

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

5. Lease Serial No.  
UTU-075174

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

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

8. Lease Name and Well No.  
Federal 5-14-9-17

9. API Well No.  
43-013-32703

10. Field and Pool, or Exploratory  
Monument Butte

11. Sec., T., R., M., or Blk. and Survey or Area  
SW/NW Sec. 14, T9S R17E

12. County or Parish  
Duchesne

13. State  
UT

1a. Type of Work:  DRILL  REENTER

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

2. Name of Operator  
Newfield Production Company

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

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

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)  
At surface SW/NW 2031' FNL 466' FWL 586943X 40.032625  
At proposed prod. zone 4431666Y -109.981005

14. Distance in miles and direction from nearest town or post office\*  
Approximatley 17.3 miles southeast of Myton, Utah

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 609' f/ise, NA f/unit  
16. No. of Acres in lease  
720.00

17. Spacing Unit dedicated to this well  
40 Acres

18. Distance from proposed location\* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1534'

19. Proposed Depth  
5765'

20. BLM/BIA Bond No. on file  
#4488944

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
5225' GL

22. Approximate date work will start\*  
1st Quarter 2005

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

RECEIVED  
NOV 12 2004  
DIV. OF OIL, GAS & MINING

24. Attachments

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

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

25. Signature: *Mandie Crozier* Name (Printed/Typed): Mandie Crozier Date: 11/8/04  
Title: Regulatory Specialist

Approved by (Signature): *Bradley G. Hill* Name (Printed/Typed): BRADLEY G. HILL Date: 11-16-04  
Title: ENVIRONMENTAL SCIENTIST III

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

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

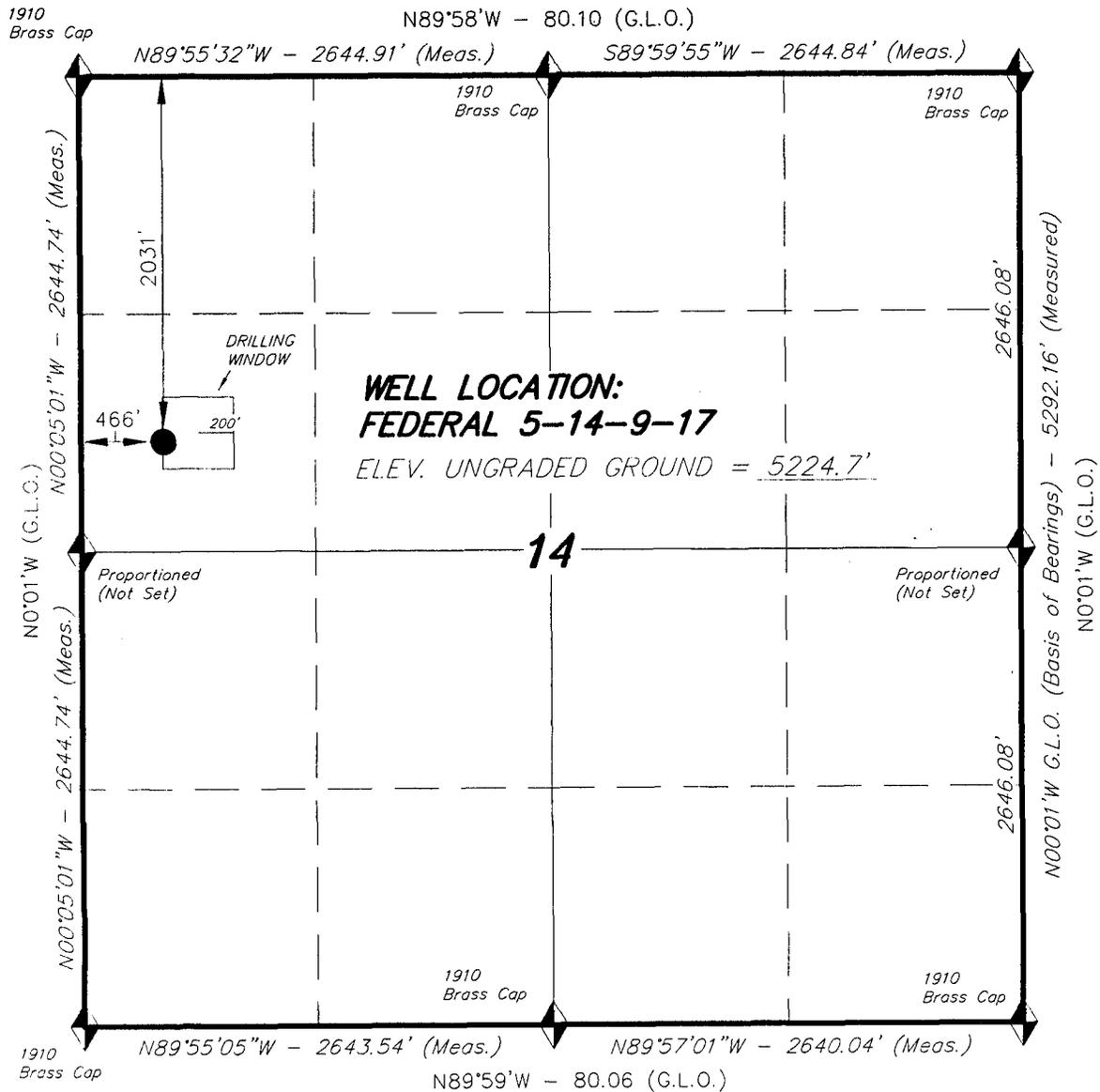
\*(Instructions on reverse)

Federal Approval of this  
Action is Necessary

# T9S, R17E, S.L.B.&M.

## NEWFIELD PRODUCTION COMPANY

WELL LOCATION, FEDERAL 5-14-9-17,  
 LOCATED AS SHOWN IN THE SW 1/4 NW  
 1/4 OF SECTION 14, T9S, R17E,  
 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

REGISTERED LAND SURVEYOR  
 STACY W. STEWART  
 REGISTERED LAND SURVEYOR  
 REGISTRATION No. 189377  
 STATE OF UTAH

<b>TRI STATE LAND SURVEYING &amp; CONSULTING</b>	
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078 (435) 781-2501	
SCALE: 1" = 1000'	SURVEYED BY: D.J.S.
DATE: 10-8-04	DRAWN BY: F.T.M.
NOTES:	FILE #

◆ = SECTION CORNERS LOCATED

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

NEWFIELD



November 10, 2004

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

RECEIVED  
NOV 12 2004  
DIV. OF OIL, GAS & MINING

RE: Application for Permit to Drill: Federal 5-14-9-17.

Dear Diana:

Enclosed find an APD on the above referenced well. If you have any questions, feel free to give either Brad 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

NEWFIELD PRODUCTION COMPANY  
FEDERAL #5-14-9-17  
SW/NW SECTION 14, T9S, R17E  
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' – 1640'
Green River	1990'
Wasatch	5765'

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

Green River Formation 1990' – 5765' - 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 #5-14-9-17  
SW/NW SECTION 14, T9S, R17E  
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 #5-14-9-17 located in the SW 1/4 NW 1/4 Section 14, T9S, R17E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.6 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southeasterly along Hwy 53 - 11.7 miles  $\pm$  to its junction with an existing road to the southeast; proceed southeasterly - 2.9 miles  $\pm$  to its junction with an existing road to the southwest; proceed southwesterly - 1.1 miles  $\pm$  to its junction with the beginning of the proposed access road; proceed northwesterly along the proposed access road 2,335'  $\pm$  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

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 have already been submitted and are on file with the Bureau of Land Management. MOAC Report #03-82, 1/12/04. Paleontological Resource Survey prepared by, Wade E. Miller, 6/28/03. See attached report cover pages, Exhibit "D".

For the Federal #5-14-9-17 Newfield Production Company requests a 1,625' ROW be granted in Lease UTU-64806 and 710' of disturbed area be granted in Lease UTU-075174 to allow for construction of the proposed access road. **Refer to Topographic Map "B"**. The proposed access road will be an 18' crown road (9' either side of the centerline) with drainage ditches along either side of the proposed road whether it is deemed necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area. The maximum grade will be less than 8%. There will be no culverts required along this access road. There will be barrow ditches and turnouts as needed along this road. There are no fences encountered along this proposed road. There will be no new gates or cattle guards required. All construction material for this access road will be borrowed material accumulated during construction of the access road.

Newfield Production Company requests a 1,625' ROW in Lease UTU-64806 and 710' of disturbed area be granted in Lease UTU-075174 to allow for construction of the proposed gas lines. It is proposed that the ROW and disturbed area will be 50' wide to allow for construction of a 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 1,625' ROW in Lease UTU-64806 and 710' of disturbed area be granted in Lease UTU-075174 to allow for construction of the proposed water lines. It is proposed that the ROW and disturbed area will be 50' wide to allow for construction of a buried 3" steel water injection line and a 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**

**Ferruginous Hawk:** Due to this proposed well location's proximity (less than 0.5 mile) to an existing inactive ferruginous hawk nest site, no new construction or surface disturbing activities will be allowed between March 1 and July 31. If the nest remains inactive on May 30<sup>th</sup> (based on a pre-construction survey by a qualified biologist), the operator may construct and drill the location

after that date. If the nest site becomes active prior to May 30, no new construction or surface disturbing activities will be allowed within 0.5 mile of the nest until the nest becomes inactive for two full breeding seasons. In the event that this well becomes a producing well, it must be equipped with a multi-cylinder engine or hospital muffler to reduce noise levels.

**Reserve Pit Liner**

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)

Shadscale	<i>Atriplex confertifolia</i>	4 lbs/acre
Scarlet globmallow	<i>Sphaeralcea concineae</i>	4 lbs/acre
Crested Wheat grass		4 lbs/acre

**Details of the On-Site Inspection**

The proposed Federal #5-14-9-17 was on-sited on 6/17/04. The following were present; Brad Mecham (Newfield Production), David Gerbig (Newfield Production), and Byron Tolman (Bureau of Land Management). Weather conditions were rainy at 60 degrees.

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

Representative

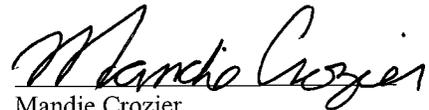
Name: Brad Mecham  
Address: Route #3 Box 3630  
Myton, UT 84052  
Telephone: (435) 646-3721

Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #5-14-9-17 SW/NW Section 14, Township 9S, Range 17E: Lease UTU-075174 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.

11/10/04  
Date

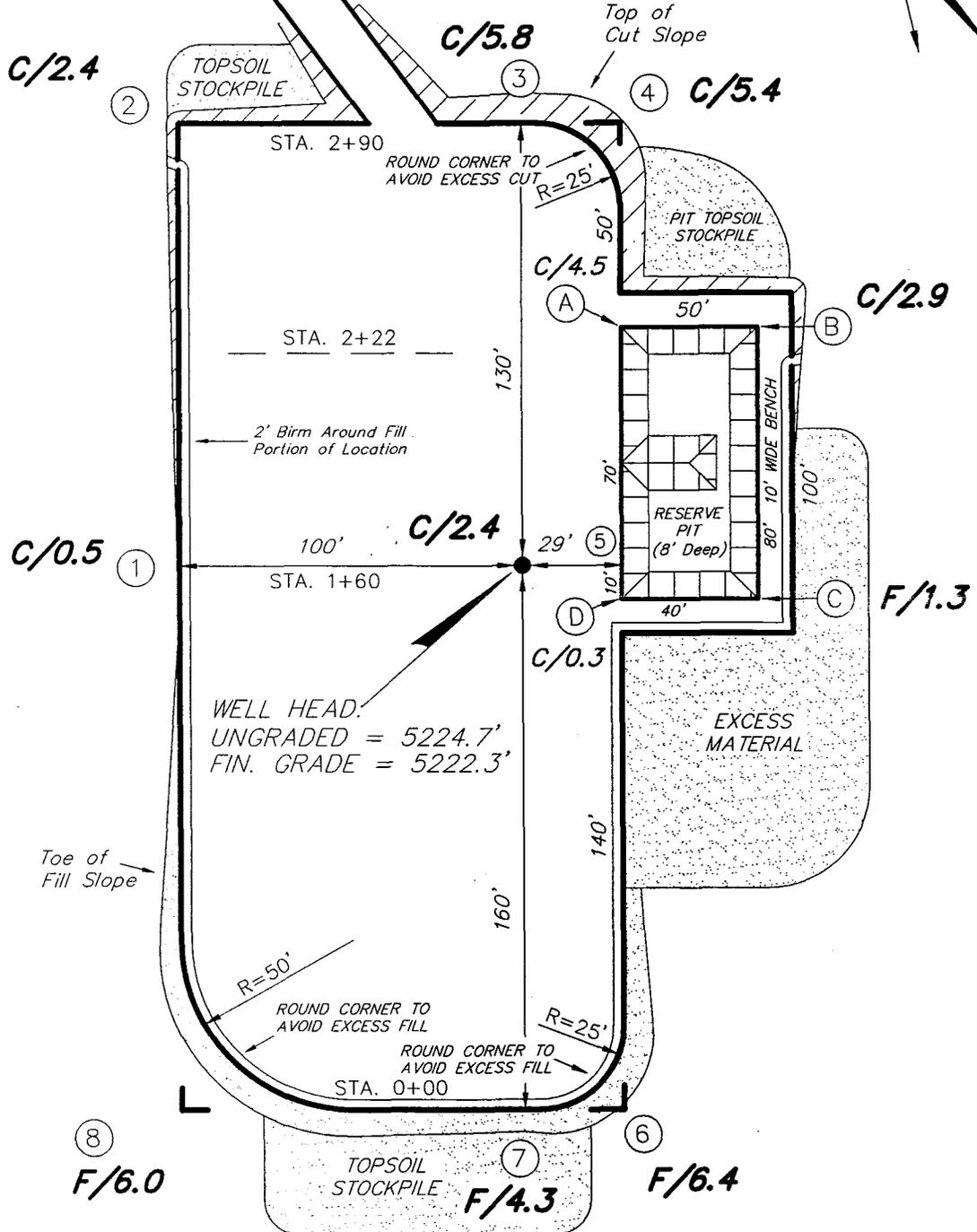
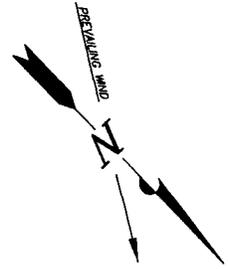
  
Mandie Crozier  
Regulatory Specialist  
Newfield Production Company

# NEWFIELD PRODUCTION COMPANY

FEDERAL 5-14-9-17

Section 14, T9S, R17E, S.L.B.&M.

PROPOSED ACCESS ROAD (Max. 6% Grade)



**REFERENCE POINTS**

210' NORTHEAST = 5214.1'  
 260' NORTHEAST = 5209.9'

SURVEYED BY: D.J.S.

SCALE: 1" = 50'

DRAWN BY: F.T.M.

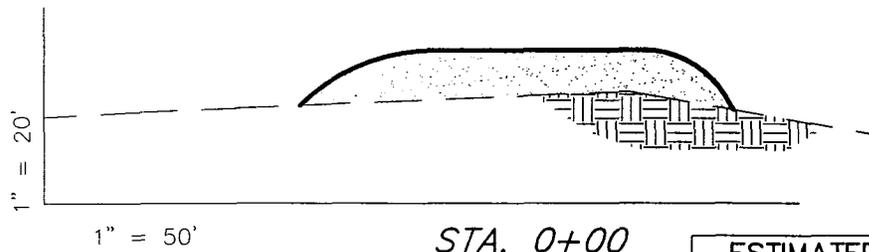
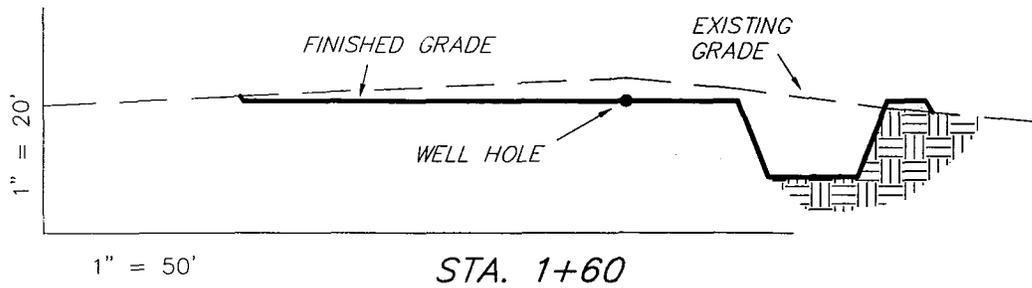
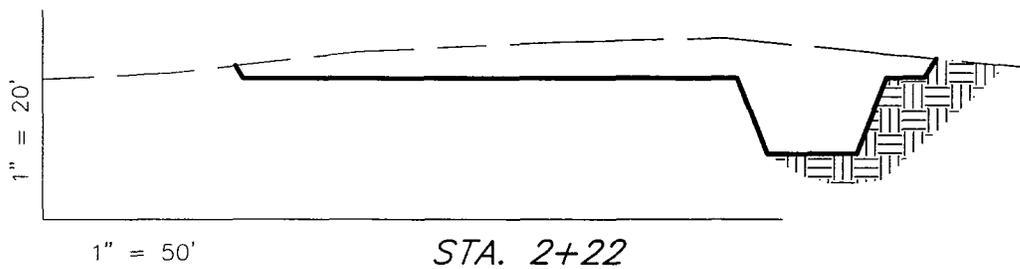
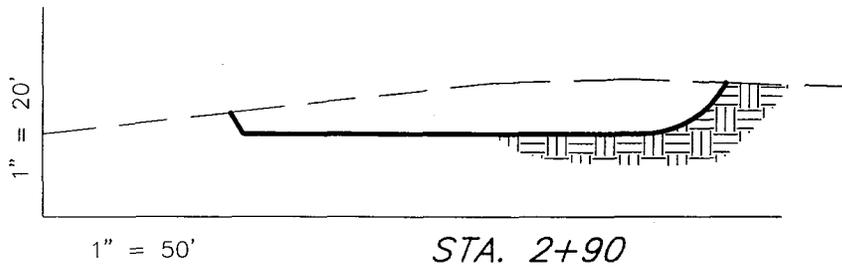
DATE: 10-8-04

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

# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS

FEDERAL 5-14-9-17



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

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	2,090	2,090	Topsoil is not included in Pad Cut	0
PIT	640	0		640
TOTALS	2,730	2,090	790	640

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

SURVEYED BY: D.J.S.

SCALE: 1" = 50'

DRAWN BY: F.T.M.

DATE: 10-8-04

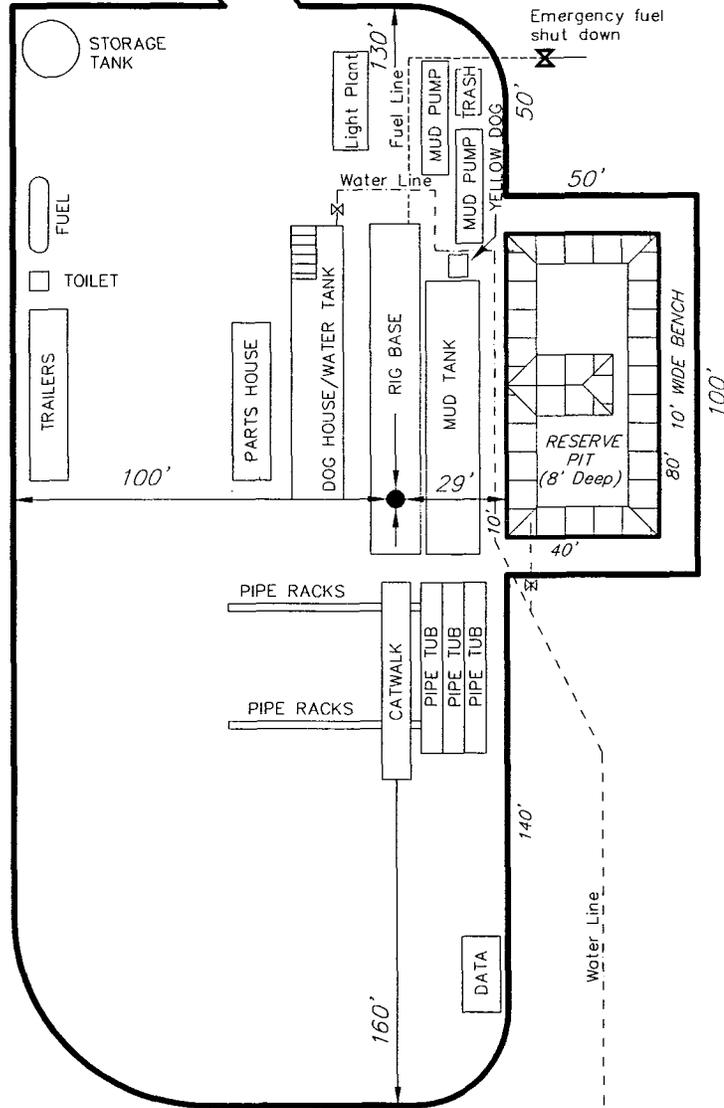
Tri State  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078  
(435) 781-2501

# NEWFIELD PRODUCTION COMPANY

## TYPICAL RIG LAYOUT

### FEDERAL 5-14-9-17

PROPOSED ACCESS ROAD (Max. 6% Grade)



SURVEYED BY: D.J.S.

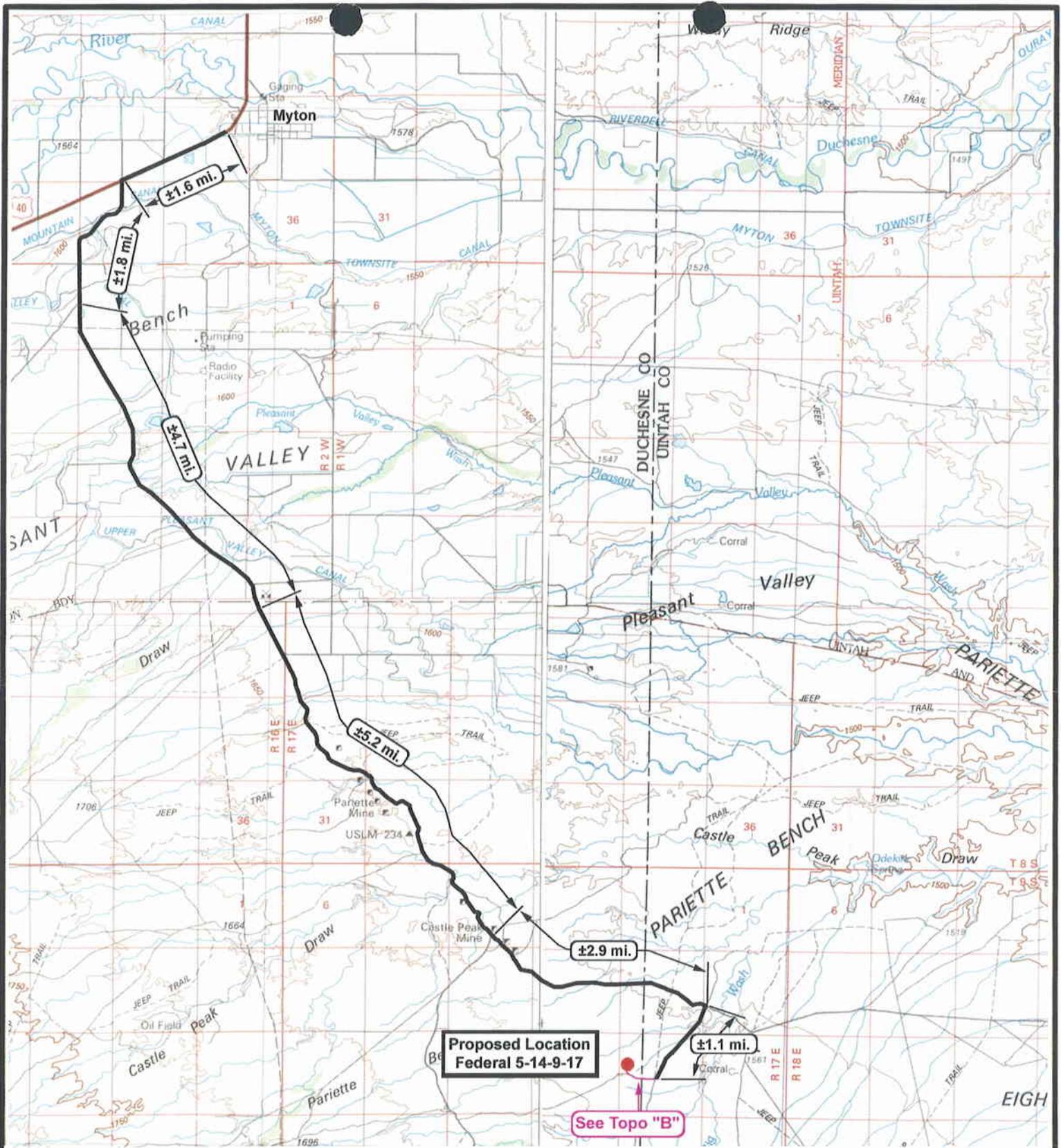
SCALE: 1" = 50'

DRAWN BY: F.T.M.

DATE: 10-8-04

(435) 781-2501

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



**NEWFIELD**  
Exploration Company

**Federal 5-14-9-17**  
**SEC. 14, T9S, R17E, S.L.B.&M.**



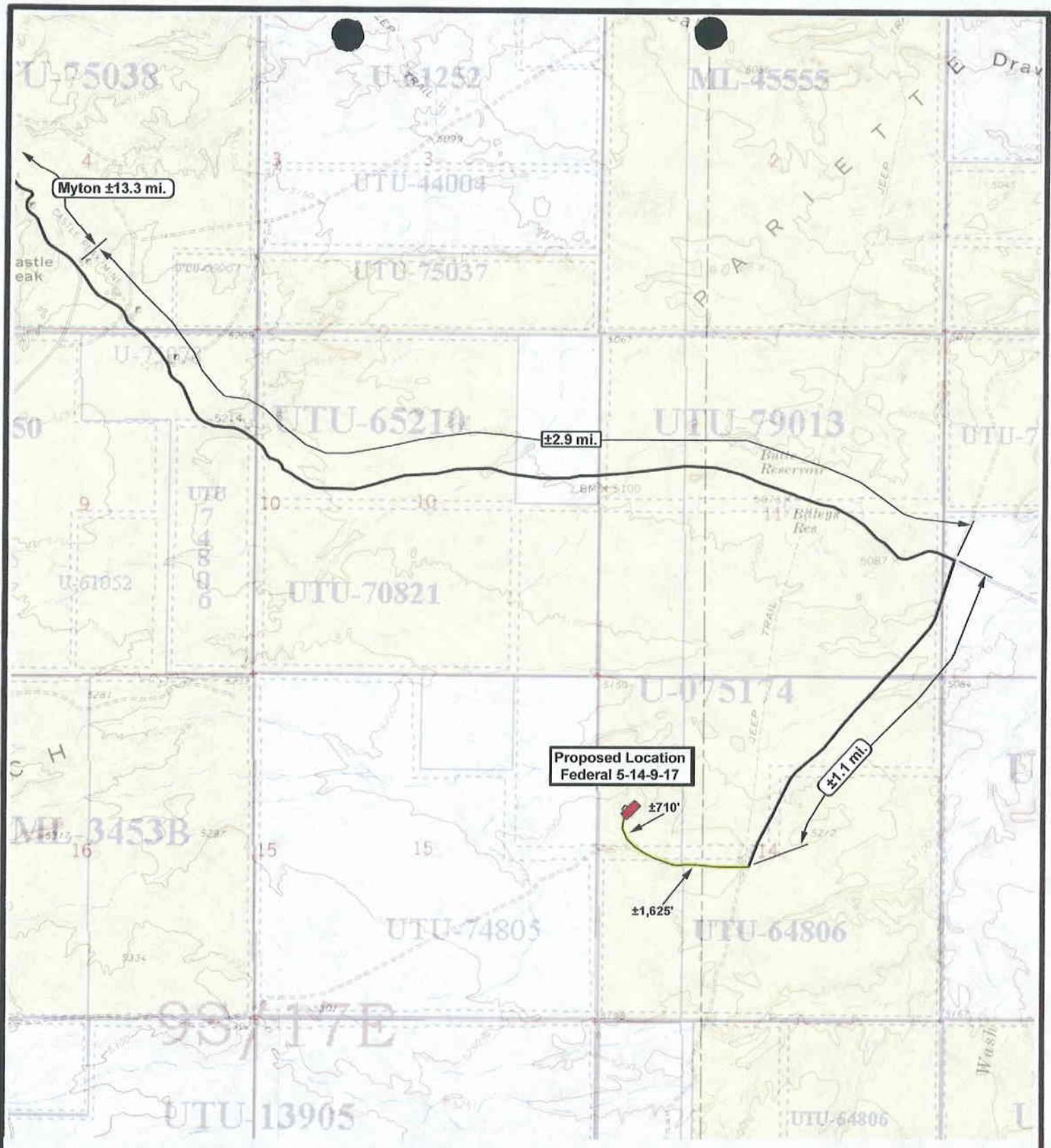
**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1 = 100,000  
DRAWN BY: hgm  
DATE: 10-14-2004

**Legend**

- Existing Road
- Proposed Access

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



**NEWFIELD**  
Exploration Company

**Federal 5-14-9-17**  
**SEC. 14, T9S, R17E, S.L.B.&M.**



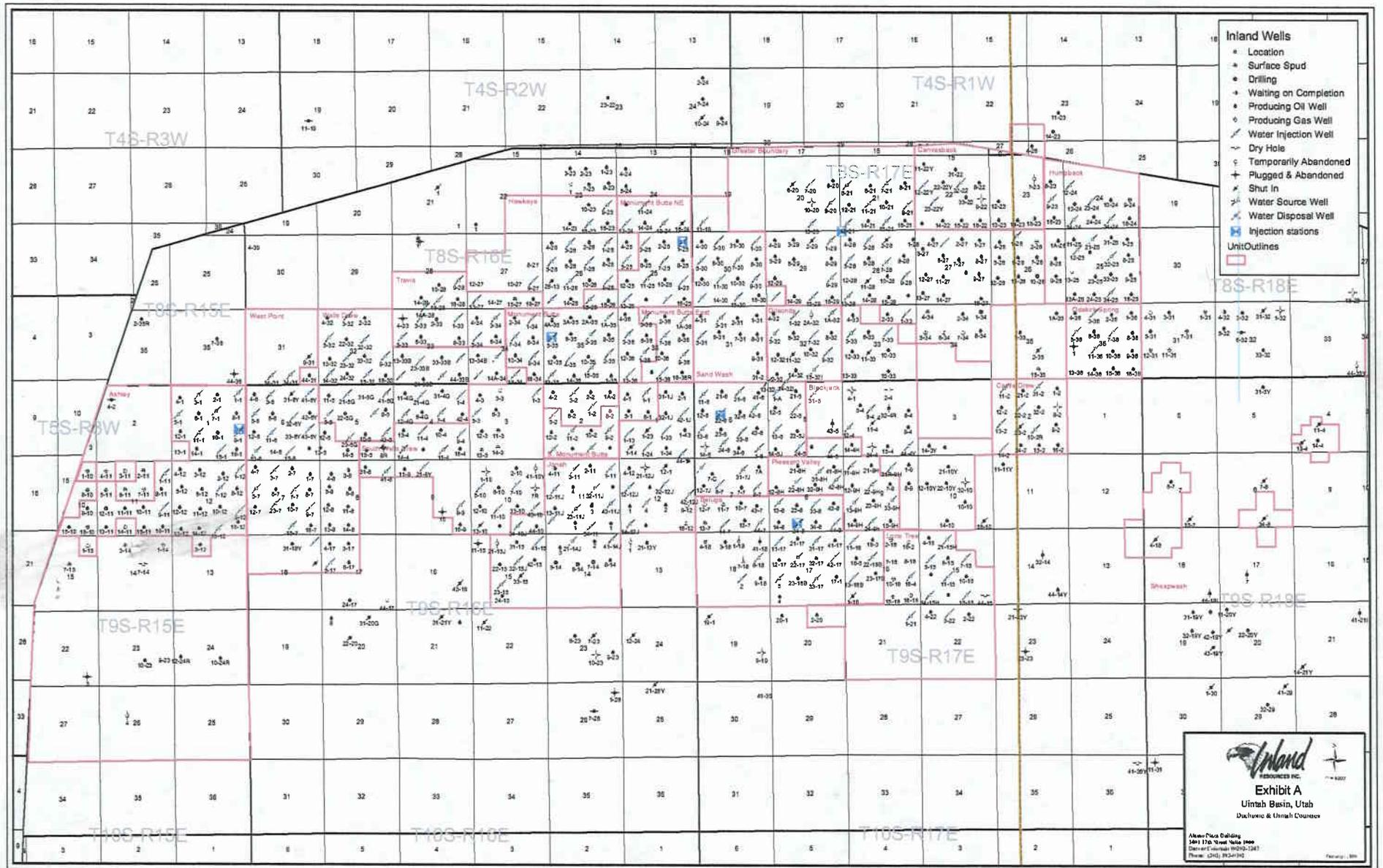
*Tri-State*  
*Land Surveying Inc.*  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'  
DRAWN BY: bgm  
DATE: 11-04-2004

- Legend**
- Existing Road
  - Proposed Access

TOPOGRAPHIC MAP

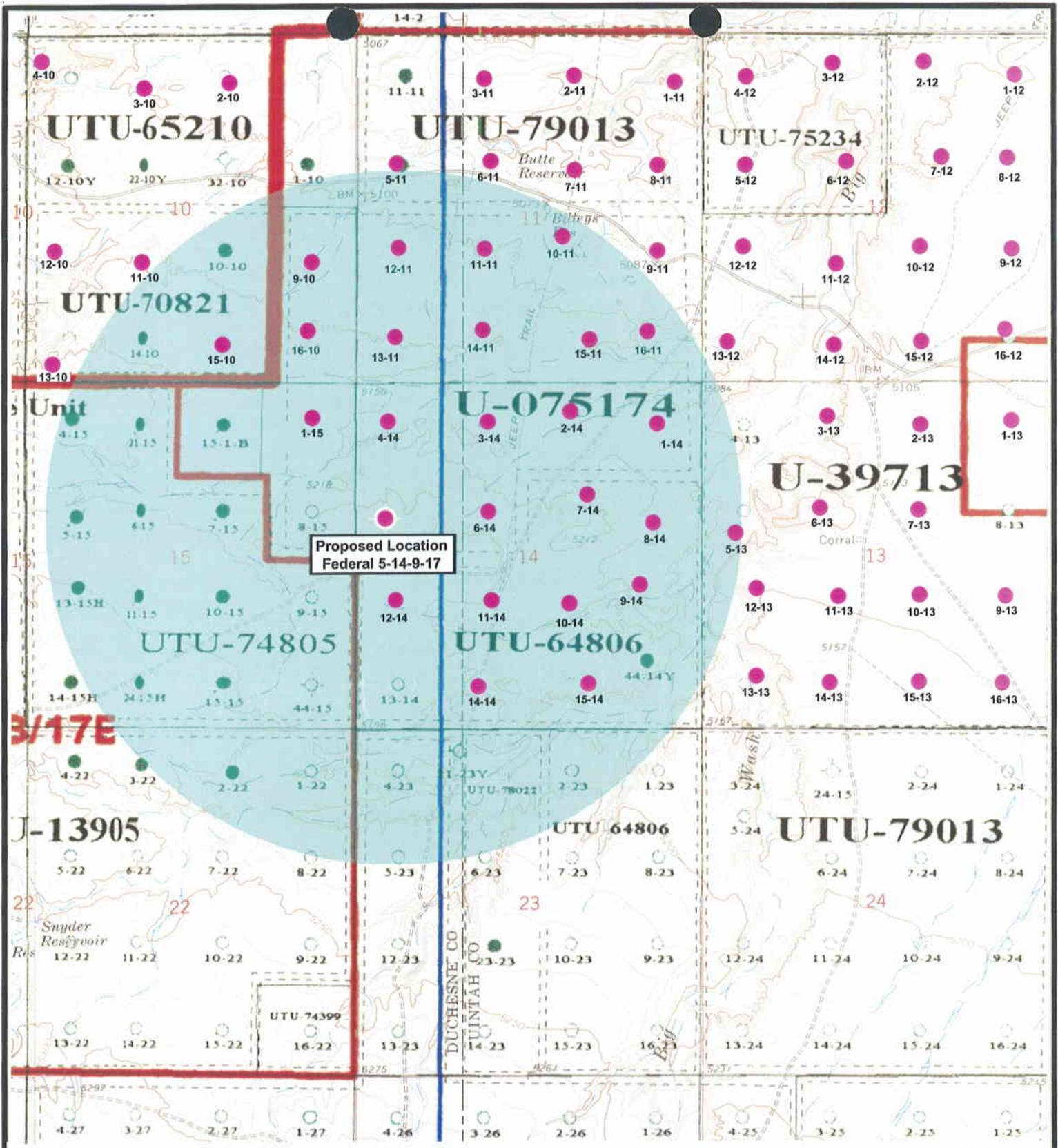
**"B"**



- Inland 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

  
**Exhibit A**  
 Uintah Basin, Utah  
 Duchesne & Uintah Counties

Alwan Price Geology  
 3401 17th Street, Suite 1000  
 Denver, Colorado 80202-2841  
 Phone: (303) 733-4100



Proposed Location  
Federal 5-14-9-17



**NEWFIELD**  
Exploration Company

**Federal 5-14-9-17**  
**SEC. 14, T9S, R17E, S.L.B.&M.**



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

SCALE: 1" = 2,000'  
DRAWN BY: bgm  
DATE: 10-14-2004

**Legend**

- Well Locations
- One-Mile Radius

**Exhibit "B"**

# 2-M SYSTEM

Blowout Prevention Equipment Systems

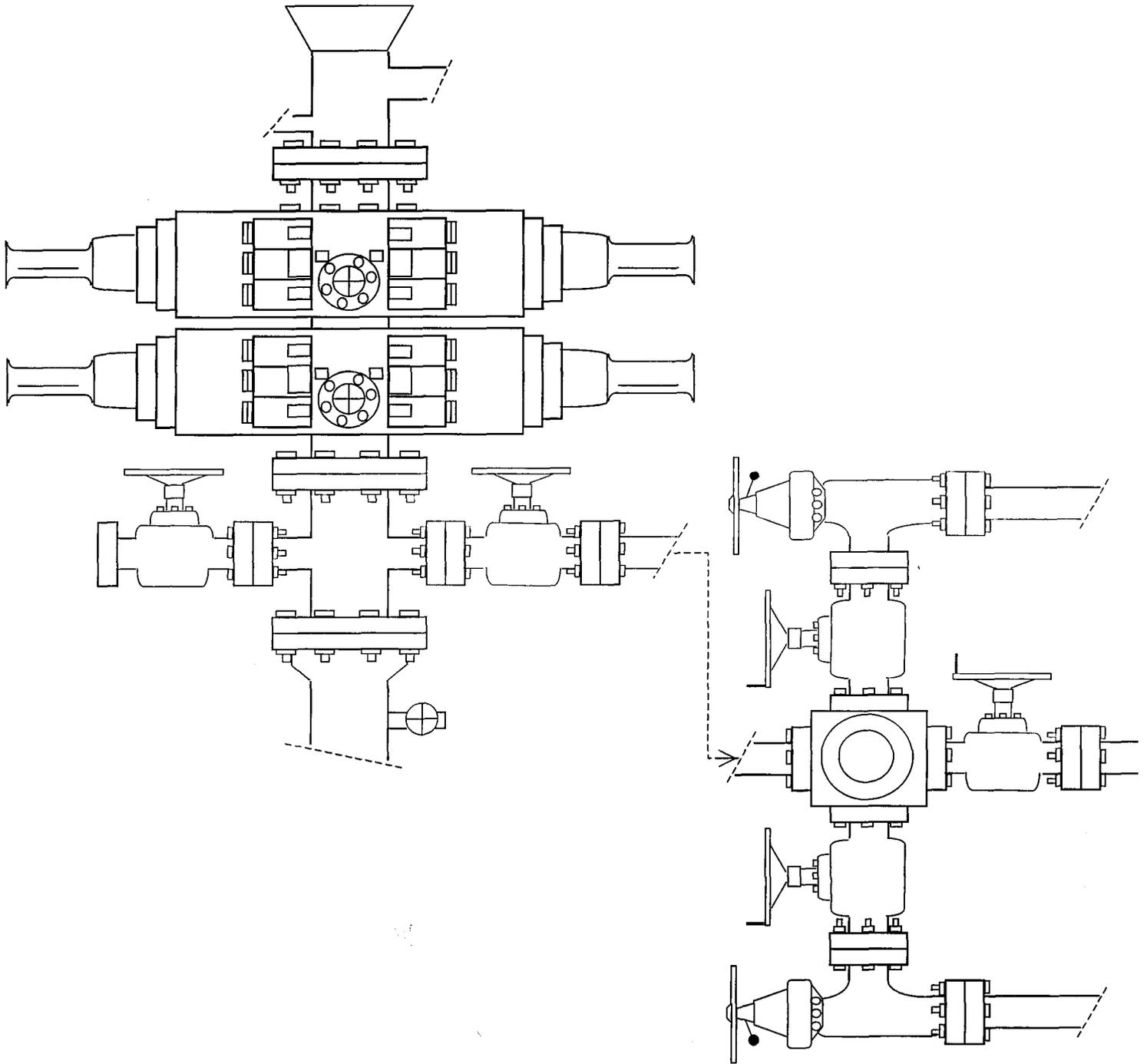


EXHIBIT C

CULTURAL RESOURCE INVENTORY OF  
INLAND PRODUCTIONS' PARCEL IN  
T 9 S, R17 E, SEC. 13, 14, 15, 23, & 24  
AND T 9 S, R 18 E, SEC. 18 & 19,  
DUCHESNE AND UINTAH COUNTIES, UTAH

BY:

Katie Simon  
and  
Keith R. Montgomery

Prepared For:

Bureau of Land Management  
Vernal Field Office

Prepared Under Contract With:

Inland Production  
2507 Flintridge Place  
Fort Collins, CO 80521

Prepared By:

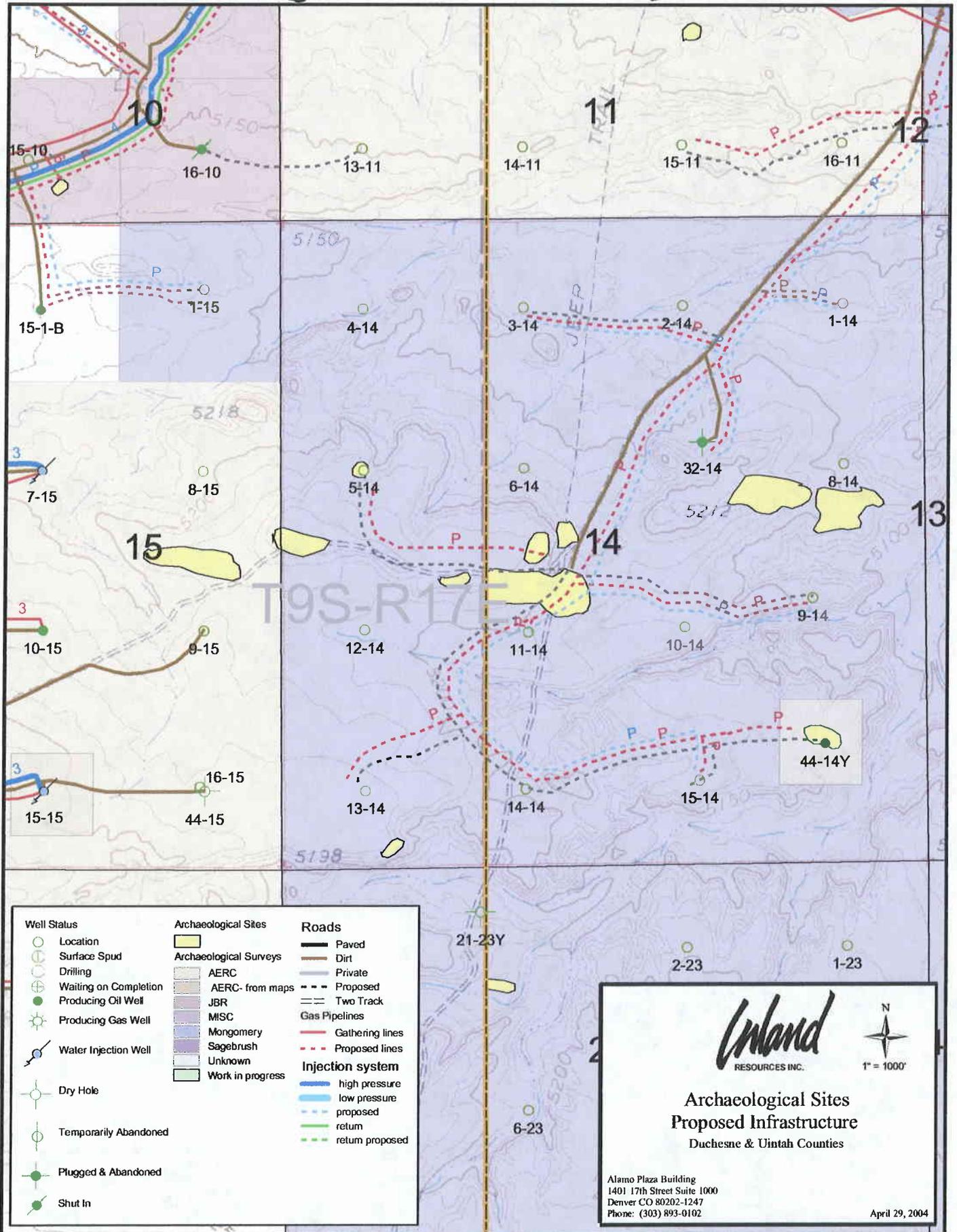
Montgomery Archaeological Consultants  
P.O. Box 147  
Moab, Utah 84532

MOAC Report No. 03-82

January 12, 2004

United States Department of Interior (FLPMA)  
Permit No. 03-UT-60122

State of Utah Antiquities Project (Survey)  
Permit No. U-03-MQ-0750b



Well Status	Archaeological Sites	Roads
○ Location	Archaeological Surveys	— Paved
○ Surface Spud	— AERC	— Dirt
○ Drilling	— AERC- from maps	— Private
○ Waiting on Completion	— JBR	— Proposed
● Producing Oil Well	— MISC	— Two Track
● Producing Gas Well	— Montgomery	— Gas Pipelines
● Water Injection Well	— Sagebrush	— Gathering lines
○ Dry Hole	— Unknown	— Proposed lines
○ Temporarily Abandoned	— Work in progress	— Injection system
● Plugged & Abandoned		— high pressure
● Shut In		— low pressure
		— proposed
		— return
		— return proposed



  
 1" = 1000'

**Archaeological Sites  
Proposed Infrastructure**  
 Duchesne & Uintah Counties

Alamo Plaza Building  
 1401 17th Street Suite 1000  
 Denver CO 80202-1247  
 Phone: (303) 893-0102

April 29, 2004

**INLAND RESOURCES, INC.**

**PALEONTOLOGICAL FIELD SURVEY OF PROPOSED  
PRODUCTION DEVELOPMENT AREAS,  
DUCHESNE AND UINTAH COUNTIES, UTAH**

(Section 35, T 8 S, R 17 E; Sections 13, 14, 23, 24, T 9 S, R 17 E; NE 1/4, NE 1/4,  
Section 15, T 9 S, R 17 E; Sections 18, 19, T 9 S, R 18 E; Sections  
2, 3, 10 and western half of Section 11, T 9 S, R 15 E)

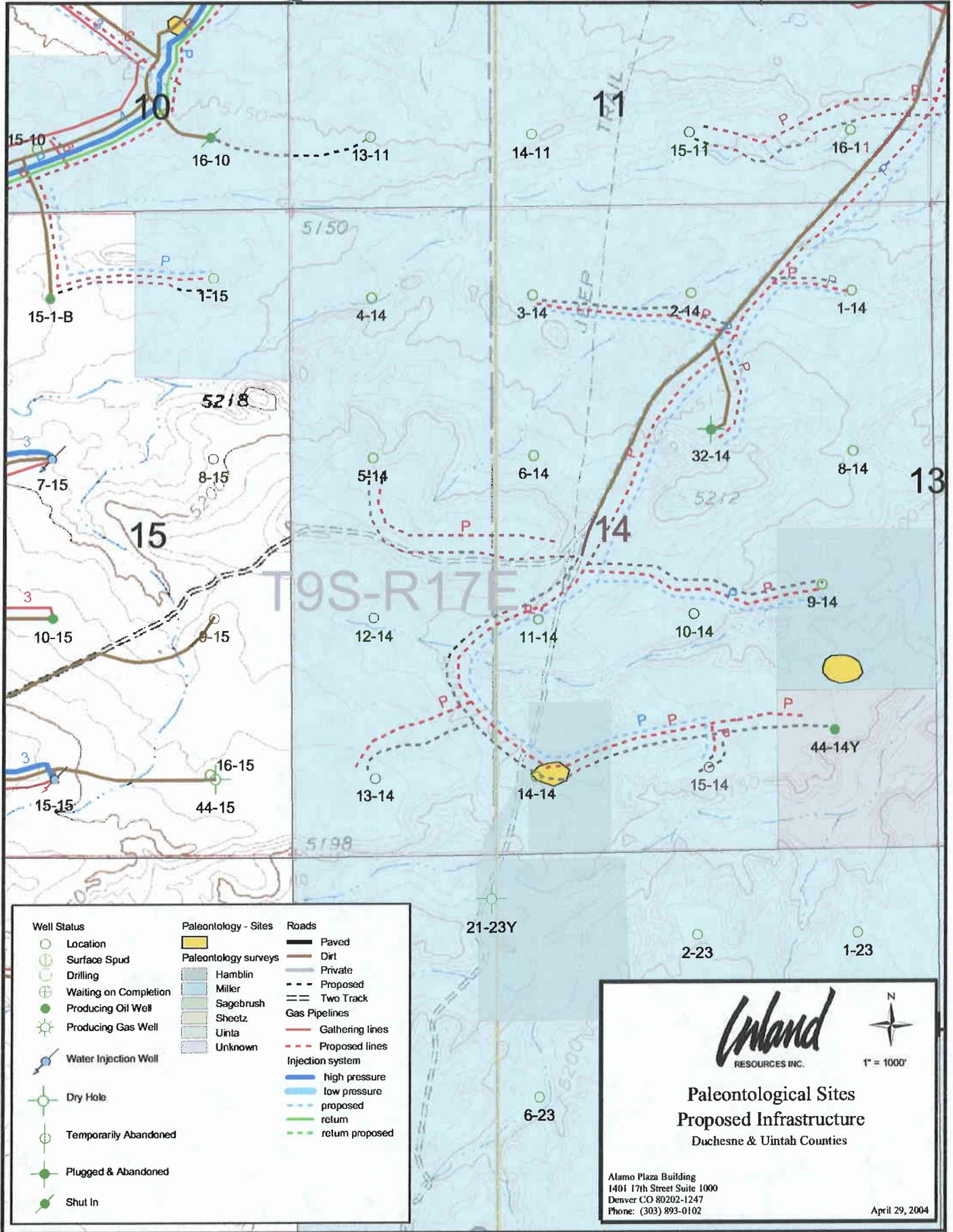
**REPORT OF SURVEY**

Prepared for:

**Inland Resources, Inc.**

Prepared by:

Wade E. Miller  
Consulting Paleontologist  
July 28, 2003



Well Status	Paleontology - Sites	Roads
Location	Paleontology surveys	Paved
Surface Spud	Hamblin	Dirt
Drilling	Miller	Private
Waiting on Completion	Sagebrush	Proposed
Producing Oil Well	Sheetz	Two Track
Producing Gas Well	Uinta	Gas Pipelines
Water Injection Well	Unknown	Gathering lines
Dry Hole		Proposed lines
Temporarily Abandoned		Injection system
Plugged & Abandoned		high pressure
Shut In		low pressure
		proposed
		return
		return proposed



RESOURCES INC.



1" = 1000'

### Paleontological Sites Proposed Infrastructure

Duchesne & Uintah Counties

Alamo Plaza Building  
1401 17th Street Suite 1000  
Denver CO 80202-1247  
Phone: (303) 893-0102

April 29, 2004

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 11/12/2004

API NO. ASSIGNED: 43-013-32703

WELL NAME: FEDERAL 5-14-9-17  
OPERATOR: NEWFIELD PRODUCTION ( N2695 )  
CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:  
SWNW 14 090S 170E  
SURFACE: 2031 FNL 0466 FWL  
BOTTOM: 2031 FNL 0466 FWL  
DUCHESNE  
MONUMENT BUTTE ( 105 )

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

LEASE TYPE: 1 - Federal  
LEASE NUMBER: UTU-075174  
SURFACE OWNER: 1 - Federal  
PROPOSED FORMATION: GRRV  
COALBED METHANE WELL? NO

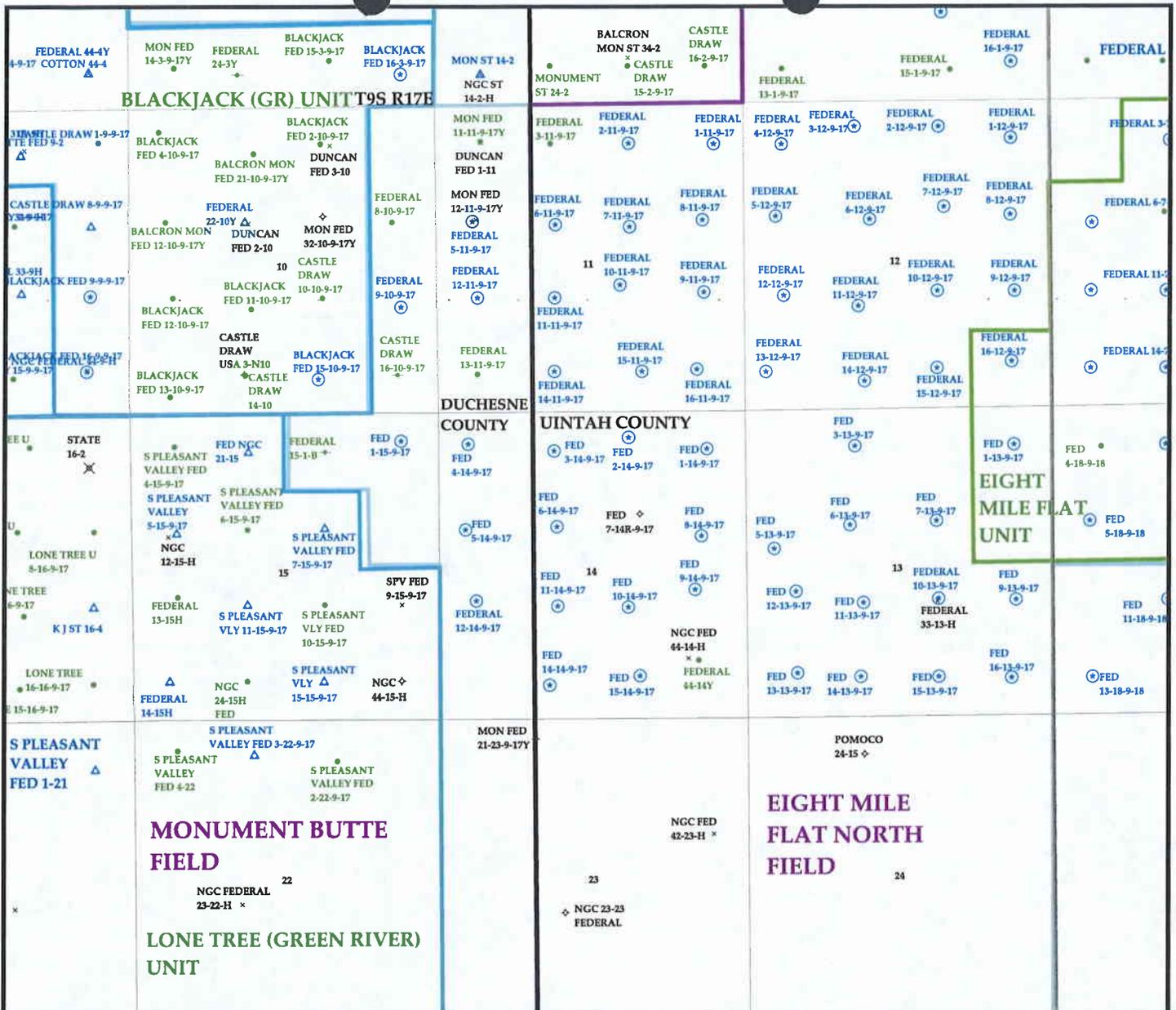
LATITUDE: 40.03263  
LONGITUDE: -109.9810

RECEIVED AND/OR REVIEWED:  
 Plat  
 Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. 4488944 )  
 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)

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: SIP, Separate file

STIPULATIONS: 1- Federal Approval  
2- SIP



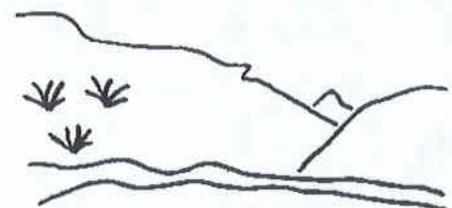
OPERATOR: NEWFIELD PROD CO (N2695)

SEC. 14 T9S R.17E

FIELD: MONUMENT BUTTE (105)

COUNTY: DUCHESNE

SPACING: R649-3-2 / GENERAL SITING



Utah Oil Gas and Mining

Wells	Units.shp	Fields.shp
★ GAS INJECTION	□ EXPLORATORY	□ ABANDONED
⊛ GAS STORAGE	□ GAS STORAGE	□ ACTIVE
× LOCATION ABANDONED	□ NF PP OIL	□ COMBINED
⊕ NEW LOCATION	□ NF SECONDARY	□ INACTIVE
⊖ PLUGGED & ABANDONED	□ PENDING	□ PROPOSED
⊛ PRODUCING GAS	□ PI OIL	□ STORAGE
● PRODUCING OIL	□ PP GAS	□ TERMINATED
⊛ SHUT-IN GAS	□ PP GEOTHERML	
⊛ SHUT-IN OIL	□ PP OIL	
⊛ TEMP. ABANDONED	□ SECONDARY	
○ TEST WELL	□ TERMINATED	
△ WATER INJECTION		
◆ WATER SUPPLY		
⊛ WATER DISPOSAL		



PREPARED BY: DIANA WHITNEY  
DATE: 16-NOVEMBER-2004



## State of Utah

Department of  
Natural ResourcesROBERT L. MORGAN  
*Executive Director*Division of  
Oil, Gas & MiningLOWELL P. BRAXTON  
*Division Director*OLENE S. WALKER  
*Governor*GAYLE F. McKEACHNIE  
*Lieutenant Governor*

November 16, 2004

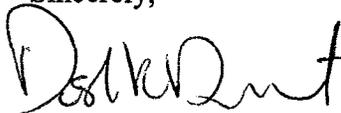
Newfield Production Company  
Rt. #3, Box 3630  
Myton, UT 84052Re: Federal 5-14-9-17 Well, 2031' FNL, 466' FWL, SW NW, Sec. 14, T. 9 South,  
R. 17 East, Duchesne County, Utah

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 43-013-32703.

Sincerely,



(for) John R. Baza  
Associate Director

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

Operator: Newfield Production Company  
Well Name & Number Federal 5-14-9-17  
API Number: 43-013-32703  
Lease: UTU-075174

Location: SW NW                      Sec. 14                      T. 9 South                      R. 17 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.

FORM 3160-5  
(June 1990)

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-075174**

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

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

8. Well Name and No.  
**FEDERAL 5-14-9-17**

9. API Well No.  
**43-013-32703**

10. Field and Pool, or Exploratory Area  
**EIGHT MILE FLAT NORTH**

11. County or Parish, State  
**UINTAH 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)

**2031 FNL 466 FWL SW/NW Section 14, T9S R17E**

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

**TYPE OF SUBMISSION**

Notice of Intent  
 Subsequent Report  
 Final Abandonment Notice

**TYPE OF ACTION**

Abandonment  
 Recompletion  
 Plugging Back  
 Casing Repair  
 Altering Casing  
 Other **Permit Extension**  
 Change of Plans  
 New Construction  
 Non-Routine Fracturing  
 Water Shut-Off  
 Conversion to Injection  
 Dispose Water

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

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

Newfield Production Company requests to extend the Permit to Drill this well for one year. The original approval date was 11/16/04 (expiration 11/16/05).

This APD has not been approved yet by the BLM.

**Approved by the  
Utah Division of  
Oil, Gas and Mining**  
Date: 12-01-05  
By: [Signature]

**RECEIVED  
DEC 01 2005  
DIV. OF OIL, GAS & MINING**

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

Signed [Signature] Title Regulatory Specialist Date 12/1/2005  
**Mandie Crozier**

CC: UTAH DOGM

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date 12-2-05  
[Stamp: SENT TO OPERATOR]

Conditions of approval, if any:

CC: Utah DOGM

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



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

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

**API:** 43-013-32793  
**Well Name:** Federal 5-14-9-17  
**Location:** SW/NW Section 14, T9S R17E  
**Company Permit Issued to:** Newfield Production Company  
**Date Original Permit Issued:** 11/16/2004

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

12/1/2005  
Date

Title: Regulatory Specialist

Representing: Newfield Production Company

RECEIVED  
DEC 01 2005  
DIV. OF OIL, GAS & MINING

RECEIVED

NOV 12 2004

BLM VERNAL, UTAH

Form 3160-3  
(September 2001)

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.	UTU-075174
6. If Indian, Allottee or Tribe Name	N/A
7. If Unit or CA Agreement, Name and No.	N/A
8. Lease Name and Well No.	Federal 5-14-9-17
9. API Well No.	43.013132703
10. Field and Pool, or Exploratory Monument	Butte
11. Sec., T., R., M., or Blk. and Survey or Area	SW/NW Sec. 14, T9S R17E
12. County or Parish	Duchesne
13. State	UT

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		
2. Name of Operator Newfield Production Company		
3a. Address Route #3 Box 3630, Myton UT 84052	3b. Phone No. (include area code) (435) 646-3721	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SW/NW 2031' FNL 466' FWL At proposed prod. zone		
14. Distance in miles and direction from nearest town or post office* Approximatley 17.3 miles southeast of Myton, Utah		
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 609' f/lse, NA f/unit	16. No. of Acres in lease 720.00	17. Spacing Unit dedicated to this well 40 Acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1534'	19. Proposed Depth 5765'	20. BLM/BIA Bond No. on file #4488944
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5225' GL	22. Approximate date work will start* 1st Quarter 2005	23. Estimated duration Approximately seven (7) days from spud to rig release.

24. Attachments

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

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification.   |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature <i>Mandie Crozier</i>	Name (Printed/Typed) Mandie Crozier	Date 11/8/04
Title Regulatory Specialist		
Approved by (Signature)	Name (Printed/Typed) Assistant Field Manager	Date
Title Assistant Field Manager Mineral Resources	Office Utah Division	

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

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

\*(Instructions on reverse)

RECEIVED

FEB 13 2006

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

05JMO201A

M. MAS



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 CO      **Location:** SWNW, Sec.14, T9S, R17E  
**Well No:** Federal 5-14-9-17              **Lease No:** UTU-075174  
**API No:** 43-013-32703                      **Agreement:** N/A

Petroleum Engineer:	Matt Baker	Office: 435-781-4490	Cell: 435-828-4470
Petroleum Engineer:	Michael Lee	Office: 435-781-4432	Cell: 435-828-7875
Supervisory Petroleum Technician:	Jamie Sparger	Office: 435-781-4502	Cell: 435-828-3913
Environmental Scientist:	Paul Buhler	Office: 435-781-4475	Cell: 435-828-4029
Environmental Scientist:	Karl Wright	Office: 435-781-4484	
Natural Resource Specialist:	Holly Villa	Office: 435-781-4404	
Natural Resource Specialist:	Melissa Hawk	Office: 435-781-4476	
<b>Office Fax: (435) 781-4410</b>	<b>After hours message number: (435) 781-4513</b>		

**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.

**NOTIFICATION REQUIREMENTS**

- Location Construction (Notify Melissa Hawk ES / NRS) - Forty-Eight (48) hours prior to construction of location and access roads.
- Location Completion (Notify Melissa Hawk ES / NRS) - Prior to moving on the drilling rig.
- Spud Notice (Notify PE) - Twenty-Four (24) hours prior to spudding the well.
- Casing String & Cementing (Notify Jamie Sparger SPT) - Twenty-Four (24) hours prior to running casing and cementing all casing strings.
- BOP & Related Equipment Tests (Notify Jamie Sparger SPT) - Twenty-Four (24) hours prior to initiating pressure tests.
- First Production Notice (Notify PE) - 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)***

-This well is being approved in accordance with Washington Instruction Memorandum 2005-247 and Section 390 (Category 3) of the Energy Policy Act which establishes statutory categorical exclusions (CX) under the National Environmental Policy Act (NEPA). Category 3 states that an oil or gas well can be drilled within a developed field for which an approved land use plan or any environmental document prepared pursuant to NEPA analyzed drilling as a reasonably foreseeable activity, so long as such plan or document was approved within five (5) years prior to the date of spudding the well. This well is covered under the *Final Environmental Impact Statement and Record of Decision Castle Peak and Eightmile Flat Oil and Gas Exploration Project Newfield Rocky Mountains Inc.*, signed November 21, 2005. If the well has not been spudded by November 21, 2010, a new environmental document will have to be prepared prior to the approval of the APD.

**-The access road shall be moved 50 meters to the north to avoid archaeological site 42UN3365, which is an eligible prehistoric camp.** When re-flagging the road, Newfield shall consult with a qualified archaeological consultant company, to ensure that the site has been avoided.

-4 to 6 inches of topsoil shall be stripped from the location and placed where it can most easily be accessed for interim reclamation instead of as shown in the APD.

-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 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 topsoil 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.

-The pipeline(s) shall be buried within the identified construction width of an access corridor that contains the access road and pipelines. The operator may request in writing an exception to this COA. Exceptions to this COA may include but are not limited to: laterally extensive, hard indurated bedrock, such as sandstone, which is at or within 2 feet of the surface; and soil types with a poor history for successful rehabilitation. The exception request will be reviewed by the AO and a determination made.

- Following well plugging and abandonment, the location, access roads, pipelines, and other facilities shall be reclaimed. All disturbed surfaces shall be reshaped to approximate the original contour; the top soil respread over the surface; and, the surface revegetated. The surface of approved staging areas where construction activities did not occur may require disking or ripping and reseeding.

-Prior to abandonment of a buried pipeline, the operator will obtain authorization from the appropriate regulatory agency. BLM will determine whether the pipeline and all above ground pipeline facilities shall be removed and unsalvageable materials disposed of at approved sites or abandoned in place. Reshaping and revegetation of disturbed land areas will be completed where necessary. The seed mix identified in the APD shall be used. Other reclamation methods including but not limited to mulching or soil treatments may be require on a site-specific basis.

### ***DOWNHOLE CONDITIONS OF APPROVAL***

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

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

1. Casing cementing operations for production casing shall return cement to surface.

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

1. There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well. Any changes in operation must have prior approval from the BLM, Vernal Field Office Petroleum Engineers.
2. The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
3. **Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.**
4. Blowout prevention equipment (BOPE) will remain in use until the well is completed or abandoned. Closing unit controls must remain unobstructed and readily accessible at all times. Choke manifolds must be located outside of the rig substructure.

All BOPE components will 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 must be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test must be reported in the driller's log.

BOP drills must 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.

5. All shows of fresh water and minerals will be reported and protected. A sample will be taken of any water flows and a water analysis furnished the BLM, Vernal Field Office. All oil and gas shows will be adequately tested for commercial possibilities, reported, and protected.

6. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will 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 must be obtained and notification given before resumption of operations.
7. Chronologic drilling progress reports must be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.

Any change in the program must be approved by the BLM, Vernal Field Office. "Sundry Notices and Reports on Wells" (Form BLM 3160-5) must be filed for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, will require the filing of a suitable plan pursuant to Onshore Oil & Gas Order No. 1 of 43 CFR 3164.1 and prior approval by the BLM, Vernal Field Office.

In accordance with 43 CFR 3162.4-3, this well must 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.

8. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) will 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, will 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) will be submitted only when requested by the BLM, Vernal Field Office.

**Please submit an electronic copy of all 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. The cement bond log must be submitted in raster format (TIF, PDF other).**

9. All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the BLM, Vernal Field Office.

All measurement points shall be identified as point of sales or allocation for royalty determination prior to the installation of facilities.

10. Oil and gas meters will be calibrated in place prior to any deliveries. The Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will 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.
11. 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.
12. This APD is approved subject to the requirement that, should the well be successfully completed for production, the BLM, Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - a. Operator name, address, and telephone number.
  - b. Well name and number.
  - c. Well location ( $\frac{1}{4}$ / $\frac{1}{4}$ , Sec., Twn, Rng, and P.M.).
  - d. Date well was placed in a producing status (date of first production for which royalty will be paid).
  - e. 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).
  - f. 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.
  - g. Unit agreement and / or participating area name and number, if applicable.
  - h. Communitization agreement number, if applicable.
13. Any venting or flaring of gas will be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from Field Office Petroleum Engineers.

14. 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, will 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
15. 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.
16. Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

**DIVISION OF OIL, GAS AND MINING**

***SPUDDING INFORMATION***

Name of Company: NEWFIELD PRODUCTION COMPANY

Well Name: FEDERAL 5-14-9-17

Api No: 43-013-32703 Lease Type: FEDERAL

Section 14 Township 09S Range 17E County DUCHESNE

Drilling Contractor NDSI RIG # NS#1

**SPUDDED:**

Date 10/27/06

Time 2:00 PM

How DRY

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

Reported by TROY ZUFEIT

Telephone # (435) 823-6013

Date 10/27/06 Signed CHD

RECEIVED

NOV 01 2006

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

DIV. OF OIL, GAS & MINING

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

OPERATOR ACCT. NO. N2895

PAGE 02

INLAND

4356463031

11/01/2006 16:13

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					Q2	SC	TP	RS	COUNTY		
A	99999	15150	43-013-33252	MON BUTT NE 8-25-8-16	NWSE	25	8S	16E	DUCHESNE	10/30/06	11/8/06
WELL 1 COMMENTS: GRPV											
A	99999	12419	43-013-32910	ASHLEY FEDERAL 11-25-9-15	NE/SW	26	9S	18E	DUCHESNE	10/25/06	11/8/06
WELL 1 COMMENTS: GRPV											
B	99999	14844	43-013-32703	SUNDANCE FEDERAL 5-14-9-17	SW/NW	14	8S	17E	DUCHESNE	10/27/06	11/8/06
WELL 1 COMMENTS: GRPV											
A	99999	15762	43-013-32911	ASHLEY FEDERAL 13-25-9-15	SW/SW	25	9S	15E	DUCHESNE	10/27/06	11/8/06
WELL 1 COMMENTS: GRPV											
A	99999	15763	43-013-32912	ASHLEY FEDERAL 14-25-9-15	SE/SW	25	9S	15E	DUCHESNE	10/26/06	11/8/06
WELL 1 COMMENTS: GRPV											
WELL 6 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (flag in well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign 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

*Lana Nebeker*  
 LANA NEBEKER  
 Production Analyst

November 1, 2006  
Date

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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

5. Lease Serial No.  
**UTU-075174**

6. If Indian, Allottee or Tribe Name.

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

8. Well Name and No.  
FEDERAL 5-14-9-17

9. API Well No.  
4301332703

10. Field and Pool, or Exploratory Area  
MONUMENT BUTTE

11. County or Parish, State  
UT

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
NEWFIELD PRODUCTION COMPANY

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

3b. Phone (include are code)  
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
  
SWNW Section 14 T9s R17e

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

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

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

On 10/27/06 MIRU NDSI NS #1. Spud well @ 2:00pm. Drill 320' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24 # csgn. Set @ 322.12' On 10/31/06 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  
NOV 03 2006

DIV. OF OIL, GAS & MINING

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

Title  
Drilling Foreman

Date  
11/02/2006

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

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

(Instructions on reverse)

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8 CASING SET AT 322.12

LAST CASING 8 5/8" SET AT 317.29'  
 DATUM 12' KB  
 DATUM TO CUT OFF CASING \_\_\_\_\_  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER 310' LOGGER \_\_\_\_\_  
 HOLE SIZE 12 1/4

OPERATOR NewField Production Company  
 WELL Federal 5-14-9-17  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # NDSI NS#1

LOG OF CASING STRING:								
PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH	
		Shoe Joint 44.60'						
		WHI - 92 csg head			8rd	A	0.95	
7	8 5/8"	Maverick ST&C csg	24#	J-55	8rd	A	310.27	
		<b>GUIDE</b> shoe			8rd	A	0.9	
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			312.12	
TOTAL LENGTH OF STRING		312.12	7	LESS CUT OFF PIECE			2	
LESS NON CSG. ITEMS		1.85		PLUS DATUM TO T/CUT OFF CSG			12	
PLUS FULL JTS. LEFT OUT		0		CASING SET DEPTH			<b>322.12</b>	
TOTAL		310.27	7	} COMPARE				
TOTAL CSG. DEL. (W/O THRDS)		310.27	7					
TIMING		1ST STAGE		GOOD CIRC THRU JOB			Yes	
BEGIN RUN CSG.		Spud	10/27/2006	2:00PM	Bbls CMT CIRC TO SURFACE			5
CSG. IN HOLE			10/28/2006	9:30AM	RECIPROCATED PIPE FOR			THRU _____ FT STROKE
BEGIN CIRC			10/31/2006	8:34AM				N/A
BEGIN PUMP CMT			10/31/2006	8:43AM	BUMPED PLUG TO			595 PSI
BEGIN DSPL. CMT			10/31/2006	8:55AM				
PLUG DOWN			10/31/2006	9:03Am				
CEMENT USED		CEMENT COMPANY- <b>B. J.</b>						
STAGE	# SX	CEMENT TYPE & ADDITIVES						
1	160	Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield						
CENTRALIZER & SCRATCHER PLACEMENT		SHOW MAKE & SPACING						
Centralizers - Middle first, top second & third for 3								

COMPANY REPRESENTATIVE Don Bastian DATE 10/31/2006

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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

5. Lease Serial No.  
USA UTU-075174

6. If Indian, Allottee or Tribe Name.

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

8. Well Name and No.  
Federal 5-14-9-17

9. API Well No.  
4301332703

10. Field and Pool, or Exploratory Area  
MONUMENT BUTTE

11. County or Parish, State  
DUCHESNE, UT

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
NEWFIELD PRODUCTION COMPANY

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

3b. Phone (include are code)  
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
2031 FNL 466 FWL  
SWNW Section 14 T9S R17E

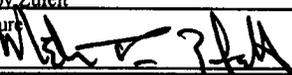
12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA

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

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

On 11/25/2006 MIRU Patterson Rig # 155. 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 @ 273'. Drill out cement & shoe. Drill a 7.875 hole with fresh water to a depth of 5,765'. 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, 131 jt's of 5.5 J-55, 15.5# csgn. Set @ 5747.87' / KB. Cement with 302sks cement mixed @ 11.0 ppg & 3.5 yld. The 450 sks cement mixed @ 14.4 ppg & 1.24 yld. With 16 bbls cmt. returned to pit. Nipple down Bop's. Drop slips @ 90,000 #'s tension. Release rig 12:30 pm on 11/30/2006.

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

Signature: 

Title: Drilling Foreman

Date: 12/01/2006

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

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

Office: \_\_\_\_\_

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(Instructions on reverse)

RECEIVED

DEC 05 2006

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

\_\_\_\_\_ **5 1/2"** CASING SET AT \_\_\_\_\_ **5747.87**

LAST CASING **8 5/8"** SET AT **322.12'**  
 DATUM **12' KB**  
 DATUM TO CUT OFF CASING **12'**  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER **5765'** TD loggers **5744'**  
 HOLE SIZE **7 7/8"**

Flt clr @ **5704.27**  
 OPERATOR **Newfield Production Company**  
 WELL **Federal 5-14-9-17**  
 FIELD/PROSPECT **Monument Butte**  
 CONTRACTOR & RIG # **Patterson-UTI Rig # 155**

LOG OF CASING STRING:							
PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		Landing Jt					14
		Short jt 5.65' @ 3773.07					
<b>130</b>	<b>5 1/2"</b>	ETC LT & C casing	<b>15.5#</b>	<b>J-55</b>	<b>8rd</b>	<b>A</b>	5690.27
							0.6
<b>1</b>	<b>5 1/2"</b>	ETC LT&C csg	<b>15.5#</b>	<b>J-55</b>	<b>8rd</b>	<b>A</b>	44.35
		<b>GUIDE</b> shoe			<b>8rd</b>	<b>A</b>	0.65
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			5749.87
TOTAL LENGTH OF STRING		5749.87	131	LESS CUT OFF PIECE			14
LESS NON CSG. ITEMS		15.25		PLUS DATUM TO T/CUT OFF CSG			12
PLUS FULL JTS. LEFT OUT		64.57	2	CASING SET DEPTH			<b>5747.87</b>
TOTAL		<b>5799.19</b>	<b>133</b>	} COMPARE			
TOTAL CSG. DEL. (W/O THRDS)		5799.19	133				
TIMING		1ST STAGE	2nd STAGE	GOOD CIRC THRU JOB			YES
BEGIN RUN CSG.		11/29/2006	12:00 AM	Bbls CMT CIRC TO SURFACE			16
CSG. IN HOLE		11/29/2006	3:30 AM	RECIPROCATED PIPE FOR			THRUSTROKE
BEGIN CIRC		11/29/2006	3:45 AM	DID BACK PRES. VALVE HOLD ?			YES
BEGIN PUMP CMT		11/30/2006	6:02 AM	BUMPED PLUG TO			1480 PSI
BEGIN DSPL. CMT		11/30/2006	7:11 AM				
PLUG DOWN		11/30/2006	7:15 AM				
CEMENT USED		CEMENT COMPANY- <b>B. J.</b>					
STAGE	# SX	CEMENT TYPE & ADDITIVES					
<b>1</b>	<b>302</b>	Premlite II w/ 10% gel + 3 % KCL, 3#s /sk CSE + 2# sk/kolseal + 1/4#s/sk Cello Flake					
		mixed @ 11.0 ppg W / 3.5 cf/sk yield					
<b>2</b>	<b>450</b>	50/50 poz W/ 2% Gel + 3% KCL, .5%EC1, 1/4# sk C.F. 2% gel. 3% SM mixed @ 14.4 ppg W/ 1.24 YLD					
CENTRALIZER & SCRATCHER PLACEMENT			SHOW MAKE & SPACING				
Centralizers - Middle first, top second & third. Then every third collar for a total of 20.							

COMPANY REPRESENTATIVE     **Troy Zufelt**     DATE     **11/29/2006**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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

5. Lease Serial No.  
USA UTU-075174

6. If Indian, Allottee or Tribe Name.

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

8. Well Name and No.  
Federal 5-14-9-17

9. API Well No.  
4301332703

10. Field and Pool, or Exploratory Area  
MONUMENT BUTTE

11. County or Parish, State  
DUCHESNE, UT

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
NEWFIELD PRODUCTION COMPANY

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

3b. Phone (include area code)  
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
2031 FNL 466 FWL  
SWNW Section 14 T9S R17E

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

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

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

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

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

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

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

Signature: *Mandie Crozier*

Title  
Regulatory Specialist

Date  
12/18/2006

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

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

Office \_\_\_\_\_

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(Instructions on reverse)

**RECEIVED**  
**DEC 20 2006**

DIV. OF OIL, GAS & MINING

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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
USA UTU-075174

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:  
SUNDANCE UNIT

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER

8. WELL NAME and NUMBER:  
Federal 5-14-9-17

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:  
4301332703

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

10. FIELD AND POOL, OR WILDCAT:  
MONUMENT BUTTE

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: 2031 FNL 466 FWL

COUNTY: DUCHESNE

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SWNW, 14, T9S, R17E

STATE: UT

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will  _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  01/05/2007	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Weekly Status Report
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

Status report for time period 12/07/06 - 12/15/06

Subject well had completion procedures initiated in the Green River formation on 12-07-06 without the use of a service rig over the well. A cement bond log was run and a total of four Green River intervals were perforated and hydraulically fracture treated with 20/40 mesh sand. Perforated intervals are as follows: Stage #1 (5367'-5372'),(5324'-5331'), (5282'-5285'); Stage #2 (5034'-5043'); Stage #3 (4625'-4634'); Stage #4 (3890'-3910'). All perforations, were 4 JSPF. Composite flow-through frac plugs were used between stages. Fracs were flowed back through chokes. A service rig was moved over the well on 12-13-2006. Bridge plugs were drilled out and well was cleaned to 5702'. Zones were swab tested for sand cleanup. A new 1 1/2" bore rod pump was run in well on sucker rods. Well was placed on production via rod pump on 12-15-2006.

NAME (PLEASE PRINT) Jentri Park

TITLE Production Clerk

SIGNATURE 

DATE 01/05/2007

(This space for State use only)

RECEIVED

JAN 08 2007

DIVISION OF OIL, GAS AND MINING

(See other instructions on reverse side)

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

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

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

**1a. TYPE OF WORK**

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

**1b. TYPE OF WELL**

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

**2. NAME OF OPERATOR**

Newfield Exploration Company

**3. ADDRESS AND TELEPHONE NO.**

1401 17th St. Suite 1000 Denver, CO 80202

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

At Surface 2031' FNL & 466' FWL (SW/NW) Sec. 14, T9S, R17E

At top prod. Interval reported below

At total depth

14. API NO. 43-013-32703 DATE ISSUED 11/16/05

**5. LEASE DESIGNATION AND SERIAL NO.**

UTU-075174

**6. IF INDIAN, ALLOTTEE OR TRIBE NAME**

NA

**7. UNIT AGREEMENT NAME**

Federal

**8. FARM OR LEASE NAME, WELL NO.**

Federal 5-14-9-17

**9. WELL NO.**

43-013-32703

**10. FIELD AND POOL OR WILDCAT**

Monument Butte

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

Sec. 14, T9S, R17E

**12. COUNTY OR PARISH**

Duchesne

**13. STATE**

UT

**15. DATE SPUNDED**

10/27/06

**16. DATE T.D. REACHED**

11/29/06

**17. DATE COMPL. (Ready to prod.)**

12/15/06

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

5225' GL

**19. ELEV. CASINGHEAD**

5237' KB

**20. TOTAL DEPTH, MD & TVD**

5765'

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

5702'

**22. IF MULTIPLE COMPL., HOW MANY\***

**23. INTERVALS DRILLED BY**

----->

**ROTARY TOOLS**

X

**CABLE TOOLS**

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

Green River 3890'-5372'

**25. WAS DIRECTIONAL SURVEY MADE**

No

**26. TYPE ELECTRIC AND OTHER LOGS RUN**

Dual Induction Guard, SP, Compensated Density, Compensated Neutron, GR, Caliper, Cement Bond Log

**27. WAS WELL CORED**

No

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

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8-5/8" - J-55	24#	322'	12-1/4"	To surface with 160 sx Class "G" cmt	
5-1/2" - J-55	15.5#	5748'	7-7/8"	300 sx Premilite II and 425 sx 50/50 Poz	

**29. LINER RECORD**

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

**30. TUBING RECORD**

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	EOT @ 5441'	TA @ 5310'

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

INTERVAL	SIZE	SPF/NUMBER	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5367'-5372', 5324'-5331', 5282'-5285'	.46"	4/60	5282'-5372'	Frac w/ 64,804# 20/40 sand in 537 bbls fluid
(LODC) 5034'-5043'	.43"	4/36	5034'-5043'	Frac w/ 35,282# 20/40 sand in 377 bbls fluid
(C) 4625'-4634'	.43"	4/36	4625'-4634'	Frac w/ 60,637# 20/40 sand in 487 bbls fluid
(GB4) 3890'-3910'	.43"	4/80	3890'-3910'	Frac w/ 92,273# 20/40 sand in 639 bbls fluid

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

**33.\* PRODUCTION**

DATE FIRST PRODUCTION 12/15/06	PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump) 2-1/2" x 1-1/2" x 14' RHAC SM Plunger Pump	WELL STATUS (Producing or shut-in) PRODUCING					
DATE OF TEST 10 day ave	HOURS TESTED	CHOKE SIZE	PRODN. FOR TEST PERIOD ----->	OIL--BBL. 0	GAS--MCF. 1	WATER--BBL. 8	GAS-OIL RATIO #DIV/0!
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE ----->	OIL--BBL.	GAS--MCF.	WATER--BBL.	OIL GRAVITY-API (CORR.)	

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

Sold & Used for Fuel

TEST WITNESSED BY

**RECEIVED**

JAN 16 2007

**35. LIST OF ATTACHMENTS**

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

SIGNED

Jenty Park

TITLE

Production Operator  
DIVISION OF OIL & GAS & MINING

DATE

1/10/2007

JP

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

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries);				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
			Well Name Federal 5-14-9-17	Garden Gulch Mkr	3484'	
				Garden Gulch 1	3670'	
				Garden Gulch 2	3781'	
				Point 3 Mkr	4040'	
				X Mkr	4284'	
				Y-Mkr	4321'	
				Douglas Creek Mkr	4445'	
				BiCarbonate Mkr	4679'	
				B Limestone Mkr	4798'	
				Castle Peak	5254'	
				Basal Carbonate	5672'	
				Total Depth (LOGGERS)	5744'	

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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

5. Lease Serial No.  
USA UTU-075174

6. If Indian, Allottee or Tribe Name.

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

8. Well Name and No.  
Federal 5-14-9-17

9. API Well No.  
4301332703

10. Field and Pool, or Exploratory Area  
GREATER MB UNIT

11. County or Parish, State  
DUCHESNE, UT

**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 are code)  
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
2031 FNL 466 FWL  
SWNW Section 14 T9S R17E

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

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

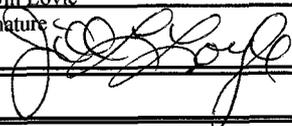
13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomplate 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.)

Newfield Production proposes to convert the above mentioned well from producing oil well to an injection well.

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

**RECEIVED**  
**DEC 21 2011**  
DIV. OF OIL, GAS & MINING

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

Signature 

Title  
Regulatory Technician

Date  
11/09/2011

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

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

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

Office \_\_\_\_\_

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

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<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-075174
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>1. TYPE OF WELL</b> Oil 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 5-14-9-17
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630, Myton, UT, 84052		<b>9. API NUMBER:</b> 43013327030000
<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> 2031 FNL 0466 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 14 Township: 09.0S Range: 17.0E 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: 10/31/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input checked="" type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input checked="" type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

The subject well has been converted from a producing oil well to an injection well on 10/29/2012. On 10/30/2012 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 10/31/2012 the casing was pressured up to 1670 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 50 psig during the test. There was not an EPA representative available to witness the test. EPA# UT22217-09421

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
November 13, 2012**

<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 11/6/2012	

## Mechanical Integrity Test

### Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_ Date: 10 / 31 / 2012  
 Test conducted by: Brendan Curry  
 Others present: \_\_\_\_\_

Well Name: <u>Federal 5-14-9-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Greater Monument Butte</u>		
Location: <u>5</u> Sec: <u>14</u> T <u>9</u> N / <u>S</u> R <u>17</u> <u>E</u> / W	County: <u>Duchesne</u> State: <u>UT</u>	
Operator: <u>Newfield Production</u>		
Last MIT: _____ / _____ / _____	Maximum Allowable Pressure: _____ PSIG	

Is this a regularly scheduled test?     Yes     No  
 Initial test for permit?                 Yes     No  
 Test after well rework?                 Yes     No  
 Well injecting during test?             Yes     No      If Yes, rate: \_\_\_\_\_ bpd

Pre-test casing/tubing annulus pressure: \_\_\_\_\_ 0 \_\_\_\_\_ psig

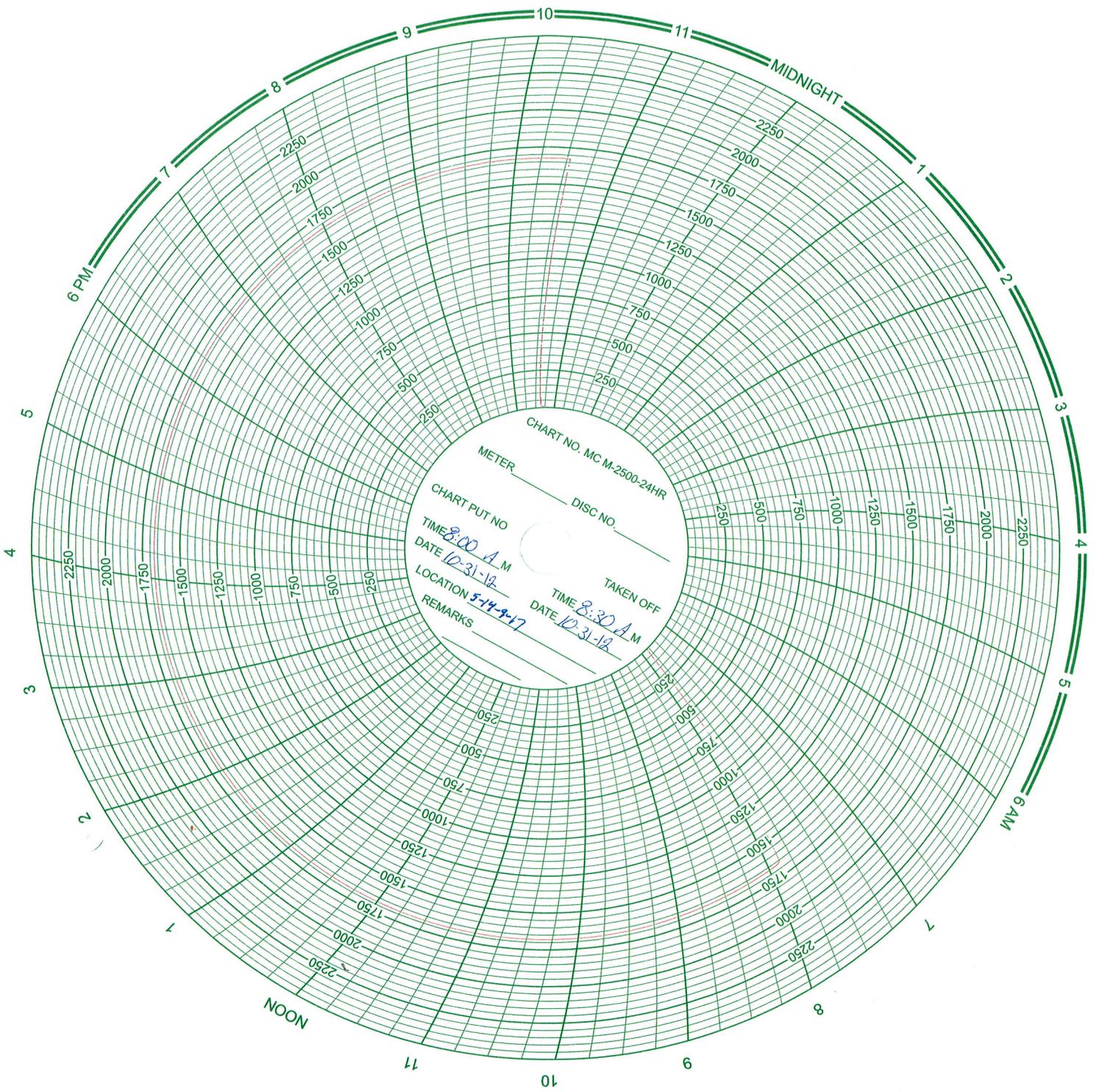
MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	<u>50</u> psig	psig	psig
End of test pressure	<u>50</u> psig	psig	psig
<b>CASING / TUBING ANNULUS PRESSURE</b>			
0 minutes	<u>1670</u> psig	psig	psig
5 minutes	<u>1670</u> psig	psig	psig
10 minutes	<u>1670</u> psig	psig	psig
15 minutes	<u>1670</u> psig	psig	psig
20 minutes	<u>1670</u> psig	psig	psig
25 minutes	<u>1670</u> psig	psig	psig
30 minutes	<u>1670</u> psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
<b>RESULT</b>	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test?     Yes     No

## MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

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



## Daily Activity Report

Format For Sundry

FEDERAL 5-14-9-17

8/1/2012 To 12/30/2012

10/26/2012 Day: 1

Conversion

NC #2 on 10/26/2012 - MIRUSU, RDPU, PT Tbg, LD 99- Rods, SWIFN - MIRUSU @ 12:30, RDPU, H/ Oiler Pmped 60BW Down Csg, LD Polished Rod, US Rod Pmp, H/ Oiler Pmped 40BW Down Tbg, Soft Seat Rod Pmp, PT Tbg To 3000psi, GOOD TEST, 20BW To Fill, LD 1- 3/4"x 2',6',8' Rod Subs, LD 99- 3/4" 4per Guided Rods...SWIFN...5:30PM To 6:00PM C/ Travl - MIRUSU @ 12:30, RDPU, H/ Oiler Pmped 60BW Down Csg, LD Polished Rod, US Rod Pmp, H/ Oiler Pmped 40BW Down Tbg, Soft Seat Rod Pmp, PT Tbg To 3000psi, GOOD TEST, 20BW To Fill, LD 1- 3/4"x 2',6',8' Rod Subs, LD 99- 3/4" 4per Guided Rods...SWIFN...5:30PM To 6:00PM C/ Travl - MIRUSU @ 12:30, RDPU, H/ Oiler Pmped 60BW Down Csg, LD Polished Rod, US Rod Pmp, H/ Oiler Pmped 40BW Down Tbg, Soft Seat Rod Pmp, PT Tbg To 3000psi, GOOD TEST, 20BW To Fill, LD 1- 3/4"x 2',6',8' Rod Subs, LD 99- 3/4" 4per Guided Rods...SWIFN...5:30PM To 6:00PM C/ Travl - 5:30AM To 6:00AM C/ Travl: OWU @ 6:00AM, H/ Oiler Pmped 30BW Down Tbg, LD: 89- 3/4" Plain Rods, 20- 3/4" Guided Rods, 6- 1 1/2" Wt Bars, LD National VSP 2.5"x 1.25"x 19' Rods Pmp (NO SIGNS OF SCALE), XO For Tbg, ND 3K B-1 Adaptor, US TA, NU Weatherford BOP, RU Workfloor, PU 5- Jts, Tagged Fill @ 5586' (162' Of Total Fill From PB), LD 5- Jts, H/ Oiler Pmped 40BW Down Tbg, POOH W/ 122 Jts Breaking & Inspecting Collars, Applied Liquid O- Ring To Pins & Retorqued, H/ Oiler Pmped 30BW Down Tbg, LD 10- Jts, SWIFN...7:00PM To 7:30PM C/ Travl - 5:30AM To 6:00AM C/ Travl: OWU @ 6:00AM, LD 40- Jts On Trailer, TIH W/ 122 Jts Open Holed, H/ Oiler Pmped 30BW Down Tbg, POOH Checking Torque On Each Pin, MU & RIH W/ XN Arrow PKR, TIH W/ 122 Jts, SWIFN...5:30PM To 6:00PM C/ Travl - 5:30AM To 6:00AM C/ Travl: OWU @ 6:00AM, LD 40- Jts On Trailer, TIH W/ 122 Jts Open Holed, H/ Oiler Pmped 30BW Down Tbg, POOH Checking Torque On Each Pin, MU & RIH W/ XN Arrow PKR, TIH W/ 122 Jts, SWIFN...5:30PM To 6:00PM C/ Travl - 5:30AM To 6:00AM C/ Travl: OWU @ 6:00AM, LD 40- Jts On Trailer, TIH W/ 122 Jts Open Holed, H/ Oiler Pmped 30BW Down Tbg, POOH Checking Torque On Each Pin, MU & RIH W/ XN Arrow PKR, TIH W/ 122 Jts, SWIFN...5:30PM To 6:00PM C/ Travl - 5:30AM To 6:00AM C/ Travl: OWU @ 6:00AM, H/ Oiler Pmped 30BW Down Tbg, LD: 89- 3/4" Plain Rods, 20- 3/4" Guided Rods, 6- 1 1/2" Wt Bars, LD National VSP 2.5"x 1.25"x 19' Rods Pmp (NO SIGNS OF SCALE), XO For Tbg, ND 3K B-1 Adaptor, US TA, NU Weatherford BOP, RU Workfloor, PU 5- Jts, Tagged Fill @ 5586' (162' Of Total Fill From PB), LD 5- Jts, H/ Oiler Pmped 40BW Down Tbg, POOH W/ 122 Jts Breaking & Inspecting Collars, Applied Liquid O- Ring To Pins & Retorqued, H/ Oiler Pmped 30BW Down Tbg, LD 10- Jts, SWIFN...7:00PM To 7:30PM C/ Travl - 5:30AM To 6:00AM C/ Travl: OWU @ 6:00AM, H/ Oiler Pmped 30BW Down Tbg, LD: 89- 3/4" Plain Rods, 20- 3/4" Guided Rods, 6- 1 1/2" Wt Bars, LD National VSP 2.5"x 1.25"x 19' Rods Pmp (NO SIGNS OF SCALE), XO For Tbg, ND 3K B-1 Adaptor, US TA, NU Weatherford BOP, RU Workfloor, PU 5- Jts, Tagged Fill @ 5586' (162' Of Total Fill From PB), LD 5- Jts, H/ Oiler Pmped 40BW Down Tbg, POOH W/ 122 Jts Breaking & Inspecting Collars, Applied Liquid O- Ring To Pins & Retorqued, H/ Oiler Pmped 30BW Down Tbg, LD 10- Jts, SWIFN...7:00PM To 7:30PM C/ Travl - MIRUSU @ 12:30, RDPU, H/ Oiler Pmped 60BW Down Csg, LD Polished Rod, US Rod Pmp, H/ Oiler Pmped 40BW Down Tbg, Soft Seat Rod Pmp, PT Tbg To 3000psi, GOOD TEST, 20BW To Fill, LD 1- 3/4"x 2',6',8' Rod Subs, LD 99- 3/4" 4per Guided Rods...SWIFN...5:30PM To 6:00PM C/ Travl - MIRUSU @ 12:30, RDPU, H/ Oiler Pmped 60BW Down Csg, LD Polished Rod, US Rod Pmp, H/ Oiler Pmped 40BW

Down Tbg, Soft Seat Rod Pmp, PT Tbg To 3000psi, GOOD TEST, 20BW To Fill, LD 1- 3/4"x 2',6',8' Rod Subs, LD 99- 3/4" 4per Guided Rods...SWIFN...5:30PM To 6:00PM C/ Travl - MIRUSU @ 12:30, RDPU, H/ Oiler Pmped 60BW Down Csg, LD Polished Rod, US Rod Pmp, H/ Oiler Pmped 40BW Down Tbg, Soft Seat Rod Pmp, PT Tbg To 3000psi, GOOD TEST, 20BW To Fill, LD 1- 3/4"x 2',6',8' Rod Subs, LD 99- 3/4" 4per Guided Rods...SWIFN...5:30PM To 6:00PM C/ Travl - 5:30AM To 6:00AM C/ Travl: OWU @ 6:00AM, LD 40- Jts On Trailer, TIH W/ 122 Jts Open Holed, H/ Oiler Pmped 30BW Down Tbg, POOH Checking Torque On Each Pin, MU & RIH W/ XN Arrow PKR, TIH W/ 122 Jts, SWIFN...5:30PM To 6:00PM C/ Travl - 5:30AM To 6:00AM C/ Travl: OWU @ 6:00AM, LD 40- Jts On Trailer, TIH W/ 122 Jts Open Holed, H/ Oiler Pmped 30BW Down Tbg, POOH Checking Torque On Each Pin, MU & RIH W/ XN Arrow PKR, TIH W/ 122 Jts, SWIFN...5:30PM To 6:00PM C/ Travl - 5:30AM To 6:00AM C/ Travl: OWU @ 6:00AM, LD 40- Jts On Trailer, TIH W/ 122 Jts Open Holed, H/ Oiler Pmped 30BW Down Tbg, POOH Checking Torque On Each Pin, MU & RIH W/ XN Arrow PKR, TIH W/ 122 Jts, SWIFN...5:30PM To 6:00PM C/ Travl - 5:30AM To 6:00AM C/ Travl: OWU @ 6:00AM, LD 40- Jts On Trailer, TIH W/ 122 Jts Open Holed, H/ Oiler Pmped 30BW Down Tbg, POOH Checking Torque On Each Pin, MU & RIH W/ XN Arrow PKR, TIH W/ 122 Jts, SWIFN...5:30PM To 6:00PM C/ Travl - 5:30AM To 6:00AM C/ Travl: OWU @ 6:00AM, LD 89- 3/4" Plain Rods, 20- 3/4" Guided Rods, 6- 1 1/2" Wt Bars, LD National VSP 2.5"x 1.25"x 19' Rods Pmp (NO SIGNS OF SCALE), XO For Tbg, ND 3K B-1 Adaptor, US TA, NU Weatherford BOP, RU Workfloor, PU 5- Jts, Tagged Fill @ 5586' (162' Of Total Fill From PB), LD 5- Jts, H/ Oiler Pmped 40BW Down Tbg, POOH W/ 122 Jts Breaking & Inspecting Collars, Applied Liquid O- Ring To Pins & Retorqued, H/ Oiler Pmped 30BW Down Tbg, LD 10- Jts, SWIFN...7:00PM To 7:30PM C/ Travl - 5:30AM To 6:00AM C/ Travl: OWU @ 6:00AM, H/ Oiler Pmped 30BW Down Tbg, LD: 89- 3/4" Plain Rods, 20- 3/4" Guided Rods, 6- 1 1/2" Wt Bars, LD National VSP 2.5"x 1.25"x 19' Rods Pmp (NO SIGNS OF SCALE), XO For Tbg, ND 3K B-1 Adaptor, US TA, NU Weatherford BOP, RU Workfloor, PU 5- Jts, Tagged Fill @ 5586' (162' Of Total Fill From PB), LD 5- Jts, H/ Oiler Pmped 40BW Down Tbg, POOH W/ 122 Jts Breaking & Inspecting Collars, Applied Liquid O- Ring To Pins & Retorqued, H/ Oiler Pmped 30BW Down Tbg, LD 10- Jts, SWIFN...7:00PM To 7:30PM C/ Travl **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$5,585

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**10/29/2012 Day: 4**

**Conversion**

NC #2 on 10/29/2012 - Pressure Test Tbg, Fish Stnd Vlve, R/D BOPS, Set & Pressure Test Pkr - 5:30 To 6:00 AM C/Trvl, 6:00 AM OWU, R/U H/Oiler To Tbg, Pmp 20 Bbls Wtr, Drop Stnd Vlve, Pressure Test Tbg To 3,000 Psi, Good Test, R/U Sandline, Fish Stnd Vlve, R/D Sandline, R/D Weatherford BOPS, R/U Injection Tree, R/U H/Oiler To CSg, Pmp 70 Bbls Fresh Wtr, R/D Inj Tree, Set Pkr, R/U Inj Tree, Pressure Test Csg To 1,500 Psi, Good Test, R/D NC #2, Well Ready For MIT. - 5:30 To 6:00 AM C/Trvl, 6:00 AM OWU, R/U H/Oiler To Tbg, Pmp 20 Bbls Wtr, Drop Stnd Vlve, Pressure Test Tbg To 3,000 Psi, Good Test, R/U Sandline, Fish Stnd Vlve, R/D Sandline, R/D Weatherford BOPS, R/U Injection Tree, R/U H/Oiler To CSg, Pmp 70 Bbls Fresh Wtr, R/D Inj Tree, Set Pkr, R/U Inj Tree, Pressure Test Csg To 1,500 Psi, Good Test, R/D NC #2, Well Ready For MIT.

**Daily Cost:** \$0

**Cumulative Cost:** \$36,074

---

**11/2/2012 Day: 5**

**Conversion**

Rigless on 11/2/2012 - Conduct initial MIT - On 10/30/2012 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 10/31/2012 the casing was pressured up to 1670 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 50 psig during the test. There was not an EPA representative available to witness the test. EPA# UT22217-09421 - On 10/30/2012 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 10/31/2012 the casing was pressured up to 1670 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 50

psig during the test. There was not an EPA representative available to witness the test. EPA#

UT22217-09421 **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$124,908

---

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



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
1595 WYNKOOP STREET
DENVER, CO 80202-1129
http://www.epa.gov/region8

OCT 04 2012

Ref: 8P-W-UIC

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

RECEIVED
OCT 17 2012

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

DIV. OF OIL, GAS & MINING

Accepted by the
Utah Division of
Oil, Gas and Mining

Re: FINAL Permit
EPA UIC Permit UT22217-09421
Well: Federal 5-14-9-17
SWNW Sec. 14-T9S-R17E
Duchesne County, UT
API No.: 4301332703

FOR RECORD ONLY

Dear Mr. Sundberg:

Enclosed is your copy of the FINAL Underground Injection Control (UIC) Program Permit for the proposed Federal 5-14-9-17 injection well. A Statement of Basis that discusses the conditions and requirements of this Environmental Protection Agency (EPA) UIC Permit, is also included.

SEP 20 2012

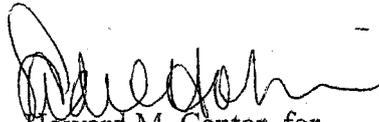
The public comment period for this permit ended on ... No comments on the draft permit were received during the public notice period; therefore the effective date for this EPA UIC Permit is the date of issuance. All conditions set forth herein refer to Title 40 Parts 124, 144, 146, and 147 of the Code of Federal Regulations (CFR) and are regulations that are in effect as of the Effective Date of this Permit.

Please note that under the terms and conditions of this final permit you are authorized only to construct the proposed injection well. Prior to commencing injection, you first must fulfill all "Prior to Commencing Injection" requirements of the final permit, Part II Section C.1, and obtain written Authorization to Inject from EPA. It is your responsibility to be familiar with and to comply with all provisions of your final permit. The EPA forms referenced in the permit are available at http://www.epa.gov/safewater/uic/reportingforms.html. Guidance documents for Cement Bond Logging, Radioactive Tracer Testing, Step Rate Testing, Mechanical Integrity Demonstration, Procedure in the Event of a Mechanical Integrity Loss, and other UIC guidances, are available at http://www.epa.gov/region8/water/uic/deep\_injection.html. Upon request, hard copies of the EPA forms and guidances can be provided.

This EPA UIC permit is issued for the operating life of the well unless terminated (Part III, Section B). The EPA may review this permit at least every five (5) years to determine whether any action is warranted pursuant to 40 CFR § 144.36(a).

If you have any questions on the enclosed final permit or Statement of Basis, please call Emmett Schmitz of my staff at (303) 312-6174, or toll-free at (800) 227-8917, ext. 312-6174.

Sincerely,



Howard M. Cantor, for  
Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance



enclosure: Final UIC Permit  
Statement of Basis

cc: Letter Only:  
Uintah & Ouray Business Committee:  
Irene Cuch, Chairman  
Ronald Wopsock, Vice-Chairman  
Frances Poowegup, Councilwoman  
Phillip Chimburas, Councilman  
Stewart Pike, Councilman  
Richards Jenks, Jr., Councilman

Johnna Blackhair  
BIA - Uintah & Ouray Indian Agency

cc: All Enclosures:  
Reed Durfey  
District Manager  
Newfield Production Company  
Myton, Utah

Mike Natchees  
Environmental Coordinator  
Ute Indian Tribe



Manual Myore  
Director of Energy & Minerals Dept.

Brad Hill  
Acting Associate Director  
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office  
BLM - Vernal, Utah Office





**UNDERGROUND INJECTION CONTROL PROGRAM  
PERMIT**

PREPARED: September 2012

**Permit No. UT22217-09421**

Class II Enhanced Oil Recovery Injection Well

**Federal 5-14-9-17  
Duchesne County, UT**

Issued To

**Newfield Production Co.**  
1001 Seventeenth Street, Suite 2000  
Denver, CO 80202

## Part I. AUTHORIZATION TO CONSTRUCT AND OPERATE

Under the authority of the Safe Drinking Water Act and Underground Injection Control (UIC) Program regulations of the U. S. Environmental Protection Agency (EPA) codified at Title 40 of the Code of Federal Regulations (40 CFR) Parts 2, 124, 144, 146, and 147, and according to the terms of this Permit,

Newfield Production Co.  
1001 Seventeenth Street, Suite 2000  
Denver, CO 80202

is authorized to construct and to operate the following Class II injection well or wells:

Federal 5-14-9-17  
2,031' FNL & 466' FWL, SWNW S14, T9S, R17E  
Duchesne County, UT

EPA regulates the injection of fluids into injection wells so that injection does not endanger underground sources of drinking water (USDWs). EPA UIC Permit conditions are based on authorities set forth at 40 CFR Parts 144 and 146, and address potential impacts to USDWs.

Under 40 CFR Part 144, Subpart D, certain conditions apply to all UIC Permits and may be incorporated either expressly or by reference. General permit conditions for which the content is mandatory and not subject to site-specific differences are not discussed in this document. Issuance of this Permit does not convey any property rights of any sort or any exclusive privilege, nor does it authorize injury to persons or property or invasion of other private rights, or any infringement of other Federal, State or local laws or regulations. (40 CFR §144.35) An EPA-UIC Permit may be issued for the operating life of the injection well or project unless terminated for reasonable cause under 40 CFR §144.39, 144.40 and 144.41, and may be reviewed at least once every five (5) years to determine if action is required under 40 CFR §144.36(a).

This Permit is issued for the life of the well(s) unless modified, revoked and reissued, or terminated under 40 CFR §144.39 or 144.40. This EPA Permit may be adopted, modified, revoked and reissued, or terminated if primary enforcement authority for a UIC Program is delegated to an Indian Tribe or State. Upon the effective date of delegation, reports, notifications, questions and other correspondence should be directed to the Indian Tribe or State Director.

Issue Date: OCT 04 2012

Effective Date OCT 04 2012

  
Howard M. Cantor, for  
Assistant Regional Administrator\*  
Office of Partnerships and Regulatory Assistance

\*NOTE: The person holding this title is referred to as the "Director" throughout this Permit.

## PART II. SPECIFIC PERMIT CONDITIONS

### Section A. WELL CONSTRUCTION REQUIREMENTS

These requirements represent the approved minimum construction standards for well casing and cement, injection tubing, and packer.

Details of the approved well construction plan are incorporated into this Permit as APPENDIX A. Changes to the approved plan that may occur during construction must be approved by the Director prior to being physically incorporated.

#### **1. Casing and Cement.**

The well or wells shall be cased and cemented to prevent the movement of fluids into or between underground sources of drinking water. The well casing and cement shall be designed for the life expectancy of the well and of the grade and size shown in APPENDIX A. Remedial cementing may be required if shown to be inadequate by cement bond log or other attempted demonstration of Part II (External) mechanical integrity.

#### **2. Injection Tubing and Packer.**

Injection tubing is required, and shall be run and set with a packer at or below the depth indicated in APPENDIX A. The packer setting depth may be changed provided it remains below the depth indicated in APPENDIX A and the Permittee provides notice and obtains the Director's approval for the change.

#### **3. Sampling and Monitoring Devices.**

The Permittee shall install and maintain in good operating condition:

- (a) a "tap" at a conveniently accessible location on the injection flow line between the pump house or storage tanks and the injection well, isolated by shut-off valves, for collection of representative samples of the injected fluid; and
- (b) one-half (1/2) inch female iron pipe fitting, isolated by shut-off valves and located at the wellhead at a conveniently accessible location, for the attachment of a pressure gauge capable of monitoring pressures ranging from normal operating pressures up to the Maximum Allowable Injection Pressure specified in APPENDIX C:
  - (i) on the injection tubing; and
  - (ii) on the tubing-casing annulus (TCA); and
- (c) a pressure actuated shut-off device attached to the injection flow line set to shut-off the injection pump when or before the Maximum Allowable Injection Pressure (MAIP) specified in APPENDIX C is reached at the wellhead; and
- (d) a non-resettable cumulative volume recorder attached to the injection line.

#### **4. Well Logging and Testing**

Well logging and testing requirements are found in APPENDIX B. The Permittee shall ensure the log and test requirements are performed within the time frames specified in APPENDIX B. Well logs and tests shall be performed according to current EPA-approved procedures. Well log and test results shall be submitted to the Director within sixty (60) days of completion of the logging or testing activity, and shall include a report describing the methods used during logging or testing and an interpretation of the test or log results.

#### **5. Postponement of Construction or Conversion**

The Permittee shall complete well construction within one year of the Effective Date of the Permit, or in the case of an Area Permit within one year of Authorization of the additional well. Authorization to construct and operate shall expire if the well has not been constructed within one year of the Effective Date of the Permit or Authorization and the Permit may be terminated under 40 CFR 144.40, unless the Permittee has notified the Director and requested an extension prior to expiration. Notification shall be in writing, and shall state the reasons for the delay and provide an estimated completion date. Once Authorization has expired under this part, the complete permit process including opportunity for public comment may be required before Authorization to construct and operate may be reissued.

#### **6. Workovers and Alterations**

Workovers and alterations shall meet all conditions of the Permit. Prior to beginning any addition or physical alteration to an injection well that may significantly affect the tubing, packer or casing, the Permittee shall give advance notice to the Director and obtain the Director's approval. The Permittee shall record all changes to well construction on a Well Rework Record (EPA Form 7520-12), and shall provide this and any other record of well workover, logging, or test data to EPA within sixty (60) days of completion of the activity.

A successful demonstration of Part I MI is required following the completion of any well workover or alteration which affects the casing, tubing, or packer. Injection operations shall not be resumed until the well has successfully demonstrated mechanical integrity and the Director has provided written approval to resume injection.

### **Section B. MECHANICAL INTEGRITY**

The Permittee is required to ensure each injection well maintains mechanical integrity at all times. The Director, by written notice, may require the Permittee to comply with a schedule describing when mechanical integrity demonstrations shall be made.

An injection well has mechanical integrity if:

- (a) There is no significant leak in the casing, tubing, or packer (Part I); and
- (b) There is no significant fluid movement into an underground source of drinking water through vertical channels adjacent to the injection well bore (Part II).

### **1. Demonstration of Mechanical Integrity (MI).**

The operator shall demonstrate MI prior to commencing injection and periodically thereafter. Well-specific conditions dictate the methods and the frequency for demonstrating MI and are discussed in the Statement of Basis. The logs and tests are designed to demonstrate both internal (Part I) and external (Part II) MI as described above. The conditions present at this well site warrant the methods and frequency required in Appendix B of this Permit.

In addition to these regularly scheduled demonstrations of MI, the operator shall demonstrate internal (Part I) MI after any workover which affects the tubing, packer or casing.

The Director may require additional or alternative tests if the results presented by the operator are not satisfactory to the Director to demonstrate there is no movement of fluid into or between USDWs resulting from injection activity. Results of MI tests shall be submitted to the Director as soon as possible but no later than sixty (60) days after the test is complete.

### **2. Mechanical Integrity Test Methods and Criteria**

EPA-approved methods shall be used to demonstrate mechanical integrity. Ground Water Section Guidance No. 34 "Cement Bond Logging Techniques and Interpretation", Ground Water Section Guidance No. 37, "Demonstrating Part II (External) Mechanical Integrity for a Class II injection well permit", and Ground Water Section Guidance No. 39, "Pressure Testing Injection Wells for Part I (Internal) Mechanical Integrity" are available from EPA and will be provided upon request.

The Director may stipulate specific test methods and criteria best suited for a specific well construction and injection operation.

### **3. Notification Prior to Testing.**

The Permittee shall notify the Director at least seven calendar days prior to any mechanical integrity test unless the mechanical integrity test is conducted after a well construction, well conversion, or a well rework, in which case any prior notice is sufficient. The Director may allow a shorter notification period if it would be sufficient to enable EPA to witness the mechanical integrity test. Notification may be in the form of a yearly or quarterly schedule of planned mechanical integrity tests, or it may be on an individual basis.

### **4. Loss of Mechanical Integrity.**

If the well fails to demonstrate mechanical integrity during a test, or a loss of mechanical integrity becomes evident during operation (such as presence of pressure in the TCA, water flowing at the surface, etc.), the Permittee shall notify the Director within 24 hours (see Part III Section E Paragraph 11(e) of this Permit) and the well shall be shut-in within 48 hours unless the Director requires immediate shut-in.

Within five days, the Permittee shall submit a follow-up written report that documents test results, repairs undertaken or a proposed remedial action plan.

Injection operations shall not be resumed until after the well has successfully been repaired and demonstrated mechanical integrity, and the Director has provided approval to resume injection.

## **Section C. WELL OPERATION**

**INJECTION BETWEEN THE OUTERMOST CASING PROTECTING UNDERGROUND SOURCES OF DRINKING WATER AND THE WELL BORE IS PROHIBITED.**

Injection is approved under the following conditions:

### **1. Requirements Prior to Commencing Injection.**

Well injection, including for new wells authorized by an Area Permit under 40 CFR 144.33 (c), may commence only after all well construction and pre-injection requirements herein have been met and approved. The Permittee may not commence injection until construction is complete, and

- (a) The Permittee has submitted to the Director a notice of completion of construction and a completed EPA Form 7520-10 or 7520-12; all applicable logging and testing requirements of this Permit (see APPENDIX B) have been fulfilled and the records submitted to the Director; mechanical integrity pursuant to 40 CFR 146.8 and Part II Section B of this Permit has been demonstrated; and
  - (i) The Director has inspected or otherwise reviewed the new injection well and finds it is in compliance with the conditions of the Permit; or
  - (ii) The Permittee has not received notice from the Director of his or her intent to inspect or otherwise review the new injection well within 13 days of the date of the notice in Paragraph 1a, in which case prior inspection or review is waived and the Permittee may commence injection.

### **2. Injection Interval.**

Injection is permitted only within the approved injection interval, listed in APPENDIX C. Additional individual injection perforations may be added provided that they remain within the approved injection interval and the Permittee provides notice to the Director in accordance with Part II, Section A, Paragraph 6.

### **3. Injection Pressure Limitation**

- (a) The permitted Maximum Allowable Injection Pressure (MAIP), measured at the wellhead, is found in APPENDIX C. Injection pressure shall not exceed the amount the Director determines is appropriate to ensure that injection does not initiate new fractures or propagate existing fractures in the confining zone adjacent to USDWs. In no case shall injection pressure cause the movement of injection or formation fluids into a USDW.
- (b) The Permittee may request a change of the MAIP, or the MAIP may be increased or decreased by the Director in order to ensure that the requirements in Paragraph (a) above are fulfilled. The Permittee may be required to conduct a step rate injection test or other suitable test to provide information for determining the fracture pressure of the injection zone. Change of the permitted MAIP by the Director shall be by modification of this Permit and APPENDIX C.

#### **4. Injection Volume Limitation.**

Injection volume is limited to the total volume specified in APPENDIX C.

#### **5. Injection Fluid Limitation.**

Injected fluids are limited to those identified in 40 CFR 144.6(b)(2) as fluids used for enhanced recovery of oil or natural gas, including those which are brought to the surface in connection with conventional oil or natural gas production that may be commingled with waste waters from gas plants which are an integral part of production operations unless those waters are classified as a hazardous waste at the time of injection, pursuant to 40 CFR 144.6(b). Non-exempt wastes, including unused fracturing fluids or acids, gas plant cooling tower cleaning wastes, service wastes and vacuum truck wastes, are NOT approved for injection. This well is NOT approved for commercial brine injection, industrial waste fluid disposal or injection of hazardous waste as defined by CFR 40 Part 261. The Permittee shall provide a listing of the sources of injected fluids in accordance with the reporting requirements in Part II Section D Paragraph 4 and APPENDIX D of this Permit.

#### **6. Tubing-Casing Annulus (TCA)**

The tubing-casing annulus (TCA) shall be filled with water treated with a corrosion inhibitor, or other fluid approved by the Director. The TCA valve shall remain closed during normal operating conditions and the TCA pressure shall be maintained at zero (0) psi.

If TCA pressure cannot be maintained at zero (0) psi, the Permittee shall follow the procedures in Ground Water Section Guidance No. 35 "Procedures to follow when excessive annular pressure is observed on a well."

### **Section D. MONITORING, RECORDKEEPING, AND REPORTING OF RESULTS**

#### **1. Monitoring Parameters, Frequency, Records and Reports.**

Monitoring parameters are specified in APPENDIX D. Pressure monitoring recordings shall be taken at the wellhead. The listed parameters are to be monitored, recorded and reported at the frequency indicated in APPENDIX D even during periods when the well is not operating.

Monitoring records must include:

- (a) the date, time, exact place and the results of the observation, sampling, measurement, or analysis, and;
- (b) the name of the individual(s) who performed the observation, sampling, measurement, or analysis, and;
- (c) the analytical techniques or methods used for analysis.

#### **2. Monitoring Methods.**

- (a) Monitoring observations, measurements, samples, etc. taken for the purpose of complying with these requirements shall be representative of the activity or condition being monitored.

- (b) Methods used to monitor the nature of the injected fluids must comply with analytical methods cited and described in Table 1 of 40 CFR 136.3 or Appendix III of 40 CFR 261, or by other methods that have been approved in writing by the Director.
- (c) Injection pressure, annulus pressure, injection rate, and cumulative injected volumes shall be observed and recorded at the wellhead under normal operating conditions, and all parameters shall be observed simultaneously to provide a clear depiction of well operation.
- (d) Pressures are to be measured in pounds per square inch (psi).
- (e) Fluid volumes are to be measured in standard oil field barrels (bbl).
- (f) Fluid rates are to be measured in barrels per day (bbl/day).

### **3. Records Retention.**

- (a) Records of calibration and maintenance, and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained for a period of AT LEAST THREE (3) YEARS from the date of the sample, measurement, report, or application. This period may be extended anytime prior to its expiration by request of the Director.
- (b) Records of the nature and composition of all injected fluids must be retained until three (3) years after the completion of any plugging and abandonment (P&A) procedures specified under 40 CFR 144.52(a)(6) or under Part 146 Subpart G, as appropriate. The Director may require the Permittee to deliver the records to the Director at the conclusion of the retention period. The Permittee shall continue to retain the records after the three (3) year retention period unless the Permittee delivers the records to the Director or obtains written approval from the Director to discard the records.

### **4. Annual Reports.**

Whether the well is operating or not, the Permittee shall submit an Annual Report to the Director that summarizes the results of the monitoring required by Part II Section D and APPENDIX D.

The first Annual Report shall cover the period from the effective date of the Permit through December 31 of that year. Subsequent Annual Reports shall cover the period from January 1 through December 31 of the reporting year. Annual Reports shall be submitted by February 15 of the year following data collection. EPA Form 7520-11 may be copied and shall be used to submit the Annual Report, however, the monitoring requirements specified in this Permit are mandatory even if EPA Form 7520-11 indicates otherwise.

## **Section E. PLUGGING AND ABANDONMENT**

**1. Notification of Well Abandonment, Conversion or Closure.**

The Permittee shall notify the Director in writing at least forty-five (45) days prior to: 1) plugging and abandoning an injection well, 2) converting to a non-injection well, and 3) in the case of an Area Permit, before closure of the project.

**2. Well Plugging Requirements**

Prior to abandonment, the injection well shall be plugged with cement in a manner which isolates the injection zone and prevents the movement of fluids into or between underground sources of drinking water, and in accordance with 40 CFR 146.10 and other applicable Federal, State or local law or regulations. Tubing, packer and other downhole apparatus shall be removed. Cement with additives such as accelerators and retarders that control or enhance cement properties may be used for plugs; however, volume-extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. A minimum 50 ft surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. Prior to placement of the cement plug(s) the well shall be in a state of static equilibrium with the mud weight equalized top to bottom, either by circulating the mud in the well at least once or by a comparable method prescribed by the Director.

**3. Approved Plugging and Abandonment Plan.**

The approved plugging and abandonment plan is incorporated into this Permit as APPENDIX E. Changes to the approved plugging and abandonment plan must be approved by the Director prior to beginning plugging operations. The Director also may require revision of the approved plugging and abandonment plan at any time prior to plugging the well.

**4. Forty Five (45) Day Notice of Plugging and Abandonment.**

The Permittee shall notify the Director at least forty-five (45) days prior to plugging and abandoning a well and provide notice of any anticipated change to the approved plugging and abandonment plan.

**5. Plugging and Abandonment Report.**

Within sixty (60) days after plugging a well, the Permittee shall submit a report (EPA Form 7520-13) to the Director. The plugging report shall be certified as accurate by the person who performed the plugging operation. Such report shall consist of either:

- (a) A statement that the well was plugged in accordance with the approved plugging and abandonment plan; or
- (b) Where actual plugging differed from the approved plugging and abandonment plan, an updated version of the plan, on the form supplied by the Director, specifying the differences.

**6. Inactive Wells.**

After any period of two years during which there is no injection the Permittee shall plug and abandon the well in accordance with Part II Section E Paragraph 2 of this Permit unless the Permittee:

- (a) Provides written notice to the Director;
- (b) Describes the actions or procedures the Permittee will take to ensure that the well will not endanger USDWs during the period of inactivity. These actions and procedures shall include compliance with mechanical integrity demonstration, Financial Responsibility and all other permit requirements designed to protect USDWs; and
- (c) Receives written notice by the Director temporarily waiving plugging and abandonment requirements.

## PART III. CONDITIONS APPLICABLE TO ALL PERMITS

### Section A. EFFECT OF PERMIT

The Permittee is allowed to engage in underground injection in accordance with the conditions of this Permit. The Permittee shall not construct, operate, maintain, convert, plug, abandon, or conduct any other activity in a manner that allows the movement of fluid containing any contaminant into underground sources of drinking water, if the presence of that contaminant may cause a violation of any primary drinking water regulation under 40 CFR 142 or may otherwise adversely affect the health of persons. Any underground injection activity not authorized by this Permit or by rule is prohibited. Issuance of this Permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of any other Federal, State or local law or regulations. Compliance with the terms of this Permit does not constitute a defense to any enforcement action brought under the provisions of Section 1431 of the Safe Drinking Water Act (SDWA) or any other law governing protection of public health or the environment, for any imminent and substantial endangerment to human health or the environment, nor does it serve as a shield to the Permittee's independent obligation to comply with all UIC regulations. Nothing in this Permit relieves the Permittee of any duties under applicable regulations.

### Section B. CHANGES TO PERMIT CONDITIONS

#### ***1. Modification, Reissuance, or Termination.***

The Director may, for cause or upon a request from the Permittee, modify, revoke and reissue, or terminate this Permit in accordance with 40 CFR 124.5, 144.12, 144.39, and 144.40. Also, this Permit is subject to minor modification for causes as specified in 40 CFR 144.41. The filing of a request for modification, revocation and reissuance, termination, or the notification of planned changes or anticipated noncompliance on the part of the Permittee does not stay the applicability or enforceability of any condition of this Permit.

#### ***2. Conversions.***

The Director may, for cause or upon a written request from the Permittee, allow conversion of the well from a Class II injection well to a non-Class II well. Conversion may not proceed until the Permittee receives written approval from the Director. Conditions of such conversion may include but are not limited to, approval of the proposed well rework, follow up demonstration of mechanical integrity, well-specific monitoring and reporting following the conversion, and demonstration of practical use of the converted configuration.

#### ***3. Transfer of Permit.***

Under 40 CFR 144.38, this Permit is transferable provided the current Permittee notifies the Director at least thirty (30) days in advance of the proposed transfer date (EPA Form 7520-7) and provides a written agreement between the existing and new Permittees containing a specific date for transfer of Permit responsibility, coverage and liability between them. The notice shall adequately demonstrate that the financial responsibility requirements of 40 CFR 144.52(a)(7) will be met by the new Permittee. The Director may require modification or revocation and reissuance of the Permit to change the name of the Permittee and incorporate such other requirements as may be necessary under the Safe Drinking Water Act; in some cases, modification or revocation and reissuance is mandatory.

#### **4. Permittee Change of Address.**

Upon the Permittee's change of address, or whenever the operator changes the address where monitoring records are kept, the Permittee must provide written notice to the Director within 30 days.

#### **5. Construction Changes, Workovers, Logging and Testing Data**

The Permittee shall give advance notice to the Director, and shall obtain the Director's written approval prior to any physical alterations or additions to the permitted facility. Alterations or workovers shall meet all conditions as set forth in this permit. The Permittee shall record any changes to the well construction on a Well Rework Record (EPA Form 7520-12), and shall provide this and any other record of well workovers, logging, or test data to EPA within sixty (60) days of completion of the activity.

Following the completion of any well workovers or alterations which affect the casing, tubing, or packer, a successful demonstration of mechanical integrity (Part III, Section F of this Permit) shall be made, and written authorization from the Director received, prior to resuming injection activities.

### **Section C. SEVERABILITY**

The Provisions of this Permit are severable, and if any provision of this Permit or the application of any provision of this Permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this Permit shall not be affected thereby.

### **Section D. CONFIDENTIALITY**

In accordance with 40 CFR Part 2 and 40 CFR 144.5, information submitted to EPA pursuant to this Permit may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, EPA may make the information available to the public without further notice. If a claim is asserted, the validity of the claim will be assessed in accordance with the procedures in 40 CFR Part 2 (Public Information). Claims of confidentiality for the following information will be denied:

- The name and address of the Permittee, and
- information which deals with the existence, absence or level of contaminants in drinking water.

### **Section E. GENERAL PERMIT REQUIREMENTS**

#### **1. Duty to Comply.**

The Permittee must comply with all conditions of this Permit. Any noncompliance constitutes a violation of the Safe Drinking Water Act (SDWA) and is grounds for enforcement action; for Permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application; except that the Permittee need not comply with the provisions of this Permit to the extent and for the duration such noncompliance is authorized in an emergency permit under 40 CFR 144.34. All violations of the SDWA may subject the Permittee to penalties and/or criminal prosecution as specified in Section 1423 of the SDWA.

## **2. Duty to Reapply.**

If the Permittee wishes to continue an activity regulated by this Permit after the expiration date of this Permit, under 40 CFR 144.37 the Permittee must apply for a new permit prior to the expiration date.

## **3. Need to Halt or Reduce Activity Not a Defense.**

It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Permit.

## **4. Duty to Mitigate.**

The Permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this Permit.

## **5. Proper Operation and Maintenance.**

The Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with the conditions of this Permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this Permit.

## **6. Permit Actions.**

This Permit may be modified, revoked and reissued or terminated for cause. The filing of a request by the Permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

## **7. Property Rights.**

This Permit does not convey any property rights of any sort, or any exclusive privilege.

## **8. Duty to Provide Information.**

The Permittee shall furnish to the Director, within a time specified, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The Permittee shall also furnish to the Director, upon request, copies of records required to be kept by this Permit. The Permittee is required to submit any information required by this Permit or by the Director to the mailing address designated in writing by the Director.

## **9. Inspection and Entry.**

The Permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

- (a) Enter upon the Permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Permit;

- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit;
- (c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit; and,
- (d) Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the SDWA, any substances or parameters at any location.

#### **10. Signatory Requirements.**

All applications, reports or other information submitted to the Director shall be signed and certified according to 40 CFR 144.32. This section explains the requirements for persons duly authorized to sign documents, and provides wording for required certification.

#### **11. Reporting Requirements.**

- (a) **Planned changes.** The Permittee shall give notice to the Director as soon as possible of any planned changes, physical alterations or additions to the permitted facility, and prior to commencing such changes.
- (b) **Anticipated noncompliance.** The Permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- (c) **Monitoring Reports.** Monitoring results shall be reported at the intervals specified in this Permit.
- (d) **Compliance schedules.** Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than 30 days following each schedule date.
- (e) **Twenty-four hour reporting.** The Permittee shall report to the Director any noncompliance which may endanger human health or the environment, including:
  - (i) Any monitoring or other information which indicates that any contaminant may cause endangerment to a USDW; or
  - (ii) Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between USDWs.

Information shall be provided, either directly or by leaving a message, within twenty-four (24) hours from the time the permittee becomes aware of the circumstances by telephoning (800) 227-8917 and requesting EPA Region VIII UIC Program Compliance and Technical Enforcement Director, or by contacting the EPA Region VIII Emergency Operations Center at (303) 293-1788.

In addition, a follow up written report shall be provided to the Director within five (5) days of the time the Permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause, the period of noncompliance including exact dates and times, and if the noncompliance has not been corrected the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

- (f) Oil Spill and Chemical Release Reporting: The Permittee shall comply with all reporting requirements related to the occurrence of oil spills and chemical releases by contacting the National Response Center (NRC) at (800) 424-8802, (202) 267-2675, or through the NRC website <http://www.nrc.uscg.mil/index.htm>.
- (g) Other Noncompliance. The Permittee shall report all instances of noncompliance not reported under paragraphs Part III, Section E Paragraph 11(b) or Section E, Paragraph 11(e) at the time the monitoring reports are submitted. The reports shall contain the information listed in Paragraph 11(e) of this Section.
- (h) Other information. Where the Permittee becomes aware that it failed to submit any relevant facts in the permit application, or submitted incorrect information in a permit application or in any report to the Director, the Permittee shall promptly submit such facts or information to the Director.

## **Section F. FINANCIAL RESPONSIBILITY**

### ***1. Method of Providing Financial Responsibility.***

The Permittee shall maintain continuous compliance with the requirement to maintain financial responsibility and resources to close, plug, and abandon the underground injection well(s). No substitution of a demonstration of financial responsibility shall become effective until the Permittee receives written notification from the Director that the alternative demonstration of financial responsibility is acceptable. The Director may, on a periodic basis, require the holder of a permit to revise the estimate of the resources needed to plug and abandon the well to reflect changes in such costs and may require the Permittee to provide a revised demonstration of financial responsibility.

### ***2. Insolvency.***

In the event of:

- (a) the bankruptcy of the trustee or issuing institution of the financial mechanism; or
- (b) suspension or revocation of the authority of the trustee institution to act as trustee; or

- (c) the institution issuing the financial mechanism losing its authority to issue such an instrument

the Permittee must notify the Director in writing, within ten (10) business days, and the Permittee must establish other financial assurance or liability coverage acceptable to the Director within sixty (60) days after any event specified in (a), (b), or (c) above.

The Permittee must also notify the Director by certified mail of the commencement of voluntary or involuntary proceedings under Title 11 (Bankruptcy), U.S. Code naming the owner or operator as debtor, within ten (10) business days after the commencement of the proceeding. A guarantor, if named as debtor of a corporate guarantee, must make such a notification as required under the terms of the guarantee.

## APPENDIX A

### WELL CONSTRUCTION REQUIREMENTS

The Federal 5-14-9-17 was drilled to a total depth of 5,765 feet in the Basal Carbonate Member of the Green River Formation.

Surface casing (8-5/8 inch) was set at a depth of 322 feet (KB) in a 12-1/4 inch hole using 160 sacks of Class "G" cement which was circulated to the surface.

Production casing (5-1/2 inch) was set at a depth of 5,748 feet (KB) in a 7-7/8 inch hole with 752 sacks of cement. Well construction is considered adequate to protect all USDWs. Top of cement by CBL at 200 feet.

Current injection perforations are in the Garden Gulch and Douglas Creek Members of the Green River Formation. Additional perforations may be added at a later time between the depths of 3,781 feet and the top of the Wasatch Formation (Estimated to be 5,797 feet) provided that the operator first notifies the Director and later submits an updated Well Rework Record (EPA Form 7520-12) and schematic diagram.

The packer will be set no higher than 100 feet above the top perforation.

# Federal 5-14-9-17

Spud Date: 10/27/2006  
 Put on Production: 12/15/06  
 GL: 5225' KB: 5237'

Initial Production: BOPD,  
 MCFD, BWPD

## Proposed Injection Wellbore Diagram

### SURFACE CASING

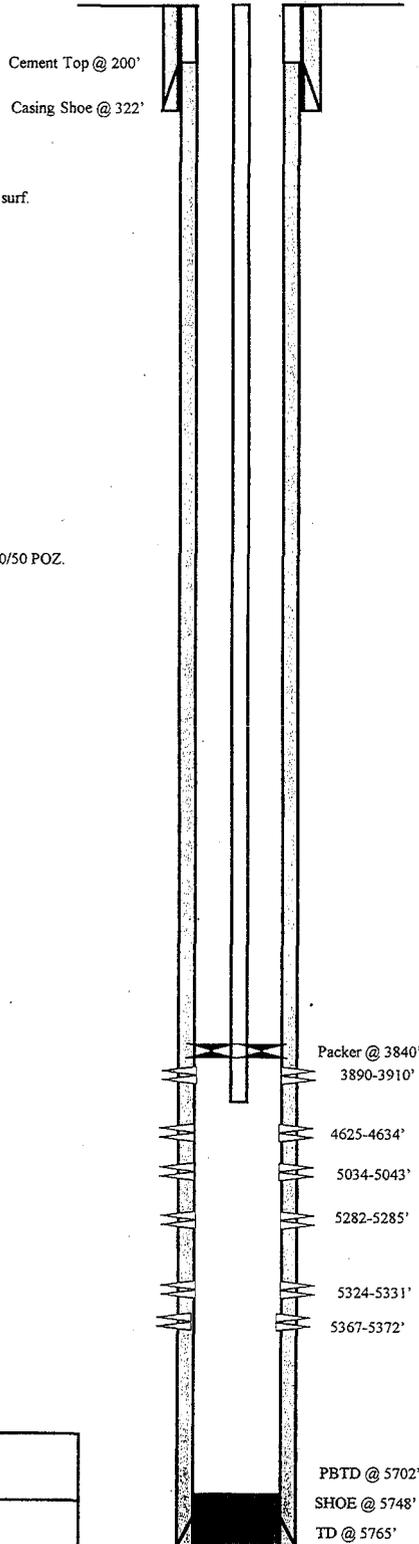
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (310.27')  
 DEPTH LANDED: 322.12' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 131 jts. (5734.62')  
 DEPTH LANDED: 5747.87' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 302 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
 CEMENT TOP: 200'

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55  
 NO. OF JOINTS: 168 jts (5298.49')  
 TUBING ANCHOR: 5310.49'  
 NO. OF JOINTS: 2 jts (63.05')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5376.34'  
 NO. OF JOINTS: 2 jts (63.12')  
 TOTAL STRING LENGTH: EOT @ 5441.01'



### FRAC JOB

12/11/06	5372-5282'	<b>Frac CP2, CP1, &amp; CP5 sands as follows:</b> 64804# 20/40 sand in 537 bbls Lightning 17 frac fluid. Treated @ avg press of 1460 psi w/avg rate of 25 BPM. ISIP 1612 psi. Calc flush: 5370 gal. Actual flush: 4746 gal.
12/11/06	5034-5043'	<b>Frac LODC sands as follows:</b> 35282# 20/40 sand in 377 bbls Lightning 17 frac fluid. Treated @ avg press of 3144 psi w/avg rate of 25 BPM. ISIP 3970 psi. Calc flush: 5032 gal. Actual flush: 4494 gal.
12/12/06	4625-4634'	<b>Frac C sands as follows:</b> 60637# 20/40 sand in 487 bbls Lightning 17 frac fluid. Treated @ avg press of 816 psi w/avg rate of 25 BPM. ISIP 2050 psi. Calc flush: 4623 gal. Actual flush: 4116 gal.
12/12/06	3890-3910'	<b>Frac GB4 sands as follows:</b> 92273# 20/40 sand in 639 bbls Lightning 17 frac fluid. Treated @ avg press of 1835 psi w/avg rate of 25 BPM. ISIP 2230 psi. Calc flush: 3888 gal. Actual flush: 3780 gal.
6-20-07		<b>Pump Change:</b> Updated rod detail.
10/18/07		<b>Pump Change:</b> Updated rod & tubing details.
10/8/09		<b>Pump Change:</b> Updated rod & tubing details.

### PERFORATION RECORD

12/11/06	5367-5372'	4 JSPF	20 holes
12/11/06	5324-5331'	4 JSPF	28 holes
12/11/06	5282-5285'	4 JSPF	12 holes
12/11/06	5034-5043'	4 JSPF	36 holes
12/12/06	4625-4634'	4 JSPF	36 holes
12/12/06	3890-3910'	4 JSPF	80 holes

**NEWFIELD**

**Federal 5-14-9-17**

2031' FNL & 466' FWL

SW/NW Section 14-T9S-R17E

Duchesne Co, Utah

API #43-013-32703; Lease #UTU-075174

## APPENDIX B

### LOGGING AND TESTING REQUIREMENTS

#### Logs.

Logs will be conducted according to current UIC guidance. It is the responsibility of the Permittee to obtain and use guidance prior to conducting any well logging required as a condition of this permit.

#### NO LOGGING REQUIREMENTS

#### Tests.

Tests will be conducted according to current UIC guidance. It is the responsibility of the Permittee to obtain and use guidance prior to conducting any well test required as a condition of this permit.

WELL NAME: Federal 5-14-9-17	
<b>TYPE OF TEST</b>	<b>DATE DUE</b>
Standard Annulus Pressure	Prior to receiving authorization to inject, and at least once within any five year period following the last successful test,
Pore Pressure	Prior to receiving authorization to inject.

# APPENDIX C

## OPERATING REQUIREMENTS

### MAXIMUM ALLOWABLE INJECTION PRESSURE:

Maximum Allowable Injection Pressure (MAIP) as measured at the surface shall not exceed the pressure(s) listed below.

WELL NAME	MAXIMUM ALLOWED INJECTION PRESSURE (psi)
	ZONE 1 (Upper)
Federal 5-14-9-17	1,090

### INJECTION INTERVAL(S):

Injection is permitted only within the approved injection interval listed below. Injection perforations may be altered provided they remain within the approved injection interval and the Permittee provides notice to the Director in accordance with Part II, Section A, Paragraph 6. Specific injection perforations can be found in Appendix A.

WELL NAME: Federal 5-14-8-17	APPROVED INJECTION INTERVAL (KB, ft)		FRACTURE GRADIENT (psi/ft)
	TOP	BOTTOM	
	FORMATION NAME		
Green River	3,781.00	5,797.00	0.720

### ANNULUS PRESSURE:

The annulus pressure shall be maintained at zero (0) psi as measured at the wellhead. If this pressure cannot be maintained, the Permittee shall follow the procedures listed under Part II, Section C. 6. of this permit.

### MAXIMUM INJECTION VOLUME:

There is no limitation on the number of barrels per day (bbls/day) of water that shall be injected into this well, provided further that in no case shall injection pressure exceed that limit shown in Appendix C.

## APPENDIX D

### MONITORING AND REPORTING PARAMETERS

This is a listing of the parameters required to be observed, recorded, and reported. Refer to the permit Part II, Section D, for detailed requirements for observing, recording, and reporting these parameters.

OBSERVE MONTHLY AND RECORD AT LEAST ONCE EVERY THIRTY DAYS	
<b>OBSERVE AND RECORD</b>	Injection pressure (psig)
	Annulus pressure(s) (psig)
	Injection rate (bbl/day)
	Fluid volume injected since the well began injecting (bbis)
ANNUALLY	
<b>ANALYZE</b>	Injected fluid total dissolved solids (mg/l)
	Injected fluid specific gravity
	Injected fluid specific conductivity
	Injected fluid pH
ANNUALLY	
<b>REPORT</b>	Each month's maximum and averaged injection pressures (psig)
	Each month's maximum and minimum annulus pressure(s) (psig)
	Each month's injected volume (bbl)
	Fluid volume injected since the well began injecting (bbl)
	Written results of annual injected fluid analysis
	Sources of all fluids injected during the year

In addition to these items, additional Logging and Testing results may be required periodically. For a list of those items and their due dates, please refer to APPENDIX B - LOGGING AND TESTING REQUIREMENTS.

## APPENDIX E

### PLUGGING AND ABANDONMENT REQUIREMENTS

**Plugging and Abandonment:** The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluids into or between Underground Sources of Drinking Water (USDW). Tubing, packers, and any downhole apparatus shall be removed. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs; however, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. A minimum 50 ft. surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. Within sixty (60) days after plugging the owner or operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. At a minimum, the following plugs are required:

- (1)  Isolate the injection zone: Remove down hole apparatus and perform clean out; displace well fluid with plugging gel. Set a cast iron bridge plug (CIBP) within the innermost casing no more than 50 ft. above the top perforation with a minimum of 20 ft. cement plug on top of the CIBP.
- (2)  Isolate the Trona-Bird's Nest and Mahogany Oil Shale: Perforate and squeeze cement up the backside of the outermost casing from at least 55 ft. above the top of the Trona-Bird's Nest to at least 55 ft. below the base of Mahogany Oil Shale, unless there is existing cement across this interval.
- (3)  Isolate the Uinta Formation from the Green River Formation: Perforate and squeeze a minimum of 110 ft. cement up the backside of the outermost casing to isolate the contact between the Uinta Formation and the Green River Formation, unless there is existing cement across this interval. Set a minimum 110 ft. cement plug in the innermost casing centered on the contact between the Green River and Uinta Formations.
- (4)  Isolate Surface Fluid Migration Paths:
  - a.  If the depth of the lowermost USDW is above the base of surface casing, perforate the outermost casing string 50 ft. below the base of surface casing and circulate cement to the surface, unless there is existing cement across this interval; OR
  - b.  If the depth of the lowermost USDW is below the base of surface casing, perforate the outermost casing string 50 ft. below the base of the lowermost USDW and circulate cement to surface; AND
  - c.  Set a cement plug inside the innermost casing string from 50 ft. below the base of the surface casing to surface..

## APPENDIX F

### CORRECTIVE ACTION REQUIREMENTS

No corrective action is deemed necessary for this project.

# STATEMENT OF BASIS

**NEWFIELD PRODUCTION CO.**

**FEDERAL 5-14-9-17  
DUCHESNE COUNTY, UT**

**EPA PERMIT NO. UT22217-09421**

**CONTACT:** Emmett Schmitz  
U. S. Environmental Protection Agency Region 8  
Mailcode: 8P-W-UIC  
1595 Wynkoop Street  
Denver, Colorado 80202-1129  
Telephone: 1-800-227-8917 ext. 312-6174

This STATEMENT OF BASIS gives the derivation of site-specific UIC Permit conditions and reasons for them. Referenced sections and conditions correspond to sections and conditions in the Permit.

EPA UIC permits regulate the injection of fluids into underground injection wells so that the injection does not endanger underground sources of drinking water. EPA UIC permit conditions are based upon the authorities set forth in regulatory provisions at 40 CFR Parts 144 and 146, and address potential impacts to underground sources of drinking water. Under 40 CFR 144.35 Issuance of this permit does not convey any property rights of any sort or any exclusive privilege, nor authorize injury to persons or property of invasion of other private rights, or any infringement of other Federal, State or local laws or regulations. Under 40 CFR 144 Subpart D, certain conditions apply to all UIC Permits and may be incorporated either expressly or by reference. General Permit conditions for which the content is mandatory and not subject to site-specific differences (40 CFR Parts 144, 146 and 147) are not discussed in this document.

Upon the Effective Date when issued, the Permit authorizes the construction and operation of injection wells so that the injection does not endanger underground sources of drinking water, governed by the conditions specified in the Permit. The Permit is issued for the operating life of the injection well or project unless terminated for reasonable cause under 40 CFR 144.39, 144.40 and 144.41. The Permit is subject to EPA review at least once every five (5) years to determine if action is required under 40 CFR 144.36(a).

## PART I. General Information and Description of Facility

Newfield Production Co.  
1001 Seventeenth Street, Suite 2000  
Denver, CO 80202

on

November 14, 2011

submitted an application for an Underground Injection Control (UIC) Program Permit or Permit Modification for the following injection well or wells:

Federal 5-14-9-17  
2,031' FNL & 466' FWL, SWNW S14, T9S, R17E  
Duchesne County, UT

Regulations specific to Uintah-Ouray Indian Reservation injection wells are found at 40 CFR 147 Subpart TT.

The application, including the required information and data necessary to issue or modify a UIC Permit in accordance with 40 CFR Parts 144, 146 and 147, was reviewed and determined by EPA to be complete.

The Permit will expire upon delegation of primary enforcement responsibility (primacy) for applicable portions of the UIC Program to the Ute Indian Tribe or the State of Utah unless the delegated agency has the authority and chooses to adopt and enforce this Permit as a Tribal or State Permit.

TABLE 1.1 shows the status of the well or wells as "New", "Existing", or "Conversion" and for Existing shows the original date of injection operation. Well authorization "by rule" under 40 CFR Part 144 Subpart C expires automatically on the Effective Date of an issued UIC Permit.

The Federal 5-14-9-17 is currently a Green River Formation oil well with production perforations in the Garden Gulch and Douglas Creek Members. The applicant intends to convert this well to a Class II enhanced recovery injection well.

**TABLE 1.1**  
**WELL STATUS / DATE OF OPERATION**

NEW WELLS		
Well Name	Well Status	Date of Operation
Federal 5-14-9-17	New	N/A

## PART II. Permit Considerations (40 CFR 146.24)

### Hydrogeologic Setting

Water wells for domestic supply in this area, when present, generally are completed into the shallow alluvium, the Duchesne River Formation, or the underlying Uinta Formation, and the water generally contains approximately 500 to 1,500 mg/l and higher total dissolved solids.

The Uinta-Animas aquifer in the Uinta Basin is present in water-yielding beds of sandstone, conglomerate, and siltstone of the Duchesne River and Uinta Formations, the Renegade Tongue of the Wasatch Formation, and the Douglas Creek Member of the Green River Formation. The Renegade Tongue of the Wasatch Formation and the Douglas Creek Member of the Green River Formation contain an aquifer along the southern and eastern margins of the basin where the rocks primarily consist of fluvial, massive, irregularly bedded sandstone and siltstone. Water-yielding units in the Uinta-Animas aquifer in the Uinta Basin commonly are separated from each other and from the underlying Mesaverde aquifer by units of low permeability composed of claystone, shale, marlstone, or limestone. In the Uinta Basin, for example, the part of the aquifer in the Duchesne River and Uinta Formations ranges in thickness from 0 feet at the southern margin of the aquifer to as much as 9,000 feet in the north-central part of the aquifer. Ground-water recharge to the Uinta-Animas aquifer generally occurs in the areas of higher altitude along the margins of the basin. Ground water is discharged mainly to streams, springs, and by transpiration from vegetation growing along stream valleys. The rate of ground-water withdrawal is small, and natural discharge is approximately equal to recharge. Recharge occurs near the southern margin of the aquifer, and discharge occurs near the White and Green Rivers (from USGS publication HA 730-C). Water samples from Mesaverde sands in the nearby Natural Buttes Unit yielded highly saline water.

### Geologic Setting (TABLE 2.1)

The proposed Class II enhanced oil recovery injection well is located in the Greater Monument Butte Field, T7-9S and R15-19E, which lies near the center of the broad, gently northward dipping south flank of the Uinta Basin. More than 450 million barrels of oil (63 MT) have been produced from sediments of the Uinta Basin. The Uinta Basin is a topographic and structural trough encompassing an area of more than 9,300 square miles (14,900 km) in northeast Utah. The basin is sharply asymmetrical, with a steep north flank bounded by the east-west-trending Uinta Mountains, and a gently dipping south flank. The Uinta Basin was formed in Paleocene to Eocene time, creating a large area of internal drainage which was filled by the ancestral Lake Uinta. The lacustrine, or fresh water lake-formed, sediments deposited in and around Lake Uinta make up the Uintah and Green River Formations. The southern shore of Lake Uinta was very broad and flat, resulting in large cyclic shifts of the location of the shoreline during the many repeated transgressive and regressive cycles caused by the climatic and tectonic-induced rise and fall of

water levels of the lake. Distributary-mouth bars, distributary channels, and near-shore bars are the primary oil producing sandstone reservoirs in the area. (Ref: "Reservoir Characterization of the Lower Green River Formation, Southwest Uinta Basin, Utah Biannual Technical Progress Report, 4/1/99-9/30/99", by C. D. Morgan, Program Manager, November 1999, Contract DE-AC26-98BC15103).

The Duchesne River Formation is absent in this area. Shale and siltstone of the Uintah Formation outcrop and compose the surface rock throughout the area. The lower 600 feet to 800 feet of the Uinta Formation, consisting generally of shale interbedded with occasionally water-bearing sandstone lenses between 5 feet to 20 feet thick, is underlain by the Green River Formation. The Green River Formation is further subdivided into several Member and local marker units. The cyclic nature of Green River deposition in the southern shore area resulted in numerous stacked, intertonguing deltaic and near-shore sand and silt deposits. Red alluvial shale and siltstone deposits that intertongue with the Green River sediments are of the Colton and Wasatch Formations. Under the Wasatch Formation is the Mesaverde Formation, which consists primarily of continental-origin deposits of interbedded shale, sandstone, and coal.

The geologic dip is about 200 feet per mile, and there are no known surface faults in this area. Veins of gilsonite, a natural resinous hydrocarbon occasionally mined as a resource, occurs in the greater Uintah Basin though it is predominantly found on the eastern margin of the basin near the Colorado border. Vertical veins, generally between 2 feet to 6 feet wide but up to 28 feet wide, may extend many miles in length and occasionally extend as deep as 2,000 feet.

**TABLE 2.1**  
**GEOLOGIC SETTING**  
**Federal 5-14-9-17**

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	Lithology
Uinta: Public. 92	0	475	< 10,000	Sand and shale.
Uinta	475	1,245	< 10,000	Sand, shale, carbonate
Green River	1,245	2,633		Sand, shale, carbonate.
Green River: Trona.	2,633	2,707		Evaporite
Green River: Mahogany Bench.	2,707	2,722		Shale.
Green River: Confining Zone.	3,284	3,781		Sand, shale, carbonate.
Green River: Garden Gulch Marker.	3,484	3,670		Sand, shale, carbonate.
Green River: Garden Gulch No. 1	3,670	3,781		Sand, shale, carbonate
Green River: Garden Gulch No. 2	3,781	4,445	15,985	Sand, shale, carbonate.
Green River: Douglas Creek Member.	4,445	5,672	15,985	Sand, shale, carbonate.
Green River: Basal Carbonate Member.	5,672	5,797		Carbonate.

**Proposed Injection Zone(s) (TABLE 2.2)**

An injection zone is a geological formation, group of formations, or part of a formation that receives fluids through a well. The proposed injection zones are listed in TABLE 2.2.

Injection will occur into an injection zone that is separated from USDWs by a confining zone which is free of known open faults or fractures within the Area of Review.

The approved interval for Class II enhanced recovery injection is located between the top of the Garden Gulch Member No.2 at 3,781 feet and the top of the Wasatch Formation which has been estimated to be 5,797 feet.

**TABLE 2.2**  
**INJECTION ZONES**  
Federal 5-14-9-17

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	Fracture Gradient (psi/ft)	Porosity	Exempted?*
Green River	3,781	5,797	15,985	0.720		N/A

\* C - Currently Exempted  
E - Previously Exempted  
P - Proposed Exemption  
N/A - Not Applicable

**Confining Zone(s) (TABLE 2.3)**

A confining zone is a geological formation, part of a formation, or a group of formations that limits fluid movement above the injection zone. The confining zone or zones are listed in TABLE 2.3.

The Garden Gulch Member Confining Zone is located between the depths of 3,284 feet and 3,781 feet.

**TABLE 2.3**  
**CONFINING ZONES**  
Federal 5-14-9-17

Formation Name	Formation Lithology	Top (ft)	Base (ft)
Green River.	Sand, shale, carbonate.	3,284	3,781

**Underground Sources of Drinking Water (USDWs) (TABLE 2.4)**

Aquifers or the portions thereof which contain less than 10,000 mg/l total dissolved solids (TDS) and are being or could in the future be used as a source of drinking water are considered to be USDWs. The USDWs in the area of this facility are identified in TABLE 2.4.

The State of Utah "Water Wells and Springs", <http://NRWRT1.STATE.UT.US>, identifies no public water supply wells within the one-quarter (1/4) mile Area-of-Review (AOR) around the Federal 5-14-9-17.

Technical Publication No. 92: State of Utah, Department of Natural Resources, cites the base of Underground Sources of Drinking Water (USDW) in the Uinta Formation, approximately 475 feet from the surface.

Absent definitive analyses of water within the Uinta Formation (Surface to top of Green River Formation at 1,245 feet) is considered a potential USDW with total dissolved solids less than 10,000 mg/l.

**TABLE 2.4**  
**UNDERGROUND SOURCES OF DRINKING WATER (USDW)**  
**Federal 5-14-9-17**

Formation Name	Formation Lithology	Top (ft)	Base (ft)	TDS (mg/l)
Uinta: Public. 92	Sand, shale.	0	475	< 10,000
Uinta.	Sand, shale, carbonate.	475	1,245	< 10,000

### PART III. Well Construction (40 CFR 146.22)

The Federal 5-14-9-17 was drilled to a total depth of 5,765 feet in the Basal Carbonate Member of the Green River Formation.

Surface casing (8-5/8 inch) was set at a depth of 322 feet (KB) in a 12-1/4 inch hole using 160 sacks of Class "G" cement which was circulated to the surface.

Production casing (5-1/2 inch) was set at a depth of 5,748 feet (KB) in a 7-7/8 inch hole with 752 sacks of cement. Well construction is considered adequate to protect all USDWs. Top of cement by CBL at 200 feet.

Current injection perforations are in the Garden Gulch and Douglas Creek Members of the Green River Formation. Additional perforations may be added at a later time between the depths of 3,781 feet and the top of the Wasatch Formation (Estimated to be 5,797 feet) provided that the operator first notifies the Director and later submits an updated Well Rework Record (EPA Form 7520-12) and schematic diagram.

The packer will be set no higher than 100 feet above the top perforation.

**TABLE 3.1**  
**WELL CONSTRUCTION REQUIREMENTS**  
**Federal 5-14-9-17**

Casing Type	Hole Size (in)	Casing Size (in)	Cased Interval (ft)	Cemented Interval (ft)
Production	7.88	5.50	0 - 5,748	200 - 5,765
Surface	12.25	8.63	0 - 322	0 - 322

The approved well completion plan will be incorporated into the Permit as APPENDIX A and will be binding on the Permittee. Modification of the approved plan is allowed under 40 CFR 144.52(a)(1) provided written approval is obtained from the Director prior to actual modification.

**Casing and Cementing (TABLE 3.1)**

The well construction plan was evaluated and determined to be in conformance with standard practices and guidelines that ensure well injection does not result in the movement of fluids into USDWs. Well construction details for this "new" injection well is shown in TABLE 3.1.

Remedial cementing may be required if the casing cement is shown to be inadequate by cement bond log or other demonstration of Part II (External) mechanical integrity.

**Tubing and Packer**

Injection tubing is required to be installed from a packer up to the surface inside the well casing. The packer will be set above the uppermost perforation. The tubing and packer are designed to prevent injection fluid from coming into contact with the outermost casing.

**Tubing-Casing Annulus (TCA)**

The TCA allows the casing, tubing and packer to be pressure-tested periodically for mechanical integrity, and will allow for detection of leaks. The TCA will be filled with fresh water treated with a corrosion inhibitor or other fluid approved by the Director.

The tubing/casing annulus must be kept closed at all times so that it can be monitored as required under the Permit.

**Monitoring Devices**

The permittee will be required to install and maintain wellhead equipment that allows for monitoring pressures and providing access for sampling the injected fluid. Required equipment may include but is not limited to: 1) shut-off valves located at the wellhead on the injection tubing and on the TCA; 2) a flow meter that measures the cumulative volume of injected fluid; 3) fittings or pressure gauges attached to the injection tubing and the TCA for monitoring the injection and TCA pressure; and 4) a tap on the injection line, isolated by shut-off valves, for sampling the injected fluid.

All sampling and measurement taken for monitoring must be representative of the monitored activity.

**PART IV. Area of Review, Corrective Action Plan (40 CFR 144.55)**

**TABLE 4.1  
AOR AND CORRECTIVE ACTION**

Well Name	Type	Status (Abandoned Y/N)	Total Depth (ft)	TOC Depth (ft)	CAP Required (Y/N)
Federal 12-14-9-17	Producer	No	5,690	630	No
Sundance Federal 8-15-9-17	Producer	No	5,720	210	No

TABLE 4.1 lists the wells in the Area of Review ("AOR") and shows the well type, operating status, depth, top of casing cement ("TOC") and whether a Corrective Action Plan ("CAP") is required for the well.

**Area Of Review**

Applicants for Class I, II (other than "existing" wells) or III injection well Permits are required to identify the location of all known wells within the injection well's Area of Review (AOR) which penetrate the injection zone, or in the case of Class II wells operating over the fracture pressure of the formation, all known wells within the area of review that penetrate formations which may be affected by increased pressure. Under 40 CFR 146.6 the AOR may be a fixed radius of not less than one quarter (1/4) mile or a calculated zone of endangering influence. For Area Permits, a fixed width of not less than one quarter (1/4) mile for the circumscribing area may be used.

**Corrective Action Plan**

For wells in the AOR which are improperly sealed, completed, or abandoned, the applicant shall develop a Corrective Action Plan (CAP) consisting of the steps or modifications that are necessary to prevent movement of fluid into USDWs.

The CAP will be incorporated into the Permit as APPENDIX F and become binding on the permittee.

**PART V. Well Operation Requirements (40 CFR 146.23)**

Formation Name	Depth Used to Calculate MAIP (ft)	Fracture Gradient (psi/ft)	Initial MAIP (psi)
Green River	3,890	0.720	1,090

**Approved Injection Fluid**

The approved injection fluid is limited to Class II injection well fluids pursuant to 40 CFR § 144.6(b). For disposal wells injecting water brought to the surface in connection with natural gas storage operations, or conventional oil or natural gas production, the fluid may be commingled and the well used to inject other Class II wastes such as drilling fluids and spent well completion, treatment and stimulation fluid. Injection of non-exempt wastes, including unused fracturing fluids or acids, gas plant cooling tower cleaning wastes, service wastes, and vacuum truck and drum rinsate from trucks and drums transporting or containing non-exempt waste, is prohibited.

The proposed injectate will be a blend of water from Green River oil wells and/or the Green River and/or water from the Johnson Water District reservoir.

**Injection Pressure Limitation**

Injection pressure, measured at the wellhead, shall not exceed a maximum calculated to assure that the pressure used during injection does not initiate new fractures or propagate existing

fractures in the confining zones adjacent to the USDWs.

The applicant submitted injection fluid density and injection zone data which was used to calculate a formation fracture pressure and to determine the maximum allowable injection pressure (MAIP), as measured at the surface, for this Permit.

TABLE 5.1 lists the fracture gradient for the injection zone and the approved MAIP, determined according to the following formula:

$$FP = [fg - (0.433 * sg)] * d$$

FP = formation fracture pressure (measured at surface)

fg = fracture gradient (from submitted data or tests)

sg = specific gravity (of injected fluid)

d = depth to top of injection zone (or top perforation)

### Injection Volume Limitation

Cumulative injected fluid volume limits are set to assure that injected fluids remain within the boundary of the exempted area. Cumulative injected fluid volume is limited when injection occurs into an aquifer that has been exempted from protection as a USDW.

There will be no restrictions on the cumulative volume of authorized fluid injected into the Green River Formation from 3,781 feet to the top of the Wasatch Formation which is estimated to be 5,797 feet.

### Mechanical Integrity (40 CFR 146.8)

An injection well has mechanical integrity if:

1. there is no significant leak in the casing, tubing, or packer (Part I); and
2. there is no significant fluid movement into a USDW through vertical channels adjacent to the injection well bore (Part II).

The Permit prohibits injection into a well which lacks mechanical integrity.

The Permit requires that the well demonstrate mechanical integrity prior to injection and periodically thereafter. A demonstration of mechanical integrity includes both internal (Part I) and external (Part II). The methods and frequency for demonstrating Part I and Part II mechanical integrity are dependent upon well-specific conditions as explained below.

Well construction and site-specific conditions dictate the following requirements for Mechanical Integrity (MI) demonstrations:

**PART I MI:** Internal MI will be demonstrated prior to beginning injection. Since this well is constructed with a standard casing, tubing, and packer configuration, a successful mechanical integrity test (MIT) is required to take place at least once every five (5) years. A demonstration of Part I MI is also required prior to resuming injection following any workover operation that affects the casing, tubing or packer. Part I MI may be demonstrated by a standard tubing-casing annulus pressure test using the maximum permitted injection pressure or 1,000 psi, which ever is less, with a ten (10) percent or less pressure loss over thirty (30) minutes.

PART II (MI): The cement bond log shows sufficient interval of 80 percent cement bond index or greater through the Garden Gulch Confining Zone and Part II MIT is not required.

## **PART VI. Monitoring, Recordkeeping and Reporting Requirements**

### **Injection Well Monitoring Program**

At least once a year the permittee must analyze a sample of the injected fluid for total dissolved solids (TDS), specific conductivity, pH, and specific gravity. This analysis shall be reported to EPA annually as part of the Annual Report to the Director. Any time a new source of injected fluid is added, a fluid analysis shall be made of the new source.

Instantaneous injection pressure, injection flow rate, cumulative fluid volume and TCA pressures must be observed on a weekly basis. A recording, at least once every thirty (30) days, must be made of the injection pressure, annulus pressure, monthly injection flow rate and cumulative fluid volume. This information is required to be reported annually as part of the Annual Report to the Director.

## **PART VII. Plugging and Abandonment Requirements (40 CFR 146.10)**

### **Plugging and Abandonment Plan**

Prior to abandonment, the well shall be plugged in a manner that isolates the injection zone and prevents movement of fluid into or between USDWs, and in accordance with any applicable Federal, State or local law or regulation. Tubing, packer and other downhole apparatus shall be removed. Cement with additives such as accelerators and retarders that control or enhance cement properties may be used for plugs; however, volume-extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. A minimum 50 ft surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. Within sixty (60) days after plugging the owner or operator shall submit Plugging Record (EPA Form 7520 13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. The plugging and abandonment plan is described in Appendix E of the Permit.

(1)  Isolate the injection zone: Remove down hole apparatus and perform clean out; displace well fluid with plugging gel. Set a cast iron bridge plug (CIBP) within the innermost casing no more than 50 ft. above the top perforation with a minimum of 20 ft. cement plug on top of the CIBP.

(2)  Isolate the Trona-Bird's Nest and Mahogany Oil Shale: Perforate and squeeze cement up the backside of the outermost casing from at least 55 ft. above the top of the Trona-Bird's Nest to at least 55 ft. below the base of Mahogany Oil Shale, unless there is existing cement across this interval.

(3)  Isolate the Uinta Formation from the Green River Formation: Perforate and squeeze a minimum of 110 ft. cement up the backside of the outermost casing to isolate the contact between the Uinta Formation and the Green River Formation, unless there is existing cement across this interval. Set a minimum 110 ft. cement plug in the innermost casing centered on the contact between the Green River and Uinta Formations.

(4)  Isolate Surface Fluid Migration Paths:

a.  If the depth of the lowermost USDW is above the base of surface casing, perforate the outermost casing string 50 ft. below the base of surface casing and circulate cement to the surface, unless there is existing cement across this interval; OR

b.  If the depth of the lowermost USDW is below the base of surface casing, perforate the outermost casing string 50 ft. below the base of the lowermost USDW and circulate cement to surface; AND

c.  Set a cement plug inside the innermost casing string from 50 ft. below the base of the surface casing to surface.

## **PART VIII. Financial Responsibility (40 CFR 144.52)**

### **Demonstration of Financial Responsibility**

The permittee is required to maintain financial responsibility and resources to close, plug, and abandon the underground injection operation in a manner prescribed by the Director. The permittee shall show evidence of such financial responsibility to the Director by the submission of a surety bond, or other adequate assurance such as financial statements or other materials acceptable to the Director. The Regional Administrator may, on a periodic basis, require the holder of a lifetime permit to submit a revised estimate of the resources needed to plug and abandon the well to reflect inflation of such costs, and a revised demonstration of financial responsibility if necessary. Initially, the operator has chosen to demonstrate financial responsibility with:

A demonstration of Financial Responsibility in the amount of \$42,000 has been reviewed and approved by the EPA on December 21, 2011.

The Director may revise the amount required, and may require the Permittee to obtain and provide updated estimates of plugging and abandonment costs according to the approved Plugging and Abandonment Plan.

Evidence of continuing financial responsibility is required to be submitted to the Director annually.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-075174
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>1. TYPE OF WELL</b> Water Injection Well		<b>8. WELL NAME and NUMBER:</b> FEDERAL 5-14-9-17
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>9. API NUMBER:</b> 43013327030000
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052	<b>PHONE NUMBER:</b> 435 646-4825 Ext	<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2031 FNL 0466 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 14 Township: 09.0S Range: 17.0E Meridian: S		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 12/11/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input checked="" type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Put on Injection"/>

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

The above reference well was put on injection at 4:30 PM on  
12/11/2012. EPA # UT22217-09421

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
December 13, 2012**

<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 12/12/2012	



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8**

1595 Wynkoop Street  
DENVER, CO 80202-1129  
Phone 800-227-8917  
<http://www.epa.gov/region08>

DEC 03 2012

Ref: 8P-W-UIC

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Mr. Reed Durfey  
District Manager  
Newfield Production Company  
Route 3 – Box 3630  
Myton, Utah

Accepted by the  
Utah Division of  
Oil, Gas and Mining

**FOR RECORD ONLY**

RE: Underground Injection Control (UIC)  
Authorization to Commence Injection  
EPA UIC Permit UT22217-09421  
Well: Federal 5-14-9-17  
SWNW Sec. 14-T9S-R17E  
Duchesne County, Utah  
API No.: 43-013-32703

Dear Mr. Durfey:

The U.S. Environmental Protection Agency Region 8 has received Newfield Production Company's (Newfield) November 6, 2012, letter with enclosures. The enclosed Part I (internal) Mechanical Integrity test, Well Rework Record (EPA Form 7520-12), schematic diagram and calculated pore pressure were reviewed and approved by the EPA, satisfactorily completing all Prior to Commencing Injection Requirements for UIC Permit UT22217-09421.

As of the date of this letter, Newfield is authorized to commence injection into the Federal 5-14-9-17 well at a Maximum Allowable Injection Pressure (MAIP) of 1,090 psig. You may apply for a higher MAIP at a later date. Your application should be accompanied by the interpreted results of a step rate test that measures the fracture parting pressure and calculates the fracture gradient at this depth and location. Newfield must receive prior authorization from the Director to inject at pressures greater than the permitted MAIP during any test.

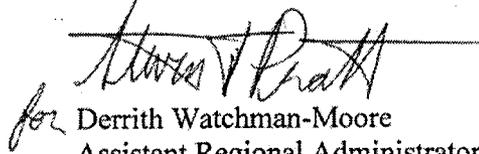
As of this approval, responsibility for permit compliance and enforcement is transferred to the EPA's UIC Technical Enforcement Program. Therefore, please direct all monitoring and compliance correspondence to Sarah Roberts at the following address, referencing the well name and UIC Permit number on all correspondence:

Sarah Roberts  
U.S. EPA Region 8: 8ENF-UFO  
1595 Wynkoop Street  
Denver, Colorado 80202-1129

Or, you may reach Ms. Roberts by telephone at (303) 312-7056 or (800) 227-8927, extension 312-7056. Please remember that it is your responsibility to be aware of and to comply with all conditions of injection well Permit UT22217-09421.

If you have questions regarding the above action, please call Jason Deardorff at (303) 312-6583 or (800) 227-8917, extension 312-6583.

Sincerely,



for Derrith Watchman-Moore  
Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

cc: Uintah & Ouray Business Committee:

Irene Cuch, Chairwoman  
Richard Jenks, Jr., Councilman  
Frances Poowegup, Councilwoman  
Ronald Wopsock, Vice-Chairman  
Phillip Chimburas, Councilman  
Stewart Pike, Councilman

Johnna Blackhair  
BIA - Uintah & Ouray Indian Agency

Mike Natchees  
Environmental Coordinator  
Ute Indian Tribe

Manual Myore  
Director of Energy & Minerals Dept.  
Ute Indian Tribe

Associate Director  
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office  
BLM - Vernal Office

Eric Sundberg, Regulatory Analyst  
Newfield Production Company



Printed on Recycled Paper

Well Name: **Federal 5-14-9-17**

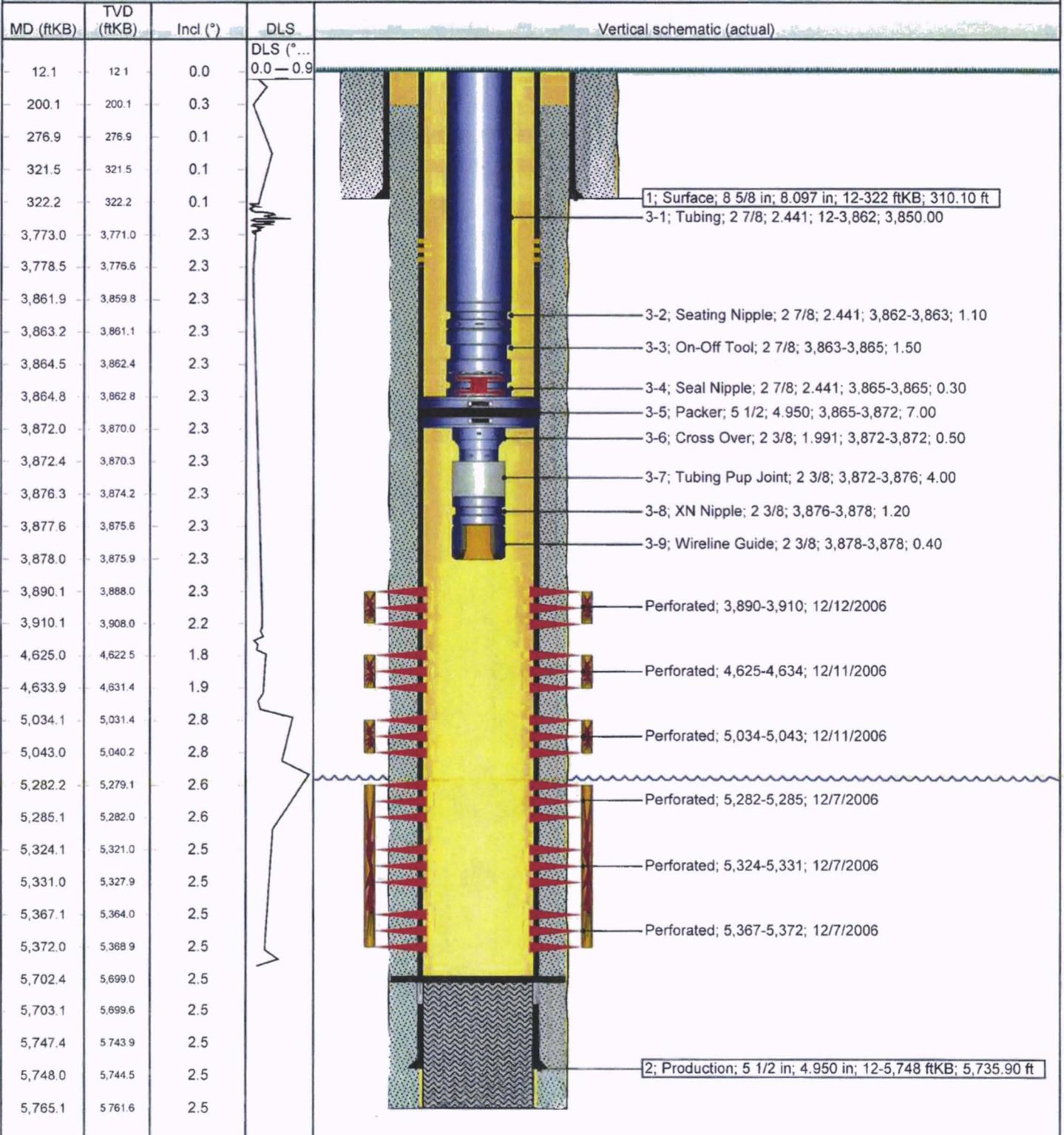
Surface Legal Location <b>14-9S-17E</b>		API/UWI <b>43013327030000</b>	Well RC <b>500160494</b>	Lease	State/Province <b>Utah</b>	Field Name <b>GMBU CTB8</b>	County <b>DUCHESNE</b>
Spud Date <b>10/27/2006</b>	Rig Release Date <b>11/30/2006</b>	On Production Date <b>12/15/2006</b>	Original KB Elevation (ft) <b>5,237</b>	Ground Elevation (ft) <b>5,225</b>	Total Depth All (TVD) (ftKB) <b>5,765.0</b>	PBTd (All) (ftKB) <b>Original Hole - 5,702.3</b>	

**Most Recent Job**

Job Category <b>Production / Workover</b>	Primary Job Type <b>Conversion</b>	Secondary Job Type <b>Basic</b>	Job Start Date <b>10/24/2012</b>	Job End Date <b>10/31/2012</b>
--	---------------------------------------	------------------------------------	-------------------------------------	-----------------------------------

**TD: 5,765.0**

Vertical - Original Hole, 7/7/2015 2:03:04 PM



# NEWFIELD



## Newfield Wellbore Diagram Data Federal 5-14-9-17

Surface Legal Location 14-9S-17E		API/UWI 43013327030000		Lease	
County DUCHESNE		State/Province Utah		Basin	
Well Start Date 10/27/2006		Spud Date 10/27/2006		Final Rig Release Date 11/30/2006	
Original KB Elevation (ft.) 5,237		Ground Elevation (ft.) 5,225		Total Depth (ftKB) 5,765.0	
				Total Depth All (TVD) (ftKB) Original Hole - 5,702.3	

### Casing Strings

Csg Des	Run Date	OD (in)	ID (in)	W/Len (lb/ft)	Grade	Set Depth (ftKB)
Surface	10/28/2006	8 5/8	8 097	24.00	J-55	322
Production	11/29/2006	5 1/2	4 950	15.50	J-55	5,748

### Cement

#### String: Surface, 322ftKB 10/31/2006

Cementing Company BJ Services Company		Top Depth (ftKB) 12.0	Bottom Depth (ftKB) 322.1	Full Return?	Vol Cement Ret (bb)
Fluid Description Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1 17 cf/sk yield		Fluid Type Lead	Amount (sacks) 160	Class G	Estimated Top (ftKB) 12.0

#### String: Production, 5,748ftKB 11/30/2006

Cementing Company BJ Services Company		Top Depth (ftKB) 200.0	Bottom Depth (ftKB) 5,765.0	Full Return?	Vol Cement Ret (bb)
Fluid Description Premite II w/ 10% gel + 3% KCL. 3#s /sk CSE + 2# sk/kolseal + 1/4#s/sk Cello Flake mixed @ 11.0 ppg W / 3.5 cf/sk yield		Fluid Type Lead	Amount (sacks) 302	Class PL II	Estimated Top (ftKB) 12.0
Fluid Description 50/50 poz W/ 2% Gel + 3% KCL, 5%EC1.1/4# sk C.F. 2% gel 3% SM mixed @ 14.4 ppg W/ 1.24 YLD		Fluid Type Tail	Amount (sacks) 450	Class 50/50 Poz	Estimated Top (ftKB) 3,000.0

### Tubing Strings

Tubing Description					Run Date	Set Depth (ftKB)			
Tubing					10/31/2012	3,878.0			
Item Des	Jts	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)	
Tubing	122	2 7/8	2.441	6 50	J-55	3,850.00	12.0	3,862.0	
Seating Nipple		2 7/8	2.441			1.10	3,862.0	3,863.1	
On-Off Tool		2 7/8				1.50	3,863.1	3,864.6	
Seal Nipple		2 7/8	2.441			0.30	3,864.6	3,864.9	
Packer		5 1/2	4.950			7.00	3,864.9	3,871.9	
Cross Over		2 3/8	1.991			0.50	3,871.9	3,872.4	
Tubing Pup Joint		2 3/8				4.00	3,872.4	3,876.4	
XN Nipple		2 3/8				1.20	3,876.4	3,877.6	
Wireline Guide		2 3/8				0.40	3,877.6	3,878.0	

### Rod Strings

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

### Perforation Intervals

Stage#	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Phasing (°)	Nom Hole Dia (in)	Date
4	LODC, Original Hole	3,890	3,910	4	120		12/12/2006
3	C, Original Hole	4,625	4,634	4	120		12/11/2006
2	GB4, Original Hole	5,034	5,043	4	120		12/11/2006
1	CP2, Original Hole	5,282	5,285	4	120		12/7/2006
1	CP1, Original Hole	5,324	5,331	4	120		12/7/2006
1	CP 5, Original Hole	5,367	5,372	4	120		12/7/2006

### Stimulations & Treatments

Stage#	ISIP (psi)	Frac Gradient (psi/ft)	Max Rate (bbf/min)	Max PSI (psi)	Total Clean Vol (bbf)	Total Slurry Vol (bbf)	Vol Recov (bbf)
1	1,612	0.74	25.0	2,480			
2	3,970	1.2	25.0	3,970			
3	2,050	0.88	25.0	2,377			
4	2,230	1.01	25.0	2,170			

### Proppant

Stage#	Total Prop Vol Pumped (lb)	Total Add Amount
1		Proppant Bulk sand 64804 lbs
2		Proppant Bulk sand 35282 lbs
3		Proppant Bulk sand 60637 lbs



**Proppant**

Stage#	Total Prop Vol Pumped (lb)	Total Add Amount
4		Proppant Bulk sand 92273 lbs



November 6, 2012

Mr. Jason Deardorff  
8P-W-GW  
US EPA Region 8  
1595 Wynkoop Street  
Denver, Colorado 80202-1129

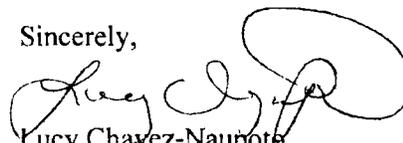
1A-9S-17E  
RE: Injection Conversion  
Well: Federal 5-14-9-17  
EPA #: UT22217-09421  
API #: 43-013-32703

Dear Mr. Deardorff:

The subject well was converted from a producing oil well to a water injection well. Attached are the EPA Form 7520-12, MIT Pressure Test, an updated wellbore diagram, a copy of the chart, and Daily Activity report. The pore pressure for this well has been calculated to be 1035 psia.

You may contact me at 435-646-4874 or [lchavez-naupoto@newfield.com](mailto:lchavez-naupoto@newfield.com) if you require further information.

Sincerely,



Lucy Chavez-Naupoto  
Water Services Technician

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460



**WELL REWORK RECORD**

NAME AND ADDRESS OF PERMITTEE Newfield Production Company 410 17th Street, Suite 700 Denver, Colorado 80202-4402	NAME AND ADDRESS OF CONTRACTOR Same as Permittee
---	---

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES 	STATE Utah	COUNTY Duchesne	PERMIT NUMBER U122217-09421
	SURFACE LOCATION DESCRIPTION 1/4 OF SW 1/4 OF NW SECTION 14 TOWNSHIP 9S RANGE 17E		
	LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT Surface Location _____ 2031 ft. from (N/S) _____ N Line of quarter section and _____ 466 ft from (E/W) _____ W Line of quarter section		
	WELL ACTIVITY <input type="checkbox"/> Brine Disposal <input checked="" type="checkbox"/> Enhanced Recovery <input type="checkbox"/> Hydrocarbon Storage  Lease Name Federal	Total Depth Before Rework (ft) 5765  Total Depth After Rework (ft) 5765  Date Rework Commenced 10/24/2012  Date Rework Completed 10/31/2012	TYPE OF PERMIT <input checked="" type="checkbox"/> Individual <input type="checkbox"/> Area Number of Wells _____ 1 _____  Well Number 5-14-9-17

**WELL CASING RECORD -- BEFORE REWORK**

Casing		Cement		Perforations (ft)		Acid or Fracture Treatment Record
Size	Depth (ft)	Sacks	Type	From	To	
8 5/8"	322	160	Class "G"	5282	5372	Perf and frac
5 1/2"	5748	302	Prem Lt II	5034	5043	Perf and frac
		450	50/50 Poz.	4625	4634	Perf and frac
				3890	3910	Perf and frac

**WELL CASING RECORD -- AFTER REWORK** (Indicate Additions and Changes Only)

Casing		Cement		Perforations (ft)		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

DESCRIBE REWORK OPERATIONS IN DETAIL  
USE ADDITIONAL SHEETS IF NECESSARY

WIRE LINE LOGS, LIST EACH TYPE

Log Types

Logged Intervals

See attached "Daily Workover Report"

**CERTIFICATION**

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

NAME AND OFFICIAL TITLE (Please type or print) Lucy Chavez-Naupoto Water Services Technician	SIGNATURE 	DATE SIGNED November 6, 2012
--	---------------	---------------------------------

Sundry Number: 31760 API Well Number: 43013327030000

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<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-075174
		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 5-14-9-17
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		9. API NUMBER: 43013327030000
3. ADDRESS OF OPERATOR: Rt 3 Box 3630, Myton, UT, 84052		PHONE NUMBER: 435 646-4825 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2031 FNL 0466 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 14 Township: 09.0S Range: 17.0E Meridian: S		9. FIELD and POOL or WILDCAT: MONUMENT BUTTE
		COUNTY: DUCHESE
		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION  <input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 10/31/2012  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:	TYPE OF ACTION  <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"/> SITA STATUS EXTENSION <input type="checkbox"/> OTHER	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The subject well has been converted from a producing oil well to an injection well on 10/29/2012. On 10/30/2012 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 10/31/2012 the casing was pressured up to 1670 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 50 psig during the test. There was not an EPA representative available to witness the test. EPA# UT22217-09421		
NAME (PLEASE PRINT) Lucy Chavez-Naupoto	PHONE NUMBER 435 646-4874	TITLE Water Services Technician
SIGNATURE N/A	DATE 11/6/2012	

RECEIVED: Nov. 06, 2012

# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_ Date: 10 131 12012  
 Test conducted by: Brendan Curry  
 Others present: \_\_\_\_\_

Well Name: <u>Federal 5-14-9-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Greater Monument Butte</u>		
Location: <u># 5</u>	Sec: <u>14</u>	T <u>9</u> N <u>10</u> R <u>17</u> <u>W</u> County: <u>Duchesne</u> State: <u>UT</u>
Operator: <u>Newfield Production</u>		
Last MIT: <u>1</u>	Maximum Allowable Pressure:	PSIG

Is this a regularly scheduled test?     Yes     No  
 Initial test for permit?                 Yes     No  
 Test after well rework?                 Yes     No  
 Well injecting during test?             Yes     No      If Yes, rate: \_\_\_\_\_ bpd

Pre-test casing/tubing annulus pressure: \_\_\_\_\_ 0 \_\_\_\_\_ psig

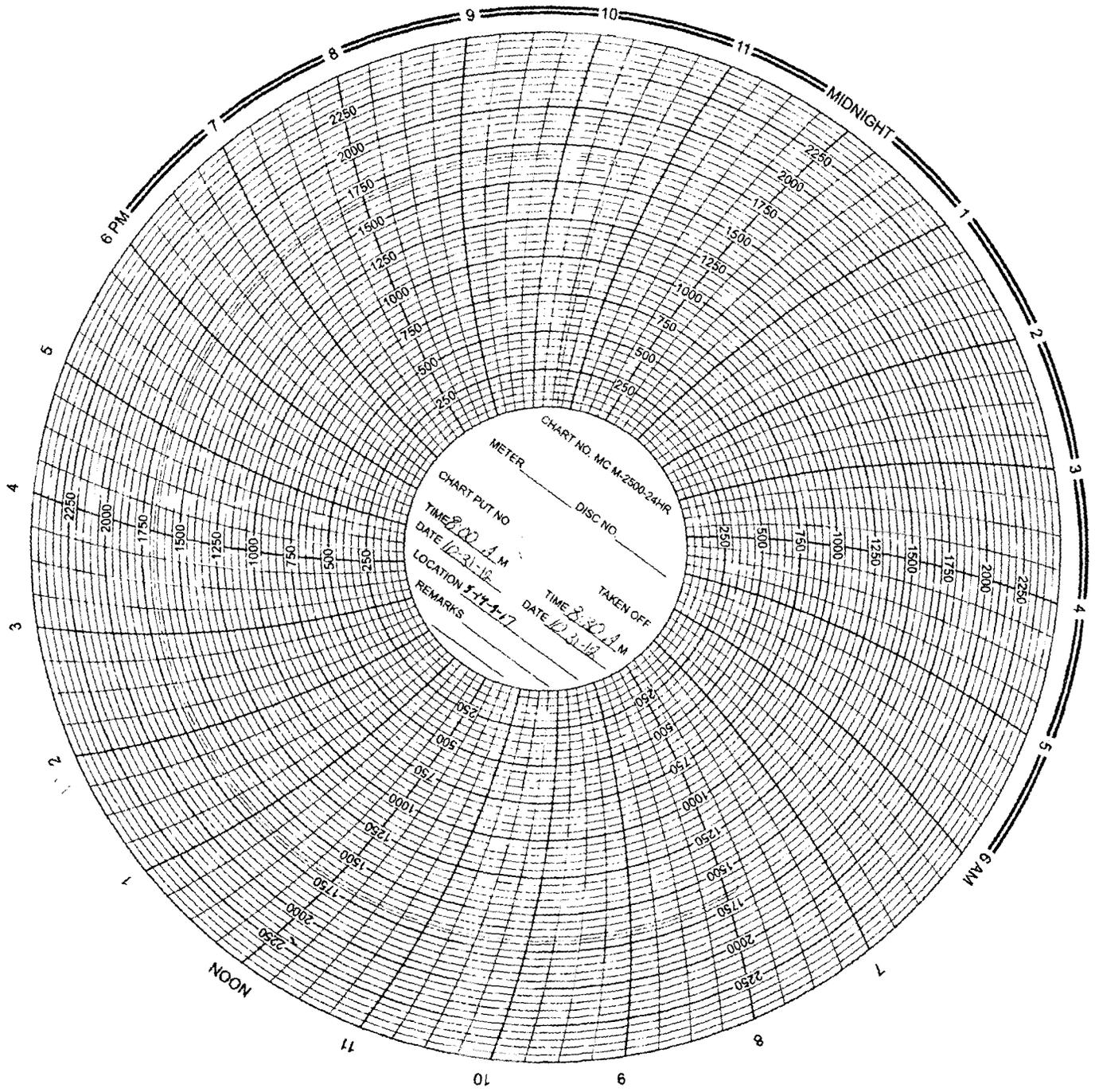
MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	50      psig	psig	psig
End of test pressure	50      psig	psig	psig
<b>CASING / TUBING ANNULUS PRESSURE</b>			
0 minutes	1670      psig	psig	psig
5 minutes	1670      psig	psig	psig
10 minutes	1670      psig	psig	psig
15 minutes	1670      psig	psig	psig
20 minutes	1670      psig	psig	psig
25 minutes	1670      psig	psig	psig
30 minutes	1670      psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
<b>RESULT</b>	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test?     Yes     No

### MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

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



METER \_\_\_\_\_ DISC NO. \_\_\_\_\_  
CHART NO. MC M-2500-24HR  
CHART PUT NO. \_\_\_\_\_  
TIME 8:00 A.M.  
DATE 12-31-18  
LOCATION 11-1-17  
REMARKS \_\_\_\_\_  
TAKEN OFF  
TIME 8:30 A.M.  
DATE 12-31-18

**Daily Activity Report****Format For Sundry****FEDERAL 5-14-9-17****8/1/2012 To 12/30/2012****10/26/2012 Day: 1****Conversion**

NC #2 on 10/26/2012 - MIRUSU, RDPU, PT Tbg, LD 99- Rods, SWIFN - MIRUSU @ 12:30, RDPU, H/ Oiler Pmped 60BW Down Csg, LD Polished Rod, US Rod Pmp, H/ Oiler Pmped 40BW Down Tbg, Soft Seat Rod Pmp, PT Tbg To 3000psi, GOOD TEST, 20BW To Fill, LD 1- 3/4"x 2',6',8' Rod Subs, LD 99- 3/4" 4per Guided Rods...SWIFN...5:30PM To 6:00PM C/ Travl - MIRUSU @ 12:30, RDPU, H/ Oiler Pmped 60BW Down Csg, LD Polished Rod, US Rod Pmp, H/ Oiler Pmped 40BW Down Tbg, Soft Seat Rod Pmp, PT Tbg To 3000psi, GOOD TEST, 20BW To Fill, LD 1- 3/4"x 2',6',8' Rod Subs, LD 99- 3/4" 4per Guided Rods...SWIFN...5:30PM To 6:00PM C/ Travl - MIRUSU @ 12:30, RDPU, H/ Oiler Pmped 60BW Down Csg, LD Polished Rod, US Rod Pmp, H/ Oiler Pmped 40BW Down Tbg, Soft Seat Rod Pmp, PT Tbg To 3000psi, GOOD TEST, 20BW To Fill, LD 1- 3/4"x 2',6',8' Rod Subs, LD 99- 3/4" 4per Guided Rods...SWIFN...5:30PM To 6:00PM C/ Travl - 5:30AM To 6:00AM C/ Travl: OWU @ 6:00AM, H/ Oiler Pmped 30BW Down Tbg, LD: 89- 3/4" Plain Rods, 20- 3/4" Guided Rods, 6- 1 1/2" Wt Bars, LD National VSP 2.5"x 1.25"x 19' Rods Pmp (NO SIGNS OF SCALE), XO For Tbg, ND 3K B-1 Adaptor, US TA, NU Weatherford BOP, RU Workfloor, PU 5- Jts, Tagged Fill @ 5586' (162' Of Total Fill From PB), LD 5- Jts, H/ Oiler Pmped 40BW Down Tbg, POOH W/ 122 Jts Breaking & Inspecting Collars, Applied Liquid O- Ring To Pins & Retorqued, H/ Oiler Pmped 30BW Down Tbg, LD 10- Jts, SWIFN...7:00PM To 7:30PM C/ Travl - 5:30AM To 6:00AM C/ Travl: OWU @ 6:00AM, LD 40- Jts On Trailer, TIH W/ 122 Jts Open Holed, H/ Oiler Pmped 30BW Down Tbg, POOH Checking Torque On Each Pin, MU & RIH W/ XN Arrow PKR, TIH W/ 122 Jts, SWIFN...5:30PM To 6:00PM C/ Travl - 5:30AM To 6:00AM C/ Travl: OWU @ 6:00AM, LD 40- Jts On Trailer, TIH W/ 122 Jts Open Holed, H/ Oiler Pmped 30BW Down Tbg, POOH Checking Torque On Each Pin, MU & RIH W/ XN Arrow PKR, TIH W/ 122 Jts, SWIFN...5:30PM To 6:00PM C/ Travl - 5:30AM To 6:00AM C/ Travl: OWU @ 6:00AM, LD 40- Jts On Trailer, TIH W/ 122 Jts Open Holed, H/ Oiler Pmped 30BW Down Tbg, POOH Checking Torque On Each Pin, MU & RIH W/ XN Arrow PKR, TIH W/ 122 Jts, SWIFN...5:30PM To 6:00PM C/ Travl: OWU @ 6:00AM, H/ Oiler Pmped 30BW Down Tbg, LD: 89- 3/4" Plain Rods, 20- 3/4" Guided Rods, 6- 1 1/2" Wt Bars, LD National VSP 2.5"x 1.25"x 19' Rods Pmp (NO SIGNS OF SCALE), XO For Tbg, ND 3K B-1 Adaptor, US TA, NU Weatherford BOP, RU Workfloor, PU 5- Jts, Tagged Fill @ 5586' (162' Of Total Fill From PB), LD 5- Jts, H/ Oiler Pmped 40BW Down Tbg, POOH W/ 122 Jts Breaking & Inspecting Collars, Applied Liquid O- Ring To Pins & Retorqued, H/ Oiler Pmped 30BW Down Tbg, LD 10- Jts, SWIFN...7:00PM To 7:30PM C/ Travl - 5:30AM To 6:00AM C/ Travl: OWU @ 6:00AM, H/ Oiler Pmped 30BW Down Tbg, LD: 89- 3/4" Plain Rods, 20- 3/4" Guided Rods, 6- 1 1/2" Wt Bars, LD National VSP 2.5"x 1.25"x 19' Rods Pmp (NO SIGNS OF SCALE), XO For Tbg, ND 3K B-1 Adaptor, US TA, NU Weatherford BOP, RU Workfloor, PU 5- Jts, Tagged Fill @ 5586' (162' Of Total Fill From PB), LD 5- Jts, H/ Oiler Pmped 40BW Down Tbg, POOH W/ 122 Jts Breaking & Inspecting Collars, Applied Liquid O- Ring To Pins & Retorqued, H/ Oiler Pmped 30BW Down Tbg, LD 10- Jts, SWIFN...7:00PM To 7:30PM C/ Travl - 5:30AM To 6:00AM C/ Travl: OWU @ 6:00AM, H/ Oiler Pmped 30BW Down Tbg, LD: 89- 3/4" Plain Rods, 20- 3/4" Guided Rods, 6- 1 1/2" Wt Bars, LD National VSP 2.5"x 1.25"x 19' Rods Pmp (NO SIGNS OF SCALE), XO For Tbg, ND 3K B-1 Adaptor, US TA, NU Weatherford BOP, RU Workfloor, PU 5- Jts, Tagged Fill @ 5586' (162' Of Total Fill From PB), LD 5- Jts, H/ Oiler Pmped 40BW Down Tbg, POOH W/ 122 Jts Breaking & Inspecting Collars, Applied Liquid O- Ring To Pins & Retorqued, H/ Oiler Pmped 30BW Down Tbg, LD 10- Jts, SWIFN...7:00PM To 7:30PM C/ Travl - MIRUSU @ 12:30, RDPU, H/ Oiler Pmped 60BW Down Csg, LD Polished Rod, US Rod Pmp, H/ Oiler Pmped 40BW Down Tbg, Soft Seat Rod Pmp, PT Tbg To 3000psi, GOOD TEST, 20BW To Fill, LD 1- 3/4"x 2',6',8' Rod Subs, LD 99- 3/4" 4per Guided Rods...SWIFN...5:30PM To 6:00PM C/ Travl - MIRUSU @ 12:30, RDPU, H/ Oiler Pmped 60BW Down Csg, LD Polished Rod, US Rod Pmp, H/ Oiler Pmped 40BW

Down Tbg, Soft Seat Rod Pmp, PT Tbg To 3000psi, GOOD TEST, 20BW To Fill, LD 1- 3/4"x 2',6',8' Rod Subs, LD 99- 3/4" 4per Guided Rods...SWIFN...5:30PM To 6:00PM C/ Travl - MIRUSU @ 12:30, RDPU, H/ Oiler Pmped 60BW Down Csg, LD Polished Rod, US Rod Pmp, H/ Oiler Pmped 40BW Down Tbg, Soft Seat Rod Pmp, PT Tbg To 3000psi, GOOD TEST, 20BW To Fill, LD 1- 3/4"x 2',6',8' Rod Subs, LD 99- 3/4" 4per Guided Rods...SWIFN...5:30PM To 6:00PM C/ Travl - 5:30AM To 6:00AM C/ Travl: OWU @ 6:00AM, LD 40- Jts On Trailer, TIH W/ 122 Jts Open Holed, H/ Oiler Pmped 30BW Down Tbg, POOH Checking Torque On Each Pin, MU & RIH W/ XN Arrow PKR, TIH W/ 122 Jts, SWIFN...5:30PM To 6:00PM C/ Travl - 5:30AM To 6:00AM C/ Travl: OWU @ 6:00AM, LD 40- Jts On Trailer, TIH W/ 122 Jts Open Holed, H/ Oiler Pmped 30BW Down Tbg, POOH Checking Torque On Each Pin, MU & RIH W/ XN Arrow PKR, TIH W/ 122 Jts, SWIFN...5:30PM To 6:00PM C/ Travl - 5:30AM To 6:00AM C/ Travl: OWU @ 6:00AM, LD 40- Jts On Trailer, TIH W/ 122 Jts Open Holed, H/ Oiler Pmped 30BW Down Tbg, POOH Checking Torque On Each Pin, MU & RIH W/ XN Arrow PKR, TIH W/ 122 Jts, SWIFN...5:30PM To 6:00PM C/ Travl - 5:30AM To 6:00AM C/ Travl: OWU @ 6:00AM, LD 40- Jts On Trailer, TIH W/ 122 Jts Open Holed, H/ Oiler Pmped 30BW Down Tbg, POOH Checking Torque On Each Pin, MU & RIH W/ XN Arrow PKR, TIH W/ 122 Jts, SWIFN...5:30PM To 6:00PM C/ Travl - 5:30AM To 6:00AM C/ Travl: OWU @ 6:00AM, H/ Oiler Pmped 30BW Down Tbg, LD: 89- 3/4" Plain Rods, 20- 3/4" Guided Rods, 6- 1 1/2" Wt Bars, LD National VSP 2.5"x 1.25"x 19' Rods Pmp (NO SIGNS OF SCALE), XO For Tbg, ND 3K B-1 Adaptor, US TA, NU Weatherford BOP, RU Workfloor, PU 5- Jts, Tagged Fill @ 5586' (162' Of Total Fill From PB), LD 5- Jts, H/ Oiler Pmped 40BW Down Tbg, POOH W/ 122 Jts Breaking & Inspecting Collars, Applied Liquid O- Ring To Pins & Retorqued, H/ Oiler Pmped 30BW Down Tbg, LD 10- Jts, SWIFN...7:00PM To 7:30PM C/ Travl - 5:30AM To 6:00AM C/ Travl: OWU @ 6:00AM, H/ Oiler Pmped 30BW Down Tbg, LD: 89- 3/4" Plain Rods, 20- 3/4" Guided Rods, 6- 1 1/2" Wt Bars, LD National VSP 2.5"x 1.25"x 19' Rods Pmp (NO SIGNS OF SCALE), XO For Tbg, ND 3K B-1 Adaptor, US TA, NU Weatherford BOP, RU Workfloor, PU 5- Jts, Tagged Fill @ 5586' (162' Of Total Fill From PB), LD 5- Jts, H/ Oiler Pmped 40BW Down Tbg, POOH W/ 122 Jts Breaking & Inspecting Collars, Applied Liquid O- Ring To Pins & Retorqued, H/ Oiler Pmped 30BW Down Tbg, LD 10- Jts, SWIFN...7:00PM To 7:30PM C/ Travl **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$5,585

**10/29/2012 Day: 4**

**Conversion**

NC #2 on 10/29/2012 - Pressure Test Tbg, Fish Stnd Vlve, R/D BOPS, Set & Pressure Test Pkr - 5:30 To 6:00 AM C/Trvl, 6:00 AM OWU, R/U H/Oiler To Tbg, Pmp 20 Bbls Wtr, Drop Stnd Vlve, Pressure Test Tbg To 3,000 Psi, Good Test, R/U Sandline, Fish Stnd Vlve, R/D Sandline, R/D Weatherford BOPS, R/U Injection Tree, R/U H/Oiler To CSg, Pmp 70 Bbls Fresh Wtr, R/D Inj Tree, Set Pkr, R/U Inj Tree, Pressure Test Csg To 1,500 Psi, Good Test, R/D NC #2, Well Ready For MIT. - 5:30 To 6:00 AM C/Trvl, 6:00 AM OWU, R/U H/Oiler To Tbg, Pmp 20 Bbls Wtr, Drop Stnd Vlve, Pressure Test Tbg To 3,000 Psi, Good Test, R/U Sandline, Fish Stnd Vlve, R/D Sandline, R/D Weatherford BOPS, R/U Injection Tree, R/U H/Oiler To CSg, Pmp 70 Bbls Fresh Wtr, R/D Inj Tree, Set Pkr, R/U Inj Tree, Pressure Test Csg To 1,500 Psi, Good Test, R/D NC #2, Well Ready For MIT.

**Daily Cost:** \$0

**Cumulative Cost:** \$36,074

**11/2/2012 Day: 5**

**Conversion**

Rigless on 11/2/2012 - Conduct initial MIT - On 10/30/2012 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 10/31/2012 the casing was pressured up to 1670 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 50 psig during the test. There was not an EPA representative available to witness the test. EPA# UT22217-09421 - On 10/30/2012 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 10/31/2012 the casing was pressured up to 1670 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 50

psig during the test. There was not an EPA representative available to witness the test. EPA#

UT22217-09421 **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$124,908

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