



March 17, 2006

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

RE: Applications for Permit to Drill: Federal 6-19-9-16, 8-19-9-16, 12-19-9-16,  
13-19-9-16, 5-20-9-16, and 15-20-9-16.

Dear Diana:

Enclosed find APD's on the above referenced wells. If you have any questions, feel free to give either Shon Mckinnon or myself a call.

Sincerely,

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

Mandie Crozier  
Regulatory Specialist

mc  
enclosures

**RECEIVED**  
**MAR 21 2006**

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-74391
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 13-19-9-16
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SW/SW 847' FSL 657' FWL 571003X 40, 011592 At proposed prod. zone 4429165Y -110-168078		9. API Well No. 43-013-33103
14. Distance in miles and direction from nearest town or post office* Approximatley 14.7 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. 657' f/lse, NA' f/unit		11. Sec., T., R., M., or Bk. and Survey or Area SW/SW Sec. 19, T9S R16E
16. No. of Acres in lease 2139.50		12. County or Parish Duchesne
17. Spacing Unit dedicated to this well 40 Acres		13. State UT
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1190'		19. Proposed Depth 5740'
20. BLM/BIA Bond No. on file UTB000192		21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6044' GL
22. Approximate date work will start* 2nd Quarter 2006		23. Estimated duration Approximately seven (7) days from spud to rig release.

24. Attachments

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

- 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 3/17/06
Title Regulatory Specialist		
Approved by (Signature) 	Name (Printed/Typed) BRADLEY G. HILL	Date 03-27-06
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  
MAR 21 2006

DIV. OF OIL, GAS & MINING

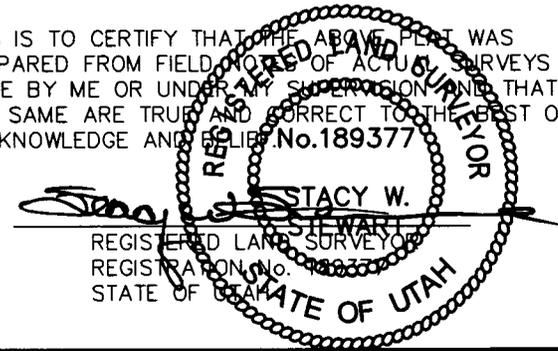
# T9S, R16E, S.L.B.&M.

## NEWFIELD PRODUCTION COMPANY

WELL LOCATION, 9 Mile 13-19-9-16,  
 LOCATED AS SHOWN IN THE SW 1/4 SW  
 1/4 OF SECTION 19, T9S, R16E,  
 S.L.B.&M. DUCHESNE COUNTY, UTAH.



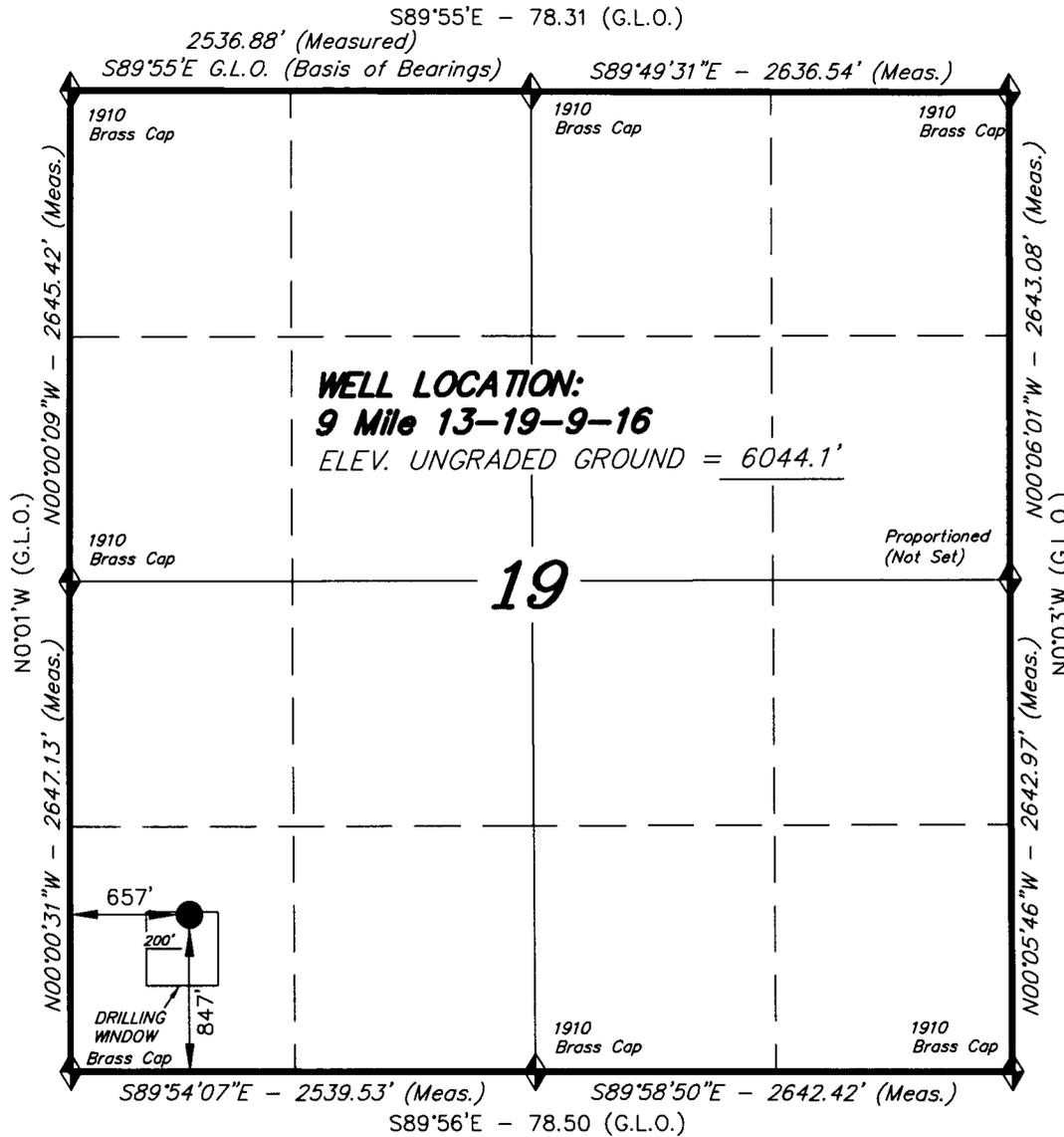
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS  
 PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
 MADE BY ME OR UNDER MY SUPERVISION AND THAT  
 THE SAME ARE TRUE AND CORRECT TO THE BEST OF  
 MY KNOWLEDGE AND BELIEF. No. 189377



### TRI STATE LAND SURVEYING & CONSULTING

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

DATE SURVEYED: 2-20-06	SURVEYED BY: C.M.
DATE DRAWN: 2-24-06	DRAWN BY: M.W.
REVISED:	SCALE: 1" = 1000'



◆ = SECTION CORNERS LOCATED

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

9 Mile 13-19-9-16  
 (Surface Location) NAD 83  
 LATITUDE = 40° 00' 41.35"  
 LONGITUDE = 110° 10' 07.66"

NEWFIELD PRODUCTION COMPANY  
FEDERAL #13-19-9-16  
SW/SW SECTION 19, 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' – 2145'
Green River	2145'
Wasatch	5740'

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

Green River Formation 2145' – 5740' - Oil

4. PROPOSED CASING PROGRAM

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

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

6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:

Please refer to the Monument Butte Field SOP.

7. AUXILIARY SAFETY EQUIPMENT TO BE USED:

Please refer to the Monument Butte Field SOP.

8. TESTING, LOGGING AND CORING PROGRAMS:

Please refer to the Monument Butte Field SOP.

9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

The anticipated maximum bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered.

10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

Please refer to the Monument Butte Field SOP.

NEWFIELD PRODUCTION COMPANY  
FEDERAL #13-19-9-16  
SW/SW SECTION 19, 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 #13-19-9-16 located in the SW 1/4 SW 1/4 Section 19, 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 - 13.1 miles  $\pm$  to the proposed well location.

2. PLANNED ACCESS ROAD

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

3. LOCATION OF EXISTING WELLS

Refer to Exhibit "B".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

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

5. LOCATION AND TYPE OF WATER SUPPLY

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

6. SOURCE OF CONSTRUCTION MATERIALS

Please refer to the Monument Butte Field SOP.

7. METHODS FOR HANDLING WASTE DISPOSAL

Please refer to the Monument Butte Field SOP.

8. ANCILLARY FACILITIES

Please refer to the Monument Butte Field SOP.

9. WELL SITE LAYOUT

See attached Location Layout Diagram.

10. PLANS FOR RESTORATION OF SURFACE

Please refer to the Monument Butte Field SOP.

11. SURFACE OWNERSHIP - Bureau Of Land Management

12. OTHER ADDITIONAL INFORMATION

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

For the Federal #13-19-9-16 there will be no proposed access road. The existing road will be used. **Refer to Topographic Map "B"**. The proposed access road will be an 18' crown road (9' either side of the centerline) with drainage ditches along either side of the proposed road whether it is deemed necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area. The maximum grade will be less than 8%. There will be no culverts required along this access road. There will be barrow ditches and turnouts as needed along this road. There are no fences encountered along this proposed road. There will be no new gates or cattle guards required. All construction material for this access road will be borrowed material accumulated during construction of the access road.

Newfield Production Company requests a small amount of disturbed area be granted in Lease UTU-74391 to allow for construction of the proposed gas lines. It is proposed that the disturbed area will be 50' wide to allow for construction of a 6" gas gathering line, and a 3" poly fuel gas line. Both lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

Newfield Production Company requests a small amount of disturbed area be granted in Lease UTU-74391 to allow for construction of the proposed water lines. It is proposed that the disturbed area will be 50' wide to allow for construction of a buried 3" steel water injection line and a buried 3" poly water return line. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

**Water Disposal**

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

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

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

None for this proposed location.

**Reserve Pit Liner**

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

**Location and Reserve Pit Reclamation**

Please refer to the Monument Butte Field SOP.

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

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

**Details of the On-Site Inspection**

The proposed Federal #13-19-9-16 was on-sited on 1/25/05. The following were present; Shon Mckinnon (Newfeild Production), Melissa Hawk (Bureau of Land Management), Chris Carusona (Bureau of Land Management), Todd MaGrath (Bureau of Land Management), Brandon McDonald (Bureau of Landmanagement), and Charlie Shard (SWCA). Weather conditions were clear and ground cover was 50% open.

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

Representative

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

Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #13-19-9-16 SW/SW Section 19, Township 9S, Range 16E: Lease UTU-74391 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4488944.

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

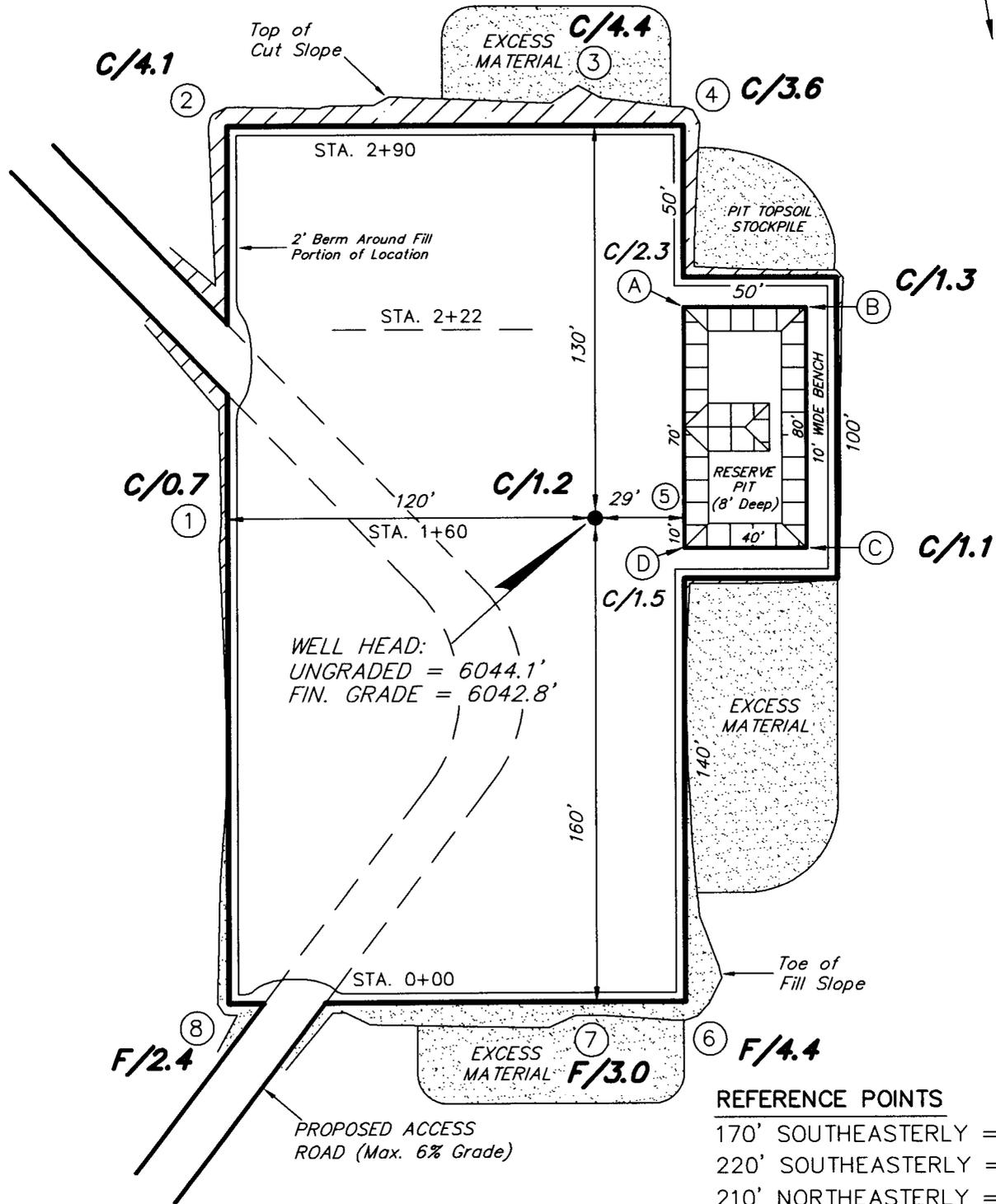
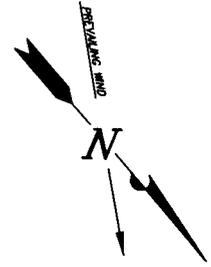
\_\_\_\_\_ 3/17/06  
 Date

  
 Mandie Crozier  
 Regulatory Specialist  
 Newfield Production Company

# NEWFIELD PRODUCTION COMPANY

9 MILE 13-19-9-16

Section 19, T9S, R16E, S.L.B.&M.



### REFERENCE POINTS

- 170' SOUTHEASTERLY = 6045.5'
- 220' SOUTHEASTERLY = 6045.4'
- 210' NORTHEASTERLY = 6036.1'
- 260' NORTHEASTERLY = 6034.2'

SURVEYED BY: C.M.

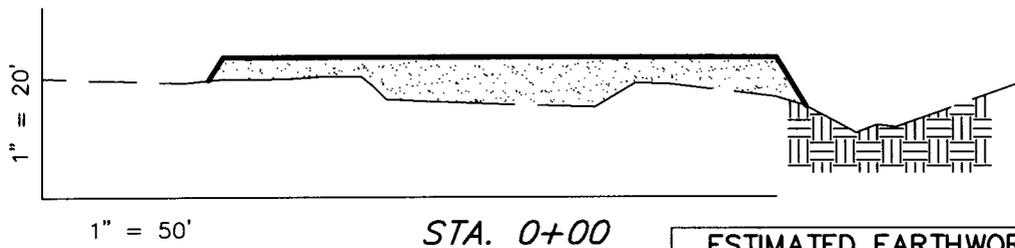
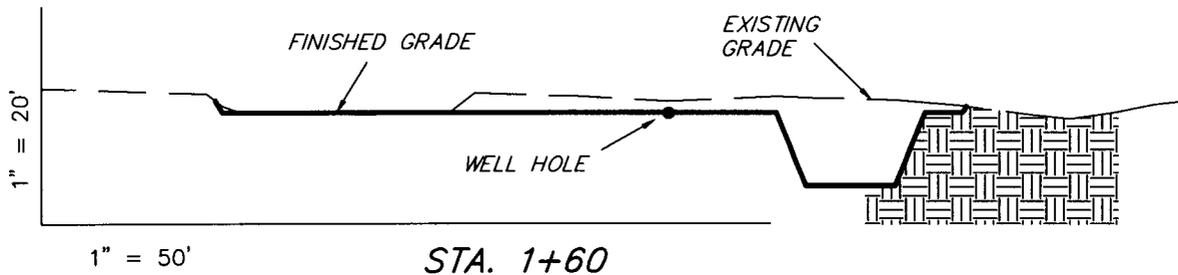
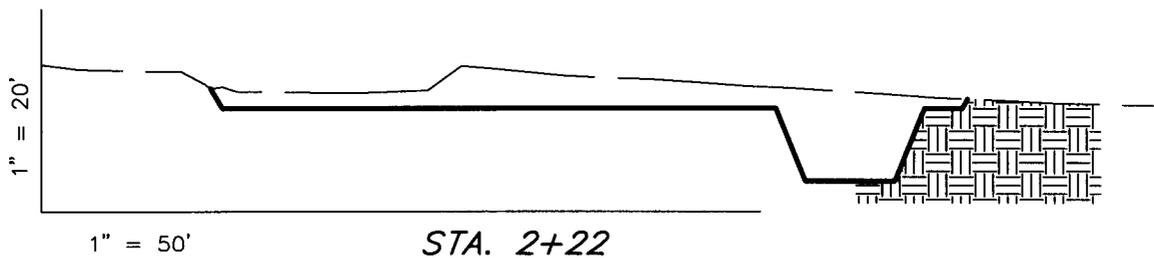
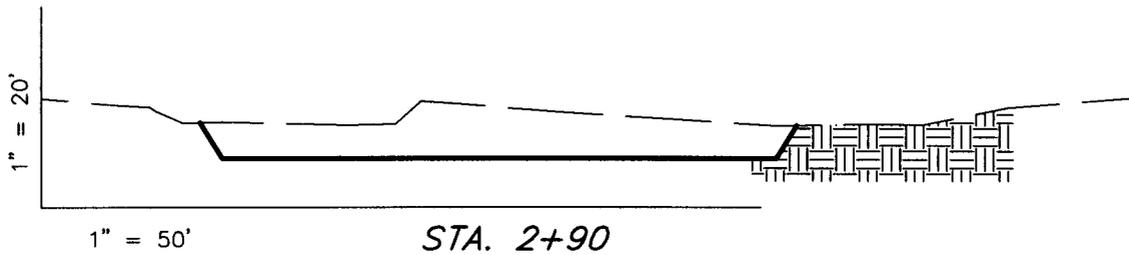
SCALE: 1" = 50'

DRAWN BY: M.W.

DATE: 2-24-06

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

**NEWFIELD PRODUCTION COMPANY**  
**CROSS SECTIONS**  
**9 MILE 13-19-9-16**



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	2,000	1,990	Topsoil is not included in Pad Cut	10
PIT	640	0		640
<b>TOTALS</b>	<b>2,640</b>	<b>1,990</b>	<b>970</b>	<b>650</b>

SURVEYED BY: C.M.

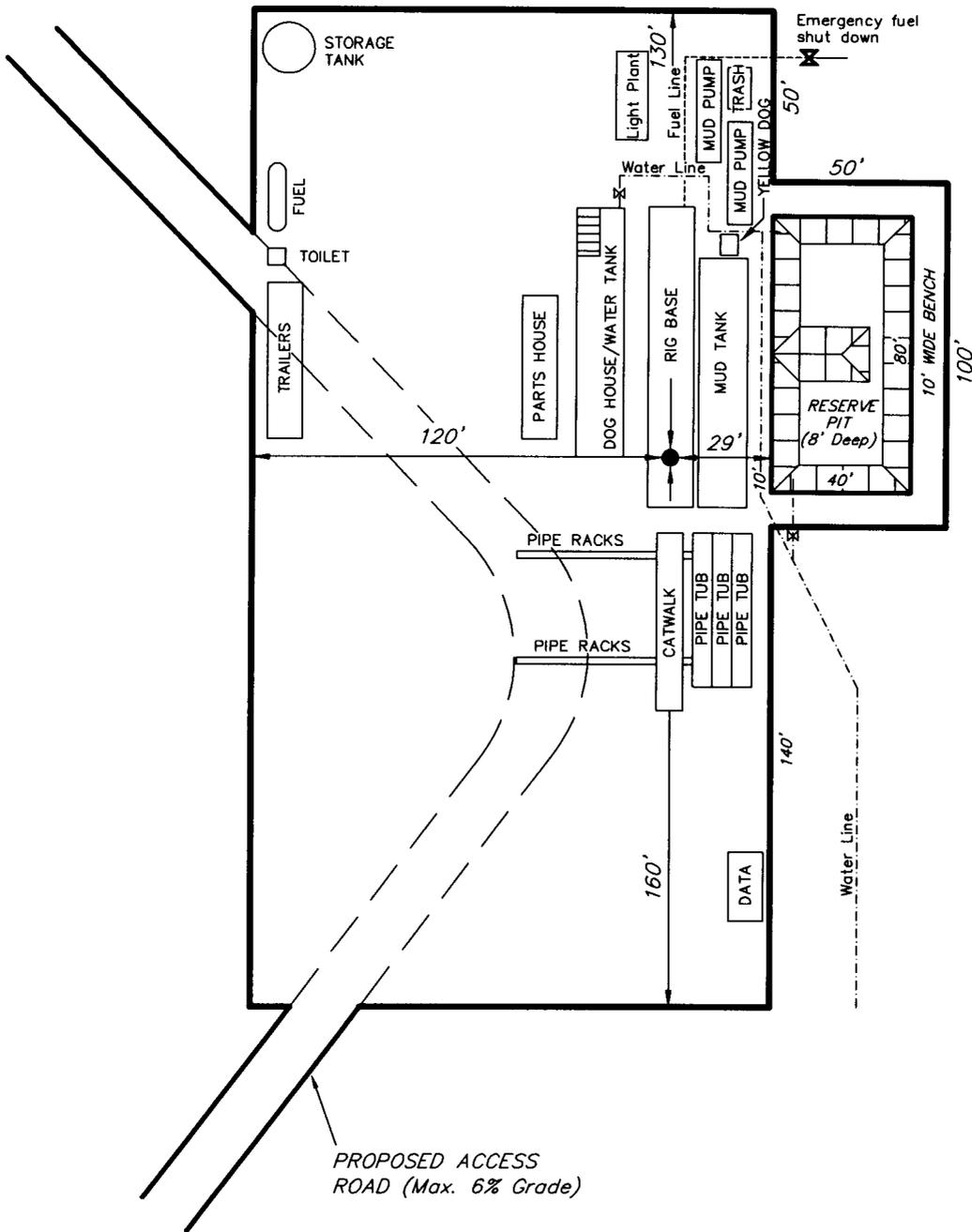
SCALE: 1" = 50'

DRAWN BY: M.W.

DATE: 2-24-06

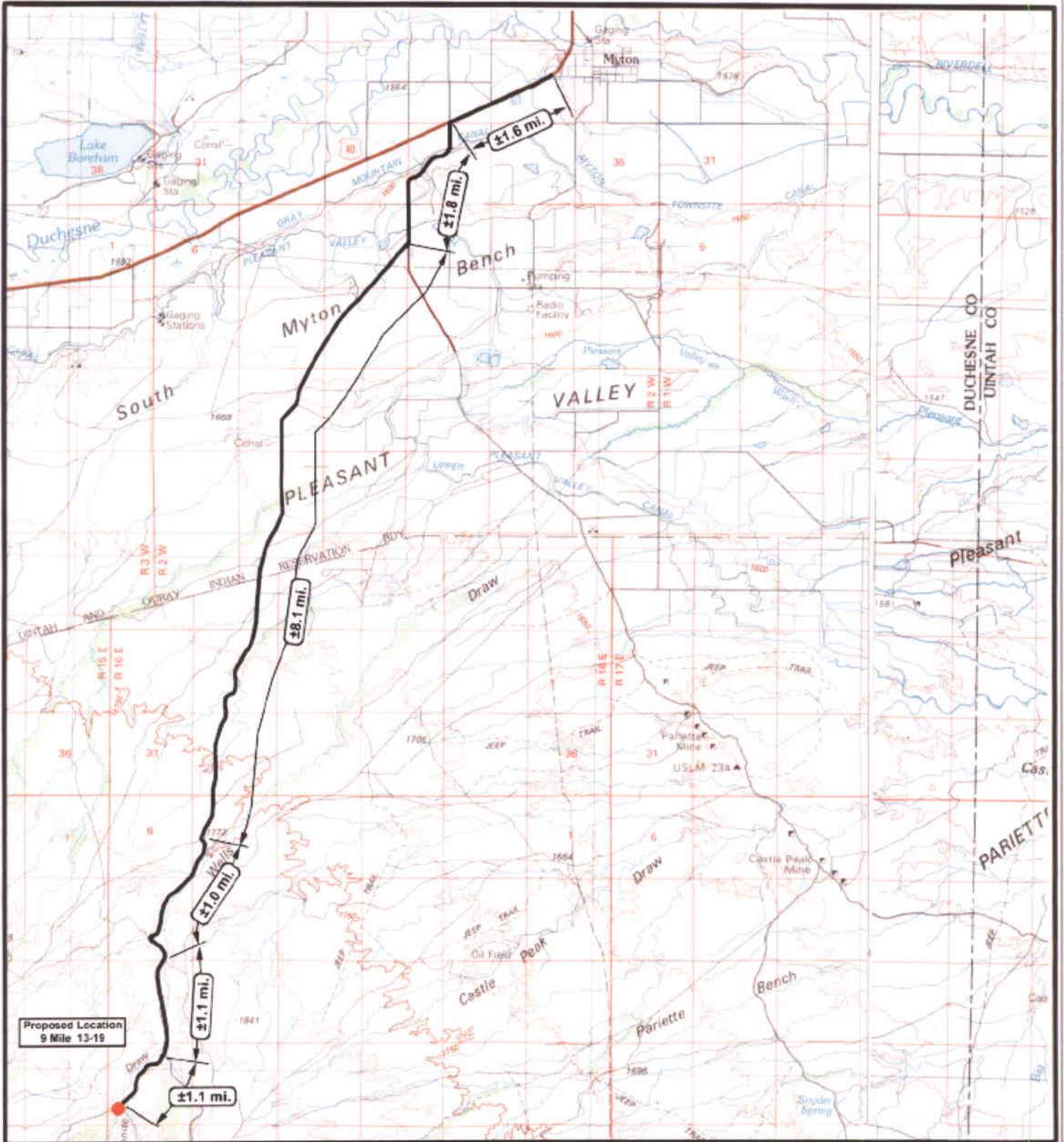
**Tri State** (435) 781-2501  
 Land Surveying, Inc.  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

**NEWFIELD PRODUCTION COMPANY**  
**TYPICAL RIG LAYOUT**  
**9 MILE 13-19-9-16**



PROPOSED ACCESS ROAD (Max. 6% Grade)

SURVEYED BY: C.M.	SCALE: 1" = 50'	 (435) 781-2501 180 NORTH VERNAL AVE. VERNAL, UTAH 84078
DRAWN BY: M.W.	DATE: 2-24-06	



Proposed Location  
9 Mile 13-19

**NEWFIELD**  
Exploration Company

**9 Mile 13-19-9-16**  
**SEC. 19, T9S, R16E, S.L.B.&M.**



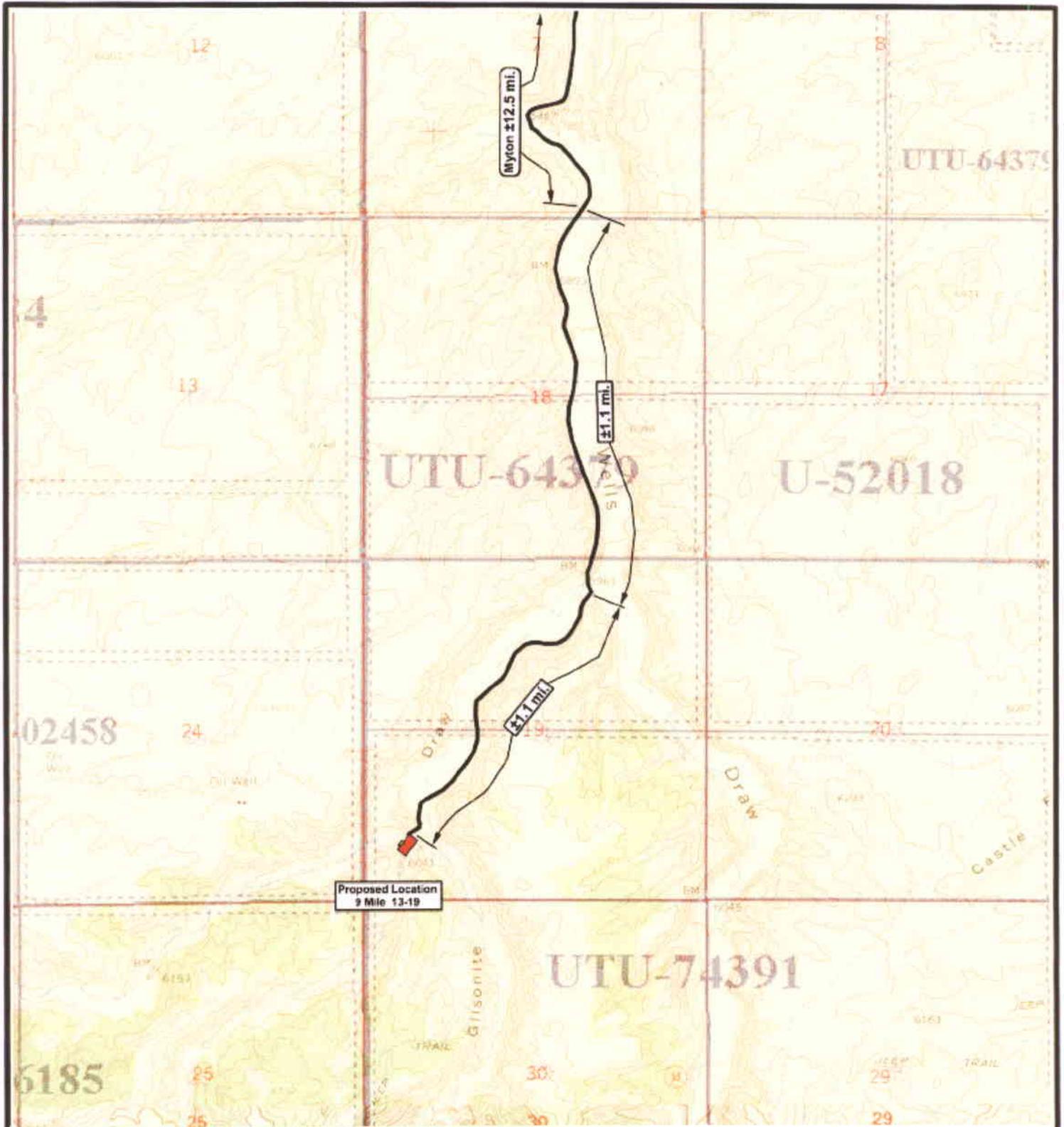
**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1 = 100,000  
DRAWN BY: mw  
DATE: 02-27-2006

**Legend**

Existing Road

TOPOGRAPHIC MAP  
**"A"**



Proposed Location  
9 Mile 13-19

Myton ±12.5 mi.

±1.1 mi.

±1.1 mi.



**NEWFIELD**  
Exploration Company

**9 Mile 13-19-9-16**  
**SEC. 19, T9S, R16E, S.L.B.&M.**

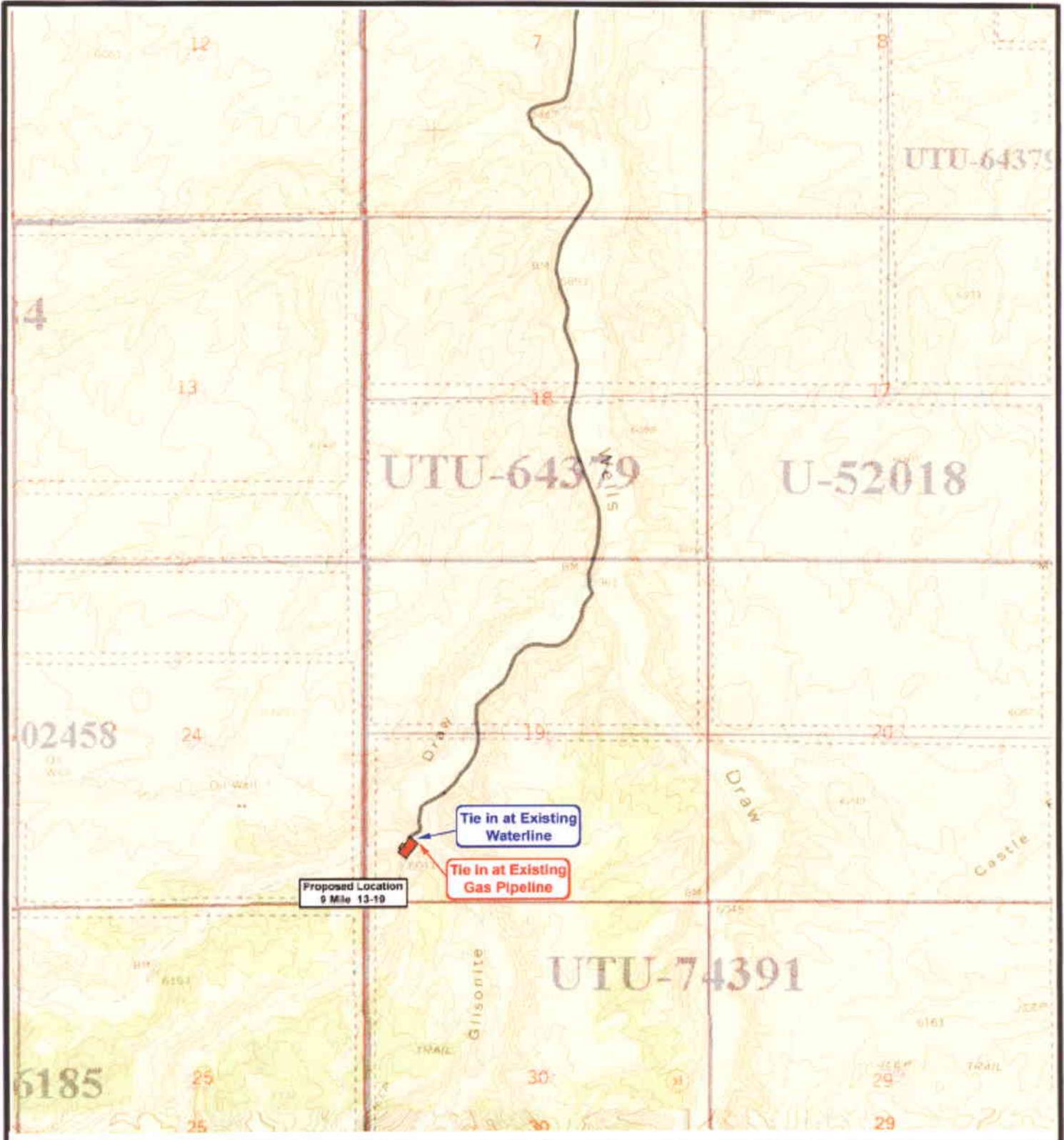


*Tri-State*  
*Land Surveying Inc.*  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2000'  
DRAWN BY: mw  
DATE: 02-27-2006

Legend	
	Existing Road
	Proposed Access

TOPOGRAPHIC MAP  
**"B"**



 **NEWFIELD**  
Exploration Company

**9 Mile 13-19-9-16**  
**SEC. 19, T9S, R16E, S.L.B.&M.**



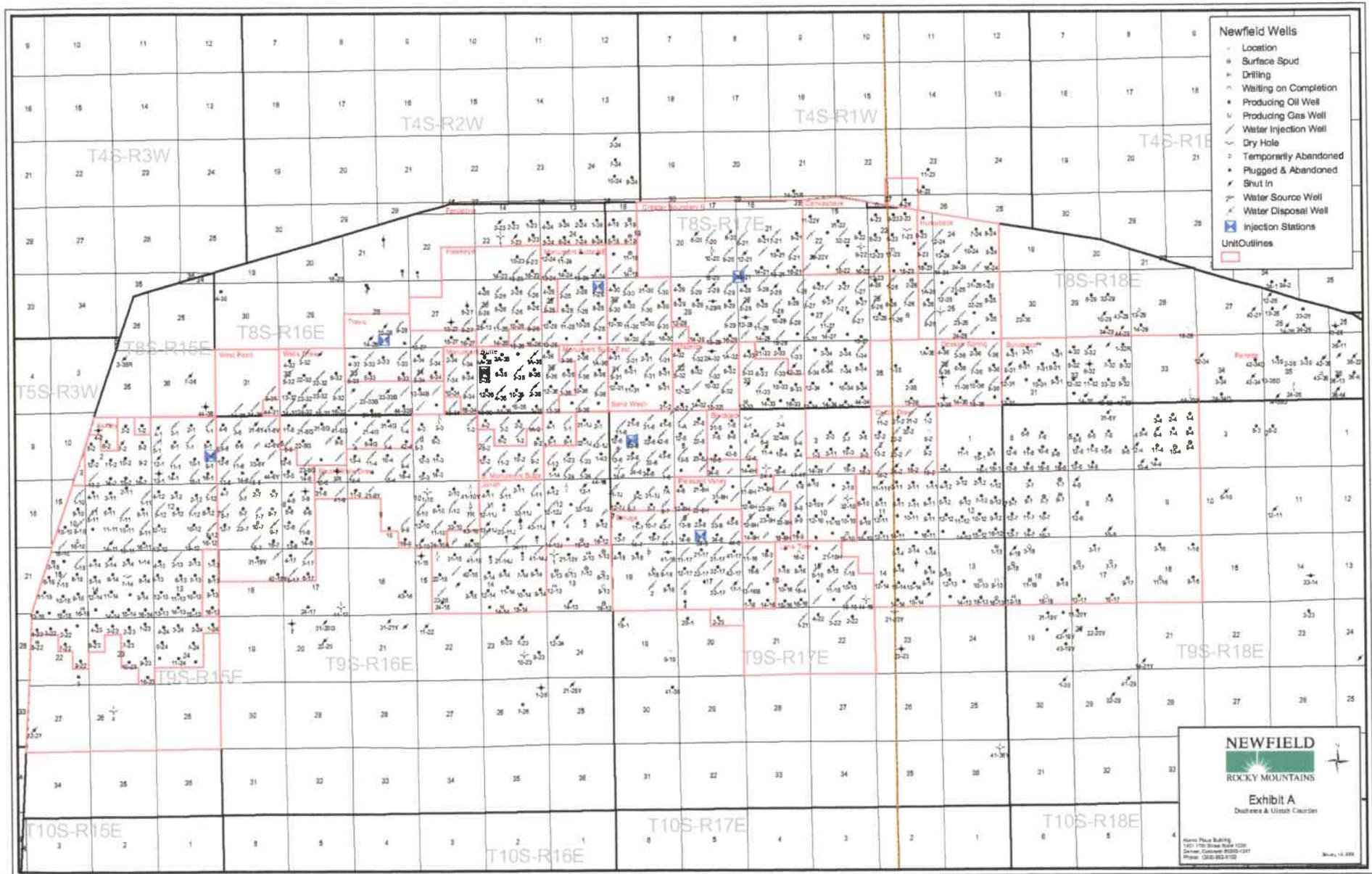
  
**Tri-State**  
Land Surveying Inc.  
(435) 781-2601  
180 North Vernal Ave. Vernal, Utah 84078

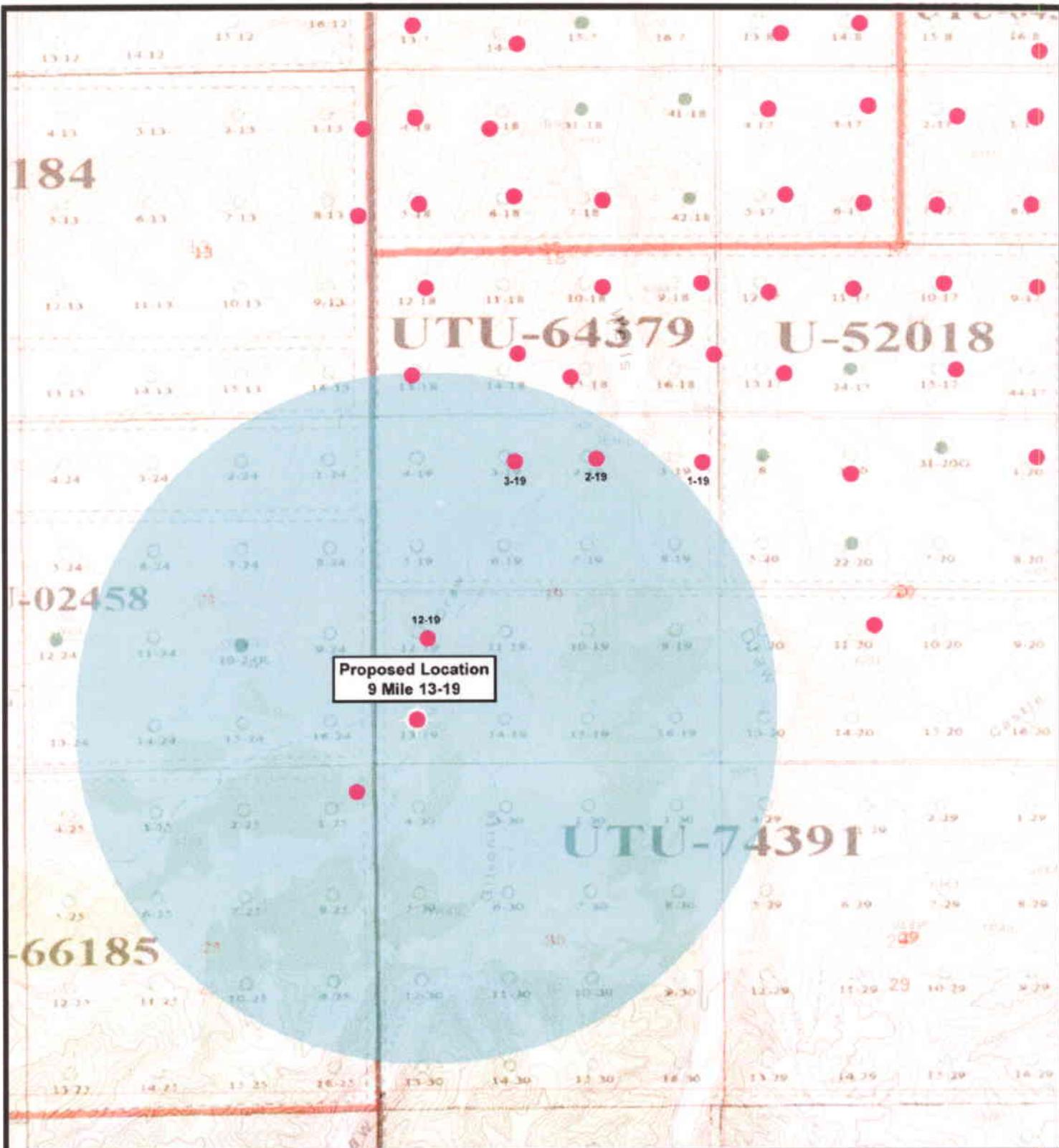
SCALE: 1" = 2000'  
DRAWN BY: mw  
DATE: 02-27-2006

**Legend**

-  Roads
-  Proposed Gas Line
-  Proposed Water Line

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





Proposed Location  
9 Mile 13-19

**NEWFIELD**  
Exploration Company

**9 Mile 13-19-9-16**  
**SEC. 19, T9S, R16E, S.L.B.&M.**



**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
160 North Vernal Ave. Vernal, Utah 84076

SCALE: 1" = 2,000'  
DRAWN BY: mw  
DATE: 02-27-2006

**Legend**

- Well Locations
- One-Mile Radius

**Exhibit "B"**

# 2-M SYSTEM

Blowout Prevention Equipment Systems

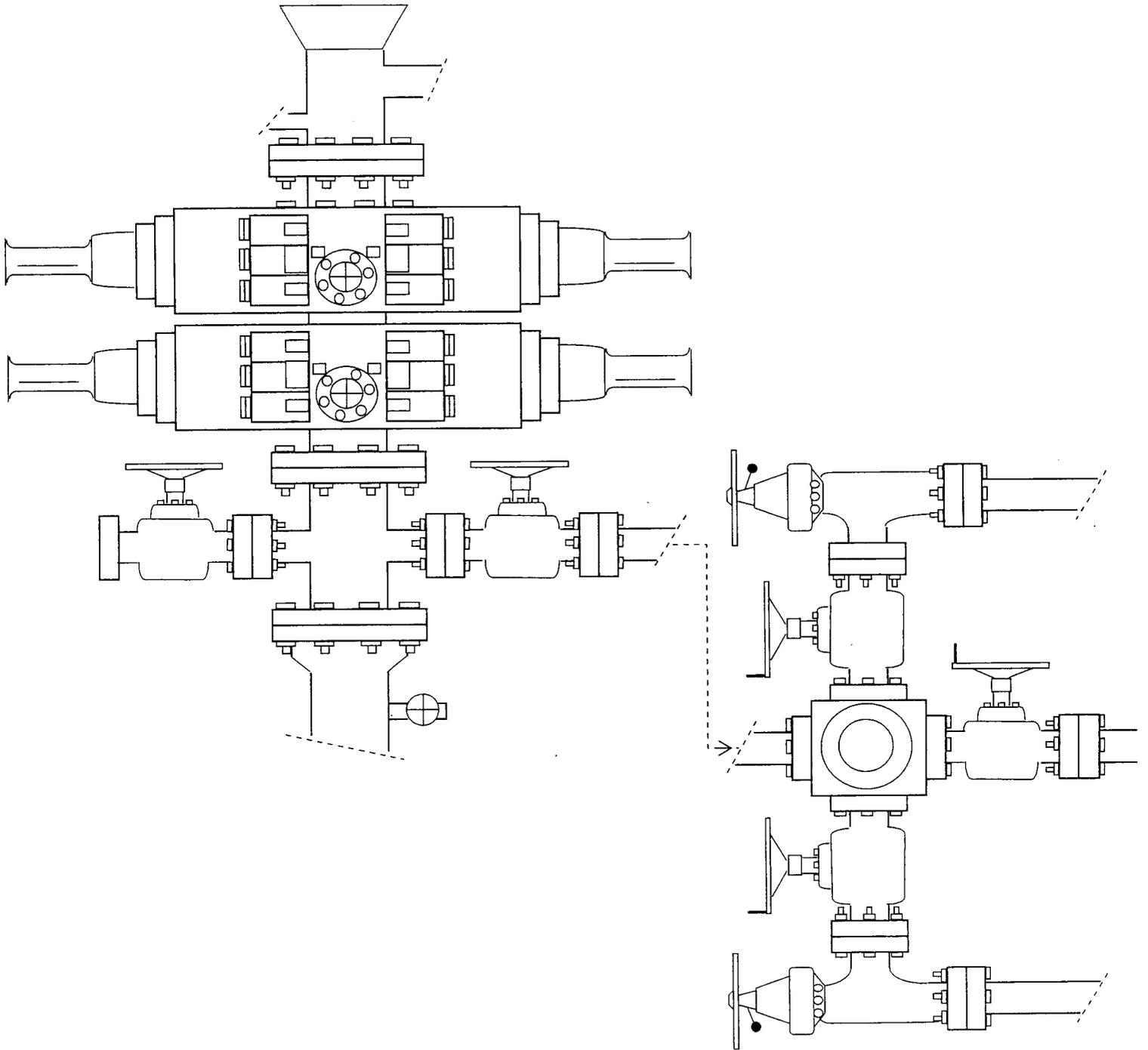


EXHIBIT C

Exhibit "D"  
page 1 of 2

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

By:

Shari Maria Silverman

Prepared For:

Bureau fo Land Management  
Vernal Field Office

Prepared Under Contract With:

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

Prepared By:

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

MOAC Report No. 05-225

July 13, 2005

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

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

**NEWFIELD PRODUCTION COMPANY**

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

Section 8, T 9 S, R 16 E [SW 1/4 & SE 1/4, NE 1/4; and SE 1/4]; Section 17, T 9 S, R 16 E [NE 1/4; NE 1/4, NW 1/4 & SW 1/4, SE 1/4; NE 1/4, NW 1/4, & SW 1/4, SW 1/4]; Section 19, T 9 S, R 16 E [entire section]; Section 20, T 9 S, R 16 E [excluding NW 1/4, NE 1/4; and NW 1/4 & SE 1/4, NW 1/4]; Section 21, T 9 S, R 16 E [excluding NE 1/4 & NW 1/4, NE 1/4]

**REPORT OF SURVEY**

Prepared for:

**Newfield Production Company**

Prepared by:

Wade E. Miller  
Consulting Paleontologist  
November 10, 2005

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 03/21/2006

API NO. ASSIGNED: 43-013-33103

WELL NAME: FEDERAL 13-19-9-16  
 OPERATOR: NEWFIELD PRODUCTION ( N2695 )  
 CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

SWSW 19 090S 160E  
 SURFACE: 0847 FSL 0657 FWL  
 BOTTOM: 0847 FSL 0657 FWL  
 COUNTY: DUCHESNE  
 LATITUDE: 40.01159 LONGITUDE: -110.1681  
 UTM SURF EASTINGS: 571003 NORTHINGS: 4429165  
 FIELD NAME: MONUMENT BUTTE ( 105 )

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

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

PROPOSED FORMATION: GRRV  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

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

LOCATION AND SITING:

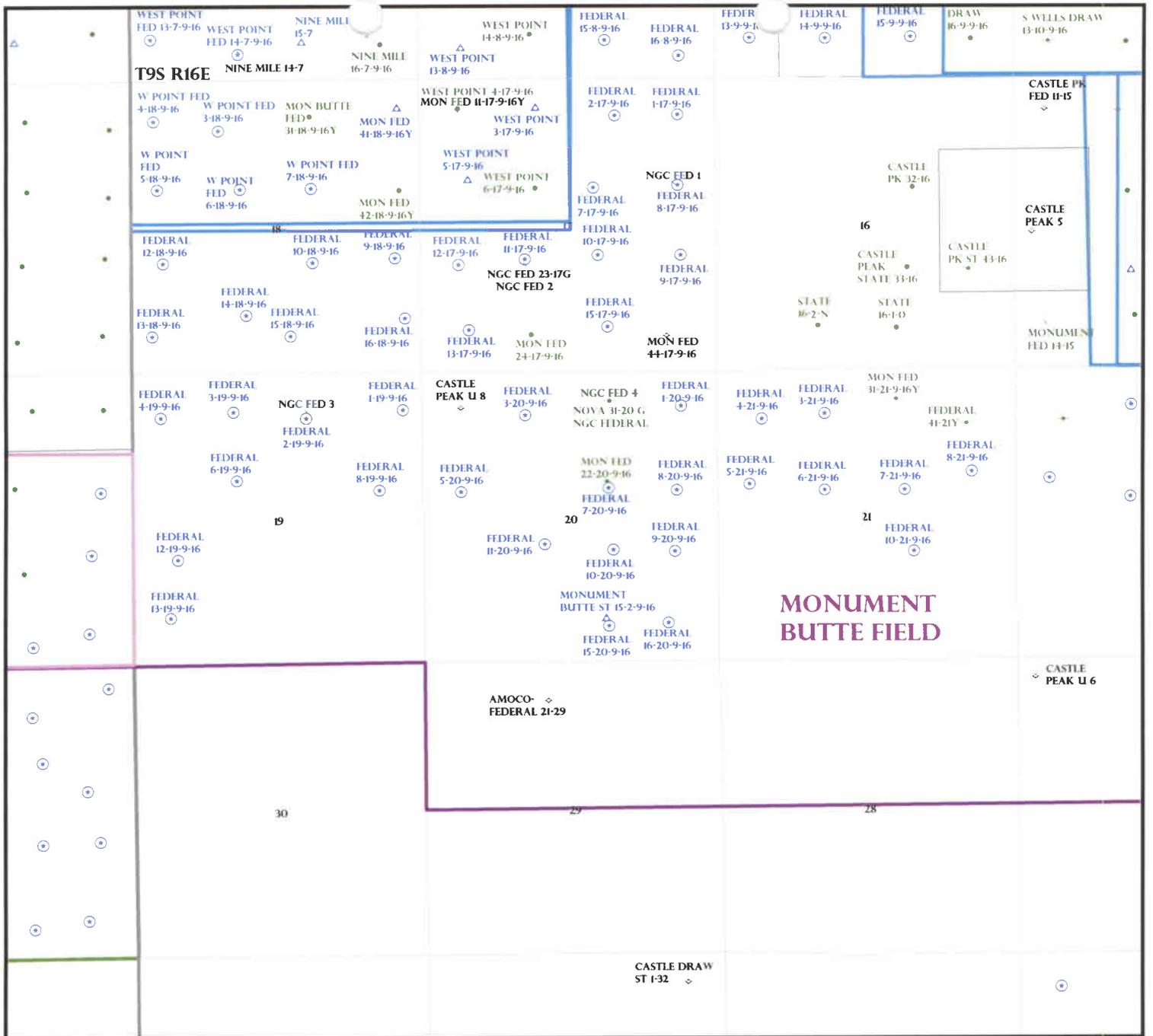
- \_\_\_ R649-2-3.
- Unit: \_\_\_\_\_
- R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- \_\_\_ R649-3-3. Exception
- \_\_\_ Drilling Unit  
Board Cause No: \_\_\_\_\_  
Eff Date: \_\_\_\_\_  
Siting: \_\_\_\_\_
- \_\_\_ R649-3-11. Directional Drill

COMMENTS:

Sup. Separate file

STIPULATIONS:

1- Fed. Approval  
2- Spacing Stip



OPERATOR: NEWFIELD PROD CO (N2695)

SEC: 19,20,21 T. 9S R. 16E

FIELD: MONUMENT BUTTE (105)

COUNTY: DUCHESNE

SPACING: R649-3-2 / GENERAL SITING

- Field Status**
- ABANDONED
  - ACTIVE
  - COMBINED
  - INACTIVE
  - PROPOSED
  - STORAGE
  - TERMINATED

- Unit Status**
- EXPLORATORY
  - GAS STORAGE
  - NF PP OIL
  - NF SECONDARY
  - PENDING
  - PI OIL
  - PP GAS
  - PP GEOTHERML
  - PP OIL
  - SECONDARY
  - TERMINATED

- Wells Status**
- ✂ GAS INJECTION
  - ⊗ GAS STORAGE
  - ⊗ LOCATION ABANDONED
  - ⊗ NEW LOCATION
  - ⊗ PLUGGED & ABANDONED
  - ⊗ PRODUCING GAS
  - ⊗ PRODUCING OIL
  - ⊗ SHUT-IN GAS
  - ⊗ SHUT-IN OIL
  - ⊗ TEMP. ABANDONED
  - ⊗ TEST WELL
  - ⊗ WATER INJECTION
  - ⊗ WATER SUPPLY
  - ⊗ WATER DISPOSAL
  - ⊗ DRILLING



PREPARED BY: DIANA WHITNEY  
DATE: 24-MARCH-2006



**State of Utah**

**Department of  
Natural Resources**

MICHAEL R. STYLER  
*Executive Director*

**Division of  
Oil, Gas & Mining**

JOHN R. BAZA  
*Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

March 27, 2006

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

Re: Federal 13-19-9-16 Well, 847' FSL, 657' FWL, SW SW, Sec. 19, T. 9 South,  
R. 16 East, Duchesne County, Utah

Gentlemen:

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

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-33103.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

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

Operator: Newfield Production Company

Well Name & Number Federal 13-19-9-16

API Number: 43-013-33103

Lease: UTU-74391

Location: SW SW                      Sec. 19                      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-74391**

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

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

8. Well Name and No.  
**FEDERAL 13-19-9-16**

9. API Well No.  
**43-013-33103**

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)  
**847 FSL 657 FWL SW/SW Section 19, T9S R16E**

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent <input type="checkbox"/> Subsequent Report <input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input checked="" type="checkbox"/> Other <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 3/27/06 (expiration 3/27/07).

This APD has not yet been approved by the BLM.

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 03-12-07  
By: [Signature]

3-12-07  
RM

RECEIVED  
MAR 09 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:** 43-013-33103  
**Well Name:** Federal 13-19-9-16  
**Location:** SW/SW Section 19,T9S R16E  
**Company Permit Issued to:** Newfield Production Company  
**Date Original Permit Issued:** 3/27/2006

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

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

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

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

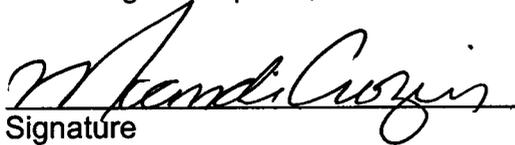
Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes  No

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

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

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

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

  
Signature

3/5/2007

Date

Title: Regulatory Specialist

Representing: Newfield Production Company

RECEIVED

MAR 09 2007

DIV. OF OIL, GAS & MINING

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-74391**

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

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

8. Well Name and No.  
**FEDERAL 13-19-9-16**

9. API Well No.  
**43-013-33103**

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)  
**847 FSL 657 FWL SW/SW Section 19, 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"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <b>Permit Extension</b>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

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

Newfield Production Company requests to extend the Permit to Drill this well for one year. The original approval date was 3/27/06 (~~expiration 3/8/08~~).

This APD has not been approved yet by the BLM.

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 03-03-08  
By: [Signature]

COPY SENT TO OPERATOR  
Date: 3-4-2008  
Initials: KS

14. I hereby certify that the foregoing is true and correct  
Signed [Signature] Title Regulatory Specialist Date 2/26/2008  
**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

**RECEIVED**  
**FEB 29 2008**

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

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

**API:** 43-013-33103  
**Well Name:** Federal 13-19-9-16  
**Location:** SW/SW Section 19, T9S R16E  
**Company Permit Issued to:** Newfield Production Company  
**Date Original Permit Issued:** 3/27/2006

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

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

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

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

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

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

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

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

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

  
Signature

2/28/2008

Date

**Title:** Regulatory Specialist

**Representing:** Newfield Production Company

**RECEIVED**

**FEB 29 2008**

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

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-74391**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**NA**

8. Well Name and No.

**FEDERAL 13-19-9-16**

9. API Well No.

**43-013-33103**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UT.**

**SUBMIT IN TRIPLICATE**

1. Type of Well

<input checked="" type="checkbox"/> Oil Well	<input type="checkbox"/> Gas Well	<input type="checkbox"/> 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)

**847 FSL 657 FWL SW/SW Section 19, T9S R16E**

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

**TYPE OF SUBMISSION**

Notice of Intent

Subsequent Report

Final Abandonment Notice

**TYPE OF ACTION**

<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
<input checked="" type="checkbox"/> Other <b>Permit Extension</b>	<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.

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 03-11-09  
By: [Signature]

COPY SENT TO OPERATOR

Date: 3-18-2009

Initials: KS

RECEIVED  
MAR 09 2009  
DIV. OF OIL, GAS & MINING

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

Signed Mandie Crozier Title Regulatory Specialist Date 3/3/2009  
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:** 43-013-33103  
**Well Name:** Federal 13-19-9-16  
**Location:** SW/SW Section 19,T9S R16E  
**Company Permit Issued to:** Newfield Production Company  
**Date Original Permit Issued:** 3/27/2006

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

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

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

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

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

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

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

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

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

  
Signature

Title: Regulatory Specialist

Representing: Newfield Production Company

3/3/2009

Date

RECEIVED

MAR 09 2009

DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**APPLICATION FOR PERMIT TO DRILL OR REENTER**

FORM APPROVED  
OMB No. 1004-0137  
Expires July 31, 2010

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-74391
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 NA
2. Name of Operator Newfield Production Company		7. If Unit or CA Agreement, Name and No. NA
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 13-19-9-16
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface SW/SW (Lot #4) 588' FSL 758' FWL 571034X 40.010880 At proposed prod. zone 4429086Y -110.167717		9. API Well No. 43-013-33103
14. Distance in miles and direction from nearest town or post office* Approximately 14.2 miles southwest of Myton, UT		10. Field and Pool, or Exploratory Monument Butte
15. Distance from proposed* location to nearest property or lease line, ft. Approx. 758' f/lse, NA' f/unit (Also to nearest drig. unit line, if any)	16. No. of acres in lease 2139.50	11. Sec., T. R. M. or Blk. and Survey or Area Sec. 19, T9S R16E
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1348'	19. Proposed Depth 5,740'	12. County or Parish Duchesne
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6054' GL	22. Approximate date work will start* 2nd Oct. 2009	13. State UT
20. BLM/BIA Bond No. on file WYB000493		
23. Estimated duration (7) days from SPUD to rig release		

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. I, must 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 must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM.             |

25. Signature <i>Mandie Crozier</i>	Name (Printed/Typed) Mandie Crozier	Date 5/18/09
Title Regulatory Specialist		

Approved by (Signature)	Name (Printed/Typed)	Date
	Office	

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

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.

(Continued on page 2) **COPY SENT TO OPERATOR**

\*(Instructions on page 2)

Date: 6-3-2009  
Initials: KS

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

**RECEIVED  
MAY 19 2009**

**Federal Approval of this  
Action is Necessary**

Date: 05-19-09  
By: [Signature]

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

NEWFIELD PRODUCTION COMPANY  
FEDERAL #13-19-9-16  
SW/SW SECTION 19, 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' – 2145'
Green River	2145'
Wasatch	5740'

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

Green River Formation 2145' – 5740' - Oil

4. PROPOSED CASING PROGRAM

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

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

6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:

Please refer to the Monument Butte Field SOP.

7. AUXILIARY SAFETY EQUIPMENT TO BE USED:

Please refer to the Monument Butte Field SOP.

8. TESTING, LOGGING AND CORING PROGRAMS:

Please refer to the Monument Butte Field SOP.

9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

The anticipated maximum bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered.

10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

Please refer to the Monument Butte Field SOP.

**NEWFIELD PRODUCTION COMPANY  
FEDERAL 13-19-9-16  
SW/SW (LOT #4) SECTION 19, 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 13-19-9-16 located in the SW 1/4 SW 1/4 Section 19, T9S, R16E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles ± to the junction of this highway and UT State Hwy 53; proceed southwesterly - 11.8 miles ± to it's junction with an existing road to the southwest; proceed southwesterly - 0.9 miles ± to it's junction with the beginning of the proposed access road; proceed along the proposed access road 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**

Newfield Production will transport water by truck for drilling purposes from the following water sources:

Johnson Water District  
Water Right : 43-7478

Neil Moon Pond  
Water Right: 43-11787

Maurice Harvey Pond  
Water Right: 47-1358

Newfield Collector Well  
Water Right: 41-3530 (A30414DV, contracted with the Duchesne County Conservancy District).

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 (Proposed location and access roads leading to).

12. **OTHER ADDITIONAL INFORMATION**

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #05-255, 7/13/05. Paleontological Resource Survey prepared by, Wade E. Miller, 11/10/05. See attached report cover pages, Exhibit "D"

Newfield Production Company requests 140' of disturbed area be granted in Lease UTU-74391 to allow for construction of the proposed surface gas lines. It is proposed that the disturbed area will temporarily be 50' wide to allow for construction of a 10" or smaller gas gathering line, and a 3" poly fuel gas line, with a permanent width of 30' upon completion of the proposed gas lines. The construction phase of the proposed gas lines will last approximately (5) days. Both lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

Newfield Production Company requests 140' of disturbed area be granted in Lease UTU-74391 to allow for construction of the proposed water lines. It is proposed that the disturbed area will temporarily be 50' wide to allow for construction of a buried 3" steel water injection line and a buried 3" poly water return line, with a permanent width of 30' upon completion of the proposed water return line. The construction phase of the proposed water lines will last approximately (5) days. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP. In the event that the proposed well is converted to a water injection well, a separate injection permit will be applied for through the proper agencies.

**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), State of Utah approved surface disposal facilities, or Federally approved surface disposal facilities.

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

None for the proposed Federal 13-19-9-16..

**Reserve Pit Liner**

A 16 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)

Squirrell Tail	<i>Elymus Elymoides</i>	6 lbs/acre
Siberian Wheatgrass	<i>Agropyron Fragile</i>	2 lbs/acre
Gardner Saltbush	<i>Atriplex Gardneri</i>	1 lbs/acre
Shadscale	<i>Atriplex Confertifolia</i>	1 lbs/acre
Fourwing Saltbush	<i>Atriplex Canescens</i>	1 lbs/acre
Scarlet Globemallow	<i>Sphaeralcea Conccinea</i>	0.20 lbs/acre
Forage Kochia	<i>Kochia Prostrata</i>	0.20 lbs/acre

**Details of the On-Site Inspection**

The proposed Federal 13-19-9-16 was on-sited by James Herford, no Newfield personnel was present during the time of the on-site.

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

Representative

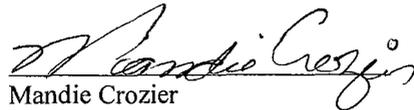
Name: Dave Allred  
 Address: Route #3 Box 3630  
 Myton, UT 84052  
 Telephone: (435) 646-3721

Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #13-19-9-16 SW/SW Section 19, Township 9S, Range 16E: Lease UTU-74391 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Federal Bond #WYB000493.

I hereby certify that the proposed drill site 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.

\_\_\_\_\_ 5/18/09  
 Date

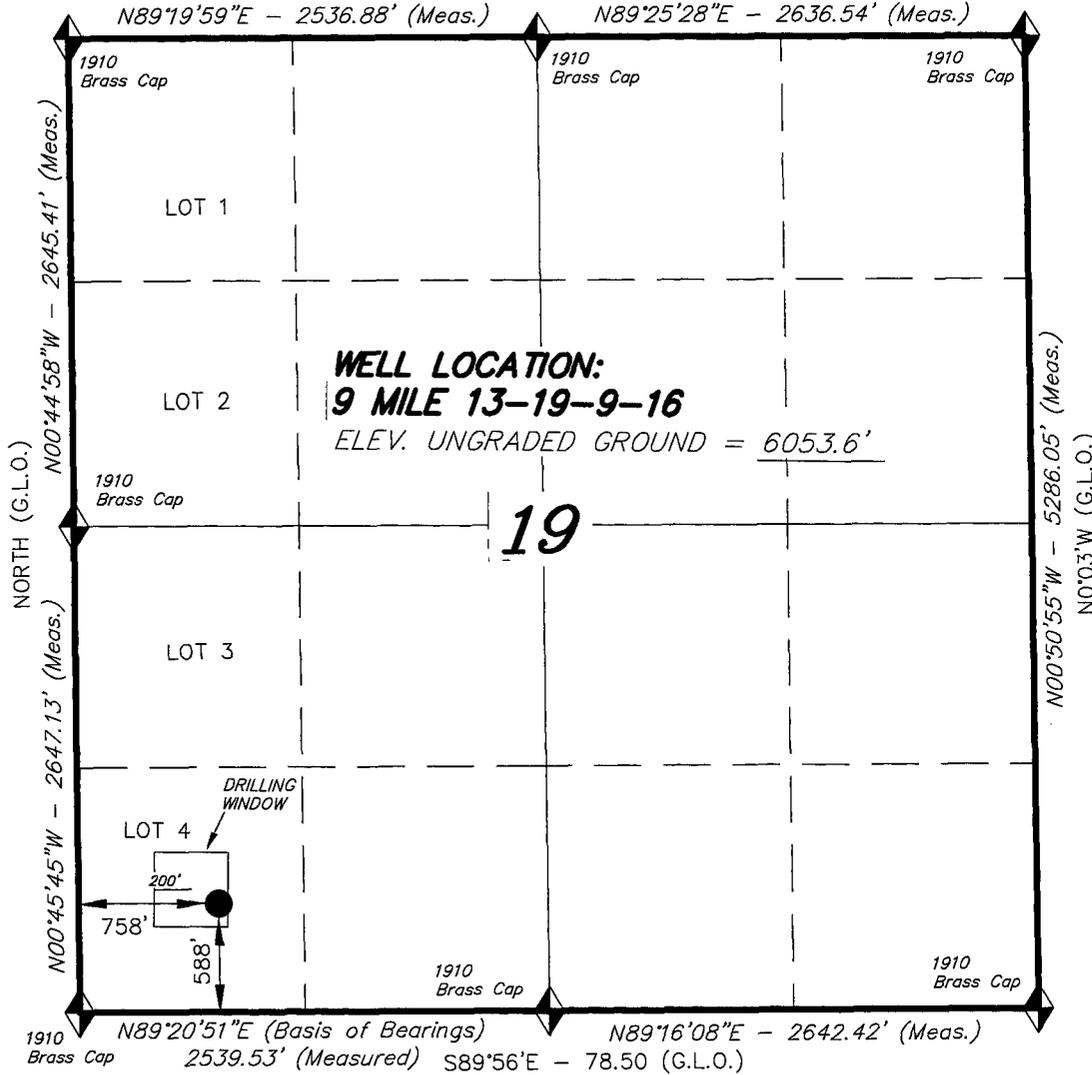
  
 Mandie Crozier  
 Regulatory Specialist  
 Newfield Production Company

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

S89°55'E - 78.31 (G.L.O.)

N89°19'59"E - 2536.88' (Meas.)

N89°25'28"E - 2636.54' (Meas.)



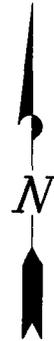
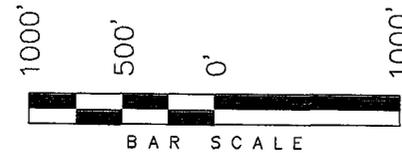
**WELL LOCATION:  
9 MILE 13-19-9-16**

ELEV. UNGRADED GROUND = 6053.6'

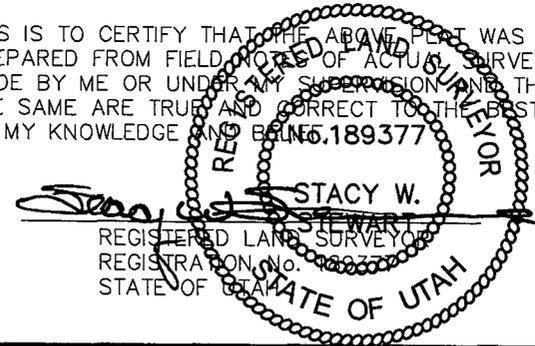
**19**

## NEWFIELD PRODUCTION COMPANY

WELL LOCATION, 9 MILE 13-19-9-16,  
LOCATED AS SHOWN IN THE SW 1/4 SW  
1/4 (LOT 4) OF SECTION 19, 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. 189377



◆ = SECTION CORNERS LOCATED

BASIS OF ELEV; Elevations are base on  
LOCATION: an N.G.S. OPUS Correction.  
LAT. 40°04'09.56" LONG. 110°00'43.28"  
(Tristate Aluminum Cap) Elev. 5281.57'

**9 MILE 13-19-9-16**  
**(Surface Location) NAD 83**  
LATITUDE = 40° 00' 38.77"  
LONGITUDE = 110° 10' 06.27"

### TRI STATE LAND SURVEYING & CONSULTING

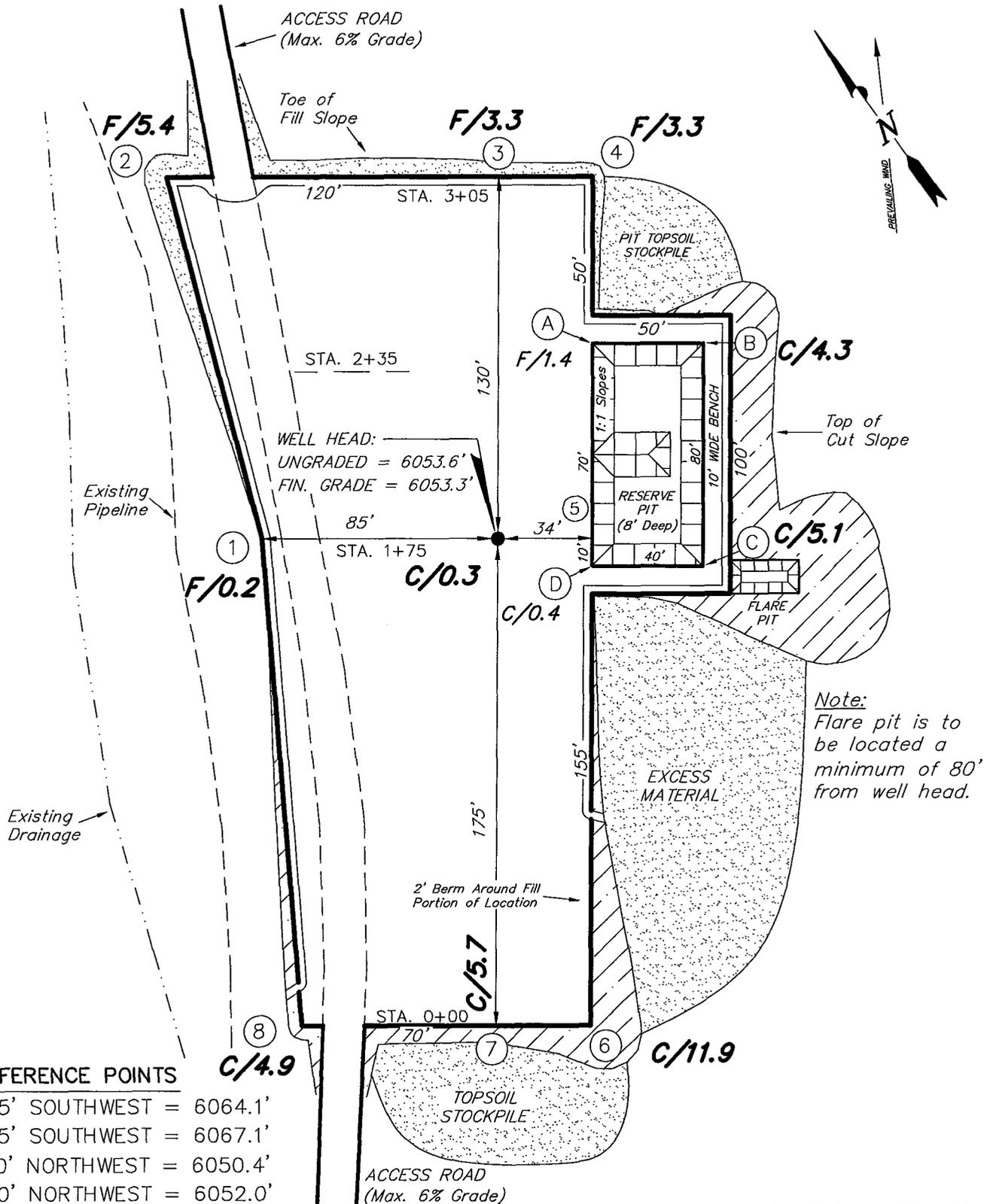
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

DATE SURVEYED: 04-20-09	SURVEYED BY: C.M.
DATE DRAWN: 04-21-09	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

# NEWFIELD PRODUCTION COMPANY

9 MILE 13-19-9-16

Section 19, T9S, R16E, S.L.B.&M.



*Note:*  
Flare pit is to be located a minimum of 80' from well head.

**REFERENCE POINTS**

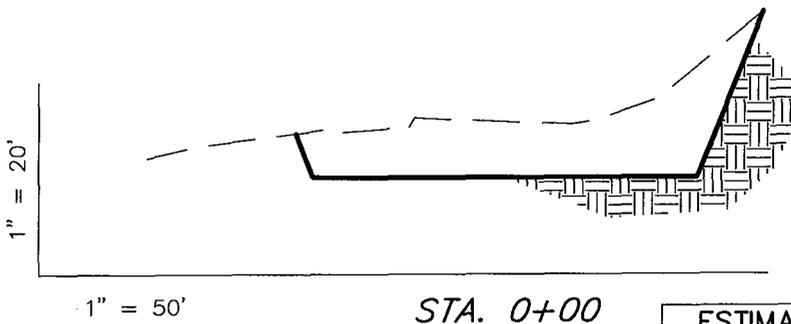
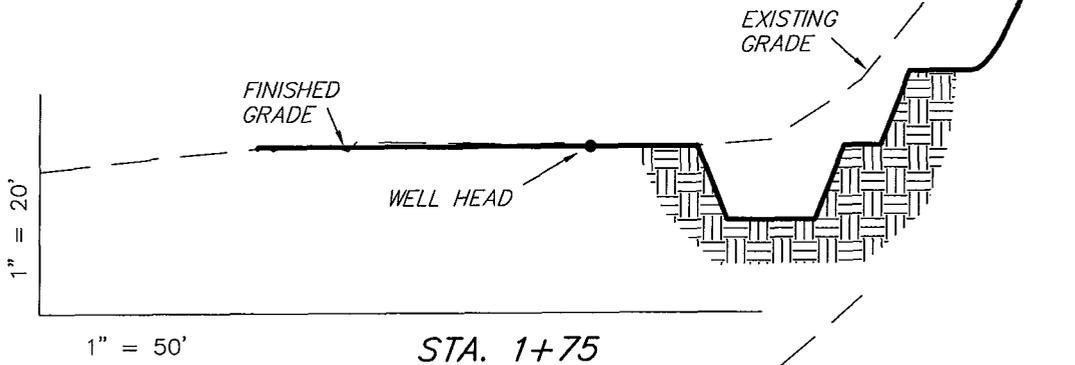
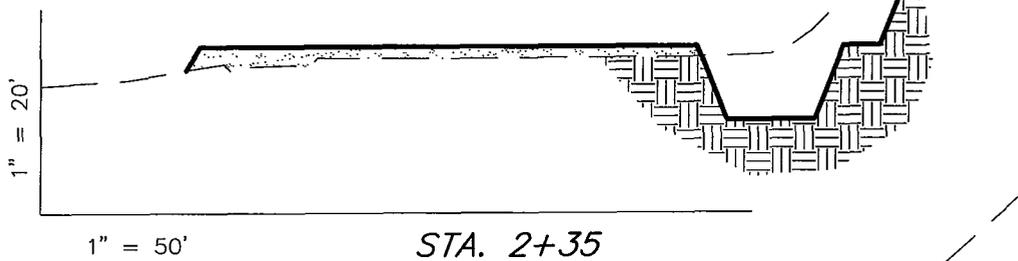
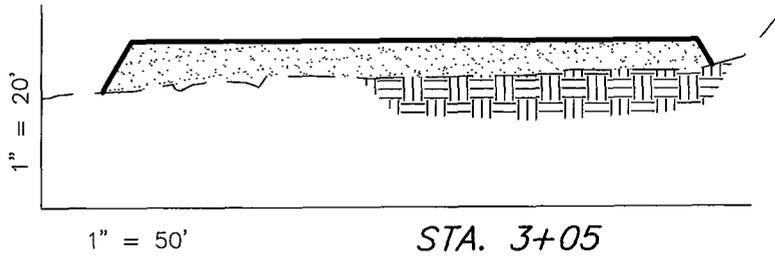
- 225' SOUTHWEST = 6064.1'
- 275' SOUTHWEST = 6067.1'
- 150' NORTHWEST = 6050.4'
- 200' NORTHWEST = 6052.0'

SURVEYED BY: C.M.	DATE SURVEYED: 04-20-09
DRAWN BY: F.T.M.	DATE DRAWN: 04-21-09
SCALE: 1" = 50'	REVISED:

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

# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS 9 MILE 13-19-9-16



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

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	2,570	2,570	Topsoil is not included in Pad Cut	0
PIT	640	0		640
<b>TOTALS</b>	<b>3,210</b>	<b>2,570</b>	<b>950</b>	<b>640</b>

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

SURVEYED BY: C.M.	DATE SURVEYED: 04-20-09
DRAWN BY: F.T.M.	DATE DRAWN: 04-21-09
SCALE: 1" = 50'	REVISED:

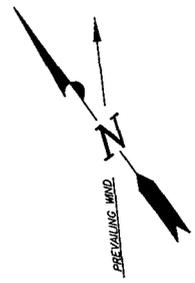
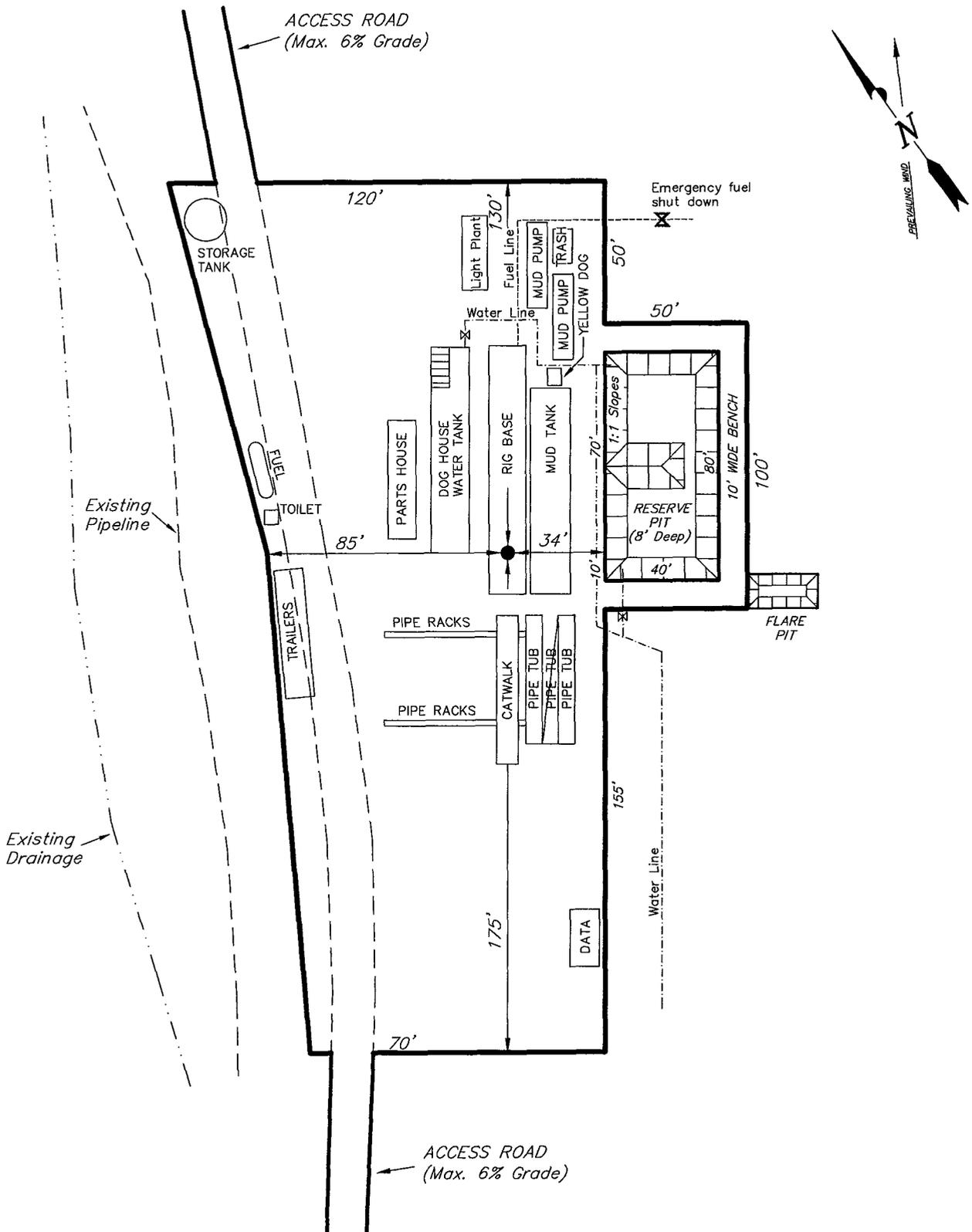
(435) 781-2501

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

# NEWFIELD PRODUCTION COMPANY

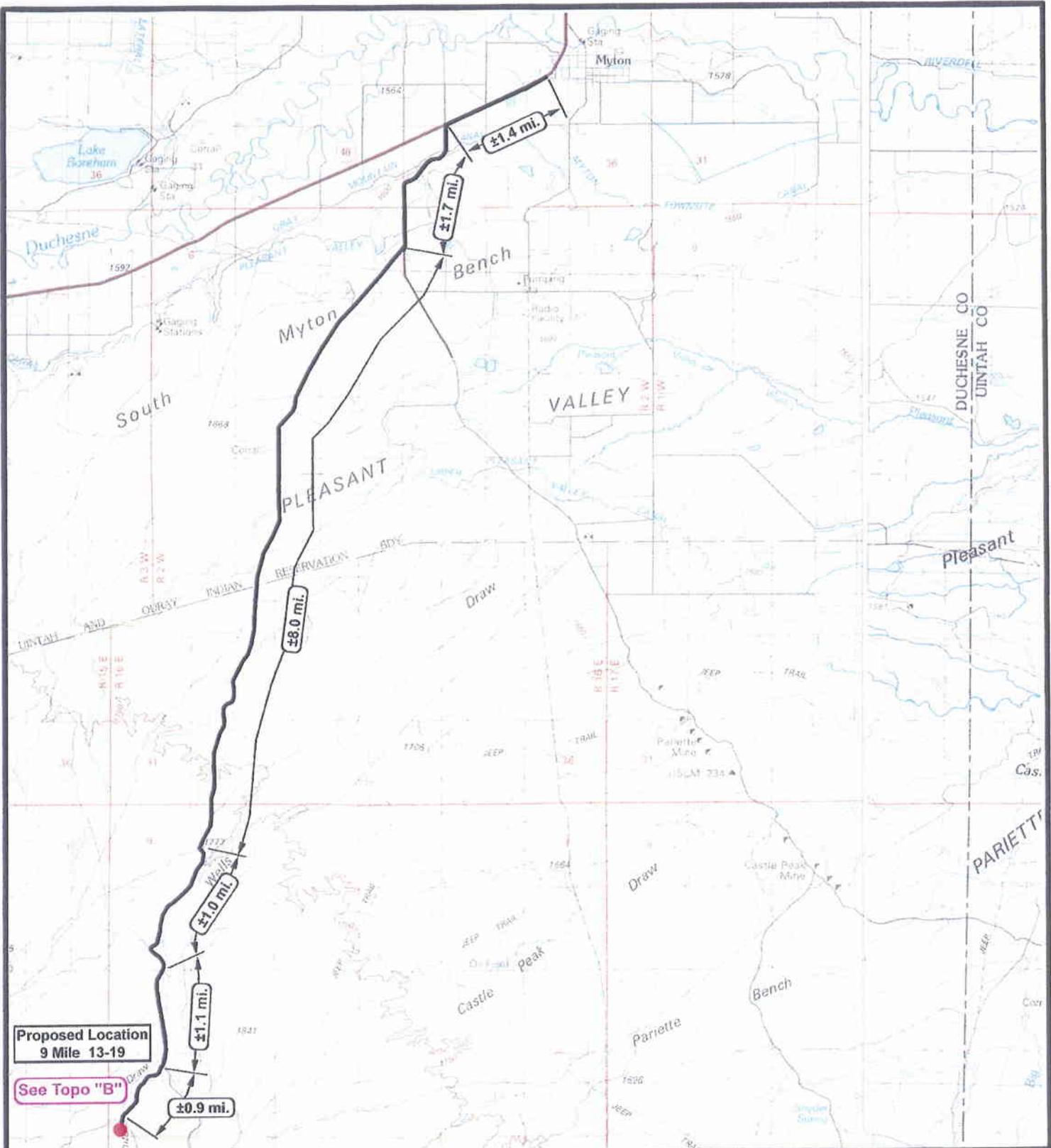
## TYPICAL RIG LAYOUT

### 9 MILE 13-19-9-16



SURVEYED BY: C.M.	DATE SURVEYED: 04-20-09
DRAWN BY: F.T.M.	DATE DRAWN: 04-21-09
SCALE: 1" = 50'	REVISED:

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



Proposed Location  
9 Mile 13-19

See Topo "B"

**NEWFIELD**  
Exploration Company

**9 Mile 13-19-9-16**  
**SEC. 19, T9S, R16E, S.L.B.&M.**



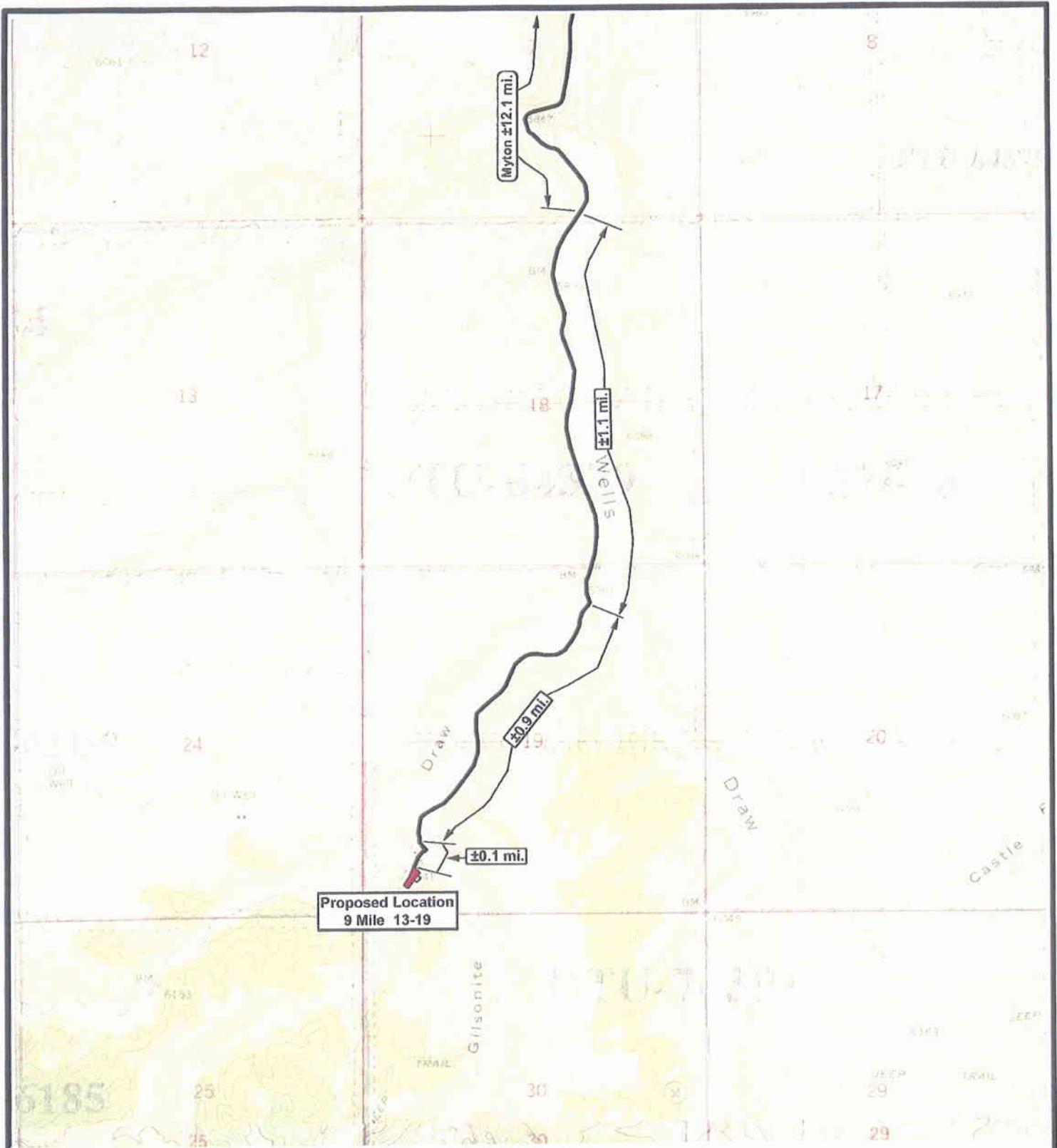
**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1 = 100,000  
DRAWN BY: JAS  
DATE: 04-29-2009

**Legend**

Existing Road

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



Proposed Location  
9 Mile 13-19

Myton ±12.1 mi.

±1.1 mi.  
Wells

39.9 mi.

30.1 mi.

Draw

Draw

Garrisonite  
TRAIL

Castle F

**NEWFIELD**  
Exploration Company

**9 Mile 13-19-9-16**  
**SEC. 19, T9S, R16E, S.L.B.&M.**



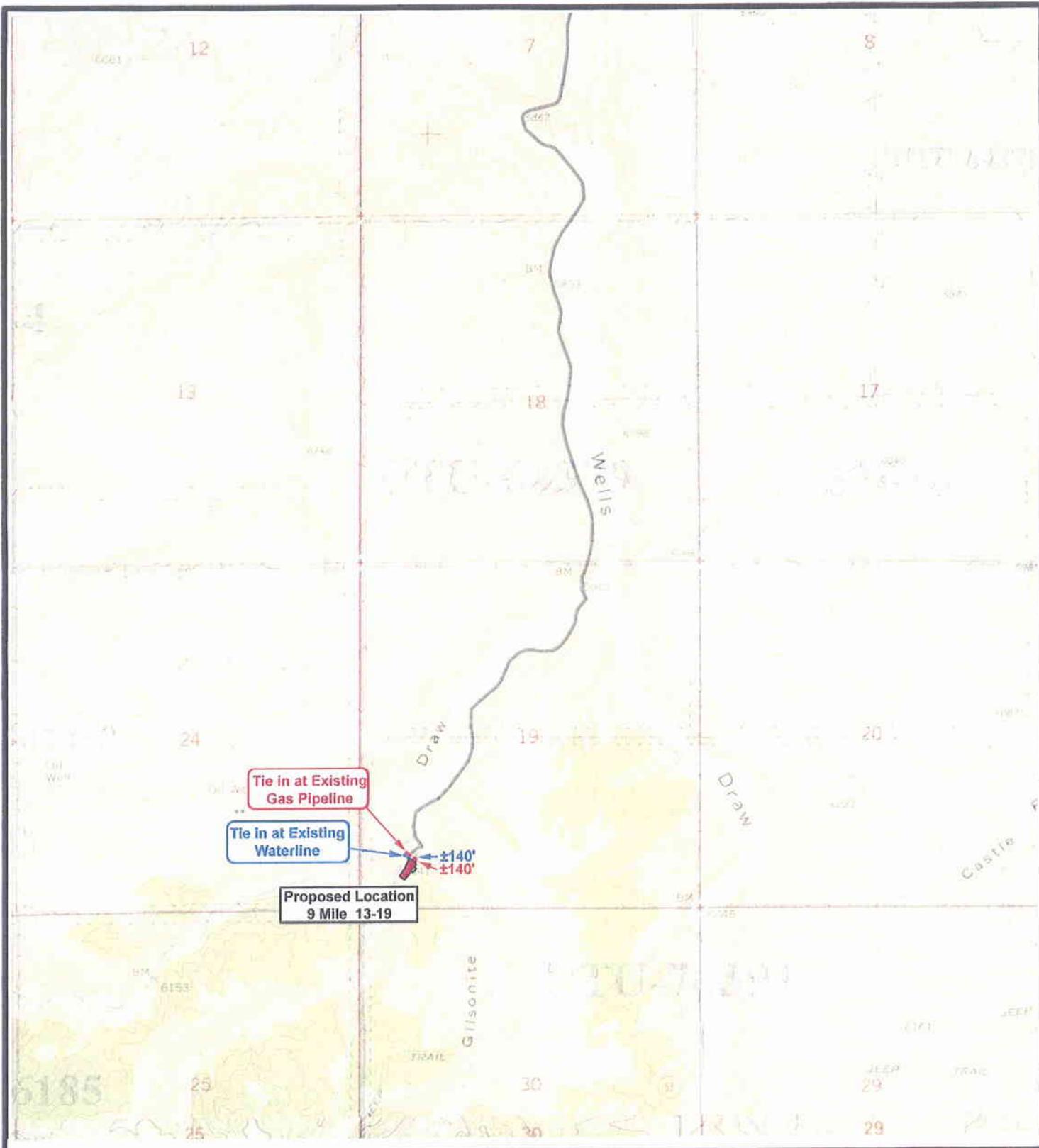
*Tri-State*  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2000'  
DRAWN BY: JAS  
DATE: 04-29-2009

**Legend**

- Existing Road
- Proposed Access

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



Tie in at Existing Gas Pipeline

Tie in at Existing Waterline

±140'

±140'

Proposed Location  
9 Mile 13-19

**NEWFIELD**  
Exploration Company

**9 Mile 13-19-9-16**  
**SEC. 19, T9S, R16E, S.L.B.&M.**



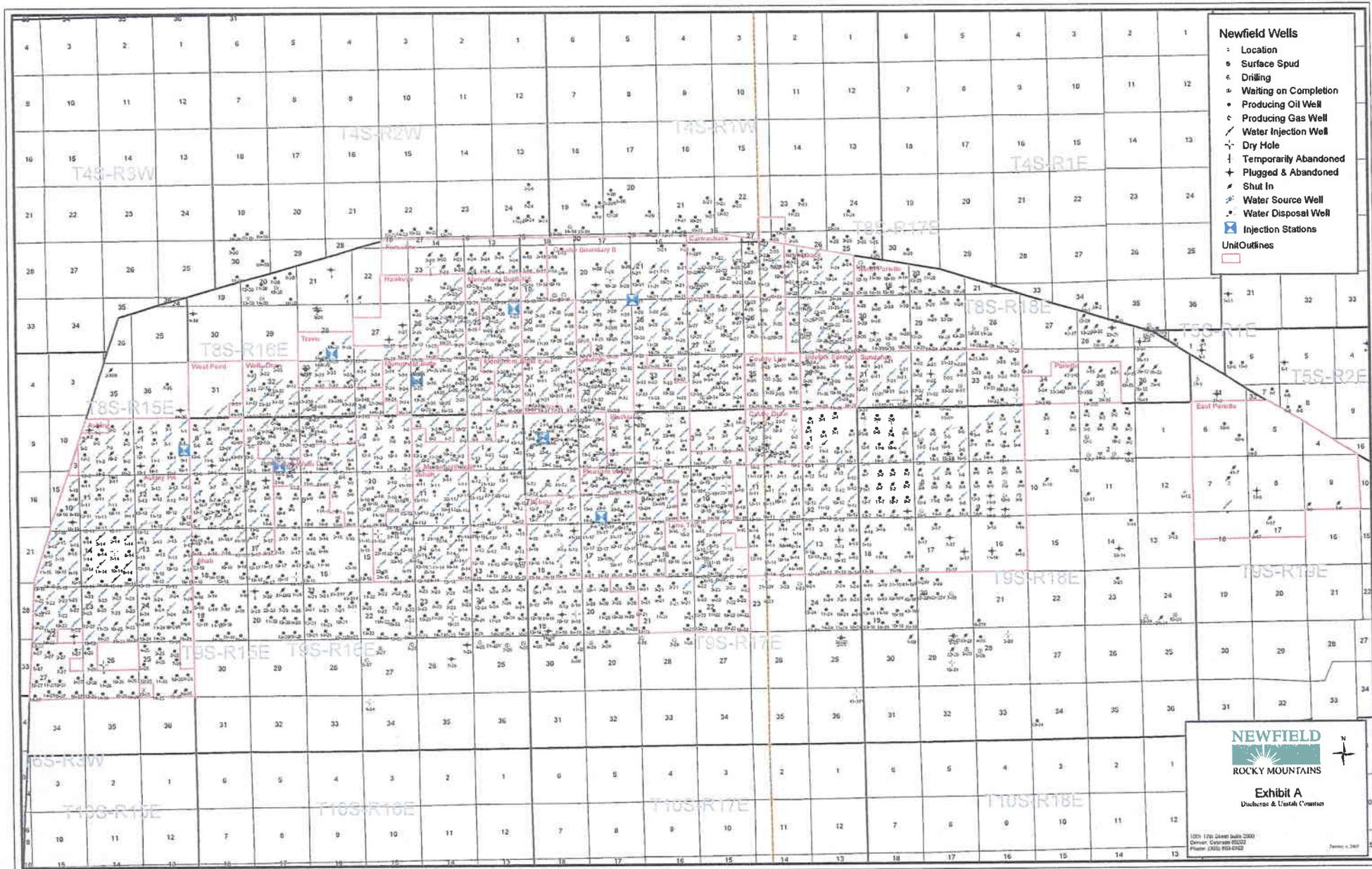
*Tri-State*  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2000'  
DRAWN BY: JAS  
DATE: 04-29-2009

**Legend**

- Roads
- Proposed Gas Line
- Proposed Water Line

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



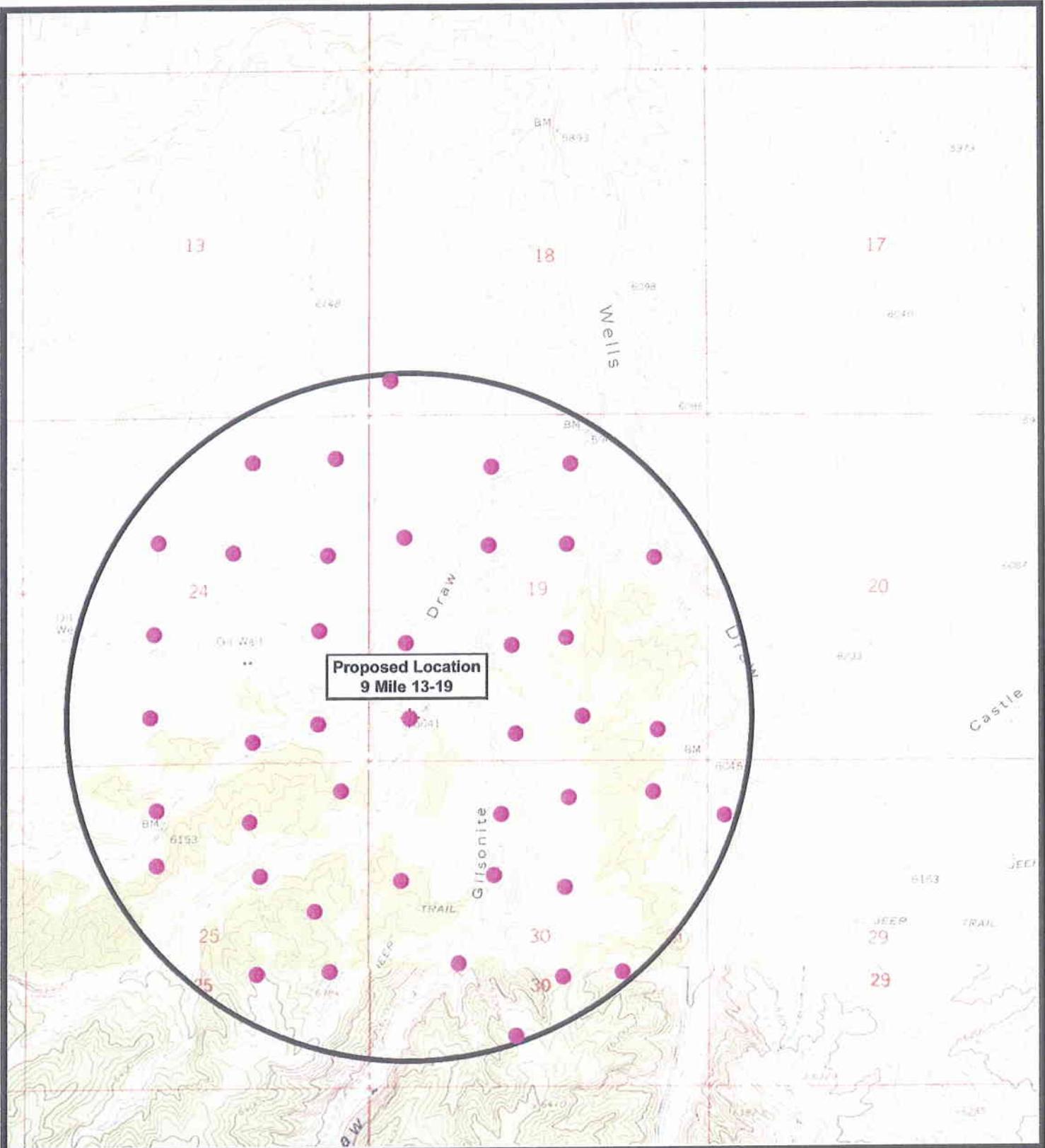
- Newfield Wells**
- Location
  - Surface Spud
  - Drilling
  - Waiting on Completion
  - Producing Oil Well
  - Producing Gas Well
  - Water Injection Well
  - Dry Hole
  - Temporarily Abandoned
  - Plugged & Abandoned
  - Shut In
  - Water Source Well
  - Water Disposal Well
  - Injection Stations
- Unit Outlines**
- 

**NEWFIELD**  
 ROCKY MOUNTAINS

**Exhibit A**  
 Duwacree & Uintah Counties

1001 17th Street Suite 2000  
 Denver, Colorado 80202  
 Phone: (303) 954-0123

January 4, 2001



**Proposed Location  
9 Mile 13-19**



**NEWFIELD**  
Exploration Company

**9 Mile 13-19-9-16**  
**SEC. 19, 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:** JAS  
**DATE:** 04-29-2009

**Legend**

- Location
- One-Mile Radius

**Exhibit "B"**

# 2-M SYSTEM

Blowout Prevention Equipment Systems

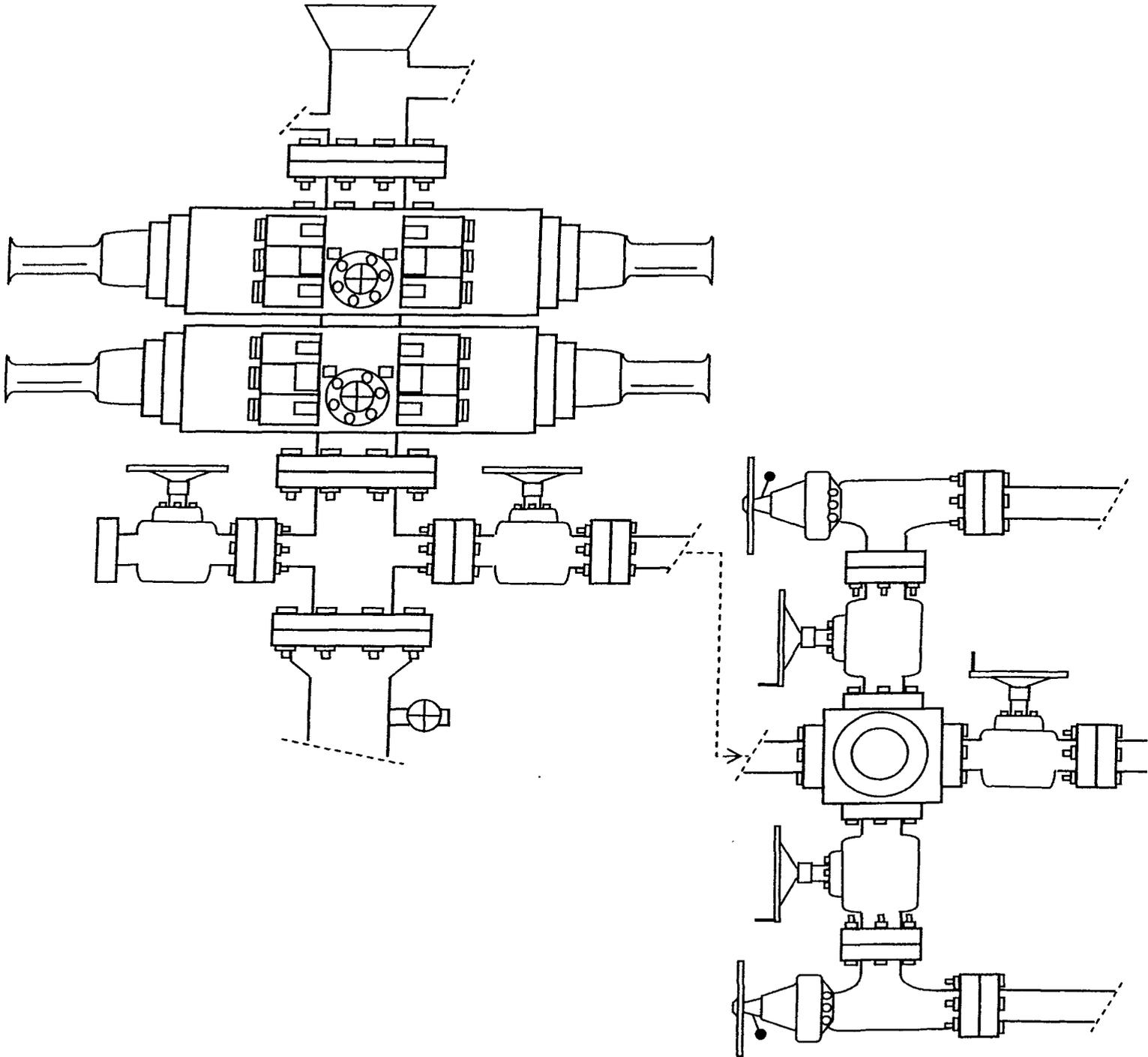


EXHIBIT C

Exhibit "D"  
page 1 of 2

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

By:

Shari Maria Silverman

Prepared For:

Bureau of Land Management  
Vernal Field Office

Prepared Under Contract With:

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

Prepared By:

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

MOAC Report No. 05-225

July 13, 2005

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

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

**NEWFIELD PRODUCTION COMPANY**

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

Section 8, T 9 S, R 16 E [SW 1/4 & SE 1/4, NE 1/4; and SE 1/4]; Section 17, T 9 S, R 16 E [NE 1/4; NE 1/4, NW 1/4 & SW 1/4, SE 1/4; NE 1/4, NW 1/4, & SW 1/4, SW 1/4]; Section 19, T 9 S, R 16 E [entire section]; Section 20, T 9 S, R 16 E [excluding NW 1/4, NE 1/4; and NW 1/4 & SE 1/4, NW 1/4]; Section 21, T 9 S, R 16 E [excluding NE 1/4 & NW 1/4, NE 1/4]

**REPORT OF SURVEY**

Prepared for:

**Newfield Production Company**

Prepared by:

Wade E. Miller  
Consulting Paleontologist  
November 10, 2005



# NEWFIELD



Route #3 Box 3630  
Myton, Utah 84052  
(435) 646-4825, FAX: (435) 646-3031

May 18, 2009

Bureau of Land Management  
Attn: James Herford  
170 South 500 East  
Vernal, Utah 84078-2799

RE: Application for Permit to Drill  
**Federal 13-19-9-16**

Dear James:

Enclose find the amended APD for the above mentioned APD which has already been submitted for approval. The proposed location was moved. If you have any questions, feel free to give either Tim Eaton or myself a call.

Sincerely,

A handwritten signature in cursive script that reads "Mandie Crozier". The signature is written in black ink and is positioned above the printed name.

Mandie Crozier  
Regulatory Specialist

mc  
enclosures

cc: State of Utah, DOGM

**RECEIVED**  
**MAY 19 2009**  
DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0137  
Expires July 31, 2010

5. Lease Serial No. UTU-74391	
6. If Indian, Allottee or Tribe Name NA	
7. If Unit or CA Agreement, Name and No. NA	
8. Lease Name and Well No. Federal 13-19-9-16	
9. API Well No. 43-013-33103	
10. Field and Pool, or Exploratory Monument Butte	11. Sec., T. R. M. or Blk. and Survey or Area Sec. 19, T9S R16E
12. County or Parish Duchesne	13. State UT
14. Distance in miles and direction from nearest town or post office* Approximately 14.2 miles southwest of Myton, UT	15. Distance from proposed* location to nearest property or lease line, ft. Approx. 758' f/lse, NA' f/unit (Also to nearest drig. unit line, if any)
16. No. of acres in lease 2139.50	17. Spacing Unit dedicated to this well 40 Acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1348'	19. Proposed Depth 5,740'
20. BLM/BIA Bond No. on file WYB000493	21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6054' GL
22. Approximate date work will start* 2nd Oct. 2009	23. Estimated duration (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, must 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 must 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 BLM.

25. Signature <i>Mandie Crozier</i>	Name (Printed/Typed) Mandie Crozier	Date 5/18/09
Title Regulatory Specialist		

Approved by (Signature) <i>Jerry Kavata</i>	Name (Printed/Typed) JERRY KAVATA	Date JUL 10 2009
Title Assistant Field Manager Lands & Mineral Resources		
Office VERNAL FIELD OFFICE		

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

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

(Continued on page 2)

\*(Instructions on page 2)

RECEIVED  
MAY 21 2006  
MAY 18 2009

NOTICE OF APPROVAL

BLM VERNAL, UTAH

RECEIVED

JUL 14 2009

UDOGM

No NOS

07BM 4693A, GAS & MINING



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

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



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

**Company:** Newfield Production Company  
**Well No:** Federal 13-19-9-16  
**API No:** 43-013-33103

**Location:** Lot 4, Sec. 19 T9S, R16E  
**Lease No:** UTU-74391  
**Agreement:** N/A

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
Supervisory NRS:	Karl Wright	(435) 781-4484	
NRS/Enviro Scientist:	Christine Cimiluca	(435) 781-4475	
NRS/Enviro Scientist:	Dan Emmett	(435) 781-3414	(435) 828-4029
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Lori Ford	(435) 781-4406	
NRS/Enviro Scientist:	David Gordon	(435) 781-4424	
NRS/Enviro Scientist:	James Hereford	(435) 781-3412	(435) 828-3546
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545
NRS/Enviro Scientist:	Paul Percival	(435) 781-4493	(435) 828-7381
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	(435) 828-3544

**Fax: (435) 781-3420**

**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 Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental 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 Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

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

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO<sub>x</sub> per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO<sub>x</sub> per horsepower-hour.
- 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.
- Top soil must be separated properly and marked from other soil material when construction of the pad takes place. This is to ensure that when we do interim and final reclamation we are putting the top soil back on top and not incorporating it with other substrate materials.
- Within 90 calendar days of the approval date for this Application for Permit to Drill (APD), the operator/lessee shall submit to the Authorized Officer (AO), on Sundry Notice Form 3160-5, an Interim/Final Surface Reclamation Plan for surface disturbance on well pads, access roads, and pipelines. At a minimum, this will include the reshaping of the pad to the original contour to the extent possible; the respreading of the top soil up to the rig anchor points; and, the area reseeded using appropriate reclamation methods. The AO will provide written approval or concurrence within 30 calendar days of receipt.

**Interim Reclamation:**

- The topsoil from the reserve pit shall be stripped and piled separately near the reserve pit. When the reserve pit is dry and free of all trash and residual hydrocarbons it will be closed, it shall be recontoured and the topsoil respread, and the area shall be seeded using a rangeland drill. Seeding depth as per AO, or seed distributor. If portions of the site are too steep (>40%), or rocky, that portion may be broadcast seeded. If broadcasting seed, the seed shall be walked into the soil with a dozer immediately after the seeding is completed, or covered by soil using a drag chain. Seeding shall occur in the fall (August 1<sup>st</sup> until snow or ground is frozen) with the following seed mix:

**Seed mix:**

Common name	Latin name	lbs/acre	Recommended seed planting depth
Forage Kochia	<i>Kochia Prostrata</i>	0.20	1/2"
Squirreltail grass	<i>Elymus elymoides</i>	3.0	1/4 - 1/2"
Siberian wheatgrass	<i>Agropyron fragile</i>	1.0	1/2"
Shadscale saltbush	<i>Atriplex confertifolia</i>	0.50	1/2"
Four-wing saltbush	<i>Atriplex canescens</i>	0.50	1/2"
Gardner's saltbush	<i>Atriplex gardneri</i>	0.50	1/2"
Scarlet globemallow	<i>Sphaeralcea coccinea</i>	0.10	1/8 - 1/4"

- All pounds are pure live seed.
- All seed and mulch will be certified weed free.
- Rates are set for drill seeding; double rate if broadcasting.
- Reseeding may be required if initial seeding is not successful.

**Final reclamation:**

- Noxious and/or invasive weeds will be controlled along access roads, pipelines, well sites, and all other applicable facilities. Any noxious and/or invasive weeds outbreak, directly attributed to the activities of the Operator, will be the responsibility of the Operator to control. On BLM administered land, a Pesticide Use Proposal (PUP) must be submitted and approved prior to the application of herbicides, pesticides, or other possibly hazardous chemicals.
- The topsoil from the reserve pit shall be stripped and piled separately near the reserve pit. When the reserve pit is closed, it shall be recontoured and the topsoil respread, and the area shall be seeded in the same manner as the location topsoil.
- Once the location is plugged and abandoned, it shall be recontoured to natural topology, topsoil shall be respread, and the entire location shall be seeded with a seed mix recommended by the AO (see above). Seed application will follow all guidelines in the interim seed mix bullet statement above, and in Green River reclamation guidelines. If reclamation seeding should take place using the broadcast method, the seed at a minimum will be walked into the soil with a dozer immediately after the seeding is completed.

**DOWNHOLE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**SITE SPECIFIC DOWNHOLE COAs:**

- A variance is granted for O.O. #2 III. E. 1.
  - a. The blooie line shall be straight or have targeted tees for bends in the line.
  - b. 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.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- 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.
  - While actively drilling, 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 ( $\frac{1}{4}$  $\frac{1}{4}$ , Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from 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.

Spud

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# \_\_\_\_\_ Ross #  
21 Submitted By Jim Smith Phone  
Number 823-2072

Well Name/Number Fed 13-19-9-16

Qtr/Qtr SW/SW Section 19 Township 9S Range 16E

Lease Serial Number UTU-74391

API Number 43-013-33103

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 7/17/09 9:00 AM  PM

Casing – Please report time casing run starts, not cementing times.

- Surface Casing
- Intermediate Casing
- Production Casing
- Liner
- Other

Date/Time 7/17/09 4:00 AM  PM

BOPE

- Initial BOPE test at surface casing point
- BOPE test at intermediate casing point
- 30 day BOPE test
- Other

Date/Time \_\_\_\_\_ AM  PM

Remarks \_\_\_\_\_

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	14844	4301332970	<i>Sundance</i> FEDERAL 1-10-9-17	NENE	10	9S	17E	DUCHESNE	7/9/2009	7/30/09
WELL 1 COMMENTS: <i>GRRV</i>											
B	99999	12391	4301334069	<i>GREATER BOUNDARY II</i> Fed S-29-8-17	NESE	29	8S	17E	DUCHESNE	7/18/2009	7/30/09
<i>GRRV</i> <i>BHL = NESE</i>											
A	99999	17336	4301334258	TANNERJORGENSEN 15-22-4-1	SWSE	22	4S	1W	DUCHESNE	7/21/2009	7/30/09
<i>GRRV</i>											
A	99999	17337	4301334259	TANNERJORGENSEN 13-22-4-1	SWSW	22	4S	1W	DUCHESNE	7/22/2009	7/30/09
<i>GRRV</i>											
A	99999	17338	4301333103	FEDERAL 13-19-9-16	SWSW	19	9S	16E	DUCHESNE	7/18/2009	7/30/09
WELL 5 COMMENTS: <i>GRRV</i>											
WELL 5 COMMENTS:											

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

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

RECEIVED  
 JUL 27 2009

DIV. OF OIL, GAS & MINING

*[Signature]*  
 Signature  
 Production Clerk  
 Jentri Park  
 07/23/09  
 Date

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**SUBMIT IN TRIPLICATE - Other Instructions on page 2**

1. Type of Well  
 Oil Well    Gas Well    Other

2. Name of Operator  
 NEWFIELD PRODUCTION COMPANY

3a. Address   Route 3 Box 3630      3b. Phone    (include are code)  
 Myton, UT 84052                      435.646.3721

4. Location of Well    (Footage, Sec., T., R., M., or Survey Description)  
 Section T R                              9S 16E 19

5. Lease Serial No.  
~~Federal~~    UW-74391

6. If Indian, Allottee or Tribe Name.

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

8. Well Name and No.  
 FEDERAL 13-19-9-16

9. API Well No.  
 4301333103

10. Field and Pool, or Exploratory Area  
 MONUMENT BUTTE

11. County or Parish, State  
 UT

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input 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 Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	_____

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

On 7/18/09 MIRU Ross # 29. Spud well @ 9:00 AM. Drill 315' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24 # csgn. Set @ 319.02 KB. On 7/21/09 cement with 160 sks of class "G" w/ 3% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cf/ sk yeild. Returned 5 bbls cement to pit. WOC.

**RECEIVED**  
**AUG 04 2009**  
 DIV. OF OIL, GAS & MINING

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

Title  
 Drilling Foreman

Date  
 07/25/2009

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

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

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

Office \_\_\_\_\_





UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUBMIT IN TRIPLICATE - Other Instructions on page 2**

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)

SWSW Section 19 T9S R16E

5. Lease Serial No.

UTU-74391

6. If Indian, Allottee or Tribe Name.

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

8. Well Name and No.

FEDERAL 13-19-9-16

9. API Well No.

4301333103

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

UT

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Weekly Status Report
	<input type="checkbox"/> Convert to Injector	<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 recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 7/24/09 MIRU NDSI Rig # 1. Set all equipment. Pressure test Kelly, TIW, Choke manifold, & Bop's to 2,000 psi. Test 8.625 csgn to 1,500 psi. Vernal BLM field, & Roosevelt DOGM office was notified of test. PU BHA and tag cement @ 260'. Drill out cement & shoe. Drill a 7.875 hole with fresh water to a depth of 5700'. 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, 144 jt's of 5.5 J-55, 15.5# csgn. Set @ 5696.9' / KB. Cement with 275 sks cement mixed @ 11.0 ppg & 3.43 yld. The 400 sks cement mixed @ 14.4 ppg & 1.24 yld. Returned 34 bbbls of cement to reserve pit. Nipple down Bop's. Drop slips @ 90,000 #s tension. Release rig @ 5:30 am on 7/29/09.

**RECEIVED**  
**AUG 04 2009**  
DIV. OF OIL, GAS & MINING

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

Jim Smith

Signature

Title

Drilling Foreman

Date

07/30/2009

**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

Office

Date

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 page 2)





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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
UTU-74391

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

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

4. LOCATION OF WELL: FOOTAGES AT SURFACE: COUNTY: OTR/OTR. SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW, 19, T9S, R16E STATE: UT

8. WELL NAME and NUMBER:  
FEDERAL 13-19-9-16

9. API NUMBER:  
4301333103

10. FIELD AND POOL, OR WILDCAT:  
MONUMENT BUTTE

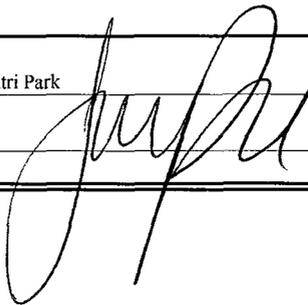
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will _____	<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: 09/08/2009	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Weekly Status Report
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

The above subject well was completed on 08/21/09, attached is a daily completion status report.

NAME (PLEASE PRINT) Jentri Park TITLE Production Clerk

SIGNATURE  DATE 09/08/2009

(This space for State use only)

**RECEIVED**  
**SEP 09 2009**  
DIV. OF OIL, GAS & MINING

## Daily Activity Report

Format For Sundry

**FEDERAL 13-19-9-16**

**6/1/2009 To 10/30/2009**

**8/6/2009 Day: 1**

**Completion**

WWS #5 on 8/6/2009 - Ran CBL & shot 1st stage. - Install 5m frac head. NU 6" 5K Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head, csg & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 5603' & cement top @ 58'. Perforate stage #1, CP5 sands @ 5569-71' & 5528-34' w/ 3-1/8" Slick Guns (19 gram, .49"EH, 120°) w/ 3 spf for total of 24 shots. 134 BWTR. SWIFN.

**Daily Cost:** \$0

**Cumulative Cost:** \$12,216

**8/13/2009 Day: 2**

**Completion**

Rigless on 8/13/2009 - Frac well. - RU BJ Services. 0 psi on well. Broke @ 3864 psi. ISIP @ 1904 psi, 1 min @ 1855 psi, 4 min @ 1748 psi. FG @ .78. Frac CP5 sds w/ 15,618#'s of 20/40 sand in 331 bbls of Lightning 17 fluid. Treated w/ ave pressure of 3307 psi w/ ave rate of 26.5 BPM. ISIP 2648 psi, 5 min @ 2355 psi, 10 min @ 2244 psi, 15 min @ 2159 psi. FG @ .91. Leave pressure on well. 465 BWTR. - RU Phoenix Surverys inc WLT, crane & Lubricator. RIH w/ Weatherford 5 1/2" 6K composite flow through frac plug & 10' perf gun. Set plug @ 4630'. Perforate B.5 sds @ 4557-67' w/ 3 1/8" Slick Guns (.34"EH, 16 gram, 120°, 21.00¢ pen., TAG-3375-311SL) w/ 3 spf for total of 30 shots. RU BJ Services. Perfs would not break down. Dump bail acid on perfs (3 runs). SWIFN. - RU Phoenix Surverys inc WLT, crane & Lubricator. RIH w/ Weatherford 5 1/2" 6K composite flow through frac plug & 3', 5' & 2' perf guns. Set plug @ 4850'. Perforate A1 sds @ 4775-78', 4761-66', & 4746-48' w/ 3 1/8" Slick Guns (.36"EH, 16 gram, 120°, 21.00" pen., TAG-3375-311SL) w/ 3 spf for total of 30 shots. RU BJ Services. 2048 psi on well. Broke @ 3897 psi. Pressure dropped below open pressure. Frac A1 sds w/ 60,817#'s of 20/40 sand in 512 bbls of Lightning 17 fluid. Treated w/ ave pressure of 3350 psi w/ ave rate of 34.7 BPM. ISIP 3193 psi. FG. @ 1.10. Leave pressure on well. 977 BWTR

**Daily Cost:** \$0

**Cumulative Cost:** \$16,727

**8/14/2009 Day: 3**

**Completion**

Rigless on 8/14/2009 - Frac well. SWIFN. 1942 BWTR. - RU BJ Services. 1101 psi on well. Broke @ 2616 psi. Pressure too low to record shut in pressures. Frac B.5 sds w/ 15,408#'s of 20/40 sand in 273 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2210 psi w/ ave rate of 26.6 BPM. ISIP 1902 psi. FG @ .85. Leave pressure on well. 1250 BWTR. - RU Phoenix Surverys inc WLT, crane & Lubricator. RIH w/ Weatherford 5 1/2" 6K composite flow through frac plug & 5', 4' perf guns. Set plug @ 4070'. Perforate GB6 sds @ 3893-98' & GB4 sds @ 3831-35' w/ 3 1/8" Slick Guns (.34"EH, 16 gram, 120°, 21.00¢ pen., TAG-3375-311SL) w/ 3 spf for total of 27 shots. RU BJ Services. 1232 psi on well. Broke @ 2626 psi. Frac GB4/GB6 sds w/ 84,734#'s of 20/40 sand in 636 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2649 psi w/ ave rate of 33 BPM. ISIP 2707 psi. FG. @ 1.1. Open well to pit for immediate flowback @ approx. 3 bpm. Well flowed for 3.5 hrs & died. Recovered 440 bbls water. SWIFN. 1942 BWTR. - RU Phoenix Surverys inc WLT, crane & Lubricator. RIH w/ Weatherford 5 1/2" 6K composite flow through frac plug & 3' 4' perf guns. Set plug @ 4460'. Perforate D2 sds @ 4382-85' & D1 sds @ 4350-54' w/ 3 1/8" Slick Guns (.34"EH, 16 gram, 120°, 21.00¢ pen., TAG-3375-311SL) w/ 3 spf for total of 21 shots. RU BJ Services. 1315 psi on well. Broke @

2322 psi. Pressure dropped below open pressure. No shut ins recorded. Frac D1/D2 sds w/ 61,285#'s of 20/40 sand in 496 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2278 psi w/ ave rate of 26.5 BPM. ISIP 2166 psi. FG. @ .93. Leave pressure on well. 1746 BWTR

**Daily Cost:** \$0

**Cumulative Cost:** \$95,689

**8/18/2009 Day: 4**

**Completion**

WWS #1 on 8/18/2009 - ND Cameron BOP & 5m frac head. NU 3m production head & Schaeffer BOP. PU 4 3/4" chomp bit, bit sub & 80 jts 2 7/8" tbg. SWIFN. 1942 BWTR. - MIRU Western #1. ND Cameron BOP & 5m frac head. NU 3m production head & Schaeffer BOP. RIH w/ 4 3/4" chomp bit, bit sub & 80 jts new 2 7/8" tbg. from pipe racks. RU pump & lines. Circulate well clean. SWIFN. 1942 BWTR.

**Daily Cost:** \$0

**Cumulative Cost:** \$131,497

**8/19/2009 Day: 5**

**Completion**

WWS #1 on 8/19/2009 - DU CBPs. C/O to PBD @ 5654'. Swab for cleanup. - Cont. RIH w/ tbg. Tag fill @ 3860'. RU powerswivel. C/O to CBP @ 4070'. DU CBP in 10 min. Cont. RIH w/ tbg. Tag fill @ 4358'. C/O to CBP @ 4460'. DU CBP in 16 min. Cont. RIH w/ tbg. Tag fill @ 4562'. C/O to CBP @ 4630'. DU CBP @ 19 min. Cont. RIH w/ tbg. Tag fill @ 4811'. C/O to CBP @ 4850'. DU CBP @ 13 min. Cont. RIH w/ tbg. Tag fill @ 5535'. C/O to PBD @ 5654'. Circulate well clean. Pull up to 5605'. RU swab. SFL @ surface. Made 1 run. Lost knuckle & mandrel. MU new knuckle & mandrel. Made 4 runs. SFL @ surface. Recovered 45 bbls water. EFL @ 300'. SWIFN. 1972 BWTR.

**Daily Cost:** \$0

**Cumulative Cost:** \$137,507

**8/20/2009 Day: 6**

**Completion**

WWS #1 on 8/20/2009 - Swab for cleanup. Round trip tbg. - RIH w/ swab. SFL @ 600'. Made 6 runs. Recovered 70 bbls. Trace of oil, no show of sand. EFL @ 600'. RD swab. RIH w/ tbg. Tag PBD @ 5654'. Circulate well clean. POOH w/ tbg. LD BHA. RIH w/ 2 7/8" bull plug, 3 jts 2 7/8" tbg., PBGA, 1 jt 2 7/8" tbg., PSN, 1 jt 2 7/8" tbg., 5 1/2" TAC & 105 jts 2 7/8" tbg. SWIFN.

**Daily Cost:** \$0

**Cumulative Cost:** \$141,952

**8/21/2009 Day: 7**

**Completion**

WWS #1 on 8/21/2009 - RIH w/ tbg. ND BOP. RIH w/ rods. PWOP @ 4:00 p.m. 5.5 spm, 68" stroke length. 1987 BWTR. - Cont. RIH w/ tbg. LD BHA. RIH w/ 2 7/8" bull plug, 3 jts 2 7/8" tbg., 2 7/8" nipple, PBGA, 1 jt 2 7/8" tbg., PSN, 1 jt 2 7/8" tbg., 5 1/2" TAC & 167 jts 2 7/8" tbg. ND BOP. Set TAC @ 5263' w/ 18,000# tension. NU wellhead. X-over for rods. Flush tbg. w/ 60 bbls water. RIH w/ Central Hydraulic 2 1/2" x 1 1/2" x 16' x 20' RHAC rod pump, 6- 1 1/2" weight bars, 20- 3/4" guided rods, 76- 3/4" slick rods, 109- 3/4" guided rods, 1- 2' x 3/4" pony sub, 1 1/2" x 26' polished rod. Seat pump. RU pumping unit. Hang off rods. Stroke test to 800 psi. Good pump action. RD. Put well on production @ 4:00 p.m. 5.5 spm, 68" stroke length. Final Report. 1987 BWTR. **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$165,327

---

**Pertinent Files: Go to File List**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0137  
Expires: July 31, 2010

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

1a. Type of Well  Oil Well  Gas Well  Dry  Other  
 b. Type of Completion:  New Well  Work Over  Deepen  Plug Back  Diff. Resrv.,  
 Other: \_\_\_\_\_

5. Lease Serial No.  
UTU-74391

6. If Indian, Allottee or Tribe Name  
NA

7. Unit or CA Agreement Name and No.  
FEDERAL

2. Name of Operator  
NEWFIELD EXPLORATION COMPANY

8. Lease Name and Well No.  
FEDERAL 13-19-9-16

3. Address  
1401 17TH ST. SUITE 1000 DENVER, CO 80202

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

9. AFI Well No.  
43-013-33103

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*

At surface **588 FSL 758 FWL**  
**847' FSL & 667' FWL (SW/SW) SEC. 19, T9S, R16E**

10. Field and Pool or Exploratory  
MONUMENT BUTTE

11. Sec., T., R., M., on Block and  
Survey or Area SEC. 19, T9S, R16E

At top prod. interval reported below

12. County or Parish  
DUCHESNE

13. State  
UT

At total depth 5700'

14. Date Spudded  
07/18/2009

15. Date T.D. Reached  
07/29/2009

16. Date Completed 08/21/2009  
 D & A  Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\*  
6044' GL 6056' KB

18. Total Depth: MD 5700'  
TVD

19. Plug Back T.D.: MD 5654'  
TVD

20. Depth Bridge Plug Set: MD  
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
DUAL IND GRD, SP, COMP. DENSITY, COMP. NEUTRON, GR, CALIPER, CMT BOND

22. Was well cored?  No  Yes (Submit analysis)  
Was DST run?  No  Yes (Submit report)  
Directional Survey?  No  Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24#		319'		160 CLASS G			
7-7/8"	5-1/2" J-55	15.5#		5697'		275 PRIMLITE		58'	
						400 50/50 POZ			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8"	EOT@ 5705'	TA @ 5656'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GREEN RIVER			(CP5)5569-71,5528-34'	.49"	3	24
B) GREEN RIVER			(A1)SEE BELOW	.36"	3	30
C) GREEN RIVER			(B.5) 4557-4567'	.34"	3	30
D) GREEN RIVER			(D1)&(D2)SEE BELOW	.34"	3	21

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
5528-5571'	Frac CP5 sds w/ 15,618#'s of 20/40 sand in 331 bbls of Lightning 17 fluid.
4746-4778'	Frac A1 sds w/ 60,817#'s of 20/40 sand in 512 bbls of Lightning 17 fluid.
4557-4567'	Frac B.5 sds w/ 15,408#'s of 20/40 sand in 273 bbls of Lightning 17 fluid.
4350-4385'	Frac D1/D2 sds w/ 61,285#'s of 20/40 sand in 496 bbls of Lightning 17 fluid.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
08/21/09	08/31/09	24	→	20	28	8			Central Hydraulic 2 1/2" x 1 1/2" x 16' x 20' RHAC rod pump
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→					PRODUCING	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

RECEIVED

OCT 14 2009

\*(See instructions and spaces for additional data on page 2)

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

29. Disposition of Gas (Solid, used for fuel, vented, etc.)

USED FOR FUEL

30. Summary of Porous Zones (Include Aquifers):

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.

31. Formation (Log) Markers

GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GARDEN GULCH MRK GARDEN GULCH 1	3324' 3553'
				GARDEN GULCH 2 POINT 3	3658' 3903'
				X MRKR Y MRKR	4169' 4203'
				DOUGALS CREEK MRK BI CARBONATE MRK	4309' 4538'
				B LIMESTON MRK CASTLE PEAK	4630' 5200'
				BASAL CARBONATE TOTAL DEPTH (LOGGERS)	5645' 5701'

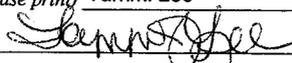
32. Additional remarks (include plugging procedure):

Perforate stage #2. Perforate A1 sds @ 4775-78', 4761-66', & 4746-48' w/ 3 1/8" Slick Guns (.36"EH, 16 gram, 120°, 21.00" pen., TAG-3375-311SL) w/ 3 spf for total of 30 shots.  
 Perforate stage #4. Perforate D2 sds @ 4382-85' & D1 sds @ 4350-54' w/ 3 1/8" Slick Guns (.34"EH, 16 gram, 120°, 21.00" pen., TAG-3375-311SL) w/ 3 spf for total of 21 shots  
 Perforate stage #5. Perforate GB6 sds @ 3893-98' & GB4 sds @ 3831-35' w/ 3 1/8" Slick Guns (.34"EH, 16 gram, 120°, 21.00" pen., TAG-3375-311SL) w/ 3 spf for total of 27 shots. RU BJ Services. 1232 psi on well. Broke @ 2626 psi. Frac GB4/GB6 sds w/ 84,734#'s of 20/40 sand in 636 bbls of Lightning 17 fluid.

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- Electrical/Mechanical Logs (1 full set req'd.)     
  Geologic Report     
  DST Report     
  Directional Survey  
 Sundry Notice for plugging and cement verification     
  Core Analysis     
  Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) Tammi Lee Title Production Clerk  
 Signature  Date 09/30/2009

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.

**NEWFIELD**



**Newfield Exploration Company**

1001 17th Street | Suite 2000

Denver, Colorado 80202

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

June 4, 2013

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 #13-19-9-16  
Monument Butte Field, Lease #UTU-74391  
Section 19-Township 9S-Range 16E  
Duchesne County, Utah

RECEIVED

JUN 05 2013

DIV. OF OIL, GAS & MINING

Dear Mr. Reinbold:

Newfield Production Company herein requests approval to convert the Federal #13-19-9-16 from a producing oil well to a water injection well in the Monument Butte (Green River) Field.

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

Sincerely,

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

Eric Sundberg  
Environmental Manager

**NEWFIELD PRODUCTION COMPANY**  
**APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL**  
**FEDERAL #13-19-9-16**  
**MONUMENT BUTTE FIELD (GREEN RIVER) FIELD**  
**LEASE #UTU-74391**  
**JUNE 4, 2013**

## TABLE OF CONTENTS

LETTER OF INTENT	
COVER PAGE	
TABLE OF CONTENTS	
UIC FORM 1 – APPLICATION FOR INJECTION WELL	
WELLBORE DIAGRAM OF PROPOSED INJECTION	
WORK PROCEDURE FOR INJECTION CONVERSION	
COMPLETED RULE R615-5-1 QUESTIONNAIRE	
COMPLETED RULE R615-5-2 QUESTIONNAIRE	
ATTACHMENT A	ONE-HALF MILE RADIUS MAP
ATTACHMENT A-1	WELL LOCATION PLAT
ATTACHMENT B	LIST OF SURFACE OWNERS WITHIN ONE-HALF MILE RADIUS
ATTACHMENT C	CERTIFICATION FOR SURFACE OWNER NOTIFICATION
ATTACHMENT E	WELLBORE DIAGRAM – FEDERAL #13-19-9-16
ATTACHMENT E-1	WELLBORE DIAGRAM – FEDERAL #4-30-9-16
ATTACHMENT E-2	WELLBORE DIAGRAM – FEDERAL #3-30-9-16
ATTACHMENT E-3	WELLBORE DIAGRAM – FEDERAL #2-30-9-16
ATTACHMENT E-4	WELLBORE DIAGRAM – FEDERAL #15-19-9-16
ATTACHMENT E-5	WELLBORE DIAGRAM – FEDERAL #14-19-9-16
ATTACHMENT E-6	WELLBORE DIAGRAM – FEDERAL #10-19-9-16
ATTACHMENT E-7	WELLBORE DIAGRAM – FEDERAL #11-19-9-16
ATTACHMENT E-8	WELLBORE DIAGRAM – FEDERAL #12-19-9-16
ATTACHMENT E-9	WELLBORE DIAGRAM – FEDERAL #5-19-9-16
ATTACHMENT E-10	WELLBORE DIAGRAM – ASHLEY FEDERAL #10-24R-9-15
ATTACHMENT E-11	WELLBORE DIAGRAM – ASHLEY FEDERAL #8-24-9-15
ATTACHMENT E-12	WELLBORE DIAGRAM – ASHLEY FEDERAL #9-24-9-15
ATTACHMENT E-13	WELLBORE DIAGRAM – ASHLEY FEDERAL #16-24-9-15
ATTACHMENT E-14	WELLBORE DIAGRAM – ASHLEY FEDERAL #15-24-9-15
ATTACHMENT F	WATER ANALYSIS
ATTACHMENT G	FRACTURE GRADIENT CALCULATIONS
ATTACHMENT G-1	FRACTURE REPORTS DATED – 8/6/09 – 8/21/09
ATTACHMENT H	WORK PROCEDURE FOR PROPOSED PLUG AND ABANDON
ATTACHMENT H-1	WELLBORE DIAGRAM OF PROPOSED PLUGGED WELL

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR INJECTION WELL - UIC FORM 1

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

Well Name and number: Federal #13-19-9-16  
Field or Unit name: Monument Butte (Green River) Lease No. UTU-74391  
Well Location: QQ SWSW section 19 township 9S range 16E county Duchesne

Is this application for expansion of an existing project? ..... Yes  No   
Will the proposed well be used for: Enhanced Recovery? ..... Yes  No   
Disposal? ..... Yes  No   
Storage? ..... Yes  No   
Is this application for a new well to be drilled? ..... Yes  No   
If this application is for an existing well,  
has a casing test been performed on the well? ..... Yes  No   
Date of test: \_\_\_\_\_  
API number: 43-013-33103

Proposed injection interval: from 3658 to 5654  
Proposed maximum injection: rate 500 bpd pressure 1868 psig  
Proposed injection zone contains [x] oil, [ ] gas, and/or [ ] fresh water within 1/2  
mile of the well.

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

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

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

Name: Eric Sundberg Signature   
Title Environmental Manager Date 6/21/13  
Phone No. (303) 893-0102

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

Comments:

# Federal 13-19-9-16

Spud Date:  
Put on Production:  
GL: 6044' KB: 6056'

## Proposed Injection Wellbore Diagram

### SURFACE CASING

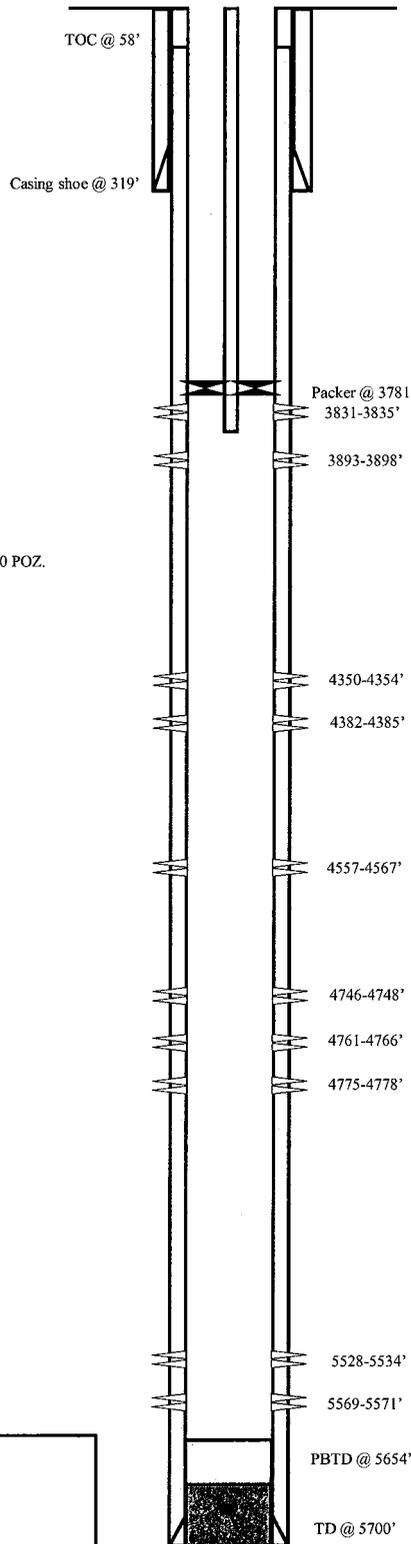
CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (30.7.17")  
DEPTH LANDED: 319.02'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 143 jts. (5642.16")  
HOLE SIZE: 7-7/8"  
DEPTH LANDED: 5696.9'  
CEMENT DATA: 275 sx Prem. Lite II mixed & 400 sx 50/50 POZ.  
CEMENT TOP AT: 58'

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 167 jts (5251.5')  
TUBING ANCHOR: 5264'  
NO. OF JOINTS: 1 jts (31.7')  
SEATING NIPPLE: 2-7/8" (1.1')  
SN LANDED AT: 5298' KB  
NO. OF JOINTS: 1 jts (31.6'), 3 jts (94.5')  
GAS ANCHOR: 5330.7  
TOTAL STRING LENGTH: EOT @ 5432'



### FRAC JOB

8-21-09	5528-5571'	<b>Frac CPS sands as follows:</b> Frac with 15618# 20/40 sand in 124 bbls Lightning 17 fluid.
8-21-09	4746-4778'	<b>Frac A1 sands as follows:</b> Frac with 60817# 20/40 sand in 358 bbls Lightning 17 fluid.
8-21-09	4557-4567'	<b>Frac B.5 sands as follows:</b> Frac with 15408# 20/40 sand in 124 bbls Lightning 17 fluid.
8-21-09	4350-4385'	<b>Frac D1 &amp; D2 sands as follows:</b> Frac with 61285# 20/40 sand in 360 bbls Lightning 17 fluid.
8-21-09	3831-3898'	<b>Frac GB4 &amp; GB5 sands as follows:</b> Frac with 84734# 20/40 sand in 506 bbls Lightning 17 fluid.
9/30/09		Pump Change. Updated rod & tubing details.
11/30/2009		Pump Change. Updated rod and tubing detail.
05/01/10		Pump Change. Updated rod and tubing detail.
07/23/11		Pump Change. Rods & tubing updated.

### PERFORATION RECORD

5569-5571'	3 JSPF	6 holes
5528-5534'	3 JSPF	18 holes
4775-4778'	3 JSPF	9 holes
4761-4766'	3 JSPF	15 holes
4746-4748'	3 JSPF	6 holes
4557-4567'	3 JSPF	30 holes
4382-4385'	3 JSPF	9 holes
4350-4354'	3 JSPF	12 holes
3893-3898'	3 JSPF	15 holes
3831-3835'	3 JSPF	12 holes



**Federal 13-19-9-16**  
588' FSL & 758' FWL SWSW  
Section 19-T9S-R16E  
Duchesne Co, Utah  
API # 43-013-33103; Lease # UTU-74391

## **WORK PROCEDURE FOR INJECTION CONVERSION**

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

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

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

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

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

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

See Attachment A.

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

Approval is requested to convert the Federal #13-19-9-16 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 #13-19-9-16 well, the proposed injection zone is from Garden Gulch to Basal Carbonate (3658' - 5654'). 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 3324' and the TD is at 5700'.

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

The referenced log for the Federal #13-19-9-16 is on file with the Utah Division of Oil, Gas and Mining.

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

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

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

See Attachment B.

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

See Attachment C.

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

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

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

This proposed injection well is on a Federal lease (Lease #UTU-74391) in the Monument Butte Federal (Green River) Field, and this request is for administrative approval.

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

- 1. Injection well shall be completed, equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.**
- 2. The application for an injection well shall include a properly completed Form DOGM-UIC-1 and the following:**
  - 2.1 A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed wells, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.**

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

All logs are on file with the Utah Division of Oil, Gas and Mining.
  - 2.3 A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.**

A copy of the cement bond log is on file with the Utah Division of Oil, Gas and Mining.
  - 2.4 Copies of logs already on file with the Division should be referenced, but need not be refiled.**

All copies of logs are on file with the Utah Division of Oil, Gas and Mining.
  - 2.5 A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.**

The casing program is 8-5/8", 24# surface casing run to 319' KB, and 5-1/2", 15.5# casing run from surface to 5697' KB. A casing integrity test will be conducted at the time of conversion. See Attachment E.
  - 2.6 A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.**

The primary type and source of fluid to be used for injection will be culinary water commingled with produced water. The estimated average rate of injection will be 300 BPD, and the estimated maximum rate of injection will be 500 BPD.
  - 2.7 Standard laboratory analysis of the fluid to be injected, the fluid in the formation into which the fluid is being injected, and the compatibility of the fluids.**

See Attachment F.

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

The proposed average injection pressure will be approximately 1100 psig and the maximum injection pressure will not exceed 1868 psig.

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

The minimum fracture gradient for the Federal #13-19-9-16, for existing perforations (3831' - 5571') calculates at 0.78 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 1868 psig. We may add additional perforations between 3324' and 5700'. See Attachments G and G-1.

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

In the Federal #13-19-9-16, the proposed injection zone (3658' - 5654') is in the Garden Gulch to the Basal Carbonate of the Green River Formation. The reservoir is a very fine-grained sandstone with minor imbedded shale streaks. The estimated porosity is 13%. The members are composed of porous and permeable lenticular calcareous sandstone and low porosity carbonates and calcareous shale. The porous and lenticular sandstone varies in thickness from 0-31' and is confined to the Monument Butte Federal Field. Outside the Monument Butte Federal Field, the sandstone is composed of tight, very fine, silty, calcareous sandstone, less than 3' thick. The stratum confining the injection zone is composed of tight, moderately calcareous, sandy lacustrine shale. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

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

See Attachments E through E-13.

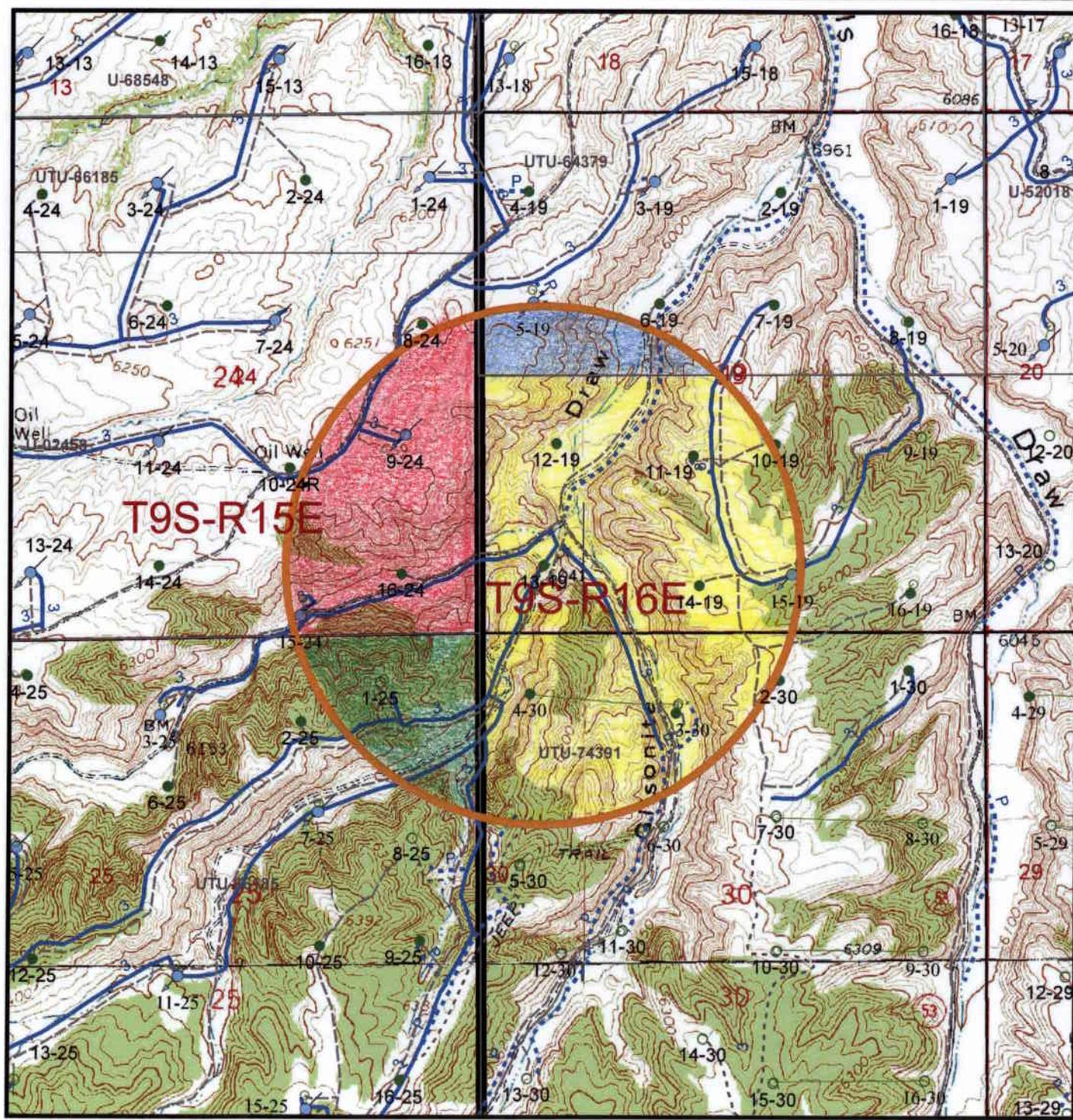
Additionally, the injection system will be equipped with high and low pressure shut down devices that will automatically shut in injection waters if a system blockage or leakage occurs. One way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure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

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

See Attachment C.

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

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



**WellStatus\_HalfMile\_Buffer**

**Well Status**

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

**Injection system**

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

Leases (white box)  
Mining tracts (orange box)

*UTU-74391*  
*UTU-64379*  
*UTU-002458*  
*UTU-66185*

Federal 13-19  
Section 19, T9S-R16E

**NEWFIELD**  
ROCKY MOUNTAINS 1 in = 1,500 feet

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

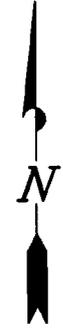
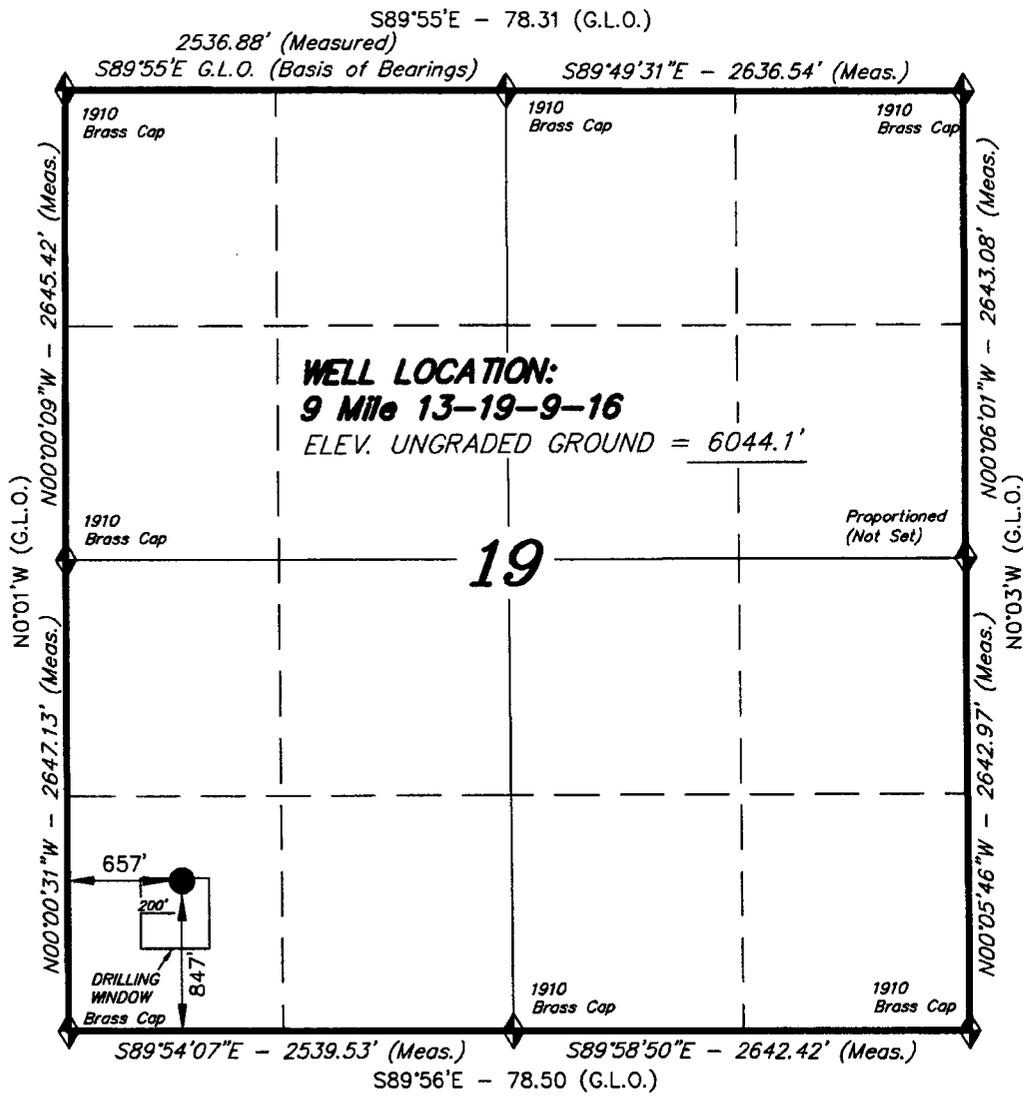
1001 17th Street Suite 2000  
Denver, Colorado 80202  
Phone: (303) 893-0102

December 18, 2012

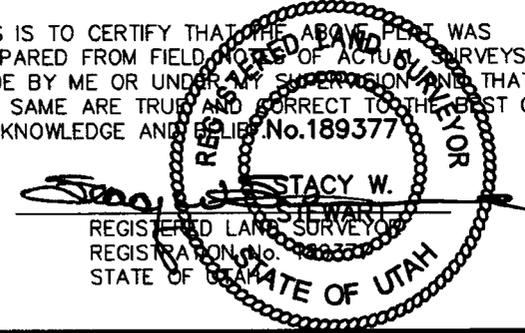
## T9S, R16E, S.L.B.&M.

### NEWFIELD PRODUCTION COMPANY

WELL LOCATION, 9 Mile 13-19-9-16,  
 LOCATED AS SHOWN IN THE SW 1/4 SW  
 1/4 OF SECTION 19, T9S, R16E,  
 S.L.B.&M. DUCHESNE COUNTY, UTAH.



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



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

**9 Mile 13-19-9-16**  
 (Surface Location) NAD 83  
 LATITUDE = 40° 00' 41.35"  
 LONGITUDE = 110° 10' 07.66"

<b>TRI STATE LAND SURVEYING &amp; CONSULTING</b>	
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078 (435) 781-2501	
DATE SURVEYED: 2-20-06	SURVEYED BY: C.M.
DATE DRAWN: 2-24-06	DRAWN BY: M.W.
REVISED:	SCALE: 1" = 1000'

**EXHIBIT B**

<b>#</b>	<b>Legal Description</b>	<b>Lessor &amp; Expiration</b>	<b>Lessee &amp; Operating Rights</b>	<b>Surface Owner</b>
1	T9S-R16E SLM Section 19: E2SW, SE, LOTS 3, 4 Section 20: S2 Section 29: All Section 30: All	USA UTU-74391 HBP	Newfield Production Company Newfield RMI LLC ABO Petroleum Corp MYCO Industries Inc OXY Y-1 Company Yates Petroleum Corp	USA
2	T9S-R16E SLM Section 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-R15E SLM Section 22: E2SW, LOTS 2, 3, 4 Section 23: NENE, W2E2, S2NW, E2SW Section 24: N2N2 Section 25: All Section 26: NE, NENW, S2NW, S2 Section 27: S2NE, E2NW, SE, LOTS 1, 2	USA UTU-66185 HBP	Newfield Production Company Newfield RMI LLC	USA
4	T9S-R15E SLM Section 23: SENE, W2SW, NESE Section 24: S2N2, S2	USA UTU-002458 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 #13-19-9-16

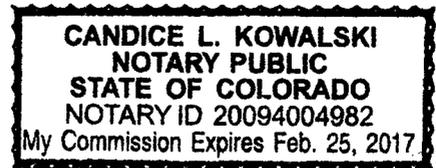
I hereby certify that a copy of the injection application has been provided to all surface owners within a one-half mile radius of the proposed injection well.

Signed:   
Newfield Production Company  
Eric Sundberg  
Environmental Manager

Sworn to and subscribed before me this 4<sup>th</sup> day of June, 2013.

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

My Commission Expires: My Commission Expires Feb. 25, 2017



## Federal 13-19-9-16

Spud Date:  
Put on Production:  
GL: 6044' KB: 6056'

### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (307.17')  
DEPTH LANDED: 319.02'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt

#### PRODUCTION CASING

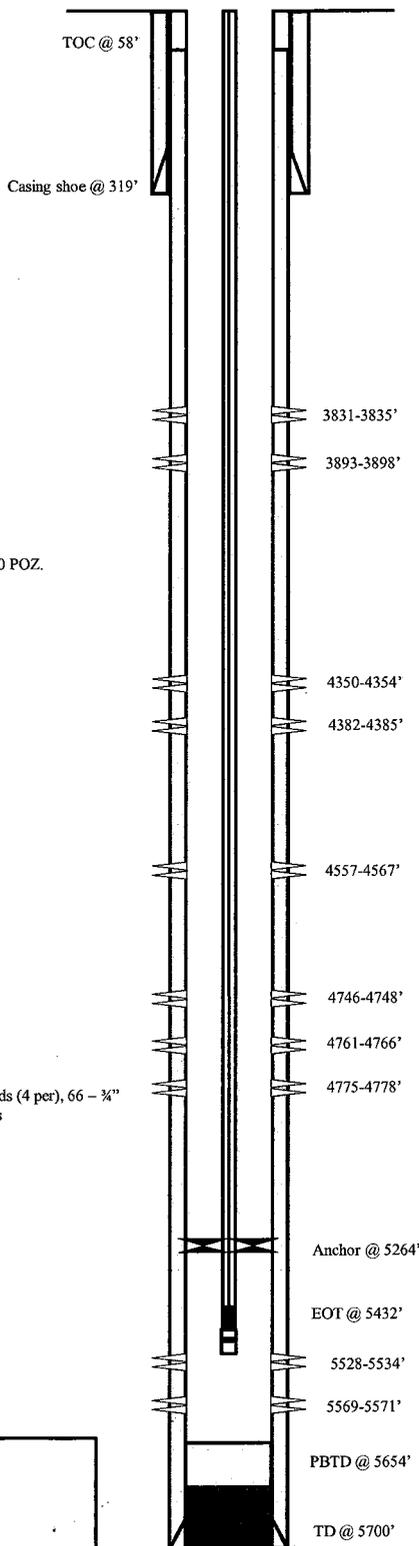
CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 143 jts. (5642.16')  
HOLE SIZE: 7-7/8"  
DEPTH LANDED: 5696.9'  
CEMENT DATA: 275 sx Prem. Lite II mixed & 400 sx 50/50 POZ.  
CEMENT TOP AT: 58'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 167 jts (5251.5')  
TUBING ANCHOR: 5264'  
NO. OF JOINTS: 1 jts (31.7')  
SEATING NIPPLE: 2-7/8" (1.1')  
SN LANDED AT: 5298' KB  
NO. OF JOINTS: 1 jts (31.6'), 3 jts (94.5')  
GAS ANCHOR: 5330.7  
TOTAL STRING LENGTH: EOT @ 5432'

#### SUCKER RODS

POLISHED ROD: 1 1/2" x 26'  
SUCKER RODS: 1 - 3/4" x 2' pony rods, 109 - 3/8" guided rods (4 per), 66 - 3/4" sucker rods, 30 - 3/4" guided rods (4 per), 6 - 1 1/2" Sinker bars  
PUMP SIZE: 2 1/2 x 1 1/2 x 20' RHAC  
STROKE LENGTH: 68"  
PUMP SPEED: SPM 6



#### FRAC JOB

8-21-09	5528-5571'	<b>Frac CP5 sands as follows:</b> Frac with 15618# 20/40 sand in 124 bbls Lightning 17 fluid.
8-21-09	4746-4778'	<b>Frac A1 sands as follows:</b> Frac with 60817# 20/40 sand in 358 bbls Lightning 17 fluid.
8-21-09	4557-4567'	<b>Frac B,5 sands as follows:</b> Frac with 15408# 20/40 sand in 124 bbls Lightning 17 fluid.
8-21-09	4350-4385'	<b>Frac D1 &amp; D2 sands as follows:</b> Frac with 61285# 20/40 sand in 360 bbls Lightning 17 fluid.
8-21-09	3831-3898'	<b>Frac GB4 &amp; GB5 sands as follows:</b> Frac with 84734# 20/40 sand in 506 bbls Lightning 17 fluid.

9/30/09	Pump Change. Updated rod & tubing details.
11/30/2009	Pump Change. Updated rod and tubing detail.
05/01/10	Pump Change. Updated rod and tubing detail.
07/23/11	Pump Change. Rods & tubing updated.

#### PERFORATION RECORD

5569-5571'	3 JSPP	6 holes
5528-5534'	3 JSPP	18 holes
4775-4778'	3 JSPP	9 holes
4761-4766'	3 JSPP	15 holes
4746-4748'	3 JSPP	6 holes
4557-4567'	3 JSPP	30 holes
4382-4385'	3 JSPP	9 holes
4350-4354'	3 JSPP	12 holes
3893-3898'	3 JSPP	15 holes
3831-3835'	3 JSPP	12 holes

**NEWFIELD**



**Federal 13-19-9-16**  
588' FSL & 758' FWL SWSW  
Section 19-T9S-R16E  
Duchesne Co, Utah  
API # 43-013-33103; Lease # UTU-74391

## Federal 4-30-9-16

Spud Date: 8-15-10  
 Put on Production: 9-23-10  
 GL: 6068' KB: 6080'

### Wellbore Diagram

### FRAC JOB

#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 8 jts. (335.81')  
 DEPTH LANDED: 349.66'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 180 sxs Class "G" cmt

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 141 jts. (5942.38')  
 HOLE SIZE: 7-7/8"  
 DEPTH LANDED: 5958.38'  
 CEMENT DATA: 250 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP AT: 92'

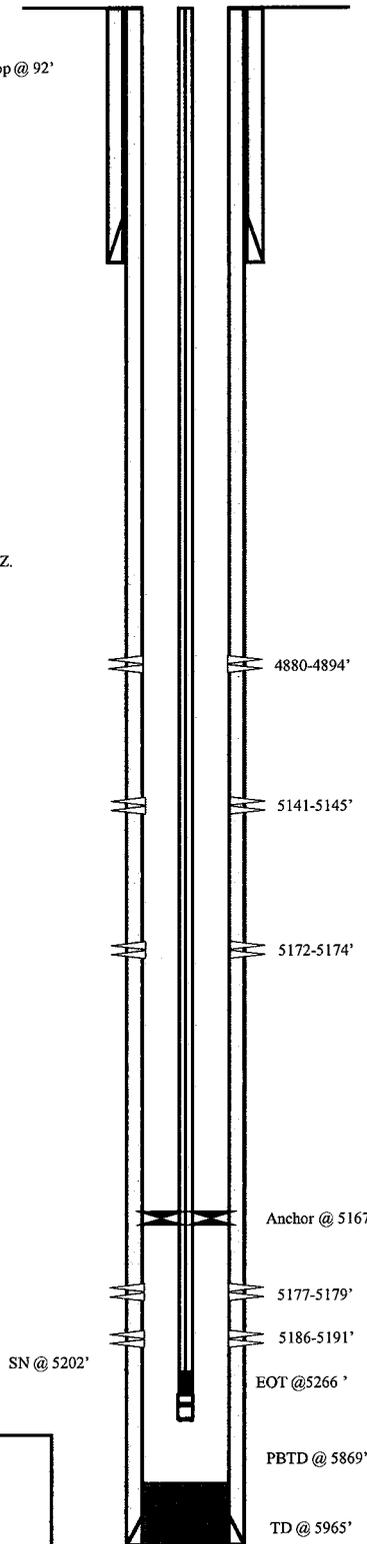
#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 165 jts (5154.4')  
 TUBING ANCHOR: 5167.4'  
 NO. OF JOINTS: 1 jts (31.4')  
 SEATING NIPPLE: 2-7/8" (1.1')  
 SN LANDED AT: 6738.3' KB  
 NO. OF JOINTS: 2 jts (62.8')  
 TOTAL STRING LENGTH: EOT @ 5266'

#### SUCKER RODS

POLISHED ROD: 1-1/2" x 30'  
 SUCKER RODS: 202-4 per guided rods, 4- 1 1/2" weight bars  
 PUMP SIZE: 2 1/2 x 1 3/4' x 24' RHAC  
 STROKE LENGTH: 144  
 PUMP SPEED: SPM 5

Cement Top @ 92'



9-14-10 5141-5191'

Frac LODC sands as follows: Frac with 46141# 20/40 sand in 292 bbls lightning 17 fluid.

9-18-10 4880-4894'

Frac A1 sands as follows: Frac with 63340# 20/40 sand in 420 bbls Lightning 17 fluid.

### PERFORATION RECORD

5186-5191'	3 JSPF	15 holes
5177-5179'	3 JSPF	6 holes
5172-5174'	3 JSPF	6 holes
5141-5145'	3 JSPF	12 holes
4880-4894'	3 JSPF	42 holes

**NEWFIELD**



**Federal 4-30-9-16**  
 769' FNL & 2034' FWL (NE/NW)  
 Section 30, T9S, R16  
 Duchesne Co, Utah  
 API # 43-013-33470; Lease # UTU-74391

## Federal 3-30-9-16

Spud Date: 5/16/2009  
 Put on Production: 7/1/2009  
 GL: 6067' KB: 6079'

### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (277')  
 DEPTH LANDED: 328' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sx class 'G' cmt

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 152 jts (5704')  
 DEPTH LANDED: 5704'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 280 sx Prem. Lite and 400 sx 50/50 poz  
 CEMENT TOP AT: 54'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55  
 NO. OF JOINTS: 172 jts (5288')  
 TUBING ANCHOR: 5300' KB  
 NO. OF JOINTS: 1 jt (30.3')  
 SEATING NIPPLE: 2-7/8" (1.1')  
 SN LANDED AT: 5333.3' KB  
 NO. OF JOINTS: 2 jts (61.6')  
 TOTAL STRING LENGTH: EOT @ 5396'

#### SUCKER RODS

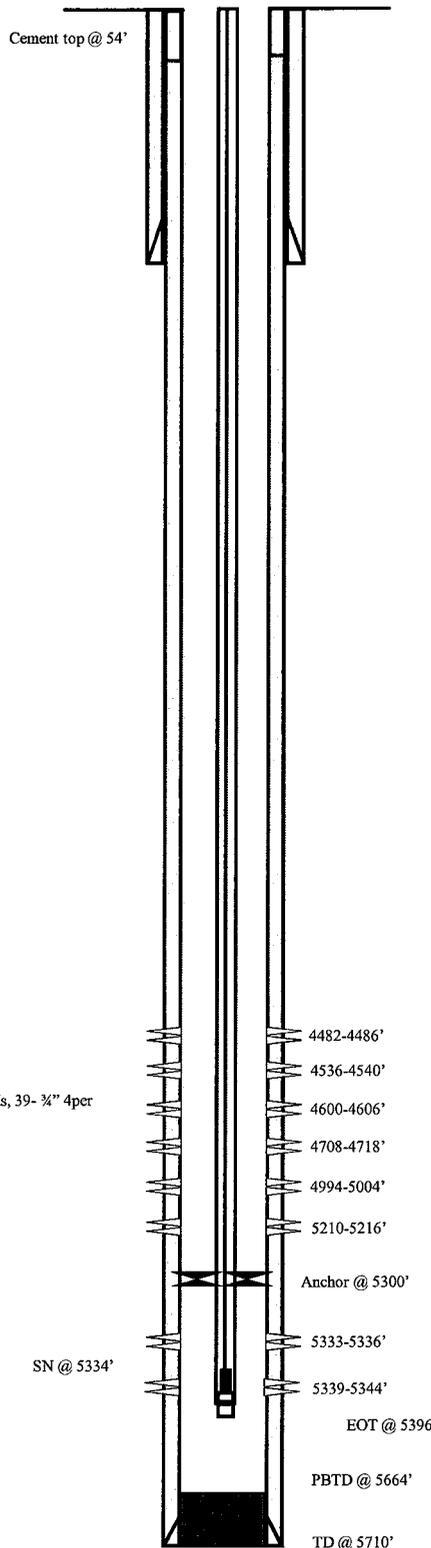
POLISHED ROD: 1 1/2" x 26'  
 SUCKER RODS: 100 - 3/4" 4per guided rods, 68 - 3/4" sucker rods, 39 - 3/4" 4per guided rods, 6 - 1 1/2" weight bars.  
 PUMP SIZE: 2 1/2" x 1 1/2" x 16' x 20' RHAC  
 STROKE LENGTH: 120  
 PUMP SPEED, SPM: 4

#### FRAC JOB

7/2/2009 5333-5344' Frac CP3 sands as follows:  
 15,090#'s of 20/40 sand in 125 bbls of Lightning 17 fluid.  
 7/2/2009 5210-5216' Frac CP1 sands as follows:  
 15,050#'s of 20/40 sand in 122 bbls of Lightning 17 fluid.  
 7/2/2009 4994-5004' Frac LODC sands as follows:  
 40,814#'s of 20/40 sand in 263 bbls of Lightning 17 fluid.  
 7/2/2009 4708-4718' Frac A1 sands as follows:  
 55,392#'s of 20/40 sand in 348 bbls of Lightning 17 fluid.  
 7/2/2009 4482-4606' Frac B2/B.5/C sands as follows:  
 127,786#'s of 20/40 sand in 765 bbls of Lightning 17 fluid.  
 1/28/2012 Parted rods: Updated tubing & rod detail

#### PERFORATION RECORD

5339-5344'	3 JSPF	15 holes
5333-5336'	3 JSPF	9 holes
5210-5216'	3 JSPF	18 holes
4994-5004'	3 JSPF	30 holes
4708-4718'	3 JSPF	30 holes
4600-4606'	3 JSPF	18 holes
4536-4540'	3 JSPF	12 holes
4482-4486'	3 JSPF	12 holes



**NEWFIELD**

---

**Federal 3-30-9-16**

749' FNL & 2042' FWL NE/NW

Section 30-T9S-R16E

Duchesne Co, Utah

API # 43-013-33454; Lease # UTU-74391

## Federal 2-30-9-16

Spud Date: 6/8/2009  
 Put on Production: 7/10/2009  
 GL: 6238' KB: 6250'

### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (269')  
 DEPTH LANDED: 317' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sx class 'G' cmt

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 148 jts (5812')  
 DEPTH LANDED: 5862'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 275 sx Prem. Lite and 400 sx 50/50 poz  
 CEMENT TOP AT: 54'

#### TUBING

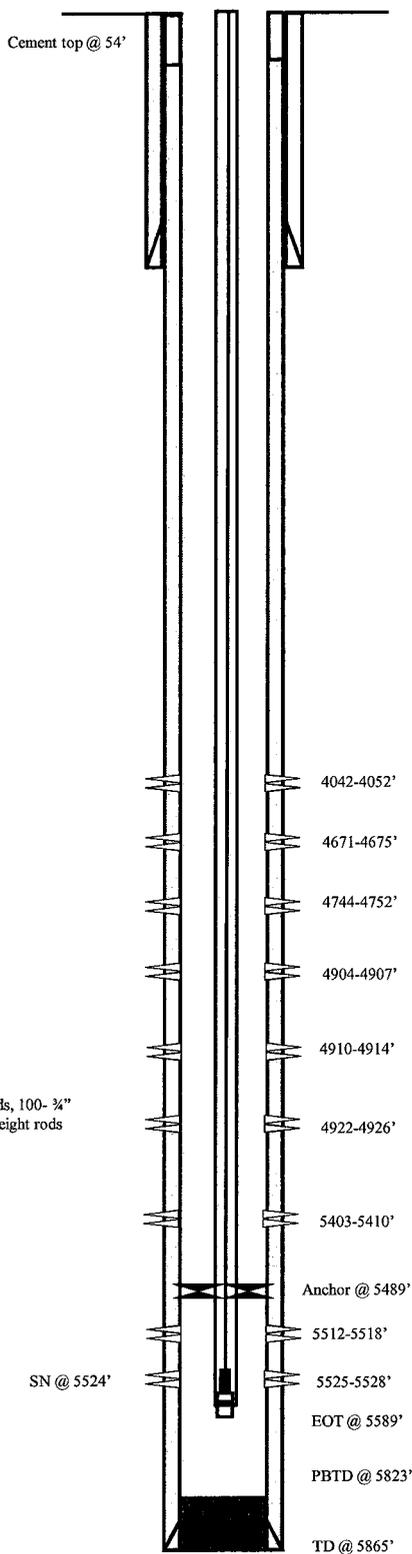
SIZE/GRADE/WT.: 2-7/8" / J-55  
 NO. OF JOINTS: 174 jts (5477')  
 TUBING ANCHOR: 5489' KB  
 NO. OF JOINTS: 1 jt (31.5')  
 SEATING NIPPLE: 2-7/8" (1.1')  
 SN LANDED AT: 5524' KB  
 NO. OF JOINTS: 2 jts (63.3')  
 TOTAL STRING LENGTH: EOT @ 5589'

#### SUCKER RODS

POLISHED ROD: 1 1/2" x 26' polished rod  
 SUCKER RODS: 1 - 2' x 3/4", 1 - 4' x 3/4", 1 - 6' x 3/4" pony rods, 100 - 3/4" guided rods, 94 - 3/4" sucker rods, 2 - 3/4" guided rods, 6 - 1 1/2" weight rods  
 PUMP SIZE: 2 1/2" x 1 1/2" x 20' RHAC  
 STROKE LENGTH: 86  
 PUMP SPEED - SPM: 5

#### FRAC JOB

7/10/2009	5512-5528'	<b>Frac CP3 sands as follows:</b> 14,703#s of 20/40 sand in 130 bbls of Lightning 17 fluid.
7/10/2009	5403-5410'	<b>Frac CPI sands as follows:</b> 20,309#s of 20/40 sand in 169 bbls of Lightning 17 fluid.
7/10/2009	4904-4926'	<b>Frac A1 sands as follows:</b> 25,710#s of 20/40 sand in 209 bbls of Lightning 17 fluid.
7/10/2009	4671-4752'	<b>Frac B.5 &amp; C sands as follows:</b> 125,658#s of 20/40 sand in 758 bbls of Lightning 17 fluid.
7/10/2009	4042-4052'	<b>Frac GB6 sands as follows:</b> 106,827#s of 20/40 sand in 651 bbls of Lightning 17 fluid.



#### PERFORATION RECORD

5525-5528'	3 JSPF	9 holes
5512-5518'	3 JSPF	18 holes
5403-5410'	3 JSPF	21 holes
4922-4926'	3 JSPF	12 holes
4910-4914'	3 JSPF	12 holes
4904-4907'	3 JSPF	9 holes
4744-4752'	3 JSPF	24 holes
4671-4675'	3 JSPF	12 holes
4042-4052'	3 JSPF	30 holes

**NEWFIELD**

---

**Federal 2-30-9-16**

517' FNL & 2110' FEL NW/NE

Section 30-T9S-R16E

Duchesne Co, Utah

API # 43-013-33453; Lease # UTU-74391

## FEDERAL 15-19-9-16

Spud Date: 10/29/07  
 Put on Production: 02/07/08  
 GL:6218' KB:6230'

### Injection Wellbore Diagram

#### SURFACE CASING

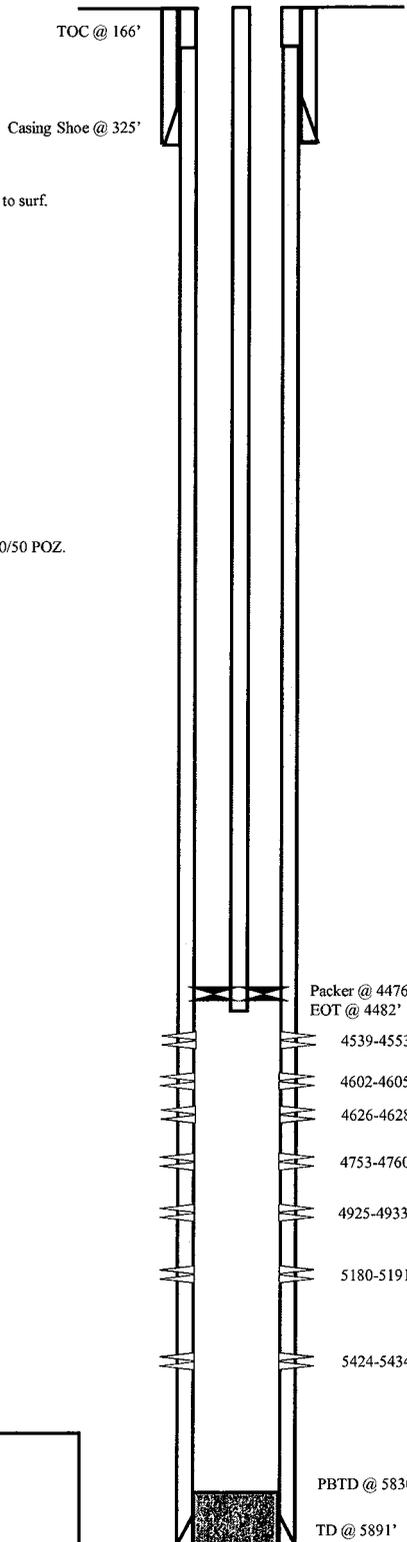
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (312.36')  
 DEPTH LANDED: 324.84' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 1- 160, sxs Class "G" cmt, est 5 bbls cmt to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 136 jts. (5854.09')  
 DEPTH LANDED: 5867.67' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 325 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 142 jts (4459.0')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4480.8' KB  
 CE @ 4475.61'  
 TOTAL STRING LENGTH: EOT @ 4482.' KB



#### FRAC JOB

02/01/08	5424-5434'	<b>Frac CP1 sands as follows:</b> 19731# 20/40 sand in 327 bbls Lightning 17 frac fluid. Treated @ avg press of 1909 psi w/avg rate of 15.2 BPM. ISIP 2009 psi.
02/01/08	5180-5191'	<b>Frac LODC sands as follows:</b> 29863# 20/40 sand in 404 bbl Lightning 17 frac fluid. Treated @ avg press of 2361 psi w/avg rate of 22.1 BPM. ISIP 2460 psi.
02/01/08	4925-4933'	<b>Frac A1 sands as follows:</b> 15194# 20/40 sand in 274 bbls Lightning 17 frac fluid. Treated @ avg press of 2440 psi w/avg rate of 21.6 BPM. ISIP 2237 psi.
02/01/08	4753-4760'	<b>Frac B.5 sands as follows:</b> 25716# 20/40 sand in 345 bbls Lightning 17 frac fluid. Treated @ avg press of 2072 psi w/avg rate of 22.0 BPM. ISIP 2020 psi.
02/01/08	4539-4553'	<b>Frac D1 sands as follows:</b> 46601# 20/40 sand in 439 bbls Lightning 17 frac fluid. Treated @ avg press of 1712 psi w/avg rate of 22.0 BPM. ISIP 1930 psi.
10/2/09		<b>Tubing Leak.</b> Updated rod & tubing details.
06/28/11		<b>Parted Rods.</b> Rods & tubing updated.
05/29/12	4602-4626'	<b>Frac D3 &amp; D2 sands as follows:</b> 18461# 20/40 sand in 292 bbls Lightning 17 frac fluid
05/30/12		<b>Convert to Injection Well</b>
06/01/12		<b>Conversion MIT Finalized</b> - update tbg detail

#### PERFORATION RECORD

5424-5434'	4 JSPF	40 holes
5180-5191'	4 JSPF	44 holes
4925-4933'	4 JSPF	32 holes
4753-4760'	4 JSPF	28 holes
4539-4553'	4 JSPF	56 holes
5-29-12 4626-4628'	3 JSPF	6 holes
5-29-12 4602-4605'	3 JSPF	9 holes



**NEWFIELD**

**FEDERAL 15-19-9-16**

711' FSL & 1888' FEL

SW/SE Section 19-T9S-R16E

Duchesne Co, Utah

API #43-013-33162; Lease # UTU-74391

## FEDERAL 14-19-9-16

Spud Date: 01/23/07  
 Put on Production: 02/27/07  
 GL: 6245' KB: 6257'

Initial Production: BOPD,  
 MCFD, BWPD

Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (310.59')  
 DEPTH LANDED: 322.44' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 2.25 bbls cmt to surf.

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 137 jts. (5979.73')  
 DEPTH LANDED: 5992.98' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
 CEMENT TOP: 136'

**TUBING**

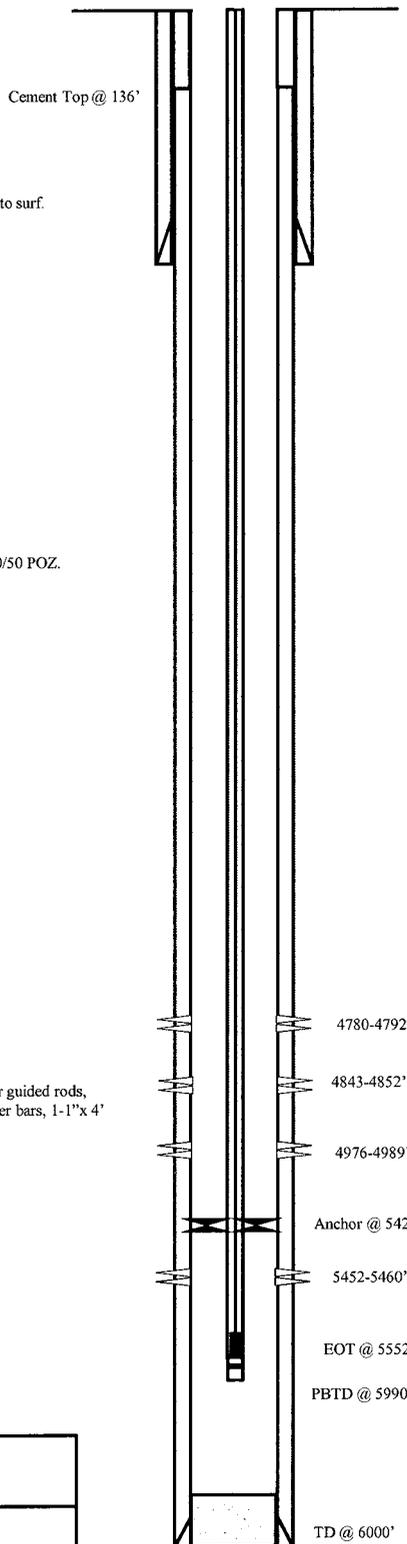
SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 174 jts (5415.22')  
 TUBING ANCHOR: 5427' KB  
 NO. OF JOINTS: 2 jts (60.30')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5490' KB  
 NO. OF JOINTS: 2 jts (60.4')  
 TOTAL STRING LENGTH: EOT @ 5552' KB

**SUCKER RODS**

POLISHED ROD: 1-1/2" x 22' SM polished rods  
 SUCKER RODS: 1-2' & 1-6' x 3/4" pony rods, 99-3/4" 4 per guided rods, 103-3/4" sucker rods, 10-3/4" 4 per guided rods, 6-1 1/2" x sinker bars, 1-1" x 4' pony rod, 1-3/4" x 8' pony rod  
 PUMP SIZE: CDI 2-1/2" x 1-1/2" x 12' x 16' RHAC  
 STROKE LENGTH: 86"  
 PUMP SPEED, 4. SPM:

**FRAC JOB**

02/21/07 5452-5460'  02/21/07 4976-4989'  02/22/07 4780-4852'  03-29-07 Pump Change 01/28/11	<p><b>Frac CP1 sands as follows:</b>                  34903# 20/40 sand in 471 bbls Lightning 17 frac fluid. Treated @ avg press of 2080 psi w/avg rate of 24.8 BPM. ISIP 1839 psi. Calc flush: 5450 gal. Actual flush: 4872 gal.</p> <p><b>Frac A1 sands as follows:</b>                  80502# 20/40 sand in 597 bbls Lightning 17 frac fluid. Treated @ avg press of 2245 psi w/avg rate of 24.6 BPM. ISIP 2369 psi. Calc flush: 4974 gal. Actual flush: 4536 gal.</p> <p><b>Frac B1 &amp; B2 sands as follows:</b>                  159255# 20/40 sand in 1026 bbls Lightning 17 frac fluid. Treated @ avg press of 1675 psi w/avg rate of 24.8 BPM. ISIP 1790 psi. Calc flush: 4778 gal. Actual flush: 4662 gal.</p> <p>Rod &amp; Tubing details updated.                  Parted Rods. Rod &amp; tubing updated.</p>
---	---



**PERFORATION RECORD**

Date	Interval	Tool	Holes
02/16/07	5452-5460'	4 JSPF	32 holes
02/21/07	4976-4989'	4 JSPF	52 holes
02/21/07	4843-4852'	4 JSPF	36 holes
02/21/07	4780-4792'	4 JSPF	48 holes

**NEWFIELD**

---

**FEDERAL 14-19-9-16**

452'FSL & 2258' FWL

SE/SW Section 19-T9S-R16E

Duchesne Co, Utah

API #43-013-33161; Lease # UTU-74391

Spud Date: 9/27/2007  
 Put on Production: 1/9/2008  
 GL:6181' KB:6193'

## Federal 10-19-9-16

Initial Production: BOPD, MCFD, BWPD

Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7jts (311.69')  
 DEPTH LANDED: 321.69'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160sxs of class 'G' cement, circ 2 bbls to surf

### PRODUCTION CASING

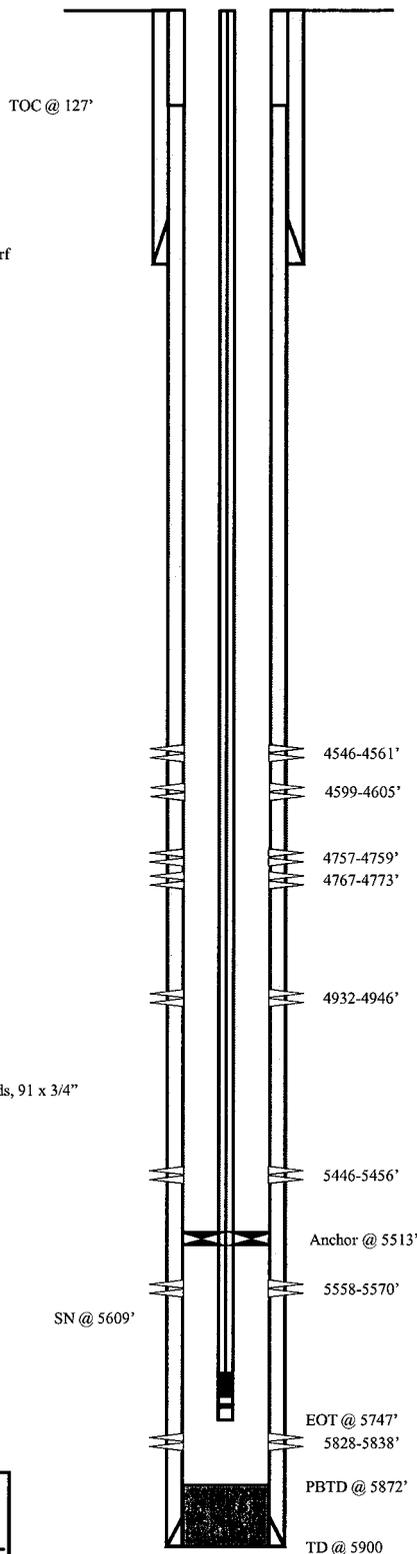
CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 152jts (5894.79')  
 HOLE SIZE: 7-7/8"  
 DEPTH LANDED: 5883.99'  
 CEMENT DATA: 300sxs of Primlite II & 400sxs of 50/50 poz  
 CEMENT TOP AT: 127' per CBL 12/5/07

### TUBING (KS 11/29/12)

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 169jts (5501.0')  
 TUBING ANCHOR: 5513.0'  
 NO. OF JOINTS: 3jts (93.8')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5609.6'  
 NO. OF JOINTS: 1jt (32.7')  
 GAS ANCHOR: 5-1/2" (5.2')  
 NIPPLE: 2-7/8" (0.6')  
 NO. OF JOINTS: 3jts (97.6')  
 BULL PLUG: 2-7/8" (0.4')  
 TOTAL STRING LENGTH: BOT @ 5747'

### SUCKER RODS (KS 11/29/12)

POLISHED ROD: 26' x 1-1/2"  
 SUCKER RODS: 4', 8' x 3/4" Pony Rods, 99 x 3/4" Guided Rods, 91 x 3/4"  
 Sucker Rods, 27 x 3/4" Guided Rods, 6 x 1-1/2" Sinker Bars  
 PUMP SIZE: 2-1/2" x 1-1/2" x 20' x 24' RHAC  
 STROKE LENGTH: 103"  
 PUMP SPEED, SPM: 5.0  
 PUMPING UNIT: DARCO C-320-256-120



### FRAC JOB

12/14/07 5828'-5838' **Frac BS sds** w/ 37,662#s of 20/40 sand in 535 bbls of Lightning 17 fluid. Broke @ 3685 psi. Treated w/ ave pressure of 2385 psi w/ ave rate of 23.5 BPM. ISIP 2409 psi. Calc Flush: ? Actual flush: 5321 gals.

12/14/07 5558'-5570' **Frac CP3 sds** w/ 39,505#s of 20/40 sand in 465 bbls of Lightning 17 fluid. Broke @ 1750 psi. Treated w/ ave pressure of 2332 psi w/ ave rate of 20.6 BPM. ISIP 2282 psi. Calc flush: Actual Flush: 5048 gals.

12/14/07 5446'-5456' **Frac CPI sds** w/ 50,243#s of 20/40 sand in 456 bbls of Lightning 17 fluid. Broke @ 1969 psi. Treated w/ ave pressure of 2121 psi w/ ave rate of 20.6 BPM. ISIP 2179 psi. Calc Flush: ? Actual Flush: 4855 gals.

12/14/07 4546'-4561' **Frac D1 & D2 sds** w/ 73,020#s of 20/40 sand in 652 bbls of Lightning 17 fluid. Broke @ 1605 psi. Treated w/ ave pressure of 1792 psi w/ ave rate of 20.7 BPM. ISIP 2037 psi. Calc flush: ? Actual Flush: 4460 gals.

10-1-08 Pump Change updated rod & tubing details.  
 10-01-10 Recompletion  
 9-28-10 4932-4561' Frac w/44516# of Frac A1 20/40 sand on 255bbls of lightning 17 fluid.  
 9-28-10 4767-4773' Frac w/50785# of Frac A1 20/40 sand on 287bbls of lightning 17 fluid

### PERFORATION RECORD

12/06/07	5828-5838'	4 JSPF	40 holes
12/14/07	5558-5570'	4 JSPF	48 holes
12/14/07	5446-5456'	4 JSPF	40 holes
9/28/10	4932-4946'	4 JSPF	42 holes
9/28/10	4767-4773'	4 JSPF	18holes
9/28/10	4757-4759'	4 JSPF	6 holes
12/14/07	4599-4605'	4 JSPF	24 holes
12/14/07	4546-4561'	4 JSPF	60 holes

**NEWFIELD**

**Federal 10-19-9-16**  
 1890' FSL & 2146' FEL  
 NW/SE Section 19-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33159; Lease #UTU-74391

## Federal 11-19-9-16

Spud Date: 10-09-07  
 Put on Production: 1-8-08  
 GL: 6199' KB: 6211'

### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (310.34')  
 DEPTH LANDED: 320.34'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, circ. 8 bbl to surf.

#### PRODUCTION CASING

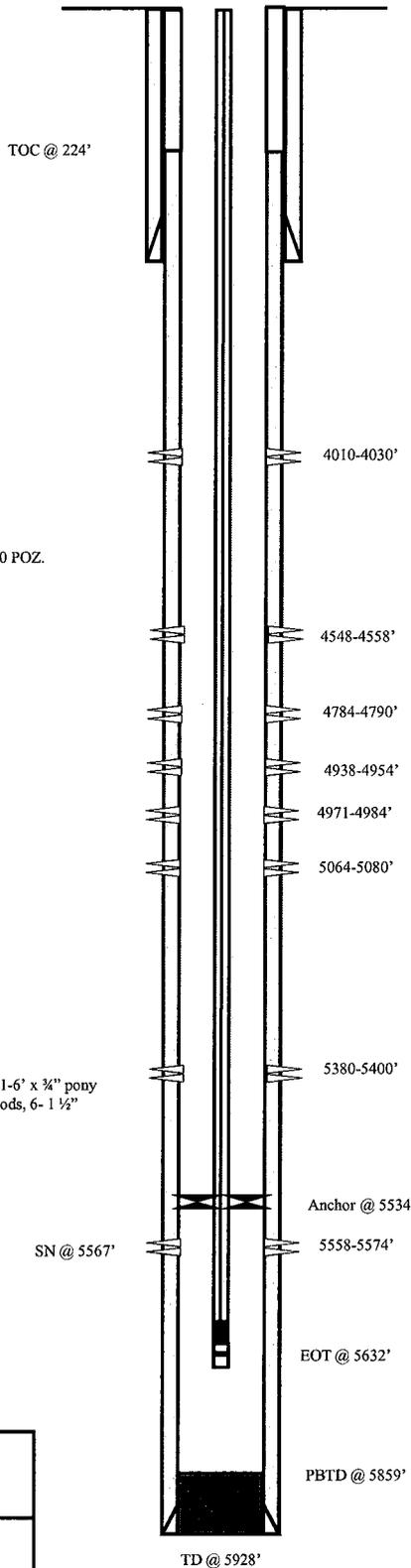
CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 152jts. (5907.45')  
 HOLE SIZE: 7-7/8"  
 DEPTH LANDED: 5905.45'  
 CEMENT DATA: 300 sk Prem. Lite II mixed & 450 sxs 50/50 POZ.  
 CEMENT TOP AT: 224' per CBL 12/14/07

#### TUBING (GI 12/15/11)

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 176 jts (5521.9)  
 TUBING ANCHOR: 5533.9'  
 NO. OF JOINTS: 1 jts (30.1')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5566.8'  
 NO. OF JOINTS: 2 jts (62.70')  
 NOTCHED COLLAR: 2-7/8" (0.5')  
 TOTAL STRING LENGTH: EOT @ 5632'

#### SUCKER RODS (GI 12/15/11)

POLISHED ROD: 1-1/2" x 26'  
 SUCKER RODS: 1-2' x 3/4" pony rods, 1-4' x 3/4" pony rods, 1-6' x 3/4" pony rods, 87- 3/4" guided rods, 89- 3/4" sucker rods, 38- 3/4" guided rods, 6- 1 1/2" weight rods.  
 PUMP SIZE: 2-1/2" x 1-1/2" x 16' x 20 RHAC Pump  
 STROKE LENGTH: 102"  
 PUMP SPEED, SPM: 5  
 PUMPING UNIT: DARCO C-320-256-120



#### FRAC JOB

12-26-07	5558-5574'	<b>Frac CP2 sands as follows:</b> Frac with 59775# 20/40 sand in 533bbbs Lightning 17 fluid. Treat at 1825 psi @ 23 BPM. ISIP 2111 psi.
12-26-07	5380-5400'	<b>Frac LODC sands as follows:</b> Frac with 59263# 20/40 sand in 528 bbbs Lightning 17 fluid. Treat at 2001psi @ 23.1 BPM. ISIP 2364psi.
12-27-7	5064-5080'	<b>Frac LODC sands as follows:</b> Frac with 75331# 20/40 sand in 618 bbbs Lightning 17 fluid. Treat at 2507 psi @ 29.1 BPM. ISIP 2905 psi.
12-27-07	4938-4984'	<b>Frac A3 &amp; A1 sand as follows:</b> Frac with 110221# 20/40 sand in 881 bbbs Lightning 17 fluid. Treat at 1743 psi @ 23 BPM. ISIP 2079 psi.
12-27-07	4784-4790'	<b>Frac B.5 sands as follows:</b> Frac with 20091# 20/40 sand in 301 bbbs Lightning 17 fluid. Treat at 2034 psi @ 23 BPM. ISIP 2027 psi.
12-27-07	4548-4558'	<b>Frac D1 sands as follows:</b> Frac with 50552# 20/40 sand in 442 bbbs Lightning 17 fluid. Treat at 1639 psi @ 23.1 BPM. ISIP 2088 psi.
12-27-07	4010-4030'	<b>Frac GB4 sands as follows:</b> Frac with 44039# 20/40 sand in 416 bbbs Lightning 17 fluid. Treat at 1391 psi @ 23 BPM. ISIP 1434 psi.
9-16-08		Parted rod. Updated rod & tubing details.
6/15/09		Tubing Leak. Updated r & t details.

#### PERFORATION RECORD

4010-4030'	4 JSPF	80 holes
4548-4558'	4 JSPF	40 holes
4784-4790'	4 JSPF	24 holes
4938-4954'	4 JSPF	64 holes
4971-4984'	4 JSPF	52 holes
5064-5080'	4 JSPF	64 holes
5380-5400'	4 JSPF	80 holes
5558-5574'	4 JSPF	64 holes



**NEWFIELD**

**Federal 11-19-9-16**  
 1778' FSL & 2197' FWL  
 NESW Section 19-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33160; Lease #UTU-74391

## FEDERAL 12-19-9-16

Spud Date: 05/04/07  
 Put on Production: 03/28/07  
 GL: 6024' KB: 6036'

Initial Production: BOPD,  
 MCFD, BWPD

### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (312.23')  
 DEPTH LANDED: 324.08' 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: 131 jts. (5741.84')  
 DEPTH LANDED: 5744.09' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 325 sxs Prem. Lite II mixed & 451 sxs 50/50 POZ.

#### TUBING

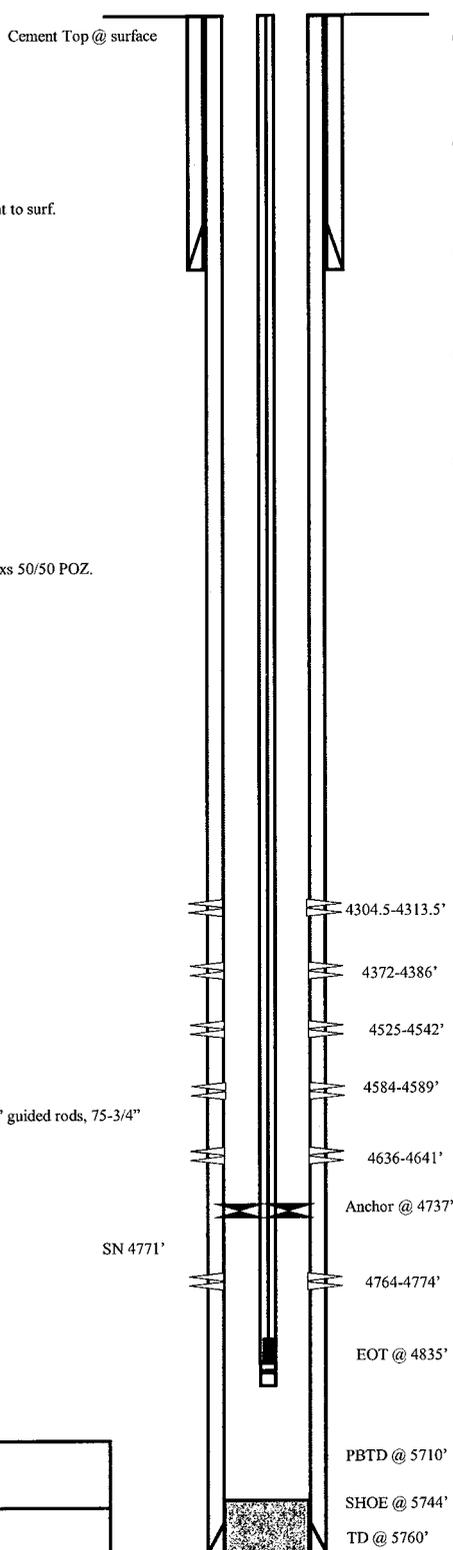
SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 148 jts (4724.60')  
 TUBING ANCHOR: 4736.60' KB  
 NO. OF JOINTS: 1 jts (31.37')  
 SEATING NIPPLE: 2-7/8" (1.10")  
 SN LANDED AT: 4770.77' KB  
 NO. OF JOINTS: 2 jts (63.07')  
 TOTAL STRING LENGTH: EOT @ 4835.39' KB

#### SUCKER RODS

POLISHED ROD: 1-1/2" x 26' SM polished rods  
 SUCKER RODS: 1-6' & 1-8' x 3/4" pony rods, 99-3/4" guided rods, 75-3/4" plain rods, 10-3/4" guided rods, 6-1 1/2" weight rods.  
 PUMP SIZE: CDI 2-1/2" x 1-1/2" x 20" RHAC  
 STROKE LENGTH: 102"  
 PUMP SPEED, 5 SPM:

#### FRAC JOB

06/06/07	4764-4774'	<b>Frac A1 sands as follows:</b> 49572# 20/40 sand in 420 bbls Lightning 17 frac fluid. Treated @ avg press of 2181 psi w/avg rate of 24.7 BPM. ISIP 2446 psi. Calc flush: 4762 gal. Actual flush: 4301 gal.
06/06/07	4636-4584'	<b>Frac B2 &amp; B1 sands as follows:</b> 14528# 20/40 sand in 232 bbls Lightning 17 frac fluid. Treated @ avg press of 2162 psi w/avg rate of 24.7 BPM. ISIP 1790 psi. Calc flush: 4634 gal. Actual flush: 4141 gal.
06/06/07	4525-4542'	<b>Frac C sands as follows:</b> 99094# 20/40 sand in 695 bbls Lightning 17 frac fluid. Treated @ avg press of 2017 psi w/avg rate of 24.7 BPM. ISIP 2342 psi. Calc flush: 4523 gal. Actual flush: 4040 gal.
06/06/07	4372-4386'	<b>Frac D1 sands as follows:</b> 93828# 20/40 sand in 683 bbls Lightning 17 frac fluid. Treated @ avg press of 1800 psi w/avg rate of 24.7 BPM. ISIP 2241 psi. Calc flush: 4370 gal. Actual flush: 3919 gal.
06/06/07	4304.5-4313.5'	<b>Frac DS3 sands as follows:</b> 17586# 20/40 sand in 243 bbls Lightning 17 frac fluid. Treated @ avg press of 2345 psi w/avg rate of 24.7 BPM. ISIP 2607 psi. Calc flush: 4302.5 gal. Actual flush: 4242 gal.



#### PERFORATION RECORD

06/06/07	4764-4774'	4 JSPF	40 holes
06/06/07	4636-4641'	4 JSPF	20 holes
06/06/07	4584-4589'	4 JSPF	20 holes
06/06/07	4525-4542'	4 JSPF	68 holes
06/06/07	4372-4386'	4 JSPF	56 holes
06/06/07	4304.5-4313.5'	4 JSPF	36 holes

**NEWFIELD**

---

**FEDERAL 12-19-9-16**

1903'FSL & 791' FWL

NWSW Section 19-T9S-R16E

Duchesne Co, Utah

API #43-013-33102; Lease # UTU-74391

Spud Date: 08/29/07  
 Put on Production: 10/08/07  
 GL: 6182' KB: 6194'

## FEDERAL 5-19-9-16

### Injection Wellbore Diagram

#### SURFACE CASING

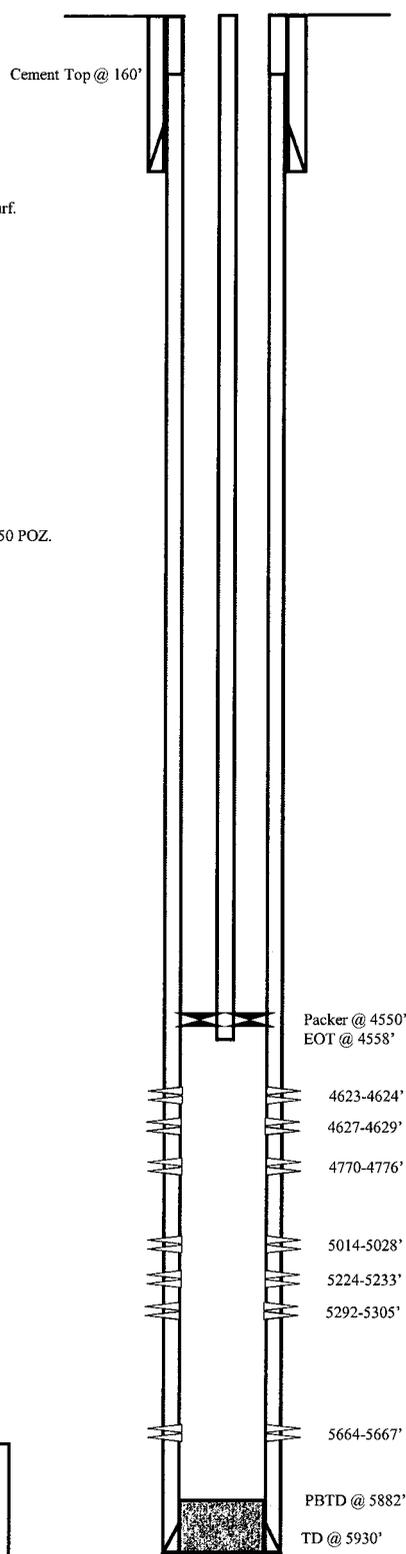
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (301.00')  
 DEPTH LANDED: 312.85' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 149 jts. (5914.34')  
 DEPTH LANDED: 5927.59' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 147 jts (4532.2')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4544.2' KB  
 RETRIEVING HEAD 4-1/2" N-80 AT: 4545.3'  
 PACKER CE AT: 4550.4' w/ 1.875 profile X-nipple  
 TBG PUP 2-3/8" J-55 AT: 4554.1'  
 TOTAL STRING LENGTH: EOT @ 4558' KB



#### FRAC JOB

10/02/07	5292-5305'	<b>Frac LODC sands as follows:</b> 70815# 20/40 sand in 589 bbls Lightning 17 frac fluid. Treated @ avg press of 2092 psi w/avg rate of 24.8 BPM. ISIP 2307 psi. Calc flush: 5290 gal. Actual flush: 4784 gal.
10/02/07	5224-5233'	<b>Frac LODC sands as follows:</b> 56237# 20/40 sand in 502 bbls Lightning 17 frac fluid. Treated @ avg press of 2357 psi w/avg rate of 24.8 BPM. ISIP 2399 psi. Calc flush: 5222 gal. Actual flush: 4717 gal.
10/04/07	5014-5028'	<b>Frac A3 sands as follows:</b> 49854# 20/40 sand in 466 bbls Lightning 17 frac fluid. Treated @ avg press of 1934 psi w/avg rate of 24.8 BPM. ISIP 2070 psi. Calc flush: 5012 gal. Actual flush: 4507 gal.
10/05/07	4770-4776'	<b>Frac C sands as follows:</b> 16441# 20/40 sand in 257 bbls Lightning 17 frac fluid. Treated @ avg press of 2243 psi w/avg rate of 24.8 BPM. ISIP 3458 psi. Calc flush: 4768 gal. Actual flush: 4683 gal.
10/21/09		<b>Pump Change.</b> Updated rod & tubing details.
7/14/2011		<b>Tubing Leak.</b> Updated rod & tubing details.
08/30/12	5664-5667'	<b>Frac CP4 sands as follows:</b> 18147# 20/40 sand in 229 bbls Lightning 17 frac fluid.
08/30/12	4623-4629'	<b>Frac D1 sands as follows:</b> 16342# 20/40 sand in 236 bbls Lightning 17 frac fluid.
08/31/12		<b>Convert to Injection Well</b>
09/05/12		<b>Conversion MIT Finalized</b> – update tbg detail

#### PERFORATION RECORD

10/01/07	5292-5305'	4 JSPF	52 holes
10/02/07	5224-5233'	4 JSPF	36 holes
10/02/07	5014-5028'	4 JSPF	56 holes
10/04/07	4770-4776'	4 JSPF	24 holes
08/28/12	5664-5667'	3 JSPF	9 holes
08/28/12	4627-4629'	3 JSPF	6 holes
08/28/12	4623-4624'	3 JSPF	3 holes



**NEWFIELD**

**FEDERAL 5-19-9-16**

1785' FNL & 544' FWL  
 SW/NW Section 19-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33174; Lease # UTU-64379

Recompletion Date: 9/24/96  
 GL: 6259.7' KB: 6268'  
 Put on Production: 10/15/96

## Ashley Federal 10-24R-9-15

Formerly Castle Peak Unit #1  
 Injection Wellbore  
 Diagram

Initial Production: 44 BOPD,  
 33 MCFPD, 5 BWPD

### SURFACE CASING

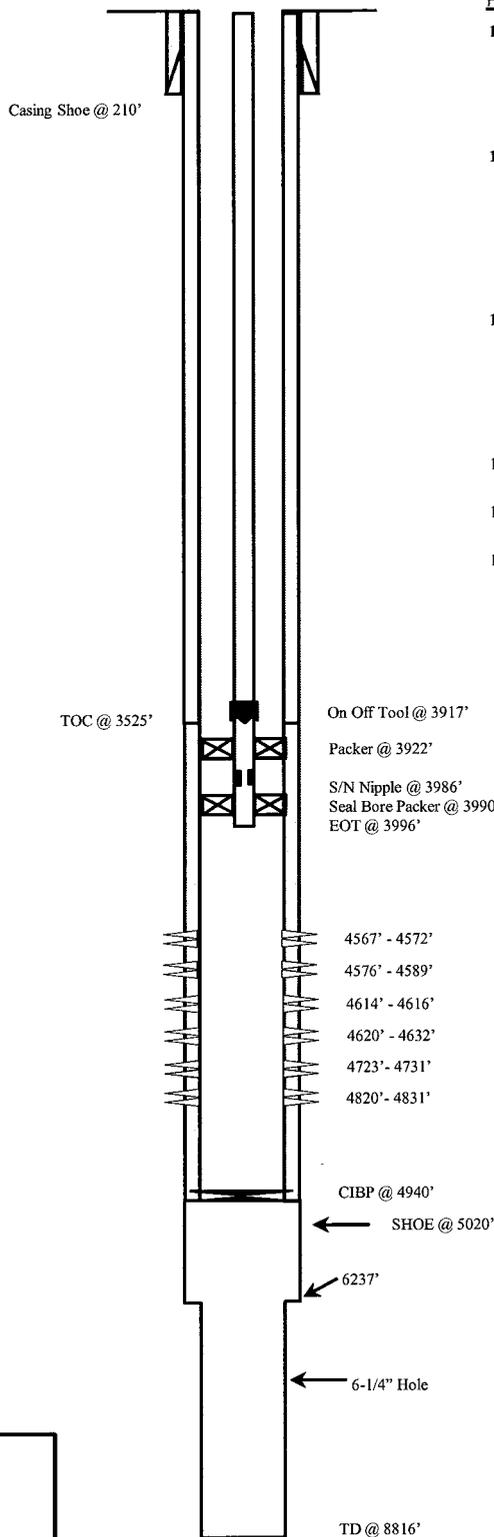
CSG SIZE: 13-3/8"  
 GRADE: ?  
 WEIGHT: 48#  
 LENGTH: ? jts.  
 DEPTH LANDED: 210'  
 HOLE SIZE: 17-1/4"  
 CEMENT DATA: 300 sx

### PRODUCTION CASING

CSG SIZE: 7"  
 GRADE: J-55  
 WEIGHT: 23#  
 LENGTH: ?  
 DEPTH LANDED: 5020'  
 HOLE SIZE: ?  
 CEMENT DATA: 500 sx cement with 1% flac added  
 CEMENT TOP AT: 3525' per CBL

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 15k TENSION (1.2) @ 10.0"  
 TBG (31.2) @ 11.2'  
 TBG PUP 2-7/8 J-55 AT: 42.4'  
 NO. OF JOINTS: 124 jts (3851.4')  
 ON/OFF TOOL AT: 3916.8'  
 ARROW #1 PACKER CE AT: 3922'  
 TBG 2 jts (59.9) @ 3925.9'  
 XO 2-3/8 x 2-7/8 J-55 AT: 3985.8'  
 SEATING NIPPLE: 2-3/8" (1.10')  
 SN LANDED AT: 3986.3' KB  
 XO 2-3/8 J-55 AT: 3987.4'  
 XO 2-7/8 J-55 AT: 3987.9'  
 TBG PUP 2-3/8 J-55 AT: 3988.4'  
 SEAL BORE PACKER AT: 3988.4'  
 TOTAL STRING LENGTH: EOT @ 3995.5'



### FRAC JOB

**10/4/96 4820'-4831'** **Frac B-2 sand as follows:**  
 34,000# of 20/40 sand in 210 bbls of Boragel. @ 18 bpm. Well screened out w/6# on formation. Est. 26,800# in formation & 7200# left ion tbg. Flowed well back until died.

**10/8/96 4723'-4731'** **Frac C sand as follows:**  
 Screened out on 5# sd w/10,600# of 20/40 sd in formation. Used 164 bbls of Boragel. Breakdown @ 3322 psi. Treated @ avg rate of 18 bpm w/avg press of 5150 psi. ISIP-2530 psi, 5-min 1919 psi. Flowback on 12/64" ck. for 1 hr and died.

**10/11/96 4567'-4632'** **Frac D-1 and D-2 sands as follows:**  
 77,700# of 20/40 sand in 402 bbls of Boragel. Breakdown @ 3010 psi. Treated @ avg rate of 19.4 bpm w/avg press of 5100 psi. ISIP-1777 psi, 5-min 1729 psi. Flowback on 12/64" ck for 10 min and died.

1/3/03 **Tubing Leak.** Update tubing and rod detail.

12/19/12 **Convert to Injection Well - Straddle Packer installed**

12/20/12 **Conversion MIT Finalized - update tbg detail**

### PERFORATION RECORD

Date	Interval	Tool	Holes
10/2/96	4820'-4831'	4 JSPF	44 holes
10/5/96	4723'-4731'	4 JSPF	32 holes
10/9/96	4567'-4572'	4 JSPF	20 holes
10/9/96	4576'-4589'	4 JSPF	52 holes
10/9/96	4614'-4616'	4 JSPF	8 holes
10/9/96	4620'-4632'	4 JSPF	48 holes

**NEWFIELD**

Ashley Federal 10-24R-9-15  
 1840 FSL 2000 FEL  
 NWSE Section 24-T9S-R15E  
 Duchesne Co, Utah  
 API #43-013-15781; Lease #U-02458

## Ashley Federal 8-24-9-15

Spud Date: 7-5-06  
 Put on Production: 9-1-06  
 GL: 6201' KB: 6213'

Initial Production: BOPD,  
 MCFD, BWPD

Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (309.21')  
 DEPTH LANDED: 321.06' 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: 135 jts (5918.43')  
 DEPTH LANDED: 5931.68' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
 CEMENT TOP AT: 350'

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 165 jts (5559.84')  
 TUBING ANCHOR: 5239.99' KB  
 NO. OF JOINTS: 1 jts (31.74')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5274.53' KB  
 NO. OF JOINTS: 2 jts (63.37')  
 TOTAL STRING LENGTH: EOT @ 5339.45' KB

### SUCKER RODS

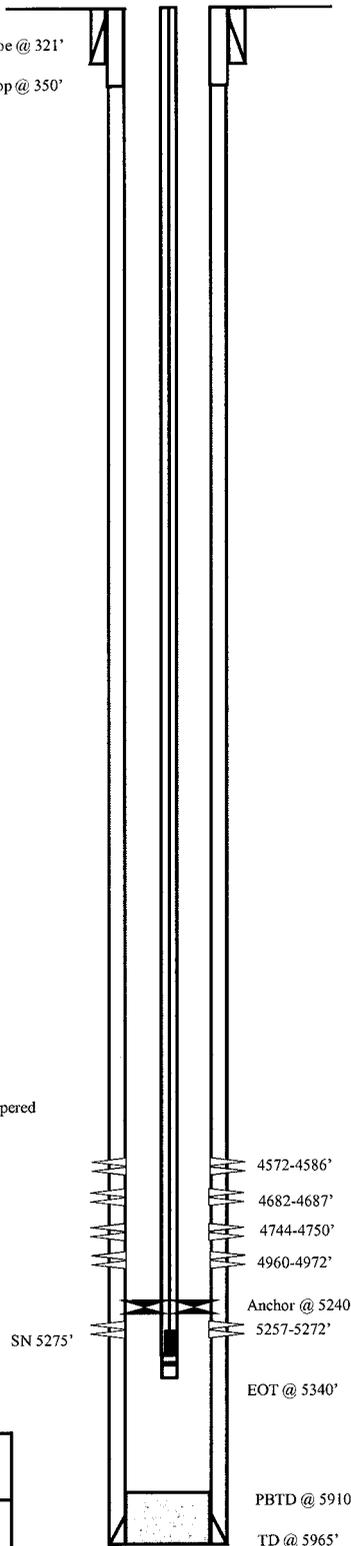
POLISHED ROD: 1-1/2" x 22' SM  
 SUCKER RODS: 1-8", 1-6", 2-4", & 1-2' X 3/4" pony rods, 99-3/4" scraped rods, 94-3/4" plain rods, 10-3/4" scraped rods, 6-1 1/2" weight rods.  
 PUMP SIZE: 2-1/2" x 1-1/2" x 15' RHAC w/SM plunger  
 STROKE LENGTH: 86"  
 PUMP SPEED, SPM: 5 SPM

### FRAC JOB

08-29-06	5257-5272'	<b>Frac LODC sands as follows:</b> 40499# 20/40 sand in 430 bbls Lightning 17 frac fluid. Treated @ avg press of 2365 psi w/avg rate of 25 BPM. ISIP 2475 psi. Calc flush: 5255 gal. Actual flush: 4746 gal.
08-29-06	4960-4972'	<b>Frac A1 sands as follows:</b> 70637# 20/40 sand in 522 bbls Lightning 17 frac fluid. Treated @ avg press of 1895 psi w/avg rate of 25 BPM. ISIP 1950 psi. Calc flush: 4958 gal. Actual flush: 4444 gal.
08-29-06	4682-4750'	<b>Frac C, &amp; D3 sands as follows:</b> 34614# 20/40 sand in 374 bbls Lightning 17 frac fluid. Treated @ avg press of 2035psi w/avg rate of 24.9 BPM. ISIP 1750 psi. Calc flush: 4680 gal. Actual flush: 4162 gal.
08-29-06	4572-4586'	<b>Frac D1 sands as follows:</b> 75771# 20/40 sand in 562 bbls Lightning 17 frac fluid. Treated @ avg press of 1955 w/ avg rate of 25 BPM. ISIP 2025 psi. Calc flush: 4570 gal. Actual flush: 4440 gal.

### PERFORATION RECORD

08-16-06	5257-5272'	4 JSPF	60 holes
08-29-06	4960-4972'	4 JSPF	48 holes
08-29-06	4744-4750'	4 JSPF	24 holes
08-29-06	4682-4687'	4 JSPF	20 holes
08-29-06	4572-4586'	4 JSPF	56 holes



**NEWFIELD**

**Ashley Federal 8-24-9-15**

2130' FNL & 584' FEL

SE/NE Section 24-T9S-R15E

Duchesne Co, Utah

API # 43-013-32818; Lease # UTU-02458

## Ashley Federal 9-24-9-15

Spud Date: 7-7-06  
 Put on Production: 8-30-06  
 GL: 6242' KB: 6254'

Initial Production: BOPD,  
 MCFD, BWPD

### Injection Wellbore Diagram

#### SURFACE CASING

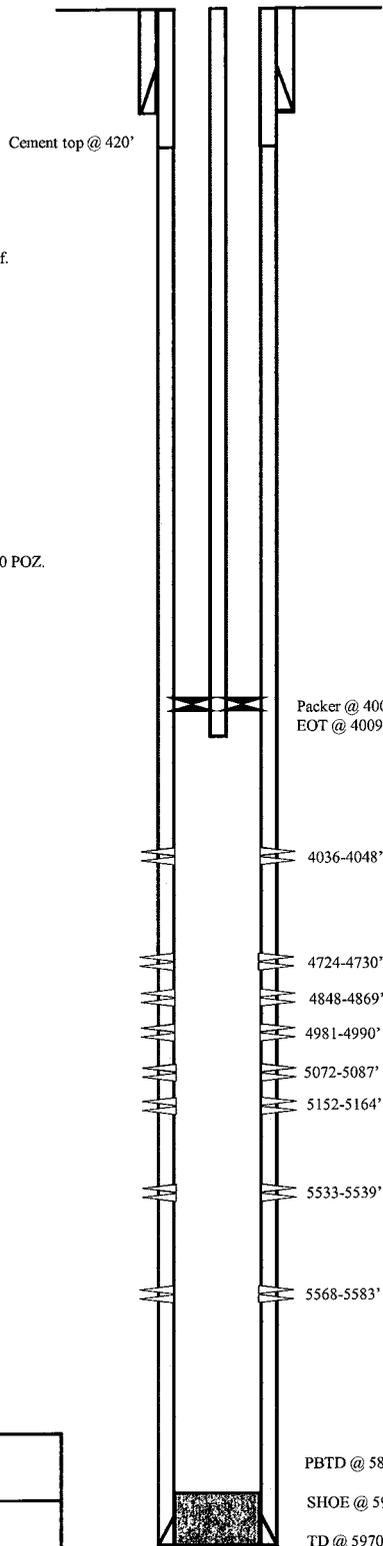
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (309.97')  
 DEPTH LANDED: 314.77' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 3 bbls cmt to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 136 jts. (5933.97')  
 DEPTH LANDED: 5947.22' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
 CEMENT TOP AT: 420'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 126 jts (3988.71')  
 SN LANDED AT: 4000.71' KB  
 TOTAL STRING LENGTH: EOT @ 4009.11' KB



#### FRAC JOB

08-22-06	5533-5583'	<b>Frac CP1, &amp; CP3 sands as follows:</b> 49445# 20/40 sand in 430 bbls Lightning 17 frac fluid. Treated @ avg press of 1798 psi w/avg rate of 25.1 BPM. ISIP 1800 psi. Calc flush: 5531 gal. Actual flush: 4998 gal.
08-22-06	5152-5164'	<b>Frac LODC sands as follows:</b> 33453# 20/40 sand in 385 bbls Lightning 17 frac fluid. Treated @ avg press of 2733 psi w/avg rate of 24.9 BPM. ISIP 2600 psi. Calc flush: 5150 gal. Actual flush: 4704 gal.
08-24-06	5072-5087'	<b>Frac LODC sands as follows:</b> 33580# 20/40 sand in 441 bbls Lightning 17 frac fluid. Treated @ avg press of 2730 psi w/avg rate of 24.9 BPM. ISIP 3000 psi. Calc flush: 5070 gal. Actual flush: 4620 gal.
08-24-06	4981-4990'	<b>Frac A1 sands as follows:</b> 29436# 20/40 sand in 360 bbls Lightning 17 frac fluid. Treated @ avg press of 2150 w/ avg rate of 25 BPM. ISIP 2200 psi. Calc flush: 4979 gal. Actual flush: 4536 gal.
08-25-06	4848-4869'	<b>Frac B2 sands as follows:</b> 120080# 20/40 sand in 824 bbls Lightning 17 frac fluid. Treated @ avg press of 2010 w/ avg rate of 25.1 BPM. ISIP 2450 psi. Calc flush: 4846 gal. Actual flush: 4368 gal.
08-25-06	4036-4730'	<b>Frac C, GB4 sands as follows:</b> 49591# 20/40 sand in 394 bbls Lightning 17 frac fluid. Treated @ avg press of 1936 w/ avg rate of 25.1 BPM. ISIP 1850 psi. Calc flush: 4034 gal. Actual flush: 3906 gal. Pump Change. Update rod and tubing details.
10/27/06		<b>Well converted to an Injection Well.</b>
9/29/08		<b>MIT completed and submitted.</b>
10/13/08		

#### PERFORATION RECORD

08-11-06	5568-5583'	4 JSPF	60 holes
08-11-06	5533-5539'	4 JSPF	24 holes
08-22-06	5152-5164'	4 JSPF	48 holes
08-22-06	5072-5087'	4 JSPF	60 holes
08-24-06	4981-4990'	4 JSPF	36 holes
08-25-06	4848-4869'	4 JSPF	84 holes
08-25-06	4724-4730'	4 JSPF	24 holes
08-25-06	4036-4048'	4 JSPF	48 holes



**NEWFIELD**

**Ashley Federal 9-24-9-15**

2009' FSL & 755' FEL

NE/SE Section 24-T9S-R15E

Duchesne Co, Utah

API # 43-013-32819; Lease # UTU-02458

## ASHLEY FEDERAL 16-24-9-15

Spud Date: 09/02/06  
 Put on Production: 10/24/06  
 GL: 6080' KB: 6092'

Initial Production: BOPD,  
 MCFD, BWPD

Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (311.45')  
 DEPTH LANDED: 323.30' 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: 130 jts. (5697.47')  
 DEPTH LANDED: 5710.72' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 325 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
 CEMENT TOP: 190'

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55  
 NO. OF JOINTS: 149 jts (4697.17')  
 TUBING ANCHOR: 4709.17' KB  
 NO. OF JOINTS: 1 jts (31.53')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4743.50' KB  
 NO. OF JOINTS: 2 jts (62.99')  
 TOTAL STRING LENGTH: EOT @ 4808.04' KB

**SUCKER RODS**

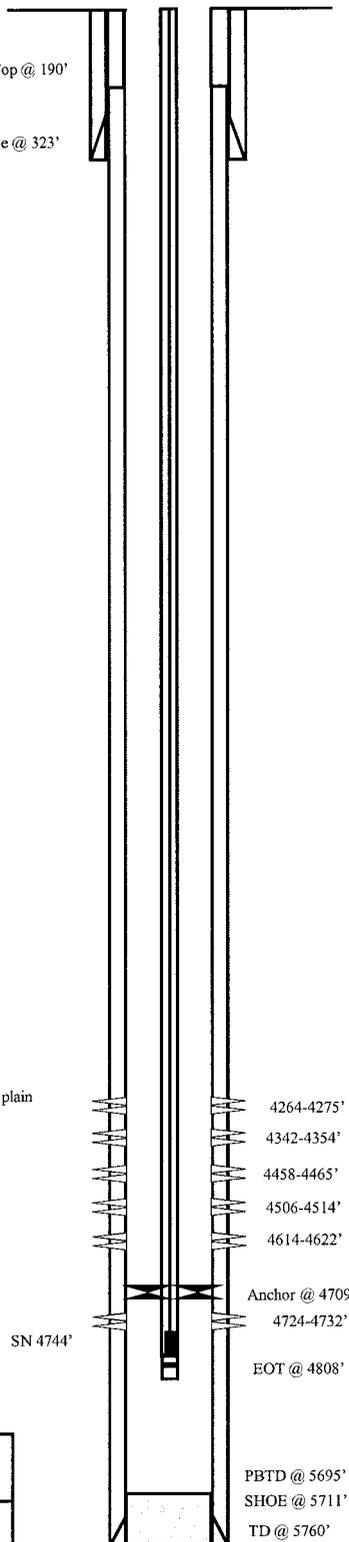
POLISHED ROD: 1-1/2" x 22' SM  
 SUCKER RODS: 1-2" x 3/4" pony rod, 100-3/4" scraped rods, 73-3/4" plain rods, 10-3/4" scraped rods, 6-1 1/2" weight rods.  
 PUMP SIZE: CDI 2-1/2" x 1-1/2" x 15 1/2" RHBC  
 STROKE LENGTH: 84"  
 PUMP SPEED, 5 SPM:

**FRAC JOB**

10/17/06	4724-4732'	<b>Frac A1 sands as follows:</b> 34968# 20/40 sand in 387 bbls Lightning 17 frac fluid. Treated @ avg press of 2380 psi w/avg rate of 25 BPM. ISIP 2800 psi. Calc flush: 4722 gal. Actual flush: 4662 gal.
10/17/06	4614-4622'	<b>Frac B2 sands as follows:</b> 34408# 20/40 sand in 371 bbls Lightning 17 frac fluid. Treated @ avg press of 2140 psi w/avg rate of 24.9 BPM. ISIP 2050 psi. Calc flush: 4612 gal. Actual flush: 4116 gal.
10/17/06	4506-4514'	<b>Frac D3 sands as follows:</b> 69835# 20/40 sand in 522 bbls Lightning 17 frac fluid. Treated @ avg press of 2100 psi w/avg rate of 24.9 BPM. ISIP 2150 psi. Calc flush: 4504 gal. Actual flush: 3990 gal.
10/17/06	4342-4354'	<b>Frac D1 sands as follows:</b> 79810# 20/40 sand in 578 bbls Lightning 17 frac fluid. Treated @ avg press of 2100 psi w/avg rate of 25 BPM. ISIP 2300 psi. Calc flush: 4340 gal. Actual flush: 3864 gal.
10/17/06	4264-4275'	<b>Frac DS2 sands as follows:</b> 48615# 20/40 sand in 403 bbls Lightning 17 frac fluid. Treated @ avg press of 2460 psi w/avg rate of 24.9 BPM. ISIP 2580 psi. Calc flush: 4262 gal. Actual flush: 4158 gal.
12-13-07		Pump Change. Updated rod & tubing details.
10/23/08		Tubing Leak. Updated rod & tubing details.

**PERFORATION RECORD**

10/03/06	4724-4732'	4 JSPF	32 holes
10/17/06	4614-4622'	4 JSPF	32 holes
10/17/06	4506-4514'	4 JSPF	32 holes
10/17/06	4458-4465'	4 JSPF	28 holes
10/17/06	4342-4354'	4 JSPF	48 holes
10/17/06	4264-4275'	4 JSPF	44 holes



**NEWFIELD**

**ASHLEY FEDERAL 16-24-9-15**

590'FSL & 799' FEL

SE/SE Section 24-T9S-R15E

Duchesne Co, Utah

API #43-013-32944; Lease #UTU-02458

## Ashley Federal 15-24-9-15

Spud Date: 09/06/06  
 Put on Production: 5873  
 K.B.: 6499, G.L.: 6487

### Injection Wellbore Diagram

#### SURFACE CASING

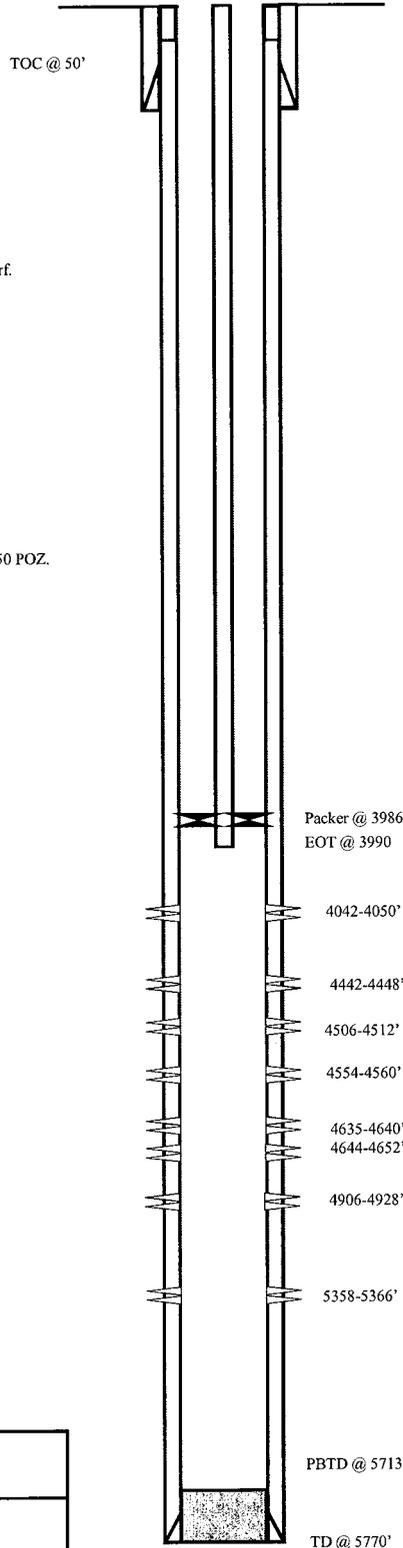
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (311.30')  
 DEPTH LANDED: 313.15' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 3 bbbs cmt to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 131 jts. (5746.20')  
 DEPTH LANDED: 5759.45' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 330 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
 CEMENT TOP: 50'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 125 jts (3969.9')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 3981.9' KB  
 CE @ 3986.3  
 TOTAL STRING LENGTH: EOT @ 3990' KB



#### FRAC JOB

10/19/06	5358-5366'	<b>Frac CP2, sands as follows:</b> 34064# 20/40 sand in 412 bbbs Lightning 17 frac fluid. Treated @ avg press of 2100 psi w/avg rate of 24.9 BPM. ISIP 2125 psi. Calc flush: 5364 gal. Actual flush: 4830 gal.
10/19/06	54906-4928'	<b>Frac LODC sands as follows:</b> 39301# 20/40 sand in 423 bbbs Lightning 17 frac fluid. Treated @ avg press of 2710 psi w/avg rate of 24.8 BPM. ISIP 2250 psi. Calc flush: 4926 gal. Actual flush: 4397 gal.
10/19/06	4635-4652'	<b>Frac B2 sands as follows:</b> 65465# 20/40 sand in 507bbbs Lightning 17 frac fluid. Treated @ avg press of 2065 psi w/avg rate of 24.9 BPM. ISIP 2310 psi. Calc flush: 4650 gal. Actual flush 4171 gal.
10/20/06	4442-4560'	<b>Frac B.5, C, D3 sands as follows:</b> 79846# 20/40 sand in 584 bbbs Lightning 17 frac fluid. Treated @ avg press of 2164 psi w/avg rate of 24.9 BPM. ISIP 2300 psi. Calc flush: 4558 gal. Actual flush: 3936 gal.
10/20/06	4042-4050'	<b>Frac PB8 sands as follows:</b> 20405# 20/40 sand in 286 bbbs Lightning 17 frac fluid. Treated @ avg press of 2057psi w/avg rate of 14.4 BPM. ISIP 1950psi. Calc flush: 4048 gal. Actual flush: 3948gal.
11-6-07		<b>Pump Change.</b> Updated rod & tubing details.
08-24-10		<b>Convert to Injection well</b>
08-30-10		<b>MIT Completed</b> – tbg detail updated

#### PERFORATION RECORD

10/13/06	5358-5366'	4 JSPF	32 holes
10/19/06	4906-4928'	4 JSPF	88 holes
10/19/06	4644-4652'	4 JSPF	32 holes
10/19/06	4635-4640'	4 JSPF	20 holes
10/19/06	4554-4560'	4 JSPF	24 holes
10/19/06	4506-4512'	4 JSPF	24 holes
10/19/06	4442-4448'	4 JSPF	24 holes
10/20/06	4042-4050'	4 JSPF	24 holes

**NEWFIELD**

**Ashley Federal 15-24-9-15**

358' FSL & 1810' FEL

SW/SE Section 24-T9S-R15E

Duchesne Co, Utah

API #43-013-32943; Lease #UTU-02458

# ATTACHMENT F

1 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**

Sales Rep: **Michael McBride**

Well Name: **SWDIF**

Lab Tech: **Gary Peterson**

Sample Point: **After Filter**

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

Sample ID: **WA-229142**

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

Sample Specifics		Analysis @ Properties in Sample Specifics			
		Cations		Anions	
		mg/L		mg/L	
Test Date:	12/5/2012	Sodium (Na):	734.93	Chloride (Cl):	1000.00
System Temperature 1 (°F):	120.00	Potassium (K):	11.00	Sulfate (SO4):	120.00
System Pressure 1 (psig):	60.0000	Magnesium (Mg):	26.00	Bicarbonate (HCO3):	366.00
System Temperature 2 (°F):	210.00	Calcium (Ca):	46.20	Carbonate (CO3):	
System Pressure 2 (psig):	60.0000	Strontium (Sr):		Acetic Acid (CH3COO)	
Calculated Density (g/ml):	0.999	Barium (Ba):	0.17	Propionic Acid (C2H5COO)	
pH:	6.80	Iron (Fe):	0.13	Butanoic Acid (C3H7COO)	
Calculated TDS (mg/L):	2304.49	Zinc (Zn):	0.02	Isobutyric Acid ((CH3)2CHCOO)	
CO2 in Gas (%):		Lead (Pb):	0.00	Fluoride (F):	
Dissolved CO2 (mg/L):	15.00	Ammonia NH3:		Bromine (Br):	
H2S in Gas (%):		Manganese (Mn):	0.04	Silica (SiO2):	
H2S in Water (mg/L):	2.50				

**Notes:**

9:30

(PTB = Pounds per Thousand Barrels)

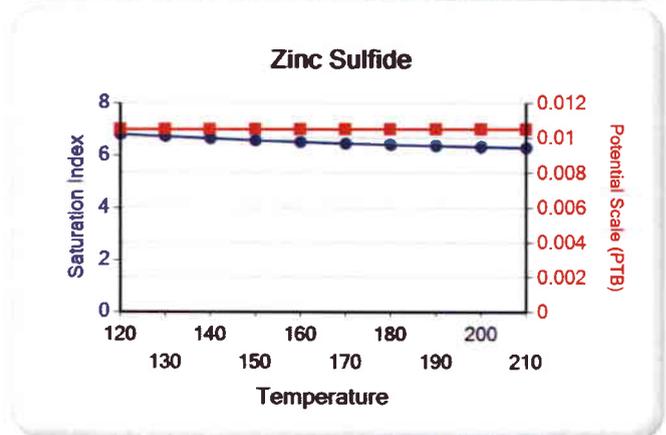
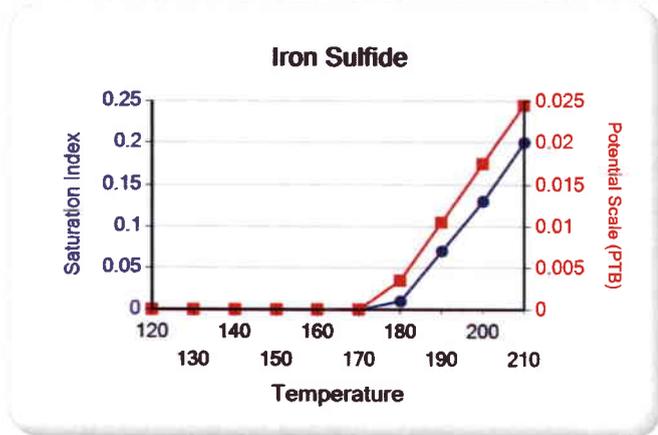
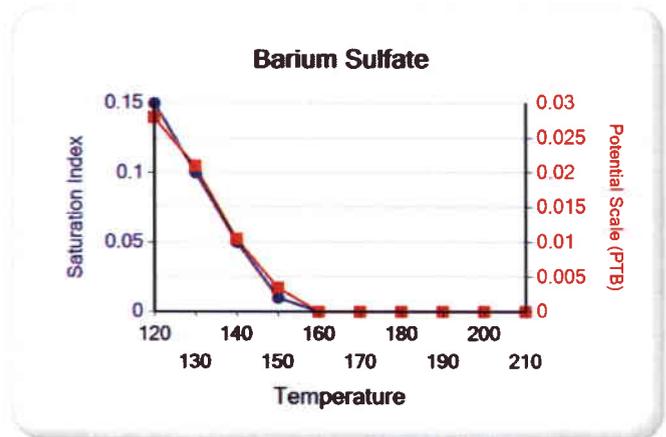
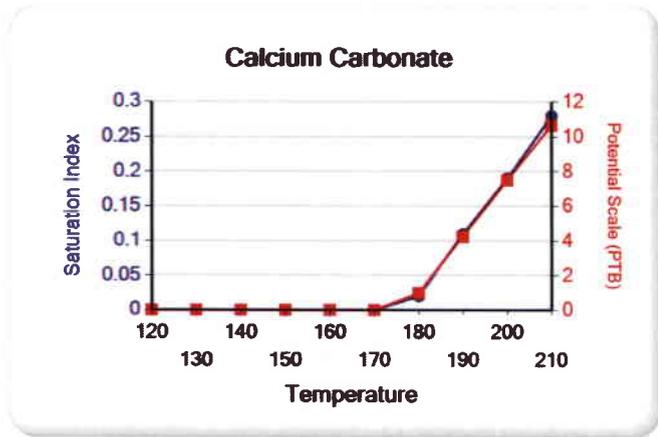
Temp (°F)	PSI	Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO4 2H2O		Celestite SrSO4		Halite NaCl		Zinc Sulfide		
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	
210.00	60.00	0.28	10.64	0.00	0.00	0.20	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.28	0.01
200.00	60.00	0.19	7.48	0.00	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.31	0.01
190.00	60.00	0.11	4.25	0.00	0.00	0.07	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.35	0.01
180.00	60.00	0.02	0.97	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.39	0.01
170.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.44	0.01
160.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.50	0.01
150.00	60.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.56	0.01
140.00	60.00	0.00	0.00	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.64	0.01
130.00	60.00	0.00	0.00	0.10	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.72	0.01
120.00	60.00	0.00	0.00	0.15	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.80	0.01

## Water Analysis Report

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

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

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



Units of Measurement: **Standard**

**Water Analysis Report**

Production Company: **NEWFIELD PRODUCTION**  
 Well Name: **FEDERAL 13-19-9-16**  
 Sample Point: **Treater**  
 Sample Date: **4/30/2013**  
 Sample ID: **WA-242498**

Sales Rep: **Michael McBride**  
 Lab Tech: **John Keel**

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

Sample Specifics		Analysis @ Properties in Sample Specifics			
		Cations		Anions	
		mg/L		mg/L	
Test Date:	5/20/2013	Sodium (Na):	10135.51	Chloride (Cl):	14000.00
System Temperature 1 (°F):	120.00	Potassium (K):	63.45	Sulfate (SO4):	47.00
System Pressure 1 (psig):	60.0000	Magnesium (Mg):	4.24	Bicarbonate (HCO3):	2928.00
System Temperature 2 (°F):	210.00	Calcium (Ca):	9.80	Carbonate (CO3):	
System Pressure 2 (psig):	60.0000	Strontium (Sr):	1.43	Acetic Acid (CH3COO)	
Calculated Density (g/ml):	1.016	Barium (Ba):	0.63	Propionic Acid (C2H5COO)	
pH:	9.50	Iron (Fe):	12.95	Butanoic Acid (C3H7COO)	
Calculated TDS (mg/L):	27217.71	Zinc (Zn):	0.09	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):	0.42	Silica (SiO2):	14.19
H2S in Water (mg/L):	25.00				

Notes:  
 AI=0

(PTB = Pounds per Thousand Barrels)

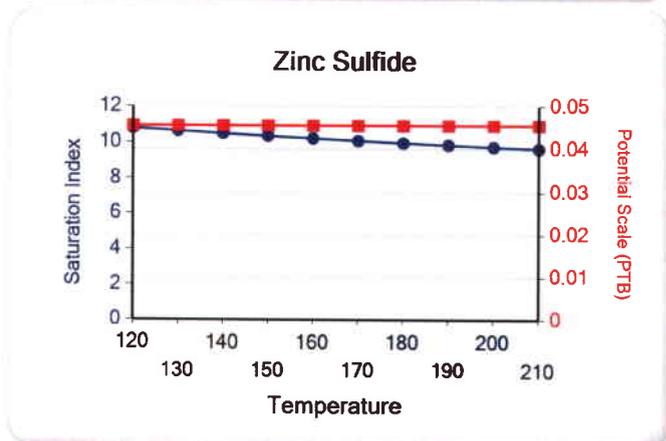
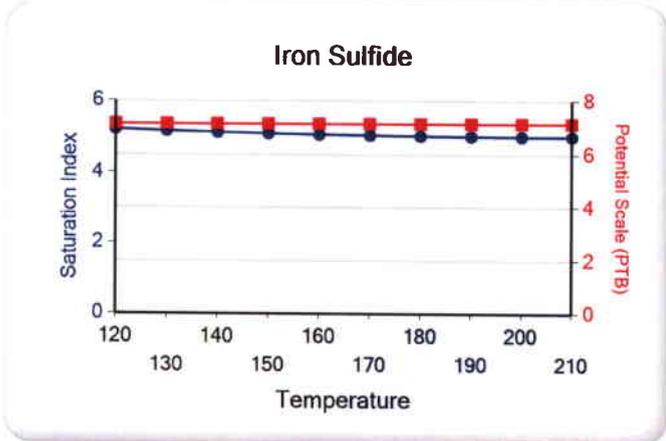
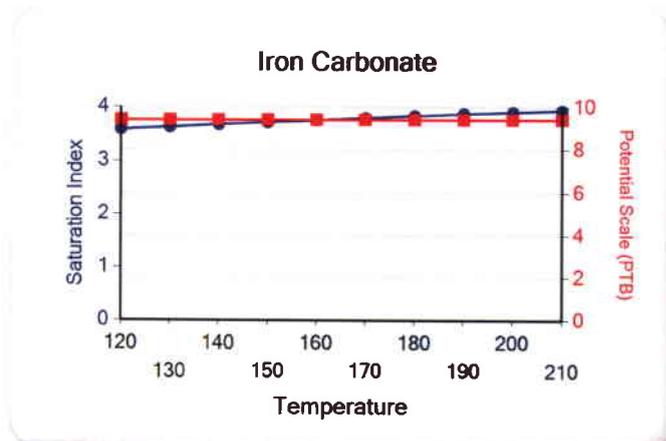
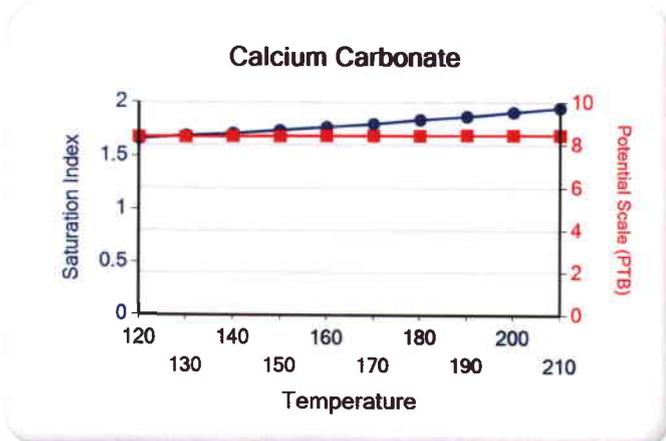
Temp (°F)	PSI	Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO4-2H2O		Celestite SrSO4		Halite NaCl		Zinc Sulfide	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
210.00	60.00	1.95	8.48	0.00	0.00	5.00	7.15	3.94	9.41	0.00	0.00	0.00	0.00	0.00	0.00	9.65	0.05
200.00	60.00	1.91	8.47	0.00	0.00	5.00	7.15	3.91	9.41	0.00	0.00	0.00	0.00	0.00	0.00	9.75	0.05
190.00	60.00	1.87	8.46	0.00	0.00	5.01	7.15	3.88	9.41	0.00	0.00	0.00	0.00	0.00	0.00	9.86	0.05
180.00	60.00	1.84	8.45	0.00	0.00	5.02	7.15	3.84	9.41	0.00	0.00	0.00	0.00	0.00	0.00	9.97	0.05
170.00	60.00	1.80	8.44	0.00	0.00	5.04	7.15	3.80	9.41	0.00	0.00	0.00	0.00	0.00	0.00	10.09	0.05
160.00	60.00	1.77	8.43	0.00	0.00	5.06	7.15	3.76	9.41	0.00	0.00	0.00	0.00	0.00	0.00	10.22	0.05
150.00	60.00	1.74	8.42	0.00	0.00	5.09	7.15	3.72	9.41	0.00	0.00	0.00	0.00	0.00	0.00	10.35	0.05
140.00	60.00	1.71	8.41	0.00	0.00	5.12	7.15	3.68	9.41	0.00	0.00	0.00	0.00	0.00	0.00	10.49	0.05
130.00	60.00	1.69	8.40	0.00	0.00	5.16	7.15	3.63	9.41	0.00	0.00	0.00	0.00	0.00	0.00	10.64	0.05
120.00	60.00	1.66	8.39	0.00	0.00	5.21	7.15	3.59	9.41	0.00	0.00	0.00	0.00	0.00	0.00	10.80	0.05

Water Analysis Report

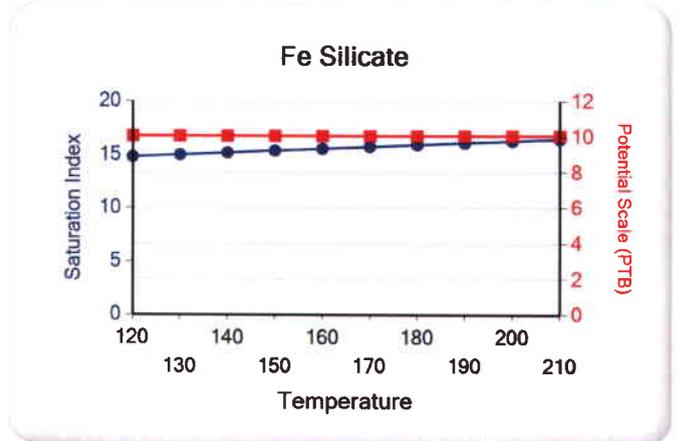
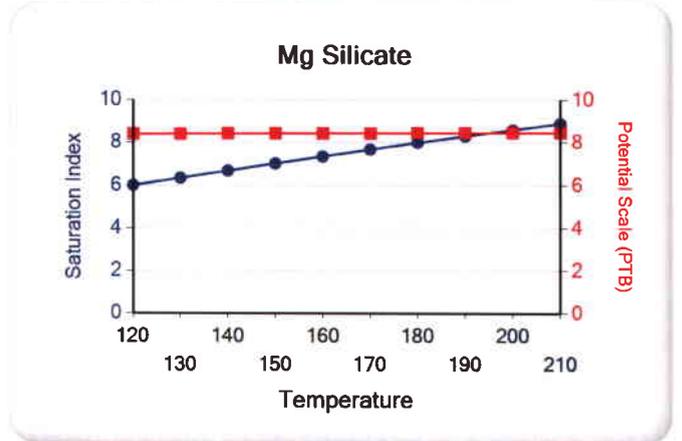
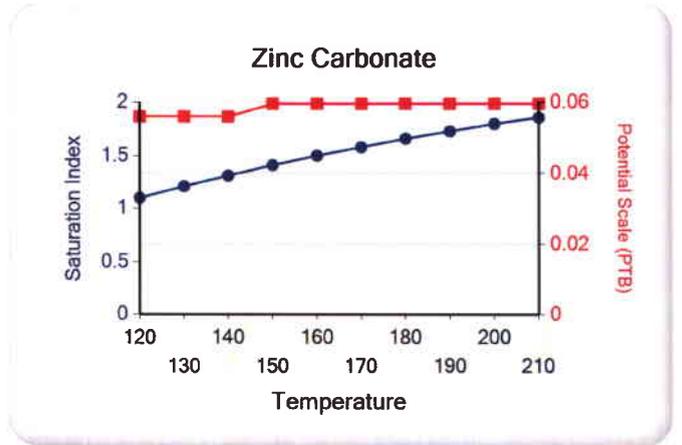
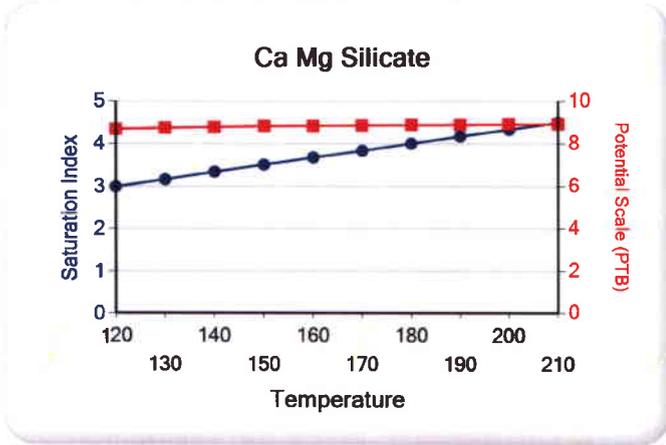
Temp (°F)	PSI	Hemihydrate CaSO4·0.5H2O		Anhydrate CaSO4		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
210.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	0.06	0.00	0.00	8.91	8.46	4.50	8.93	16.48	10.07
200.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.80	0.06	0.00	0.00	8.61	8.46	4.34	8.92	16.31	10.07
190.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.73	0.06	0.00	0.00	8.31	8.46	4.18	8.91	16.13	10.07
180.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.66	0.06	0.00	0.00	8.00	8.46	4.01	8.90	15.95	10.07
170.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.58	0.06	0.00	0.00	7.68	8.45	3.84	8.88	15.77	10.07
160.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	0.06	0.00	0.00	7.35	8.45	3.68	8.86	15.58	10.07
150.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.41	0.06	0.00	0.00	7.02	8.44	3.51	8.83	15.40	10.07
140.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.31	0.06	0.00	0.00	6.68	8.43	3.34	8.80	15.21	10.07
130.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	0.06	0.00	0.00	6.34	8.42	3.16	8.75	15.02	10.07
120.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.10	0.06	0.00	0.00	6.00	8.40	2.99	8.70	14.84	10.07

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

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



Water Analysis Report



**Attachment "G"**

**Federal #13-19-9-16  
Proposed Maximum Injection Pressure**

Frac Interval (feet)		Avg. Depth (feet)	ISIP (psi)	Calculated Frac Gradient (psi/ft)	Pmax
Top	Bottom				
5528	5571	5550	1904	0.78	1868 ←
4746	4778	4762	3193	1.11	3162
4557	4567	4562	1902	0.85	1872
4350	4385	4368	2166	0.93	2138
3831	3898	3865	2707	1.14	2682
				<b>Minimum</b>	<u><u>1868</u></u>

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

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

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



### Daily Completion Report

Well Name: **FEDERAL 13-19-9-16**

AFE: 11345

Report Date: 8/6/09

Operation: Ran CBL & shot 1st stage

Field:	GMBU CTB3	Rig Name:	WWS #5	Work Performed:	8/5/2009
Location:	S19 T9S R16E	Supervisor:	Aaron Manning	Day:	1
County:		Phone:	4358231087	Daily Cost:	12,216
State:	UT	Email:	amanning@newfield.com	Cum DCR:	12,216
				Cum. Well Cost:	486,874

**24 Hr Summary:** Ran CBL & shot 1st stage.

**24 Hr Plan Forward:** Wait on frac crew.

<b>Incidents:</b>	None	<b>Newfield Pers:</b>	1	<b>Contract Pers:</b>	3	<b>Conditions:</b>	
-------------------	------	-----------------------	---	-----------------------	---	--------------------	--

**Critical Comments**

0 Hr(s); P : Install 5m frac head. NU 6" 5K Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head, csg & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLT @ 5603' & cement top @ 58'. Perforate stage #1, CP5 sands @ 5569-71' & 5528-34' w/ 3-1/8" Slick Guns (19 gram, .49"EH. 120°) w/ 3 spf for total of 24 shots. 134 BWTR. SWIFN.□



**Daily Completion Report**

Well Name: **FEDERAL 13-19-9-16**

AFE: 11345

Report Date: 8/13/09

Operation: Frac well

Field:	GMBU CTB3	Rig Name:	Rigless	Work Performed:	8/12/2009
Location:	S19 T9S R16E	Supervisor:	Don Dulen	Day:	2
County:		Phone:	435-823-6772	Daily Cost:	\$4,511
State:	UT	Email:	ddulen@newfield.com	Cum DCR:	\$16,727
				Cum. Well Cost:	\$491,385

**24 Hr Summary:** Frac well.

**24 Hr Plan Forward:** Frac remaining zones.

**Incidents:** None      **Newfield Pers:** 4      **Contract Pers:** 18      **Conditions:**

**Critical Comments**

0 Hr(s); P : RU BJ Services. 0 psi on well. Broke @ 3864 psi. ISIP @ 1904 psi, 1 min @ 1855 psi, 4 min @ 1748 psi. FG @ .78. Frac CP5 sds w/ 15,618#'s of 20/40 sand in 331 bbls of Lightning 17 fluid. Treated w/ ave pressure of 3307 psi w/ ave rate of 26.5 BPM. ISIP 2648 psi, 5 min @ 2355 psi, 10 min @ 2244 psi, 15 min @ 2159 psi. FG @ .91. Leave pressure on well. 465 BWTR□

0 Hr(s); P : RU Phoenix Surverys inc WLT, crane & Lubricator. RIH w/ Weatherford 5 1/2" 6K composite flow through frac plug & 3', 5' & 2' perf guns. Set plug @ 4850'. Perforate A1 sds @ 4775-78', 4761-66', & 4746-48' w/ 3 1/8" Slick Guns (.36"EH, 16 gram, 120°, 21.00" pen., TAG-3375-311SL) w/ 3 spf for total of 30 shots. RU BJ Services. 2048 psi on well. Broke @ 3897 psi. Pressure dropped below open pressure. Frac A1 sds w/ 60,817#'s of 20/40 sand in 512 bbls of Lightning 17 fluid. Treated w/ ave pressure of 3350 psi w/ ave rate of 34.7 BPM. ISIP 3193 psi. FG. @ 1.10. Leave pressure on well. 977 BWTR□

0 Hr(s); P : RU Phoenix Surverys inc WLT, crane & Lubricator. RIH w/ Weatherford 5 1/2" 6K composite flow through frac plug & 10' perf gun. Set plug @ 4630'. Perforate B.5 sds @ 4557-67' w/ 3 1/8" Slick Guns (.34"EH, 16 gram, 120°, 21.00" pen., TAG-3375-311SL) w/ 3 spf for total of 30 shots. RU BJ Services. Perfs would not break down. Dump bail acid on perfs (3 runs). SWIFN□



**Daily Completion Report**

Well Name: **FEDERAL 13-19-9-16**

AFE: **11345**

Report Date: **8/14/09**

Operation: **Frac well.**

Field: GMBU CTB3  
 Location: S19 T9S R16E  
 County: \_\_\_\_\_  
 State: UT

Rig Name: Rigless  
 Supervisor: Don Dulen  
 Phone: 435-823-6772  
 Email: ddulen@newfield.com

Work Performed: 8/13/2009  
 Day: 3  
 Daily Cost: \$78,962  
 Cum DCR: \$95,689  
 Cum. Well Cost: \$570,347

**24 Hr Summary:** Frac well. SWIFN. 1942 BWTR.

**24 Hr Plan Forward:** Wait on completion rig.

**Incidents:** None      **Newfield Pers:** 1      **Contract Pers:** 18      **Conditions:**

**Critical Comments**

0 Hr(s); P : RU BJ Services. 1101 psi on well. Broke @ 2616 psi. Pressure too low to record shut in pressures. Frac B.5 sds w/ 15,408#'s of 20/40 sand in 273 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2210 psi w/ ave rate of 26.6 BPM. ISIP 1902 psi. FG @ .85. Leave pressure on well. 1250 BWTR.□

0 Hr(s); P : RU Phoenix Surverys inc WLT, crane & Lubricator. RIH w/ Weatherford 5 1/2" 6K composite flow through frac plug & 3' 4' perf guns. Set plug @ 4460'. Perforate D2 sds @ 4382-85' & D1 sds @ 4350-54' w/ 3 1/8" Slick Guns (.34"EH, 16 gram, 120°, 21.00% pen., TAG-3375-311SL) w/ 3 spf for total of 21 shots. RU BJ Services. 1315 psi on well. Broke @ 2322 psi. Pressure dropped below open pressure. No shut ins recorded. Frac D1/D2 sds w/ 61,285#'s of 20/40 sand in 496 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2278 psi w/ ave rate of 26.5 BPM. ISIP 2166 psi. FG. @ .93. Leave pressure on well. 1746 BWTR.□

0 Hr(s); P : RU Phoenix Surverys inc WLT, crane & Lubricator. RIH w/ Weatherford 5 1/2" 6K composite flow through frac plug & 5', 4' perf guns. Set plug @ 4070'. Perforate GB6 sds @ 3893-98' & GB4 sds @ 3831-35' w/ 3 1/8" Slick Guns (.34"EH, 16 gram, 120°, 21.00% pen., TAG-3375-311SL) w/ 3 spf for total of 27 shots. RU BJ Services. 1232 psi on well. Broke @ 2626 psi. Frac GB4/GB6 sds w/ 84,734#'s of 20/40 sand in 636 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2649 psi w/ ave rate of 33 BPM. ISIP 2707 psi. FG. @ 1.1. Open well to pit for immediate flowback @ approx. 3 bpm. Well flowed for 3.5 hrs & died. Recovered 440 bbls water. SWIFN. 1942 BWTR.□



**Daily Completion Report**

Well Name: **FEDERAL 13-19-9-16**

AFE: 11345

Report Date: 8/18/09

Operation: RU Western #1. PU tbg.

Field:	GMBU CTB3	Rig Name:	WWS #1	Work Performed:	8/17/2009
Location:	S19 T9S R16E	Supervisor:	Don Dulen	Day:	4
County:		Phone:	435-823-6772	Daily Cost:	\$35,808
State:	UT	Email:	ddulen@newfield.com	Cum DCR:	\$131,497
				Cum. Well Cost:	\$606,155

**24 Hr Summary:** ND Cameron BOP & 5m frac head. NU 3m production head & Schaeffer BOP. PU 4 3/4" chomp bit, bit sub & 80 jts 2 7/8" tbg. SWIFN. 1942 BWTR.

**24 Hr Plan Forward:** Cont. PU tbg. DU CBPs.

<b>Incidents:</b>	None	<b>Newfield Pers:</b>	1	<b>Contract Pers:</b>	5	<b>Conditions:</b>	
-------------------	------	-----------------------	---	-----------------------	---	--------------------	--

**Critical Comments**

0 Hr(s); P : MIRU Western #1. ND Cameron BOP & 5m frac head. NU 3m production head & Schaeffer BOP. RIH w/ 4 3/4" chomp bit, bit sub & 80 jts new 2 7/8" tbg. from pipe racks. RU pump & lines. Circulate well clean. SWIFN. 1942 BWTR. □



## Daily Completion Report

**Well Name:** FEDERAL 13-19-9-16

**AFE:** 11345

**Report Date:** 8/19/09

**Operation:** DU CBPs. Swab for cleanup.

<b>Field:</b> GMBU CTB3	<b>Rig Name:</b> WWS #1	<b>Work Performed:</b> 8/18/2009
<b>Location:</b> S19 T9S R16E	<b>Supervisor:</b> Don Dulen	<b>Day:</b> 5
<b>County:</b>	<b>Phone:</b> 435-823-6772	<b>Daily Cost:</b> \$6,010
<b>State:</b> UT	<b>Email:</b> ddulen@newfield.com	<b>Cum DCR:</b> \$137,507
		<b>Cum. Well Cost:</b> \$612,165

<b>24 Hr Summary:</b>	DU CBPs. C/O to PBTD @ 5654'. Swab for cleanup.					
<b>24 Hr Plan Forward:</b>	Cont. swabbing for cleanup. Round trip tbg.					
<b>Incidents:</b>	Incident/Illness Report;None	<b>Newfield Pers:</b>	1	<b>Contract Pers:</b>	5	<b>Conditions:</b>

**Critical Comments**

0 Hr(s); P : Cont. RIH w/ tbg. Tag fill @ 3860'. RU powerswivel. C/O to CBP @ 4070'. DU CBP in 10 min. Cont. RIH w/ tbg. Tag fill @ 4358'. C/O to CBP @ 4460'. DU CBP in 16 min. Cont. RIH w/ tbg. Tag fill @ 4562'. C/O to CBP @ 4630'. DU CBP @ 19 min. Cont. RIH w/ tbg. Tag fill @ 4811'. C/O to CBP @ 4850'. DU CBP @ 13 min. Cont. RIH w/ tbg. Tag fill @ 5535'. C/O to PBTD @ 5654'. Circualte well clean. Pull up to 5605'. RU swab. SFL @ surface. Made 1 run. Lost knuckle & mandrel. MU new knuckle & mandrel. Made 4 runs. SFL @ surface. Recovered 45 bbls water. EFL @ 300'. SWIFN. 1972 BWTR.□

**NEWFIELD**

**Daily Completion Report**

Well Name: FEDERAL 13-19-9-16

AFE: 11345

Report Date: 8/20/09

Operation: Swab for cleanup. Round trip tbg.

Field: GMBU CTB3  
 Location: S19 T9S R16E  
 County: \_\_\_\_\_  
 State: UT

Rig Name: WWS #1  
 Supervisor: Don Dulen  
 Phone: 435-823-6772  
 Email: ddulen@newfield.com

Work Performed: 8/19/2009  
 Day: 6  
 Daily Cost: \$4,445  
 Cum DCR: \$141,952  
 Cum. Well Cost: \$616,610

**24 Hr Summary:** Swab for cleanup. Round trip tbg.

**24 Hr Plan Forward:** Cont. RIH w/ tbg. PU rods.

**Incidents:** None      **Newfield Pers:** 1      **Contract Pers:** 4      **Conditions:**

**Critical Comments**

0 Hr(s); P : RIH w/ swab. SFL @ 600'. Made 6 runs. Recovered 70 bbls. Trace of oil, no show of sand. EFL @ 600'. RD swab. RIH w/ tbg. Tag PBTD @ 5654'. Circulate well clean. POOH w/ tbg. LD BHA. RIH w/ 2 7/8" bull plug, 3 jts 2 7/8" tbg., PBGA, 1 jt 2 7/8" tbg., PSN, 1 jt 2 7/8" tbg., 5 1/2" TAC & 105 jts 2 7/8" tbg. SWIFN. □



## Final Daily Completion Report

**Well Name: FEDERAL 13-19-9-16**

**AFE: 11345**

**Report Date: 8/21/09**

**Operation: Cont. RIH w/ tbg. PU rods.**

<b>Field:</b> GMBU CTB3	<b>Rig Name:</b> WWS #1	<b>Work Performed:</b> 8/20/2009
<b>Location:</b> S19 T9S R16E	<b>Supervisor:</b> Don Dulen	<b>Day:</b> 7
<b>County:</b>	<b>Phone:</b> 435-823-6772	<b>Daily Cost:</b> \$23,375
<b>State:</b> UT	<b>Email:</b> ddulen@newfield.com	<b>Cum DCR:</b> \$165,327
		<b>Cum. Well Cost:</b> \$639,985

**24 Hr Summary:** RIH w/ tbg. ND BOP. RIH w/ rods. PWOP @ 4:00 p.m. 5.5 spm, 68" stroke length. 1987 BWTR.

**24 Hr Plan Forward:** Produce well.

<b>Incidents:</b> None	<b>Newfield Pers:</b> 1	<b>Contract Pers:</b> 4	<b>Conditions:</b>
------------------------	-------------------------	-------------------------	--------------------

**Critical Comments**

0 Hr(s); P : Cont. RIH w/ tbg. LD BHA. RIH w/ 2 7/8" bull plug, 3 jts 2 7/8" tbg., 2 7/8" nipple, PBGA, 1 jt 2 7/8" tbg., PSN, 1 jt 2 7/8" tbg., 5 1/2" TAC & 167 jts 2 7/8" tbg. ND BOP. Set TAC @ 5263' w/ 18,000# tension. NU wellhead. X-over for rods. Flush tbg. w/ 60 bbls water. RIH w/ Central Hydraulic 2 1/2" x 1 1/2" x 16' x 20' RHAC rod pump, 6- 1 1/2" weight bars, 20- 3/4" guided rods, 76- 3/4" slick rods, 109- 3/4" guided rods, 1- 2' x 3/4" pony sub, 1 1/2" x 26' polished rod. Seat pump. RU pumping unit. Hang off rods. Stroke test to 800 psi. Good pump action. RD. Put well on production @ 4:00 p.m. 5.5 spm, 68" stroke length. Final Report. 1987 BWTR. □

## ATTACHMENT H

### WORK PROCEDURE FOR PLUGGING AND ABANDONMENT

1. Set CIBP @ 4492'
2. Plug #1 Set 100' plug on top of CIBP using 12 sx Class "G" cement
3. Plug #2 154' 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 14sx Class "G" cement 60' above Uinta/Green River and extending 60' below
5. Plug #4 Pump 45 sx Class "G" cement down 5 1/2" casing to 373'

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

## Federal 13-19-9-16

Spud Date:  
 Put on Production:  
 GL: 6044' KB: 6056'

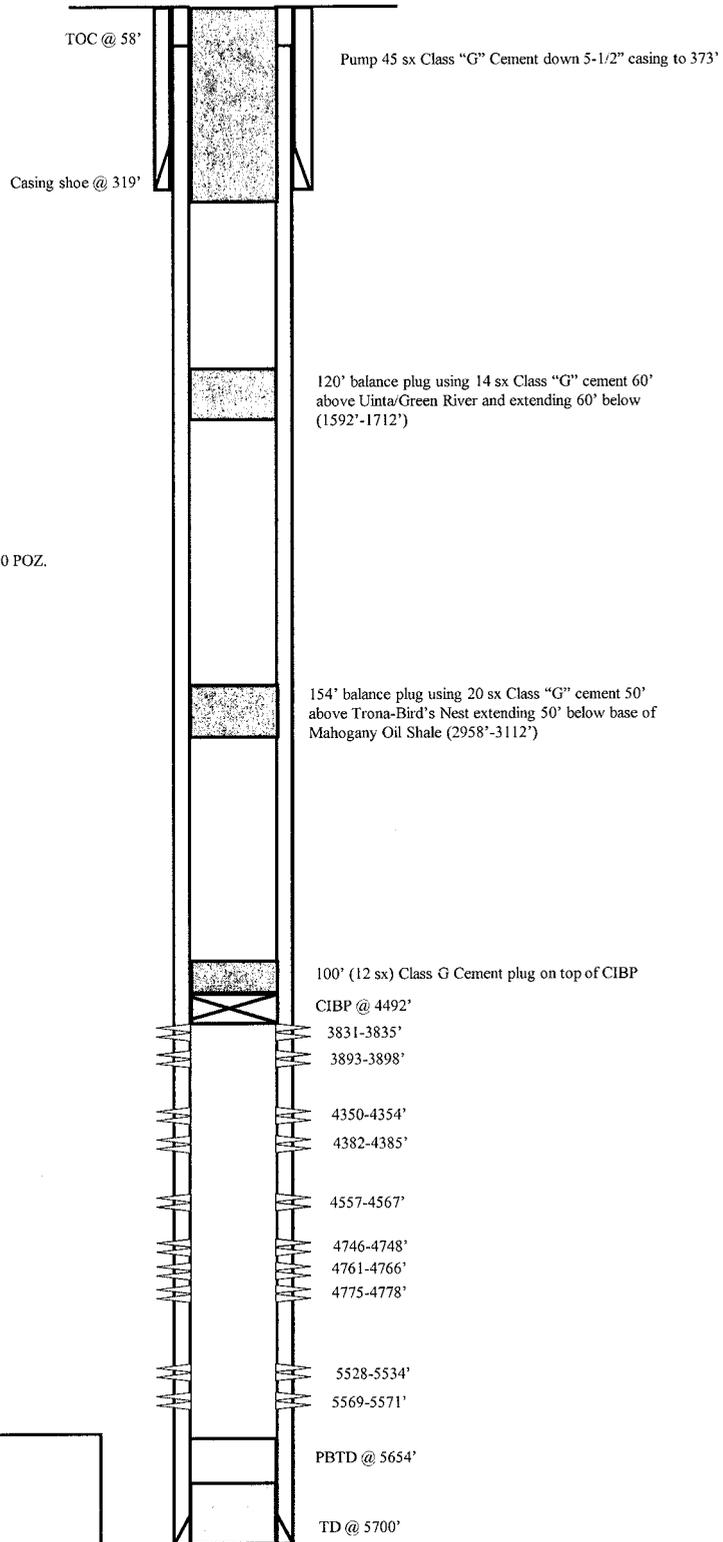
### Proposed P & A Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (30.7.17')  
 DEPTH LANDED: 319.02'  
 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: 143 jts. (5642.16')  
 HOLE SIZE: 7-7/8"  
 DEPTH LANDED: 5696.9'  
 CEMENT DATA: 275 sx Prem. Lite II mixed & 400 sx 50/50 POZ.  
 CEMENT TOP AT: 58'



**NEWFIELD**



**Federal 13-19-9-16**  
 588' FSL & 758' FWL SWSW  
 Section 19-T9S-R16E  
 Duchesne Co, Utah  
 API # 43-013-33103; Lease # UTU-74391

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-410

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTION 15, TOWNSHIP 9 SOUTH, RANGE 15 EAST, AND SECTIONS 6, 15, 18, 19, 20, and 30, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

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

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

Greater Monument Butte Unit:

Ashley Federal 10-15-9-15 well located in NW/4 SE/4, Section 15, Township 9 South, Range 15 East  
API 43-013-32471

West Point U 12-6-9-16 well located in NW/4 SW/4, Section 6, Township 9 South, Range 16 East  
API 43-013-31765

Jonah Federal 16-15-9-16 well located in SE/4 SE/4, Section 15, Township 9 South, Range 16 East  
API 43-013-32754

Federal 12-18-9-16 well located in NW/4 SW/4, Section 18, Township 9 South, Range 16 East  
API 43-013-32998

Federal 14-18-9-16 well located in SE/4 SW/4, Section 18, Township 9 South, Range 16 East  
API 43-013-33000

Federal 13-19-9-16 well located in SW/4 SW/4, Section 19, Township 9 South, Range 16 East  
API 43-013-33103

Monument Federal 22-20-9-16 well located in SE/4 NW/4, Section 20, Township 9 South, Range 16 East  
API 43-013-31681

Federal 3-30-9-16 well located in NE/4 NW/4, Section 30, Township 9 South, Range 16 East  
API 43-013-33454

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 11<sup>th</sup> day of June, 2013.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING



Brad Hill  
Permitting Manager

**Newfield Production Company**

**ASHLEY FEDERAL 10-15-9-15, WEST POINT U 12-6-9-16,  
JONAH FEDERAL 16-15-9-16, FEDERAL 12-18-9-16,  
FEDERAL 14-18-9-16, FEDERAL 13-19-9-16  
MONUMENT FEDERAL 22-20-9-16, FEDERAL 3-30-9-16**

**Cause No. UIC-410**

Publication Notices were sent to the following:

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

Ute Tribe  
P O Box 190  
Ft. Duchesne, UT 84026

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

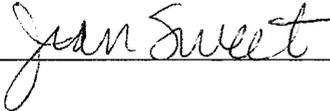
Duchesne County Planning  
P O Box 317  
Duchesne, UT 84021-0317

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

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

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

Newfield Production Company  
Rt 3 Box 3630  
Myton, UT 84052

  
\_\_\_\_\_



GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

June 11, 2013

Via e-mail: [legals@ubstandard.com](mailto:legals@ubstandard.com)

Uintah Basin Standard  
268 South 200 East  
Roosevelt, UT 84066

Subject: Notice of Agency Action – Newfield Production Company Cause No. UIC-410

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





GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

June 11, 2013

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

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

Subject: Notice of Agency Action – Newfield Production Company Cause No. UIC-410

To Whom It May Concern:

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

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

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

Sincerely,

Jean Sweet  
Executive Secretary

Enclosure



6/12/13

State of Utah Mail - Proof for Notice



www.utah.gov

---

## Proof for Notice

---

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

Tue, Jun 11, 2013 at 3:21 PM

AD# 886505  
Run SL Trib & Des News 6/14  
Cost \$267.08  
Thank You

---

 **OrderConf.pdf**  
125K

## Order Confirmation for Ad #0000886505-01

<b>Client</b>	DIV OF OIL-GAS & MINING	<b>Payor Customer</b>	DIV OF OIL-GAS & MINING
<b>Client Phone</b>	801-538-5340	<b>Payor Phone</b>	801-538-5340
<b>Account#</b>	9001402352	<b>Payor Account</b>	9001402352
<b>Address</b>	1594 W NORTH TEMP #1210, P.O. BOX 145801 SALT LAKE CITY, UT 84114 USA	<b>Payor Address</b>	1594 W NORTH TEMP #1210, P.O. BO SALT LAKE CITY, UT 84114

<b>Fax</b>	801-359-3940	<b>Ordered By</b>	<b>Acct. Exec</b>
<b>E-Mail</b>	juliecarter@utah.gov	Jean	kstowe

<b>Total Amount</b>	<b>\$267.08</b>			
<b>Payment Amt</b>	<b>\$0.00</b>			
<b>Amount Due</b>	<b>\$267.08</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-410
<b>Confirmation Notes:</b>				
<b>Text:</b>	Jean			

<b>Ad Type</b>	<b>Ad Size</b>	<b>Color</b>
Legal Liner	2.0 X 78 Li	<NONE>

<u>Product</u>	<u>Placement</u>	<u>Position</u>
Salt Lake Tribune::	Legal Liner Notice - 0998	Public Meeting/Hear-ing Notices
<b>Scheduled Date(s):</b>	6/14/2013	
<u>Product</u>	<u>Placement</u>	<u>Position</u>
Deseret News::	Legal Liner Notice - 0998	Public Meeting/Hear-ing Notices
<b>Scheduled Date(s):</b>	6/14/2013	
<u>Product</u>	<u>Placement</u>	<u>Position</u>
sltrib.com::	Legal Liner Notice - 0998	Public Meeting/Hear-ing Notices
<b>Scheduled Date(s):</b>	6/14/2013	
<u>Product</u>	<u>Placement</u>	<u>Position</u>
utahlegals.com::	utahlegals.com	utahlegals.com
<b>Scheduled Date(s):</b>	6/14/2013	

### Ad Content Proof Actual Size

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-410

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTION 15, TOWNSHIP 9 SOUTH, RANGE 15 EAST, AND SECTIONS 6, 15, 18, 19, 20, AND 30, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

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

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

**Greater Monument Butte Unit:**  
Ashley Federal 10-15-9-15 well located in NW/4 SE/4, Section 15, Township 9 South, Range 15 East  
API 43-013-32471  
West Point U 12-6-9-16 well located in NW/4 SW/4, Section 6, Township 9 South, Range 16 East  
API 43-013-31765  
Jonah Federal 16-15-9-16 well located in SE/4 SE/4, Section 15, Township 9 South, Range 16 East  
API 43-013-32754  
Federal 12-18-9-16 well located in NW/4 SW/4, Section 18, Township 9 South, Range 16 East  
API 43-013-32998  
Federal 14-18-9-16 well located in SE/4 SW/4, Section 18, Township 9 South, Range 16 East  
API 43-013-33000  
Federal 13-19-9-16 well located in SW/4 SW/4, Section 19, Township 9 South, Range 16 East  
API 43-013-33103  
Monument Federal 22-20-9-16 well located in SE/4 NW/4, Section 20, Township 9 South, Range 16 East  
API 43-013-31681  
Federal 3-30-9-16 well located in NE/4 NW/4, Section 30, Township 9 South, Range 16 East  
API 43-013-33454

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 11th day of June, 2013.  
STATE OF UTAH  
DIVISION OF OIL, GAS & MINING  
/s/  
Brad Hill  
Permitting Manager

886505

UPAXLP

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

**The Salt Lake Tribune**  
www.sltrib.com

**MEDIA One**  
A NEWSPAPER AGENCY COMPANY  
www.mediaplanet.com

**Deseret News**  
www.deseretnews.com

PROOF OF PUBLICATION

CUSTOMER'S COPY

CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	DATE
DIV OF OIL-GAS & MINING,  1594 W NORTH TEMP #1210 P.O. BOX 145801 SALT LAKE CITY, UT 84114	9001402352	6/14/2013

ACCOUNT NAME	
DIV OF OIL-GAS & MINING,	
TELEPHONE	ADORDER# / INVOICE NUMBER
8015385340	0000886505 /
SCHEDULE	
Start 06/14/2013	End 06/14/2013
CUST. REF. NO.	
Cause No. UIC-410	
CAPTION	
BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RE	
SIZE	
78 Lines	2.00 COLUMN
TIMES	RATE
4	
MISC. CHARGES	AD CHARGES
TOTAL COST	
267.08	

**BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-410**

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTION 15, TOWNSHIP 9 SOUTH, RANGE 15 EAST, AND SECTIONS 6, 15, 18, 19, 20, AND 30, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, A 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 10-15-9-15 well located in NW/4 SE/4 Section 15, Township 9 South, Range 15 East API 43-013-32471
  - West Point U 12-6-9-16 well located in NW/4 SW/4, Section 6, Township 9 South, Range 16 East API 43-013-31765
  - Jonah Federal 16-15-9-16 well located in SE/4 SE/4, Section 15, Township 9 South, Range 16 East API 43-013-32754
  - Federal 12-18-9-16 well located in NW/4 SW/4, Section 18, Township 9 South, Range 16 East API 43-013-32998
  - Federal 14-18-9-16 well located in SE/4 SW/4, Section 11, Township 9 South, Range 16 East API 43-013-33000
  - Federal 13-19-9-16 well located in SW/4 SW/4, Section 19, Township 9 South, Range 16 East API 43-013-33103
  - Monument Federal 22-20-9-16 well located in SE/4 NW/4, Section 20, Township 9 South, Range 16 East API 43-013-31681
  - Federal 3-30-9-16 well located in NE/4 NW/4, Section 31, Township 9 South, Range 16 East API 43-013-33454

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 pressure 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, 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 procedure rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 11th day of June, 2013.  
STATE OF UTAH  
DIVISION OF OIL, GAS & MINING  
/s/ Brad Hill  
Permitting Manager

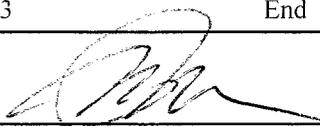
886505

UPAXLP

AFFIDAVIT OF PUBLICATION

AS NEWSPAPER AGENCY COMPANY, LLC dba MEDIAONE OF UTAH LEGAL BOOKER, I CERTIFY THAT THE ATTACHED ADVERTISEMENT OF **BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH NOTICE OF AGENCY ACTION CAUSE NO. UIC-410 IN THE MATTER OF THE APPLICA** FOR **DIV OF OIL-GAS & MINING**, WAS PUBLISHED BY THE NEWSPAPER AGENCY COMPANY, LLC dba MEDIAONE OF UTAH, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET NEWS, DAILY NEWSPAPERS PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN UTAH, AND PUBLISHED IN SALT LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH. NOTICE IS ALSO POSTED ON UTAHLEGALS.COM ON THE SAME DAY AS THE FIRST NEWSPAPER PUBLICATION DATE AND REMAINS ON UTAHLEGALS.COM INDEFINATELY.

PUBLISHED ON Start 06/14/2013 End 06/14/2013

SIGNATURE 

 **VIRGINIA CRAFT**  
Notary Public, State of Utah  
Commission # 581489  
My Commission Expires January 12, 2014

6/14/2013

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

# AFFIDAVIT OF PUBLICATION

## NOTICE OF AGENCY ACTION CAUSE NO. UIC-410

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 18 day of June, 20 13, and that the last publication of such notice was in the issue of such newspaper dated the 18 day of June, 20 13, and that said notice was published on Utahlegals.com on the same day as the first newspaper publication and the notice remained on Utahlegals.com until the end of the scheduled run.

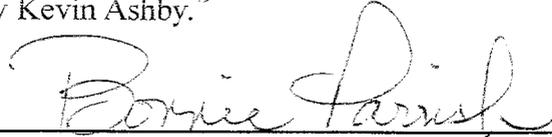


Publisher

Subscribed and sworn to before me on this

19 day of June, 20 13

by Kevin Ashby.



Notary Public



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

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTION 15, TOWNSHIP 9 SOUTH, RANGE 15 EAST, AND SECTIONS 6, 15, 18, 19, 20, and 30, 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:

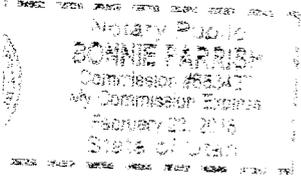
- Greater Monument Butte Unit:
  - Ashley Federal 10-15-9-15 well located in NW/4 SE/4, Section 15, Township 9 South, Range 15 East
    - API 43-013-32471
    - West Point U 12-6-9-16 well located in NW/4 SW/4, Section 6, Township 9 South, Range 16 East
      - API 43-013-31765
      - Jonah Federal 16-15-9-16 well located in SE/4 SE/4, Section 15, Township 9 South, Range 16 East
        - API 43-013-32754
        - Federal 12-18-9-

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 11th day of June, 2013.  
STATE OF UTAH  
DIVISION OF OIL, GAS & MINING  
/s/  
Brad Hill  
Permitting Manager  
Published in the  
Uintah Basin Standard  
June 18, 2013.

see Tarnish  
Notary Public



injection wells:  
Greater Monument  
Butte Unit:  
Ashley Federal 10-  
15-9-15 well located  
in NW/4 SE/4, Section  
15, Township 9 South,  
Range 15 East  
API 43-013-32471  
West Point U 12-6-  
9-16 well located in  
NW/4 SW/4, Section  
6, Township 9 South,  
Range 16 East  
API 43-013-31765  
Jonah Federal 16-  
15-9-16 well located  
in SE/4 SE/4, Section  
15, Township 9 South,  
Range 16 East  
API 43-013-32754  
Federal 12-18-9-  
16 well located in  
NW/4 SW/4, Section  
18, Township 9 South,  
Range 16 East  
API 43-013-32998  
Federal 14-18-9-  
16 well located in  
SE/4 SW/4, Section  
18, Township 9 South,  
Range 16 East  
API 43-013-33000  
Federal 13-19-9-  
16 well located in  
SW/4 SW/4, Section  
19, Township 9 South,  
Range 16 East  
API 43-013-33103  
Monument Federal  
22-20-9-16 well lo-  
cated in SE/4 NW/4,  
Section 20, Township  
9 South, Range 16 East  
API 43-013-31681  
Federal 3-30-9-16  
well located in NE/4  
NW/4, Section 30,  
Township 9 South,  
Range 16 East  
API 43-013-33454  
The proceeding will  
be conducted in ac-  
cordance with Utah  
Admin. R649-10, Ad-  
ministrative Proce-  
dures.

Permitting Manager  
Published in the  
Utah Basin Standard  
June 18, 2013.

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

**Applicant:** Newfield Production Company      **Well:** Federal 13-19-9-16

**Location:** 19/9S/16E      **API:** 43-013-33103

**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 319 feet and has a cement top at the surface. A 5½ inch production casing is set at 5,697 feet. The cement bond log is somewhat problematic but appears to demonstrate adequate bond in this well up to about 3,402 feet. A 2 7/8 inch tubing with a packer is proposed at 3,781 feet. Higher perforations will be opened at a later date. A mechanical integrity test will be run on the well prior to injection. Based on surface locations, there are 10 producing wells and 2 injection wells in the AOR. One of the wells shown as a producing well is permitted as an injection well but has not yet begun injecting. In addition, there is 1 currently permitted surface location outside the AOR, from which a directional well will be drilled to a bottom hole location inside the AOR. All of the existing wells have evidence of adequate casing and cement for the proposed injection interval.

**Ground Water Protection:** As interpreted from the Utah Geological Survey's DOE Project-Uinta Basin Water Draft Map (Paul B. Anderson, December 2, 2011), the base of moderately saline water (3000-10,000 mg/l TDS) is at a depth of approximately 2500 feet. Injection shall be limited to the interval between 3,658 feet and 5,654 feet in the Green River Formation. Information submitted by Newfield indicates that the fracture gradient for the 13-19-9-16 well is 0.78 psi/ft., which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 1,868 psig. The requested maximum pressure is 1,868 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 13-19-9-16**

**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: 6/19/2013



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

July 10, 2013

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

Subject: Greater Monument Butte Unit Well: Federal 13-19-9-16, Section 19, Township 9 South, Range 16 East, SLBM, Duchesne County, Utah, API Well # 43-013-33103

Gentlemen:

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

1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.
2. Conformance with all conditions and requirements of the complete application submitted by Newfield Production Company.
3. A casing\tubing pressure test shall be conducted prior to commencing injection.
4. Pressure shall be monitored between the surface casing and the production casing on a regular basis. Any pressure changes observed shall be reported to the Division immediately.
5. The top of the injection interval shall be limited to a depth no higher than 3,658 feet in the Federal 13-19-9-16 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





<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9  5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-74391
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: FEDERAL 13-19-9-16
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY	9. API NUMBER: 43013331030000
3. ADDRESS OF OPERATOR: Rt 3 Box 3630, Myton, UT, 84052	PHONE NUMBER: 435 646-4825 Ext
9. FIELD and POOL or WILDCAT: MONUMENT BUTTE	4. LOCATION OF WELL FOOTAGES AT SURFACE: 0588 FSL 0758 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 19 Township: 09.0S Range: 16.0E Meridian: S
COUNTY: DUCHESNE	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 9/5/2013  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input checked="" type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input checked="" type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input style="width: 100px;" type="text"/>

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 09/04/2013. On 09/04/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 09/05/2013 the casing was pressured up to 1520 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 200 psig during the test. There was not a State representative available to witness the test.

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

**Date:** September 17, 2013

**By:**

NAME (PLEASE PRINT) Lucy Chavez-Naupoto	PHONE NUMBER 435 646-4874	TITLE Water Services Technician
SIGNATURE N/A		DATE 9/13/2013

# Mechanical Integrity Test Casing or Annulus Pressure Test

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

Witness: \_\_\_\_\_ Date 9/5/13 Time 9:30  am  pm  
Test Conducted by: Johnny Daniels  
Others Present: \_\_\_\_\_

Well: <u>Fed. 13-19-9-10</u>	Field: <u>Monument Butte.</u>
Well Location: <u>SW/SW Sec 19</u> <u>T95 R16E Duchesne Co. UT</u>	API No: <u>4301333103</u>

<u>Time</u>	<u>Casing Pressure</u>	
0 min	<u>1500</u>	psig
5	<u>1500</u>	psig
10	<u>1500</u>	psig
15	<u>1500</u>	psig
20	<u>1500</u>	psig
25	<u>1500</u>	psig
30 min	<u>1500</u>	psig
35	_____	psig
40	_____	psig
45	_____	psig
50	_____	psig
55	_____	psig
60 min	_____	psig

Tubing pressure: 200 psig

Result:  Pass  Fail

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

Signature of Person Conducting Test: Johnny Daniels



## Daily Activity Report

Format For Sundry

**FEDERAL 13-19-9-16**

**7/1/2013 To 11/30/2013**

**9/5/2013 Day: 3**

**Conversion**

Basic #1629 on 9/5/2013 - test casing to 1400 p.s.i. hold 100 % for 30 minutes - 6:00-7:00 crew travel and safety meeting 7:00-8:00 rig down floor nipple down b.o.p. nipple up well head 8:00-8:30 pump packer fluid nipple down well head set packer fill casing nipple up well head 8:30-11:00 test casing to 1400 p.s.i. hold 100 % for 30 minutes 11:00-12:00 rig down load trucks and trailers - 9:00-10:00 road rig to location 10:00-11:00 spot rig at well rig up unload trucks and trailers 11:00-12:00 pump 60 bbls 250 degree water down casing rig down horse head change to rod equipment work pump off seat 12:00-1:00 flush rods with 40 bbls 250 degree water soft seat pump rig down flow lines and ratigan pressure test tubing to 3000 p.s.i. well did not test 1:00-4:00 lay down rods and pump change to tubing equipment 4:00-5:00 crew travel - 9:00-10:00 road rig to location 10:00-11:00 spot rig at well rig up unload trucks and trailers 11:00-12:00 pump 60 bbls 250 degree water down casing rig down horse head change to rod equipment work pump off seat 12:00-1:00 flush rods with 40 bbls 250 degree water soft seat pump rig down flow lines and ratigan pressure test tubing to 3000 p.s.i. well did not test 1:00-4:00 lay down rods and pump change to tubing equipment 4:00-5:00 crew travel - 6:00-7:00 crew travel and safety meeting 7:00-8:00 nipple down well head nipple up b.o.p. rig up workfloor tongs and slips 8:00-9:00 pump 60 bbls 250 degree water down casing 9:00-10:00 work tubing anchor free 10:00-2:00 p.o.o.h. with tubing breaking and teflon doping every connection 2:00-3:00 t.i.h. with tubng to landing depth 3:00-5:00 pump 15 bbl pad drop standing valve pressure test to 3000 p.s.i. hold 100 % for 30 minutes 5:00-6:00 r.i.h. retrieve standing valve secure well s.d.f.n. 6:00-7:00 crew travel - 6:00-7:00 crew travel and safety meeting 7:00-8:00 nipple down well head nipple up b.o.p. rig up workfloor tongs and slips 8:00-9:00 pump 60 bbls 250 degree water down casing 9:00-10:00 work tubing anchor free 10:00-2:00 p.o.o.h. with tubing breaking and teflon doping every connection 2:00-3:00 t.i.h. with tubng to landing depth 3:00-5:00 pump 15 bbl pad drop standing valve pressure test to 3000 p.s.i. hold 100 % for 30 minutes 5:00-6:00 r.i.h. retrieve standing valve secure well s.d.f.n. 6:00-7:00 crew travel - 9:00-10:00 road rig to location 10:00-11:00 spot rig at well rig up unload trucks and trailers 11:00-12:00 pump 60 bbls 250 degree water down casing rig down horse head change to rod equipment work pump off seat 12:00-1:00 flush rods with 40 bbls 250 degree water soft seat pump rig down flow lines and ratigan pressure test tubing to 3000 p.s.i. well did not test 1:00-4:00 lay down rods and pump change to tubing equipment 4:00-5:00 crew travel - 6:00-7:00 crew travel and safety meeting 7:00-8:00 rig down floor nipple down b.o.p. nipple up well head 8:00-8:30 pump packer fluid nipple down well head set packer fill casing nipple up well head 8:30-11:00 test casing to 1400 p.s.i. hold 100 % for 30 minutes 11:00-12:00 rig down load trucks and trailers - 6:00-7:00 crew travel and safety meeting 7:00-8:00 rig down floor nipple down b.o.p. nipple up well head 8:00-8:30 pump packer fluid nipple down well head set packer fill casing nipple up well head 8:30-11:00 test casing to 1400 p.s.i. hold 100 % for 30 minutes 11:00-12:00 rig down load trucks and trailers - 6:00-7:00 crew travel and safety meeting 7:00-8:00 nipple down well head nipple up b.o.p. rig up workfloor tongs and slips 8:00-9:00 pump 60 bbls 250 degree water down casing 9:00-10:00 work tubing anchor free 10:00-2:00 p.o.o.h. with tubing breaking and teflon doping every connection 2:00-3:00 t.i.h. with tubng to landing depth 3:00-5:00 pump 15 bbl pad drop standing valve pressure test to 3000 p.s.i. hold 100 % for 30 minutes 5:00-6:00 r.i.h. retrieve standing valve secure well s.d.f.n. 6:00-7:00 crew travel - 6:00-7:00 crew travel and safety meeting 7:00-8:00 nipple down well head nipple up b.o.p. rig up workfloor tongs and slips 8:00-9:00 pump 60 bbls 250 degree water down casing 9:00-10:00 work tubing anchor free 10:00-2:00 p.o.o.h. with tubing breaking and teflon doping every connection 2:00-3:00 t.i.h. with tubng to landing depth 3:00-5:00 pump 15 bbl pad drop standing valve pressure test to 3000 p.s.i. hold 100 % for 30 minutes 5:00-6:00

r.i.h. retrieve standing valve secure well s.d.f.n. 6:00-7:00 crew travel - 6:00-7:00 crew travel and safety meeting 7:00-8:00 nipple down well head nipple up b.o.p. rig up workfloor tongs and slips 8:00-9:00 pump 60 bbls 250 degree water down casing 9:00-10:00 work tubing anchor free 10:00-2:00 p.o.o.h. with tubing breaking and teflon doping every connection 2:00-3:00 t.i.h. with tubng to landing depth 3:00-5:00 pump 15 bbl pad drop standing valve pressure test to 3000 p.s.i. hold 100 % for 30 minutes 5:00-6:00 r.i.h. retrieve standing valve secure well s.d.f.n. 6:00-7:00 crew travel - 9:00-10:00 road rig to location 10:00-11:00 spot rig at well rig up unload trucks and trailers 11:00-12:00 pump 60 bbls 250 degree water down casing rig down horse head change to rod equipment work pump off seat 12:00-1:00 flush rods with 40 bbls 250 degree water soft seat pump rig down flow lines and ratigan pressure test tubing to 3000 p.s.i. well did not test 1:00-4:00 lay down rods and pump change to tubing equipment 4:00-5:00 crew travel - 9:00-10:00 road rig to location 10:00-11:00 spot rig at well rig up unload trucks and trailers 11:00-12:00 pump 60 bbls 250 degree water down casing rig down horse head change to rod equipment work pump off seat 12:00-1:00 flush rods with 40 bbls 250 degree water soft seat pump rig down flow lines and ratigan pressure test tubing to 3000 p.s.i. well did not test 1:00-4:00 lay down rods and pump change to tubing equipment 4:00-5:00 crew travel - 9:00-10:00 road rig to location 10:00-11:00 spot rig at well rig up unload trucks and trailers 11:00-12:00 pump 60 bbls 250 degree water down casing rig down horse head change to rod equipment work pump off seat 12:00-1:00 flush rods with 40 bbls 250 degree water soft seat pump rig down flow lines and ratigan pressure test tubing to 3000 p.s.i. well did not test 1:00-4:00 lay down rods and pump change to tubing equipment 4:00-5:00 crew travel - 6:00-7:00 crew travel and safety meeting 7:00-8:00 rig down floor nipple down b.o.p. nipple up well head 8:00-8:30 pump packer fluid nipple down well head set packer fill casing nipple up well head 8:30-11:00 test casing to 1400 p.s.i. hold 100 % for 30 minutes 11:00-12:00 rig down load trucks and trailers - 6:00-7:00 crew travel and safety meeting 7:00-8:00 rig down floor nipple down b.o.p. nipple up well head 8:00-8:30 pump packer fluid nipple down well head set packer fill casing nipple up well head 8:30-11:00 test casing to 1400 p.s.i. hold 100 % for 30 minutes 11:00-12:00 rig down load trucks and trailers - 6:00-7:00 crew travel and safety meeting 7:00-8:00 rig down floor nipple down b.o.p. nipple up well head 8:00-8:30 pump packer fluid nipple down well head set packer fill casing nipple up well head 8:30-11:00 test casing to 1400 p.s.i. hold 100 % for 30 minutes 11:00-12:00 rig down load trucks and trailers - 6:00-7:00 crew travel and safety meeting 7:00-8:00 nipple down well head nipple up b.o.p. rig up workfloor tongs and slips 8:00-9:00 pump 60 bbls 250 degree water down casing 9:00-10:00 work tubing anchor free 10:00-2:00 p.o.o.h. with tubing breaking and teflon doping every connection 2:00-3:00 t.i.h. with tubng to landing depth 3:00-5:00 pump 15 bbl pad drop standing valve pressure test to 3000 p.s.i. hold 100 % for 30 minutes 5:00-6:00 r.i.h. retrieve standing valve secure well s.d.f.n. 6:00-7:00 crew travel - 6:00-7:00 crew travel and safety meeting 7:00-8:00 nipple down well head nipple up b.o.p. rig up workfloor tongs and slips 8:00-9:00 pump 60 bbls 250 degree water down casing 9:00-10:00 work tubing anchor free 10:00-2:00 p.o.o.h. with tubing breaking and teflon doping every connection 2:00-3:00 t.i.h. with tubng to landing depth 3:00-5:00 pump 15 bbl pad drop standing valve pressure test to 3000 p.s.i. hold 100 % for 30 minutes 5:00-6:00 r.i.h. retrieve standing valve secure well s.d.f.n. 6:00-7:00 crew travel - 9:00-10:00 road rig to location 10:00-11:00 spot rig at well rig up unload trucks and trailers 11:00-12:00 pump 60 bbls 250 degree water down casing rig down horse head change to rod equipment work pump off seat 12:00-1:00 flush rods with 40 bbls 250 degree water soft seat pump rig down flow lines and ratigan pressure test tubing to 3000 p.s.i. well did not test 1:00-4:00 lay down rods and pump change to tubing equipment 4:00-5:00 crew travel - 9:00-10:00 road rig to location 10:00-11:00 spot rig at well rig up unload trucks and trailers 11:00-12:00 pump 60 bbls 250 degree water down casing rig down horse head change to rod equipment work pump off seat 12:00-

1:00 flush rods with 40 bbls 250 degree water soft seat pump rig down flow lines and ratigan pressure test tubing to 3000 p.s.i .well did not test 1:00-4:00lay down rods and pump change to tubing equipment 4:00-5:00 crew travel - 9:00-10:00 road rig to location 10:00-11:00 spot rig at well rig up unload trucks and trailers 11:00-12:00 pump 60 bbls 250 degree water down casing rig down horse head change to rod equipment work pump off seat 12:00-1:00 flush rods with 40 bbls 250 degree water soft seat pump rig down flow lines and ratigan pressure test tubing to 3000 p.s.i .well did not test 1:00-4:00lay down rods and pump change to tubing equipment 4:00-5:00 crew travel - 6:00-7:00 crew travel and safety meeting 7:00-8:00 rig down floor nipple down b.o.p. nipple up well head 8:00-8:30 pump packer fluid nipple down well head set packer fill casing nipple up well head 8:30-11:00 test casing to 1400 p.s.i. hold 100 % for 30 minutes 11:00-12:00 rig down load trucks and trailers - 6:00-7:00 crew travel and safety meeting 7:00-8:00 rig down floor nipple down b.o.p. nipple up well head 8:00-8:30 pump packer fluid nipple down well head set packer fill casing nipple up well head 8:30-11:00 test casing to 1400 p.s.i. hold 100 % for 30 minutes 11:00-12:00 rig down load trucks and trailers - 6:00-7:00 crew travel and safety meeting 7:00-8:00 rig down floor nipple down b.o.p. nipple up well head 8:00-8:30 pump packer fluid nipple down well head set packer fill casing nipple up well head 8:30-11:00 test casing to 1400 p.s.i. hold 100 % for 30 minutes 11:00-12:00 rig down load trucks and trailers - 6:00-7:00 crew travel and safety meeting 7:00-8:00 nipple down well head nipple up b.o.p. rig up workfloor tongs and slips 8:00-9:00 pump 60 bbls 250 degree water down casing 9:00-10:00 work tubing anchor free 10:00-2:00 p.o.o.h. with tubing breaking and teflon doping every connection 2:00-3:00 t.i.h. with tubng to landing depth 3:00-5:00 pump 15 bbl pad drop standing valve pressure test to 3000 p.s.i. hold 100 % for 30 minutes 5:00-6:00 r.i.h. retrieve standing valve secure well s.d.f.n. 6:00-7:00 crew travel - 6:00-7:00 crew travel and safety meeting 7:00-8:00 nipple down well head nipple up b.o.p. rig up workfloor tongs and slips 8:00-9:00 pump 60 bbls 250 degree water down casing 9:00-10:00 work tubing anchor free 10:00-2:00 p.o.o.h. with tubing breaking and teflon doping every connection 2:00-3:00 t.i.h. with tubng to landing depth 3:00-5:00 pump 15 bbl pad drop standing valve pressure test to 3000 p.s.i. hold 100 % for 30 minutes 5:00-6:00 r.i.h. retrieve standing valve secure well s.d.f.n. 6:00-7:00 crew travel - 9:00-10:00 road rig to location 10:00-11:00 spot rig at well rig up unload trucks and trailers 11:00-12:00 pump 60 bbls 250 degree water down casing rig down horse head change to rod equipment work pump off seat 12:00-1:00 flush rods with 40 bbls 250 degree water soft seat pump rig down flow lines and ratigan pressure test tubing to 3000 p.s.i .well did not test 1:00-4:00lay down rods and pump change to tubing equipment 4:00-5:00 crew travel - 9:00-10:00 road rig to location 10:00-11:00 spot rig at well rig up unload trucks and trailers 11:00-12:00 pump 60 bbls 250 degree water down casing rig down horse head change to rod equipment work pump off seat 12:00-1:00 flush rods with 40 bbls 250 degree water soft seat pump rig down flow lines and ratigan pressure test tubing to 3000 p.s.i .well did not test 1:00-4:00lay down rods and pump change to tubing equipment 4:00-5:00 crew travel - 6:00-7:00 crew travel and safety meeting 7:00-8:00 rig down floor nipple down b.o.p. nipple up well head 8:00-8:30 pump packer fluid nipple down well head set packer fill casing nipple up well head 8:30-11:00 test casing to 1400 p.s.i. hold 100 % for 30 minutes 11:00-12:00 rig down load trucks and trailers - 6:00-7:00 crew travel and safety meeting 7:00-8:00 rig down floor nipple down b.o.p. nipple up well head 8:00-8:30 pump packer fluid nipple down well head set packer fill casing nipple up well head 8:30-11:00 test casing to 1400 p.s.i. hold 100 % for 30 minutes 11:00-12:00 rig down load trucks and



**9/6/2013 Day: 4**

**Conversion**

Rigless on 9/6/2013 - Conduct initial MIT - On 09/04/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 09/05/2013 the casing was pressured up to 1520 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 200 psig during the test. There was not a State representative available to witness the test. - On 09/04/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 09/05/2013 the casing was pressured up to 1520 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 200 psig during the test. There was not a State representative available to witness the test. - On 09/04/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 09/05/2013 the casing was pressured up to 1520 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 200 psig during the test. There was not a State representative available to witness the test. - On 09/04/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 09/05/2013 the casing was pressured up to 1520 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 200 psig during the test. There was not a State representative available to witness the test. - On 09/04/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 09/05/2013 the casing was pressured up to 1520 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 200 psig during the test. There was not a State representative available to witness the test. **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$58,294

**Pertinent Files: Go to File List**

# Federal 13-19-9-16

Sprid Date: 7/18/2009  
 Put on Production: 8/20/2009  
 GL: 6044' KB: 6056'

Injection Wellbore  
 Diagram

**SURFACE CASING**

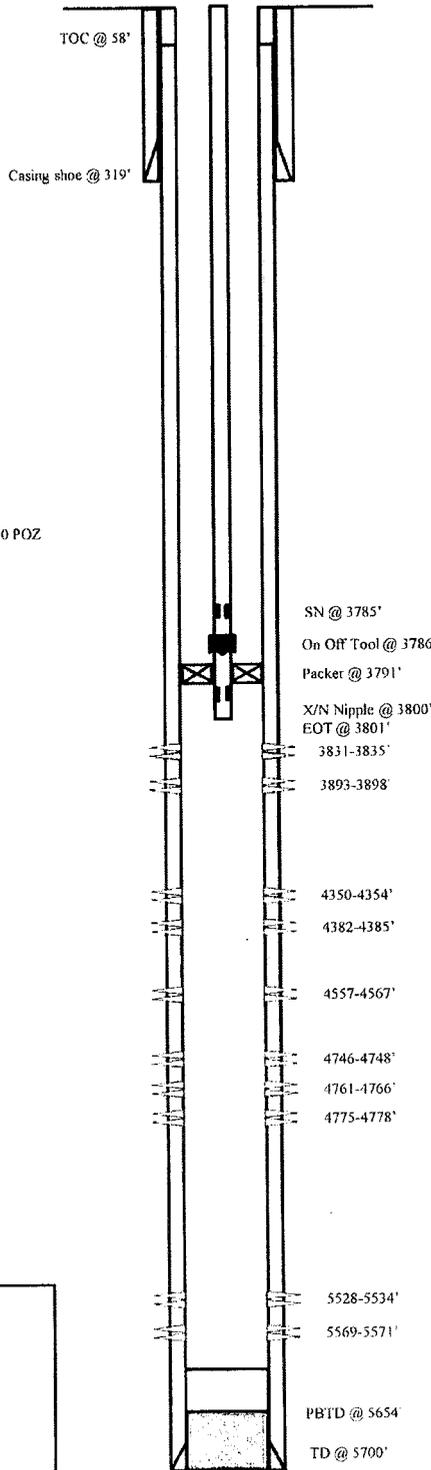
CSG SIZE 8-5/8"  
 GRADE J-55  
 WEIGHT 24#  
 LENGTH: 7 jts (30 7 17')  
 DEPTH LANDED 319.02'  
 HOLE SIZE 12-1/4"  
 CEMENT DATA 160 sxs Class "G" cmt

**PRODUCTION CASING**

CSG SIZE 5-1/2"  
 GRADE J-55  
 WEIGHT 15.5#  
 LENGTH: 143 jts (5642 16')  
 HOLE SIZE 7-7/8"  
 DEPTH LANDED 5696.9'  
 CEMENT DATA 275 sx Prem Lite II mixed & 400 sx 50/50 POZ  
 CEMENT TOP AT 58'

**TUBING**

SIZE/GRADE/WT 2-7/8" / J-55 / 6.5#  
 NO OF JOINTS 120 jts (3772 8')  
 SEATING NIPPLE 2-7/8" (1 10')  
 SN LANDED AT 3784 8' KB  
 ON/OFF TOOL AT 3785 9'  
 ARROW #1 PACKER CE AT 3791 4'  
 XO 2-3/8 x 2-7/8 J-55 AT 3794 8'  
 TBG PUP 2-3/8 J-55 AT 3795 3'  
 X/N NIPPLE AT 3799 6'  
 TOTAL STRING LENGTH BOT @ 3800 9'



**FRAC JOB**

8-21-09	5528-5571'	Frac CP5 sands as follows: Frac with 15618# 20/40 sand in 124 bbbs Lightning 17 fluid
8-21-09	4746-4778'	Frac A1 sands as follows: Frac with 60817# 20/40 sand in 358 bbbs Lightning 17 fluid
8-21-09	4557-4567'	Frac B.5 sands as follows: Frac with 15408# 20/40 sand in 124 bbbs Lightning 17 fluid
8-21-09	4350-4385'	Frac D1 & D2 sands as follows: Frac with 61285# 20/40 sand in 360 bbbs Lightning 17 fluid
8-21-09	3831-3898'	Frac GB4 & GB5 sands as follows: Frac with 84734# 20/40 sand in 506 bbbs Lightning 17 fluid
9/30/09		Pump Change Updated rod & tubing details
11/30/2009		Pump Change Updated rod and tubing detail
05/01/10		Pump Change Updated rod and tubing detail
07/23/11		Pump Change Rods & tubing updated
09/04/13		Convert to Injection Well
09/05/13		Conversion MIT Finalized - update tbg detail

**PERFORATION RECORD**

5569-5571'	3 JSPF	6 holes
5528-5534'	3 JSPF	18 holes
4775-4778'	3 JSPF	9 holes
4761-4766'	3 JSPF	15 holes
4746-4748'	3 JSPF	6 holes
4557-4567'	3 JSPF	30 holes
4382-4385'	3 JSPF	9 holes
4350-4354'	3 JSPF	12 holes
3893-3898'	3 JSPF	15 holes
3831-3835'	3 JSPF	12 holes

**NEWFIELD**

**Federal 13-19-9-16**  
 588' FSL & 758' FWL SWSW  
 Section 19-T9S-R16E  
 Duchesne Co, Utah  
 API # 43-013-33103; Lease # UTU-74391

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-74391
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)
1. TYPE OF WELL Water Injection Well	8. WELL NAME and NUMBER: FEDERAL 13-19-9-16
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY	9. API NUMBER: 43013331030000
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052	PHONE NUMBER: 435 646-4825 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0588 FSL 0758 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 19 Township: 09.0S Range: 16.0E Meridian: S	9. FIELD and POOL or WILDCAT: MONUMENT BUTTE
	COUNTY: DUCHESNE
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 9/27/2013	<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 9:00 AM on  
09/27/2013.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
October 07, 2013**

NAME (PLEASE PRINT) Lucy Chavez-Naupoto	PHONE NUMBER 435 646-4874	TITLE Water Services Technician
SIGNATURE N/A	DATE 10/4/2013	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-74391
1. TYPE OF WELL Oil Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY	7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052	8. WELL NAME and NUMBER: FEDERAL 13-19-9-16
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0588 FSL 0758 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 19 Township: 09.0S Range: 16.0E Meridian: S	9. API NUMBER: 43013331030000
9. FIELD and POOL or WILDCAT: MONUMENT BUTTE	COUNTY: DUCHESNE
9. API NUMBER: 43013331030000	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 9/5/2013	<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 09/04/2013. On 09/04/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 09/05/2013 the casing was pressured up to 1520 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 200 psig during the test. There was not a State representative available to witness the test.

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

Date: September 17, 2013

By: 

<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 9/13/2013	

# Mechanical Integrity Test Casing or Annulus Pressure Test

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

Witness: \_\_\_\_\_ Date 9/5/13 Time 9:30  am  pm  
Test Conducted by: Jonny Daniels  
Others Present: \_\_\_\_\_

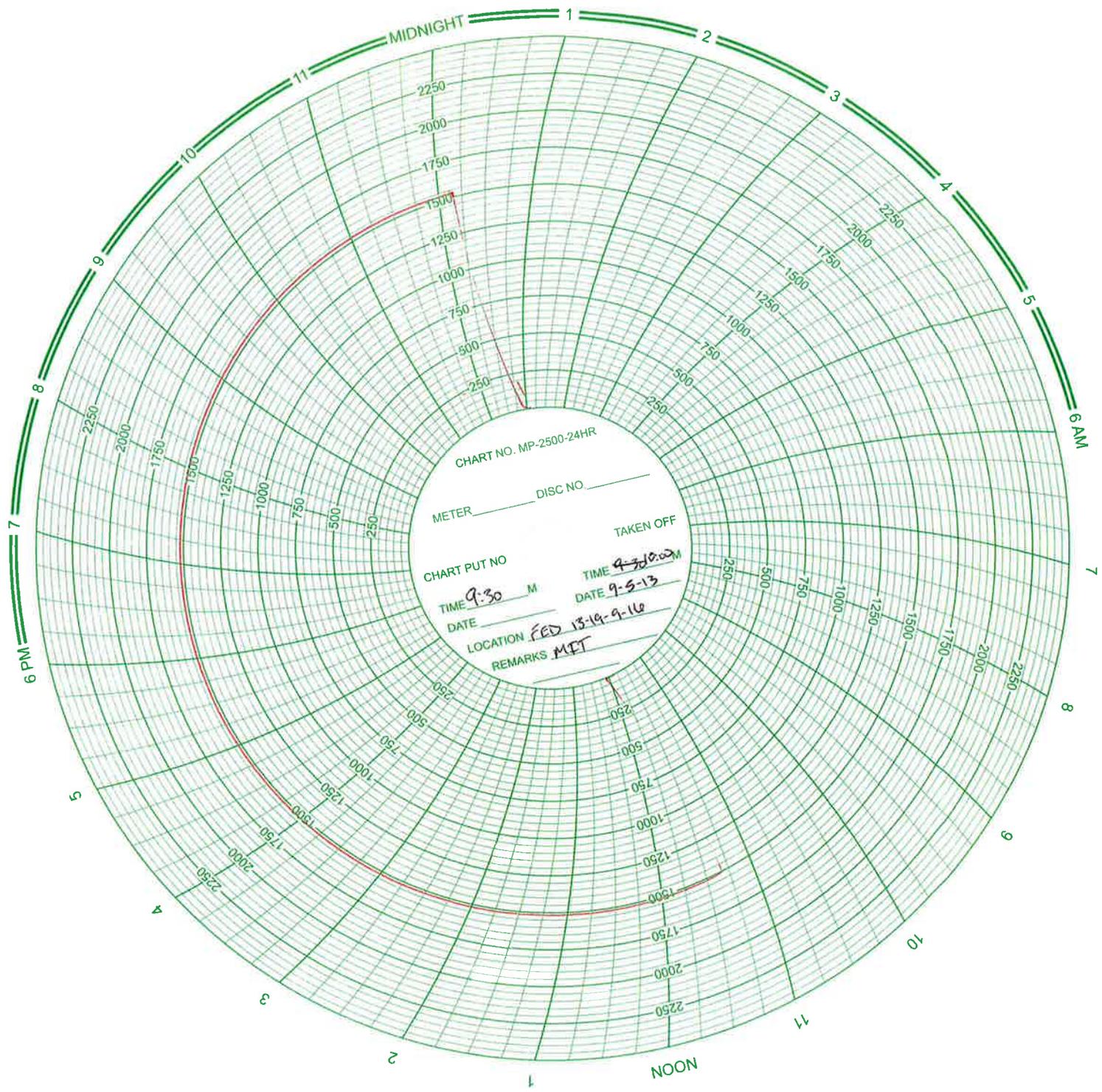
Well: <u>Fed. 13-19-9-11</u>	Field: <u>Monument Butte.</u>
Well Location: <u>SW 1/4 Sec 19</u> <u>T9S R16E Duchesne Co. UT</u>	API No: <u>4301333103</u>

<u>Time</u>	<u>Casing Pressure</u>	
0 min	<u>1500</u>	psig
5	<u>1500</u>	psig
10	<u>1500</u>	psig
15	<u>1500</u>	psig
20	<u>1500</u>	psig
25	<u>1520</u>	psig
30 min	<u>1520</u>	psig
35	_____	psig
40	_____	psig
45	_____	psig
50	_____	psig
55	_____	psig
60 min	_____	psig

Tubing pressure: 200 psig

Result:  **Pass**  **Fail**

Signature of Witness: \_\_\_\_\_  
Signature of Person Conducting Test: Jonny Daniels



## Daily Activity Report

Format For Sundry

**FEDERAL 13-19-9-16**

**7/1/2013 To 11/30/2013**

**9/5/2013 Day: 3**

**Conversion**

Basic #1629 on 9/5/2013 - test casing to 1400 p.s.i. hold 100 % for 30 minutes - 6:00-7:00 crew travel and safety meeting 7:00-8:00 rig down floor nipple down b.o.p. nipple up well head 8:00-8:30 pump packer fluid nipple down well head set packer fill casing nipple up well head 8:30-11:00 test casing to 1400 p.s.i. hold 100 % for 30 minutes 11:00-12:00 rig down load trucks and trailers - 9:00-10:00 road rig to location 10:00-11:00 spot rig at well rig up unload trucks and trailers 11:00-12:00 pump 60 bbls 250 degree water down casing rig down horse head change to rod equipment work pump off seat 12:00-1:00 flush rods with 40 bbls 250 degree water soft seat pump rig down flow lines and ratigan pressure test tubing to 3000 p.s.i .well did not test 1:00-4:00lay down rods and pump change to tubing equipment 4:00-5:00 crew travel - 9:00-10:00 road rig to location 10:00-11:00 spot rig at well rig up unload trucks and trailers 11:00-12:00 pump 60 bbls 250 degree water down casing rig down horse head change to rod equipment work pump off seat 12:00-1:00 flush rods with 40 bbls 250 degree water soft seat pump rig down flow lines and ratigan pressure test tubing to 3000 p.s.i .well did not test 1:00-4:00lay down rods and pump change to tubing equipment 4:00-5:00 crew travel - 6:00-7:00 crew travel and safety meeting 7:00-8:00 nipple down well head nipple up b.o.p. rig up workfloor tongs and slips 8:00-9:00 pump 60 bbls 250 degree water down casing 9:00-10:00 work tubing anchor free 10:00-2:00 p.o.o.h. with tubing breaking and teflon doping every connection 2:00-3:00 t.i.h. with tubng to landing depth 3:00-5:00 pump 15 bbl pad drop standing valve pressure test to 3000 p.s.i. hold 100 % for 30 minutes 5:00-6:00 r.i.h. retrieve standing valve secure well s.d.f.n. 6:00-7:00 crew travel - 6:00-7:00 crew travel and safety meeting 7:00-8:00 nipple down well head nipple up b.o.p. rig up workfloor tongs and slips 8:00-9:00 pump 60 bbls 250 degree water down casing 9:00-10:00 work tubing anchor free 10:00-2:00 p.o.o.h. with tubing breaking and teflon doping every connection 2:00-3:00 t.i.h. with tubng to landing depth 3:00-5:00 pump 15 bbl pad drop standing valve pressure test to 3000 p.s.i. hold 100 % for 30 minutes 5:00-6:00 r.i.h. retrieve standing valve secure well s.d.f.n. 6:00-7:00 crew travel - 9:00-10:00 road rig to location 10:00-11:00 spot rig at well rig up unload trucks and trailers 11:00-12:00 pump 60 bbls 250 degree water down casing rig down horse head change to rod equipment work pump off seat 12:00-1:00 flush rods with 40 bbls 250 degree water soft seat pump rig down flow lines and ratigan pressure test tubing to 3000 p.s.i .well did not test 1:00-4:00lay down rods and pump change to tubing equipment 4:00-5:00 crew travel - 6:00-7:00 crew travel and safety meeting 7:00-8:00 rig down floor nipple down b.o.p. nipple up well head 8:00-8:30 pump packer fluid nipple down well head set packer fill casing nipple up well head 8:30-11:00 test casing to 1400 p.s.i. hold 100 % for 30 minutes 11:00-12:00 rig down load trucks and trailers - 6:00-7:00 crew travel and safety meeting 7:00-8:00 rig down floor nipple down b.o.p. nipple up well head 8:00-8:30 pump packer fluid nipple down well head set packer fill casing nipple up well head 8:30-11:00 test casing to 1400 p.s.i. hold 100 % for 30 minutes 11:00-12:00 rig down load trucks and trailers - 6:00-7:00 crew travel and safety meeting 7:00-8:00 nipple down well head nipple up b.o.p. rig up workfloor tongs and slips 8:00-9:00 pump 60 bbls 250 degree water down casing 9:00-10:00 work tubing anchor free 10:00-2:00 p.o.o.h. with tubing breaking and teflon doping every connection 2:00-3:00 t.i.h. with tubng to landing depth 3:00-5:00 pump 15 bbl pad drop standing valve pressure test to 3000 p.s.i. hold 100 % for 30 minutes 5:00-6:00 r.i.h. retrieve standing valve secure well s.d.f.n. 6:00-7:00 crew travel - 6:00-7:00 crew travel and safety meeting 7:00-8:00 nipple down well head nipple up b.o.p. rig up workfloor tongs and slips 8:00-9:00 pump 60 bbls 250 degree water down casing 9:00-10:00 work tubing anchor free 10:00-2:00 p.o.o.h. with tubing breaking and teflon doping every connection 2:00-3:00 t.i.h. with tubng to landing depth 3:00-5:00 pump 15 bbl pad drop standing valve pressure test to 3000 p.s.i. hold 100 % for 30 minutes 5:00-6:00

r.i.h. retrieve standing valve secure well s.d.f.n. 6:00-7:00 crew travel - 6:00-7:00 crew travel and safety meeting 7:00-8:00 nipple down well head nipple up b.o.p. rig up workfloor tongs and slips 8:00-9:00 pump 60 bbls 250 degree water down casing 9:00-10:00 work tubing anchor free 10:00-2:00 p.o.o.h. with tubing breaking and teflon doping every connection 2:00-3:00 t.i.h. with tubng to landing depth 3:00-5:00 pump 15 bbl pad drop standing valve pressure test to 3000 p.s.i. hold 100 % for 30 minutes 5:00-6:00 r.i.h. retrieve standing valve secure well s.d.f.n. 6:00-7:00 crew travel - 9:00-10:00 road rig to location 10:00-11:00 spot rig at well rig up unload trucks and trailers 11:00-12:00 pump 60 bbls 250 degree water down casing rig down horse head change to rod equipment work pump off seat 12:00-1:00 flush rods with 40 bbls 250 degree water soft seat pump rig down flow lines and ratigan pressure test tubing to 3000 p.s.i. well did not test 1:00-4:00 lay down rods and pump change to tubing equipment 4:00-5:00 crew travel - 9:00-10:00 road rig to location 10:00-11:00 spot rig at well rig up unload trucks and trailers 11:00-12:00 pump 60 bbls 250 degree water down casing rig down horse head change to rod equipment work pump off seat 12:00-1:00 flush rods with 40 bbls 250 degree water soft seat pump rig down flow lines and ratigan pressure test tubing to 3000 p.s.i. well did not test 1:00-4:00 lay down rods and pump change to tubing equipment 4:00-5:00 crew travel - 9:00-10:00 road rig to location 10:00-11:00 spot rig at well rig up unload trucks and trailers 11:00-12:00 pump 60 bbls 250 degree water down casing rig down horse head change to rod equipment work pump off seat 12:00-1:00 flush rods with 40 bbls 250 degree water soft seat pump rig down flow lines and ratigan pressure test tubing to 3000 p.s.i. well did not test 1:00-4:00 lay down rods and pump change to tubing equipment 4:00-5:00 crew travel - 6:00-7:00 crew travel and safety meeting 7:00-8:00 rig down floor nipple down b.o.p. nipple up well head 8:00-8:30 pump packer fluid nipple down well head set packer fill casing nipple up well head 8:30-11:00 test casing to 1400 p.s.i. hold 100 % for 30 minutes 11:00-12:00 rig down load trucks and trailers - 6:00-7:00 crew travel and safety meeting 7:00-8:00 rig down floor nipple down b.o.p. nipple up well head 8:00-8:30 pump packer fluid nipple down well head set packer fill casing nipple up well head 8:30-11:00 test casing to 1400 p.s.i. hold 100 % for 30 minutes 11:00-12:00 rig down load trucks and trailers - 6:00-7:00 crew travel and safety meeting 7:00-8:00 rig down floor nipple down b.o.p. nipple up well head 8:00-8:30 pump packer fluid nipple down well head set packer fill casing nipple up well head 8:30-11:00 test casing to 1400 p.s.i. hold 100 % for 30 minutes 11:00-12:00 rig down load trucks and trailers - 6:00-7:00 crew travel and safety meeting 7:00-8:00 nipple down well head nipple up b.o.p. rig up workfloor tongs and slips 8:00-9:00 pump 60 bbls 250 degree water down casing 9:00-10:00 work tubing anchor free 10:00-2:00 p.o.o.h. with tubing breaking and teflon doping every connection 2:00-3:00 t.i.h. with tubng to landing depth 3:00-5:00 pump 15 bbl pad drop standing valve pressure test to 3000 p.s.i. hold 100 % for 30 minutes 5:00-6:00 r.i.h. retrieve standing valve secure well s.d.f.n. 6:00-7:00 crew travel - 6:00-7:00 crew travel and safety meeting 7:00-8:00 nipple down well head nipple up b.o.p. rig up workfloor tongs and slips 8:00-9:00 pump 60 bbls 250 degree water down casing 9:00-10:00 work tubing anchor free 10:00-2:00 p.o.o.h. with tubing breaking and teflon doping every connection 2:00-3:00 t.i.h. with tubng to landing depth 3:00-5:00 pump 15 bbl pad drop standing valve pressure test to 3000 p.s.i. hold 100 % for 30 minutes 5:00-6:00 r.i.h. retrieve standing valve secure well s.d.f.n. 6:00-7:00 crew travel - 9:00-10:00 road rig to location 10:00-11:00 spot rig at well rig up unload trucks and trailers 11:00-12:00 pump 60 bbls 250 degree water down casing rig down horse head change to rod equipment work pump off seat 12:00-1:00 flush rods with 40 bbls 250 degree water soft seat pump rig down flow lines and ratigan pressure test tubing to 3000 p.s.i. well did not test 1:00-4:00 lay down rods and pump change to tubing equipment 4:00-5:00 crew travel - 9:00-10:00 road rig to location 10:00-11:00 spot rig at well rig up unload trucks and trailers 11:00-12:00 pump 60 bbls 250 degree water down casing rig down horse head change to rod equipment work pump off seat 12:00-

1:00 flush rods with 40 bbls 250 degree water soft seat pump rig down flow lines and ratigan pressure test tubing to 3000 p.s.i .well did not test 1:00-4:00lay down rods and pump change to tubing equipment 4:00-5:00 crew travel - 9:00-10:00 road rig to location 10:00-11:00 spot rig at well rig up unload trucks and trailers 11:00-12:00 pump 60 bbls 250 degree water down casing rig down horse head change to rod equipment work pump off seat 12:00-1:00 flush rods with 40 bbls 250 degree water soft seat pump rig down flow lines and ratigan pressure test tubing to 3000 p.s.i .well did not test 1:00-4:00lay down rods and pump change to tubing equipment 4:00-5:00 crew travel - 6:00-7:00 crew travel and safety meeting 7:00-8:00 rig down floor nipple down b.o.p. nipple up well head 8:00-8:30 pump packer fluid nipple down well head set packer fill casing nipple up well head 8:30-11:00 test casing to 1400 p.s.i. hold 100 % for 30 minutes 11:00-12:00 rig down load trucks and trailers - 6:00-7:00 crew travel and safety meeting 7:00-8:00 rig down floor nipple down b.o.p. nipple up well head 8:00-8:30 pump packer fluid nipple down well head set packer fill casing nipple up well head 8:30-11:00 test casing to 1400 p.s.i. hold 100 % for 30 minutes 11:00-12:00 rig down load trucks and trailers - 6:00-7:00 crew travel and safety meeting 7:00-8:00 rig down floor nipple down b.o.p. nipple up well head 8:00-8:30 pump packer fluid nipple down well head set packer fill casing nipple up well head 8:30-11:00 test casing to 1400 p.s.i. hold 100 % for 30 minutes 11:00-12:00 rig down load trucks and trailers - 6:00-7:00 crew travel and safety meeting 7:00-8:00 nipple down well head nipple up b.o.p. rig up workfloor tongs and slips 8:00-9:00 pump 60 bbls 250 degree water down casing 9:00-10:00 work tubing anchor free 10:00-2:00 p.o.o.h. with tubing breaking and teflon doping every connection 2:00-3:00 t.i.h. with tubng to landing depth 3:00-5:00 pump 15 bbl pad drop standing valve pressure test to 3000 p.s.i. hold 100 % for 30 minutes 5:00-6:00 r.i.h. retrieve standing valve secure well s.d.f.n. 6:00-7:00 crew travel - 6:00-7:00 crew travel and safety meeting 7:00-8:00 nipple down well head nipple up b.o.p. rig up workfloor tongs and slips 8:00-9:00 pump 60 bbls 250 degree water down casing 9:00-10:00 work tubing anchor free 10:00-2:00 p.o.o.h. with tubing breaking and teflon doping every connection 2:00-3:00 t.i.h. with tubng to landing depth 3:00-5:00 pump 15 bbl pad drop standing valve pressure test to 3000 p.s.i. hold 100 % for 30 minutes 5:00-6:00 r.i.h. retrieve standing valve secure well s.d.f.n. 6:00-7:00 crew travel - 9:00-10:00 road rig to location 10:00-11:00 spot rig at well rig up unload trucks and trailers 11:00-12:00 pump 60 bbls 250 degree water down casing rig down horse head change to rod equipment work pump off seat 12:00-1:00 flush rods with 40 bbls 250 degree water soft seat pump rig down flow lines and ratigan pressure test tubing to 3000 p.s.i .well did not test 1:00-4:00lay down rods and pump change to tubing equipment 4:00-5:00 crew travel - 9:00-10:00 road rig to location 10:00-11:00 spot rig at well rig up unload trucks and trailers 11:00-12:00 pump 60 bbls 250 degree water down casing rig down horse head change to rod equipment work pump off seat 12:00-1:00 flush rods with 40 bbls 250 degree water soft seat pump rig down flow lines and ratigan pressure test tubing to 3000 p.s.i .well did not test 1:00-4:00lay down rods and pump change to tubing equipment 4:00-5:00 crew travel - 6:00-7:00 crew travel and safety meeting 7:00-8:00 rig down floor nipple down b.o.p. nipple up well head 8:00-8:30 pump packer fluid nipple down well head set packer fill casing nipple up well head 8:30-11:00 test casing to 1400 p.s.i. hold 100 % for 30 minutes 11:00-12:00 rig down load trucks and trailers - 6:00-7:00 crew travel and safety meeting 7:00-8:00 rig down floor nipple down b.o.p. nipple up well head 8:00-8:30 pump packer fluid nipple down well head set packer fill casing nipple up well head 8:30-11:00 test casing to 1400 p.s.i. hold 100 % for 30 minutes 11:00-12:00 rig down load trucks and

trailers - 6:00-7:00 crew travel and safety meeting 7:00-8:00 rig down floor nipple down b.o.p. nipple up well head 8:00-8:30 pump packer fluid nipple down well head set packer fill casing nipple up well head 8:30-11:00 test casing to 1400 p.s.i. hold 100 % for 30 minutes 11:00-12:00 rig down load trucks and trailers - 6:00-7:00 crew travel and safety meeting 7:00-8:00 nipple down well head nipple up b.o.p. rig up workfloor tongs and slips 8:00-9:00 pump 60 bbls 250 degree water down casing 9:00-10:00 work tubing anchor free 10:00-2:00 p.o.o.h. with tubing breaking and teflon doping every connection 2:00-3:00 t.i.h. with tubng to landing depth 3:00-5:00 pump 15 bbl pad drop standing valve pressure test to 3000 p.s.i. hold 100 % for 30 minutes 5:00-6:00 r.i.h. retrieve standing valve secure well s.d.f.n. 6:00-7:00 crew travel - 6:00-7:00 crew travel and safety meeting 7:00-8:00 nipple down well head nipple up b.o.p. rig up workfloor tongs and slips 8:00-9:00 pump 60 bbls 250 degree water down casing 9:00-10:00 work tubing anchor free 10:00-2:00 p.o.o.h. with tubing breaking and teflon doping every connection 2:00-3:00 t.i.h. with tubng to landing depth 3:00-5:00 pump 15 bbl pad drop standing valve pressure test to 3000 p.s.i. hold 100 % for 30 minutes 5:00-6:00 r.i.h. retrieve standing valve secure well s.d.f.n. 6:00-7:00 crew travel - 6:00-7:00 crew travel and safety meeting 7:00-8:00 nipple down well head nipple up b.o.p. rig up workfloor tongs and slips 8:00-9:00 pump 60 bbls 250 degree water down casing 9:00-10:00 work tubing anchor free 10:00-2:00 p.o.o.h. with tubing breaking and teflon doping every connection 2:00-3:00 t.i.h. with tubng to landing depth 3:00-5:00 pump 15 bbl pad drop standing valve pressure test to 3000 p.s.i. hold 100 % for 30 minutes 5:00-6:00 r.i.h. retrieve standing valve secure well s.d.f.n. 6:00-7:00 crew travel - 9:00-10:00 road rig to location 10:00-11:00 spot rig at well rig up unload trucks and trailers 11:00-12:00 pump 60 bbls 250 degree water down casing rig down horse head change to rod equipment work pump off seat 12:00-1:00 flush rods with 40 bbls 250 degree water soft seat pump rig down flow lines and ratigan pressure test tubing to 3000 p.s.i. well did not test 1:00-4:00 lay down rods and pump change to tubing equipment 4:00-5:00 crew travel - 9:00-10:00 road rig to location 10:00-11:00 spot rig at well rig up unload trucks and trailers 11:00-12:00 pump 60 bbls 250 degree water down casing rig down horse head change to rod equipment work pump off seat 12:00-1:00 flush rods with 40 bbls 250 degree water soft seat pump rig down flow lines and ratigan pressure test tubing to 3000 p.s.i. well did not test 1:00-4:00 lay down rods and pump change to tubing equipment 4:00-5:00 crew travel - 9:00-10:00 road rig to location 10:00-11:00 spot rig at well rig up unload trucks and trailers 11:00-12:00 pump 60 bbls 250 degree water down casing rig down horse head change to rod equipment work pump off seat 12:00-1:00 flush rods with 40 bbls 250 degree water soft seat pump rig down flow lines and ratigan pressure test tubing to 3000 p.s.i. well did not test 1:00-4:00 lay down rods and pump change to tubing equipment 4:00-5:00 crew travel - 6:00-7:00 crew travel and safety meeting 7:00-8:00 rig down floor nipple down b.o.p. nipple up well head 8:00-8:30 pump packer fluid nipple down well head set packer fill casing nipple up well head 8:30-11:00 test casing to 1400 p.s.i. hold 100 % for 30 minutes 11:00-12:00 rig down load trucks and trailers - 6:00-7:00 crew travel and safety meeting 7:00-8:00 rig down floor nipple down b.o.p. nipple up well head 8:00-8:30 pump packer fluid nipple down well head set packer fill casing nipple up well head 8:30-11:00 test casing to 1400 p.s.i. hold 100 % for 30 minutes 11:00-12:00 rig down load trucks and trailers - 6:00-7:00 crew travel and safety meeting 7:00-8:00 rig down floor nipple down b.o.p. nipple up well head 8:00-8:30 pump packer fluid nipple down well head set packer fill casing nipple up well head 8:30-11:00 test casing to 1400 p.s.i. hold 100 % for 30 minutes 11:00-12:00 rig down load trucks and trailers - 6:00-7:00 crew travel and safety meeting 7:00-8:00 nipple down well head nipple up b.o.p. rig up workfloor tongs and slips 8:00-9:00 pump 60 bbls 250 degree water down casing 9:00-10:00 work tubing anchor free 10:00-2:00 p.o.o.h. with tubing breaking and teflon doping every connection 2:00-3:00 t.i.h. with tubng to landing depth 3:00-5:00 pump 15 bbl pad drop standing valve pressure test to 3000 p.s.i. hold 100 % for 30 minutes 5:00-6:00 r.i.h. retrieve standing valve secure well s.d.f.n. 6:00-7:00 crew travel **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$26,082

**9/6/2013 Day: 4**

**Conversion**

Rigless on 9/6/2013 - Conduct initial MIT - On 09/04/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 09/05/2013 the casing was pressured up to 1520 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 200 psig during the test. There was not a State representative available to witness the test. - On 09/04/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 09/05/2013 the casing was pressured up to 1520 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 200 psig during the test. There was not a State representative available to witness the test. - On 09/04/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 09/05/2013 the casing was pressured up to 1520 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 200 psig during the test. There was not a State representative available to witness the test. - On 09/04/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 09/05/2013 the casing was pressured up to 1520 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 200 psig during the test. There was not a State representative available to witness the test. - On 09/04/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 09/05/2013 the casing was pressured up to 1520 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 200 psig during the test. There was not a State representative available to witness the test. **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$58,294

---

**Pertinent Files: Go to File List**

# Federal 13-19-9-16

Spud Date: 7/18/2009  
 Put on Production: 8/20/2009  
 GL: 6044' KB: 6056'

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (30.7 17')  
 DEPTH LANDED: 319.02'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt

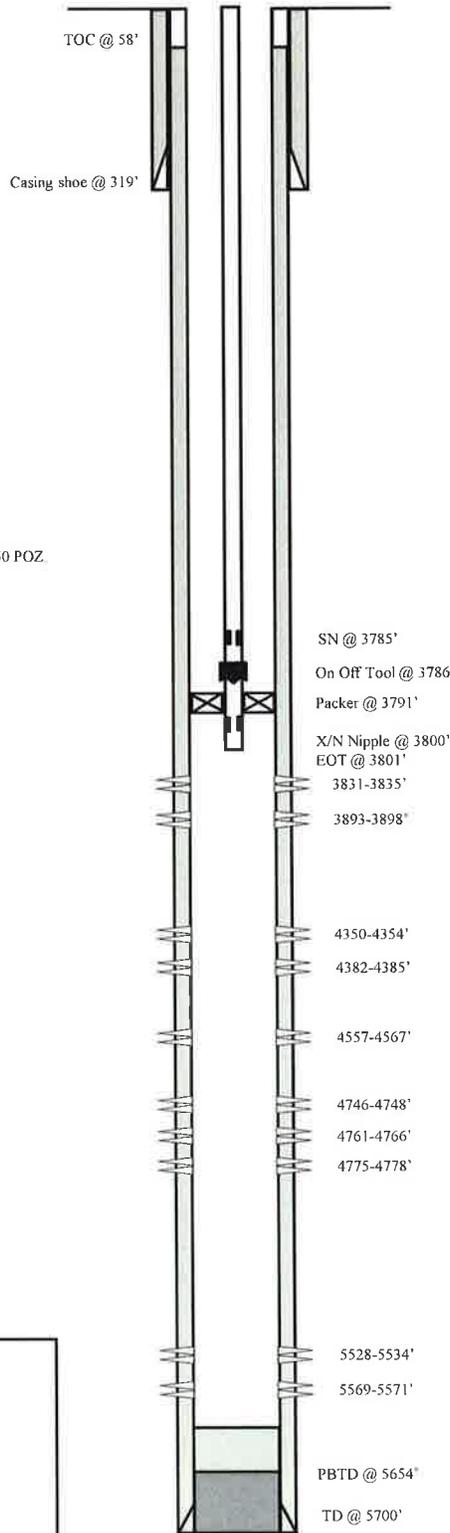
**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 143 jts (5642.16')  
 HOLE SIZE: 7-7/8"  
 DEPTH LANDED: 5696.9'  
 CEMENT DATA: 275 sx Prem, Lite II mixed & 400 sx 50/50 POZ.  
 CEMENT TOP AT: 58'

**TUBING**

SIZE/GRADE/WT: 2-7/8" / J-55 / 6.5#  
 NO OF JOINTS: 120 jts (3772.8')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 3784.8' KB  
 ON/OFF TOOL AT: 3785.9'  
 ARROW #1 PACKER CE AT: 3791.4'  
 XO 2-3/8 x 2-7/8 J-55 AT: 3794.8'  
 TBG PUP 2-3/8 J-55 AT: 3795.3'  
 X/N NIPPLE AT: 3799.6'  
 TOTAL STRING LENGTH: EOT @ 3800.9'

Injection Wellbore Diagram



**FRAC JOB**

8-21-09	5528-5571'	<b>Frac CP5 sands as follows:</b> Frac with 15618# 20/40 sand in 124 bbls Lightning 17 fluid.
8-21-09	4746-4778'	<b>Frac A1 sands as follows:</b> Frac with 60817# 20/40 sand in 358 bbls Lightning 17 fluid.
8-21-09	4557-4567'	<b>Frac B.5 sands as follows:</b> Frac with 15408# 20/40 sand in 124 bbls Lightning 17 fluid.
8-21-09	4350-4385'	<b>Frac D1 &amp; D2 sands as follows:</b> Frac with 61285# 20/40 sand in 360 bbls Lightning 17 fluid.
8-21-09	3831-3898'	<b>Frac GB4 &amp; GB5 sands as follows:</b> Frac with 84734# 20/40 sand in 506 bbls Lightning 17 fluid.
9/30/09		<b>Pump Change:</b> Updated rod & tubing details.
11/30/2009		<b>Pump Change:</b> Updated rod and tubing detail.
05/01/10		<b>Pump Change:</b> Updated rod and tubing detail.
07/23/11		<b>Pump Change:</b> Rods & tubing updated.
09/04/13		<b>Convert to Injection Well</b>
09/05/13		<b>Conversion MIT Finalized</b> – update tbg detail

**PERFORATION RECORD**

5569-5571'	3 JSFP	6 holes
5528-5534'	3 JSFP	18 holes
4775-4778'	3 JSFP	9 holes
4761-4766'	3 JSFP	15 holes
4746-4748'	3 JSFP	6 holes
4557-4567'	3 JSFP	30 holes
4382-4385'	3 JSFP	9 holes
4350-4354'	3 JSFP	12 holes
3893-3898'	3 JSFP	15 holes
3831-3835'	3 JSFP	12 holes

**NEWFIELD**

**Federal 13-19-9-16**  
 588' FSL & 758' FWL SWSW  
 Section 19-T9S-R16E  
 Duchesne Co, Utah  
 API # 43-013-33103; Lease # UTU-74391

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-74391
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>1. TYPE OF WELL</b> Water Injection Well		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>8. WELL NAME and NUMBER:</b> FEDERAL 13-19-9-16
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>9. API NUMBER:</b> 43013331030000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0588 FSL 0758 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 19 Township: 09.0S Range: 16.0E Meridian: S		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 9/27/2013	<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 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 9:00 AM on  
09/27/2013.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
October 07, 2013**

<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> 10/4/2013	



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

## UNDERGROUND INJECTION CONTROL PERMIT

Cause No. UIC-410

**Operator:** Newfield Production Company  
**Well:** Federal 13-19-9-16  
**Location:** Section 19, Township 9 South, Range 16 East  
**County:** Duchesne  
**API No.:** 43-013-33103  
**Well Type:** Enhanced Recovery (waterflood)

### Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on July 10, 2013.
2. Maximum Allowable Injection Pressure: 1,868 psig
3. Maximum Allowable Injection Rate: (restricted by pressure limitation)
4. Injection Interval: Green River Formation (3,658' – 5,654')
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

04-25-13  
Date

JR/MLR/js

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

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

