole, 6/24/2014 8:22:18 AM



Units of Measurement: **Standard**

**Water Analysis Report**

Production Company: **NEWFIELD PRODUCTION**  
 Well Name: **FEDERAL 6-22-9-16**  
 Sample Point:  
 Sample Date: **1/24/2014**  
 Sample ID: **WA-264552**

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

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

Sample Specifics		Analysis @ Properties in Sample Specifics			
		Cations		Anions	
		mg/L		mg/L	
Test Date:	1/24/2014	Sodium (Na):	5211.00	Chloride (Cl):	10000.00
System Temperature 1 (°F):	120	Potassium (K):	26.50	Sulfate (SO4):	4.00
System Pressure 1 (psig):	60	Magnesium (Mg):	5.70	Bicarbonate (HCO3):	3660.00
System Temperature 2 (°F):	210	Calcium (Ca):	10.00	Carbonate (CO3):	
System Pressure 2 (psig):	60	Strontium (Sr):	5.00	Acetic Acid (CH3COO)	
Calculated Density (g/ml):	1.009	Barium (Ba):	7.50	Propionic Acid (C2H5COO)	
pH:	8.70	Iron (Fe):	1.00	Butanoic Acid (C3H7COO)	
Calculated TDS (mg/L):	18930.78	Zinc (Zn):	0.06	Isobutyric Acid ((CH3)2CHCOO)	
CO2 in Gas (%):		Lead (Pb):	0.00	Fluoride (F):	
Dissolved CO2 (mg/L):	0.00	Ammonia NH3:		Bromine (Br):	
H2S in Gas (%):		Manganese (Mn):	0.02	Silica (SiO2):	
H2S in Water (mg/L):	25.00				

Notes:  
**Al=08                      B=21.1                      Li=1.3**

(PTB = Pounds per Thousand Barrels)

Temp (°F)	PSI	Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO4·2H2O		Celestite SrSO4		Halite NaCl		Zinc Sulfide	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
210.00	60.00	1.82	8.62	0.00	0.00	3.59	0.55	2.93	0.73	0.00	0.00	0.00	0.00	0.00	0.00	8.95	0.03
200.00	60.00	1.77	8.60	0.00	0.00	3.57	0.55	2.88	0.73	0.00	0.00	0.00	0.00	0.00	0.00	9.04	0.03
190.00	60.00	1.73	8.58	0.00	0.00	3.57	0.55	2.83	0.73	0.00	0.00	0.00	0.00	0.00	0.00	9.13	0.03
180.00	60.00	1.68	8.56	0.00	0.00	3.56	0.55	2.79	0.73	0.00	0.00	0.00	0.00	0.00	0.00	9.23	0.03
170.00	60.00	1.64	8.54	0.00	0.00	3.57	0.55	2.74	0.73	0.00	0.00	0.00	0.00	0.00	0.00	9.33	0.03
160.00	60.00	1.59	8.52	0.00	0.00	3.58	0.55	2.69	0.73	0.00	0.00	0.00	0.00	0.00	0.00	9.44	0.03
150.00	60.00	1.55	8.50	0.00	0.00	3.59	0.55	2.64	0.73	0.00	0.00	0.00	0.00	0.00	0.00	9.56	0.03
140.00	60.00	1.52	8.48	0.00	0.00	3.61	0.55	2.58	0.73	0.00	0.00	0.00	0.00	0.00	0.00	9.69	0.03
130.00	60.00	1.48	8.45	0.00	0.00	3.64	0.55	2.53	0.73	0.00	0.00	0.00	0.00	0.00	0.00	9.83	0.03
120.00	60.00	1.45	8.43	0.00	0.00	3.68	0.55	2.48	0.73	0.00	0.00	0.00	0.00	0.00	0.00	9.98	0.03

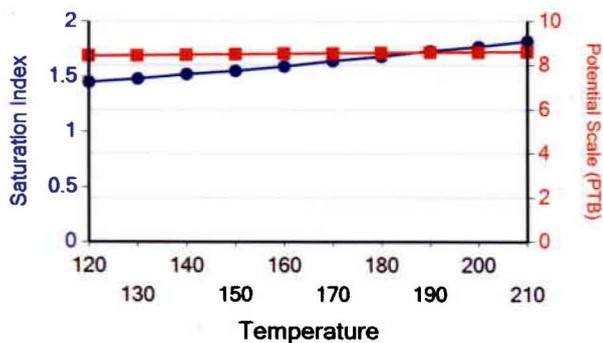
Water Analysis Report

Temp (°F)	PSI	Hemihydrate CaSO4·0.5H2O		Anhydrate CaSO4		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
210.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.56	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.48	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
190.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.40	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.23	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.13	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.82	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

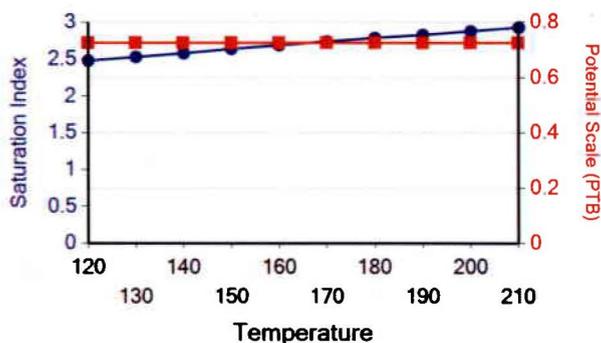
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate

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

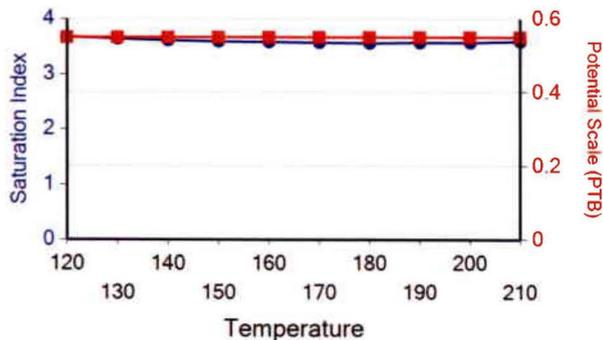
Calcium Carbonate



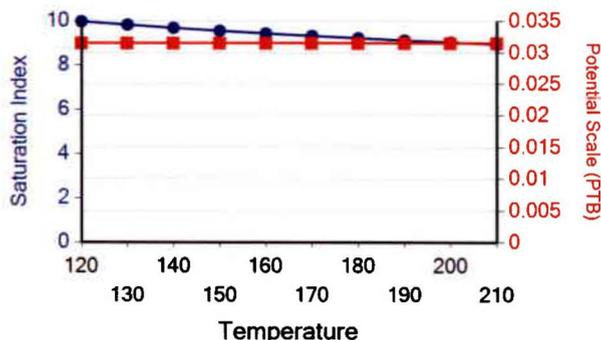
Iron Carbonate



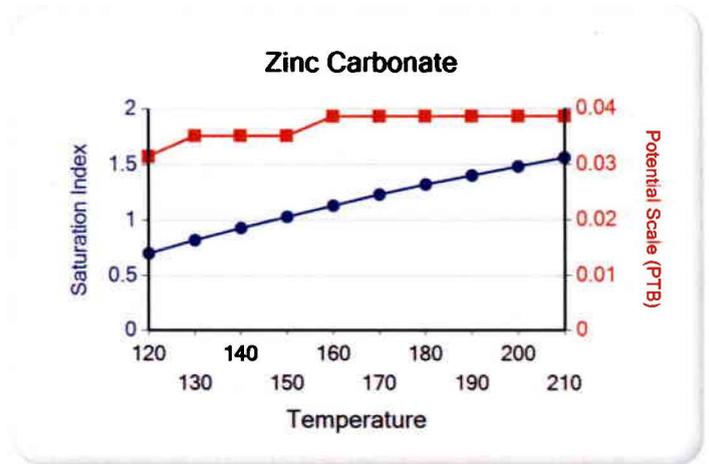
Iron Sulfide



Zinc Sulfide



Water Analysis Report



# ATTACHMENT F

4 of 5

**multi-chem**

A HALLIBURTON SERVICE

**Multi-Chem Analytical Laboratory**

1553 East Highway 40

Vernal, UT 84078

Units of Measurement: **Standard**

## Water Analysis Report

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

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

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

Sample Specifics		Analysis @ Properties in Sample Specifics			
		Cations		Anions	
		mg/L		mg/L	
Test Date:	11/28/2013	Sodium (Na):	141.00	Chloride (Cl):	1000.00
System Temperature 1 (°F):	120	Potassium (K):	39.00	Sulfate (SO4):	41.00
System Pressure 1 (psig):	2000	Magnesium (Mg):	24.00	Bicarbonate (HCO3):	1122.00
System Temperature 2 (°F):	210	Calcium (Ca):	41.00	Carbonate (CO3):	
System Pressure 2 (psig):	2000	Strontium (Sr):	0.70	Acetic Acid (CH3COO)	
Calculated Density (g/ml):	0.999	Barium (Ba):	0.00	Propionic Acid (C2H5COO)	
pH:	6.50	Iron (Fe):	0.11	Butanoic Acid (C3H7COO)	
Calculated TDS (mg/L):	2413.76	Zinc (Zn):	0.03	Isobutyric Acid ((CH3)2CHCOO)	
CO2 in Gas (%):		Lead (Pb):	0.00	Fluoride (F):	
Dissolved CO2 (mg/L):	24.00	Ammonia NH3:		Bromine (Br):	
H2S in Gas (%):		Manganese (Mn):	0.00	Silica (SiO2):	4.92
H2S in Water (mg/L):	0.00				

**Notes:**

**B=4 Al=18 LI=0**

(PTB = Pounds per Thousand Barrels)

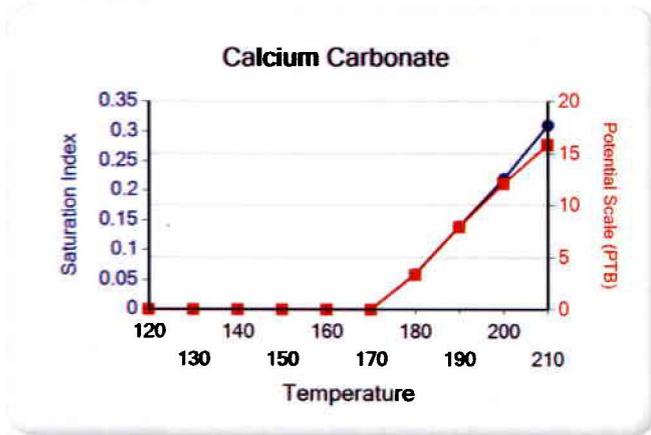
Temp (°F)	PSI	Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO4·2H2O		Celestite SrSO4		Halite NaCl		Zinc Sulfide	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
210.00	2000.00	0.31	15.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	2000.00	0.22	12.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
190.00	2000.00	0.14	7.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.00	2000.00	0.06	3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

## Water Analysis Report

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

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

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



**Attachment "G"**

**Federal #6-22-9-16  
Proposed Maximum Injection Pressure**

Frac Interval (feet)		Avg. Depth (feet)	ISIP (psi)	Calculated Frac Gradient (psi/ft)	Pmax
Top	Bottom				
5693	5699	5696	2055	0.79	2018
5510	5517	5514	1762	0.75	1726 ←
4976	5051	5014	1884	0.81	1852
4724	4739	4732	2044	0.87	2013
4566	4575	4571	1850	0.84	1820
				<b>Minimum</b>	<u><u>1726</u></u>

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

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

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

**Daily Activity Report**

Format For Sundry

**FEDERAL 6-22-9-16****2/1/2008 To 6/30/2008****4/25/2008 Day: 1****Completion**

Rigless on 4/24/2008 - Instal 5K 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 @ 5854' & cement top @ 196'. Perforate stage #1, CP5 sds @ 5734-5749' & CP4 sds @ 5693-5699' w/ 3-1/8" Slick Guns (19 gram, .49"HE, 120°) w/ 4 spf for total of 48 shots. 140 bbls EWTR. SIFN.

**5/1/2008 Day: 2****Completion**

Rigless on 4/30/2008 - RU BJ Services "Ram Head" frac flange. RU BJ & frac CP5 & CP4 sds, stage #1 down casing w/ 16,361#'s of 20/40 sand in 302 bbls of Lightning 17 frac fluid. Open well w/ 0 psi on casing. Perfs broke down @ 3717psi. Pump 30 gals of Techna Hib Chemical. Treated @ ave pressure of 2441 w/ ave rate of 23.2 bpm w/ 6.5 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2055. 442 bbls EWTR. Leave pressure on well. RU Perforators LLC. WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" (6K) composite flow through frac plug & 7' perf gun. Set plug @ 5620'. Perforate CP2 sds @ 5510-17' w/ 3-1/8" Slick Guns (19 gram, .49"HE, 120°) w/ 4 spf for total of 28 shots. RU BJ & frac stage #2 w/ 15,257#'s of 20/40 sand in 279 bbls of Lightning 17 frac fluid. Open well w/ 1695 psi on casing. Perfs broke down @ 2497 psi. Pump 30 gals of Techna Hib Chemical. Treated @ ave pressure of 2046 w/ ave rate of 23.2 bpm w/ 6.5 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 1762. 721 bbls EWTR. Leave pressure on well. RU WLT. RIH w/ frac plug & 7', 4' perf gun. Set plug @ 5150'. Perforate A3 sds @ 5044-51' & A1 sds @ 4976-80' w/ 4 spf for total of 44 shots. RU BJ & frac stage #3 w/ 14,997#'s of 20/40 sand in 235 bbls of Lightning 17 frac fluid. Open well w/ 1626 psi on casing. Perfs broke down @ 1911 psi. Pump 30 gals of Techna Hib Chemical. Treated @ ave pressure of 2158 w/ ave rate of 23.2 bpm w/ 6.5 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 1884. 956 bbls EWTR. Leave pressure on well. RU WLT. RIH w/ frac plug & 15' perf gun. Set plug @ 4840'. Perforate C sds @ 4724-39' w/ 4 spf for total of 60 shots. RU BJ & frac Stage #4 w/ 115,315#'s of 20/40 sand in 825 bbls of Lightning 17 frac fluid. Open well w/ 1555 psi on casing. Perfs broke down @ 3108 psi. Pump 30 gals of Techna Hib Chemical. Treated @ ave pressure of 1876 w/ ave rate of 23.2 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2044. 1781 bbls EWTR. Leave pressure on well. RU WLT. RIH w/ frac plug & 9' perf gun. Set plug @ 4620'. Perforate D1 sds @ 4566-75' w/ 4 spf for total of 36 shots. RU BJ & frac Stage #5 w/ 40,206#'s of 20/40 sand in 394 bbls of Lightning 17 frac fluid. Open well w/ 1475 psi on casing. Perfs broke down @ 3184 psi. Pump 30 gals of Techna Hib Chemical. Treated @ ave pressure of 1832 w/ ave rate of 23.2 bpm w/ 8 ppg of sand. ISIP was 1850. 2175 bbls EWTR. RD BJ & WLT. Flow well back. Well flowed for 6 hours & died w/ 420 bbls rec'd. SIFN.

**5/3/2008 Day: 3****Completion**

Western #1 on 5/2/2008 - MIRUSU. Open well w/ 0 psi on casing. RD Cameron BOP's & 5Kfrac head. Instal 3K production tbg head & Scheafer BOP's. RU 4-3/4" Chomp bit & bit sub. Tally, pick up & TIH w/ new 2-7/8", J-55, 6.5# tbg & TIH to tag plug @ 4620'. RU swivel, pump & tanks. Drlg out plug #1. TIH w/ tbg to tag plug @

4840'. Drlg out plug #2. TIH w/ tbg to tag plug @ 5150'. Drlg out plug #3. Circulate well clean. SIFN.

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5/6/2008 Day: 4

Completion

Western #1 on 5/5/2008 - Open well w/ 250 psi on casing. TIH w/ tbg to tag plug. RU swivel, pump & tanks. C/O to plug @ 5150'. Drlg out plug #4. TIH w/ tbg to tag plug @ 5620'. Drlg out plug #5. TIH w/ tbg to tag sand @ 5713'. C/O to PBD @ 5883'. LD 2 jts tbg. RU swab equipment. Made 11 runs to rec'd 115 bbls of fluid. IFL was surface. FFL was 2300'. Last run showed trace of oil w/ no sand. TIH w/ tbg to tag 11' of new sand. C/O to PBD @ 5883'. TOOH w/ tbg. LD bit & bit sub. TIH w/ BP, 6 jts tbg, Nipple, PBGA, 1 jt tbg, SN, 2 jts tbg, TA new CDI 45,000# shear, 157 jts tbg. EOT @ 4949'. SIFN.

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5/7/2008 Day: 5

Completion

Western #1 on 5/6/2008 - Open well w/ 0 psi on casing. TIH w/ tbg 20 jts in RD BOP's. Set TA @ 5290' w/ 16,000#'s tension w/ SN @ 5356' & EOT @ 5583'. Flush tbg 60 bbls water. Pick up & prime pump. TIH w/ new 2-1/2" x 1-1/2" x 12' x 16' RHAC CDI pump w/ 118"SL, 6- 1-1/2" weight rods, 20- 3/4" guided rods, 88- 3/4" plain rods, 99- 3/4" guided rods, 2', 6', 8' x 3/4" pony rods, 1-1/2" x 26' polished rod. Space pump. Test tbg & pump to 800 psi. RDMOSU. POP @ 6:30PM w/ 86"SL @ 5 SPM. Final Report.

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Pertinent Files: Go to File List

## ATTACHMENT H

### WORK PROCEDURE FOR PLUGGING AND ABANDONMENT

1. Set CIBP @ 4516'
2. Plug #1 Set 100' plug on top of CIBP using 12 sx Class "G" cement
3. Plug #2 175' balance plug using 20 sx Class "G" cement 50' above Trona-Bird's Nest extending 50' below base of Mahogany Oil Shale
4. Plug #3 120' balance plug using 14 sx Class "G" cement 60' above Uinta/Green River and extending 60' below
5. Plug #4 Pump 41 sx Class "G" cement down 5 1/2" casing to 353'

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

## Federal 6-22-9-16

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

Initial Production: BOPD,  
 MCFD, BWPD

### Proposed P & A Wellbore Diagram

#### SURFACE CASING

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

#### PRODUCTION CASING

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

Cement top @ 196'

Pump 41 sxs Class "G" Cement down 5-1/2" casing to 353'

120' balance plug using 14 sxs Class "G" cement 60' above Uinta/Bird's Nest River and extending 60' below (1419'-1539')

175' balance plug using 20 sxs Class "G" cement 50' above Trona-Bird's Nest extending 50' below base of Mahogany Oil Shale (2744'-2919')

100' (12 sxs) Class G Cement plug on top of CIBP

CIBP @ 4516'  
 4566-4575'

4724-4739'

4976-4980'

5044-5051'

5510-5517'

5693-5699'

PBTD @ 5883'

SHOE @ 5904'

TD @ 5931'



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