

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-11385
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator Newfield Production Company		7. If Unit or CA Agreement, Name and No. N/A
3a. Address Route #3 Box 3630, Myton UT 84052		8. Lease Name and Well No. Federal 3-30-9-17
3b. Phone No. (include area code) (435) 646-3721		9. API Well No. 43013-33772
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NE/NW 397' FNL 1980' FWL 581037X 40.888074 At proposed prod. zone 44288754 - 110.056556		10. Field and Pool, or Exploratory Monument Butte
11. Sec., T., R., M., or Blk. and Survey or Area NE/NW Sec. 30, T9S R17E		12. County or Parish Duchesne
14. Distance in miles and direction from nearest town or post office* Approximatley 18.1 miles southeast of Myton, Utah		13. State UT
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 397' f/lse, NA' f/unit	16. No. of Acres in lease 950.40	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. 1384'	19. Proposed Depth 5640'	20. BLM/BIA Bond No. on file UTB000192
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5560' GL	22. Approximate date work will start* 4th Quarter 2007	23. Estimated duration Approximately seven (7) days from spud to rig release.

24. Attachments

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

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

25. Signature 	Name (Printed/Typed) Mandie Crozier	Date 8/22/07
Title Regulatory Specialist		
Approved by (Signature) 	Name (Printed/Typed) BRADLEY G. HILL	Date 09-17-07
Title Office	ENVIRONMENTAL MANAGER	

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

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

*(Instructions on reverse)

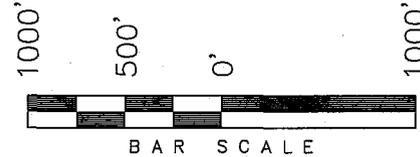
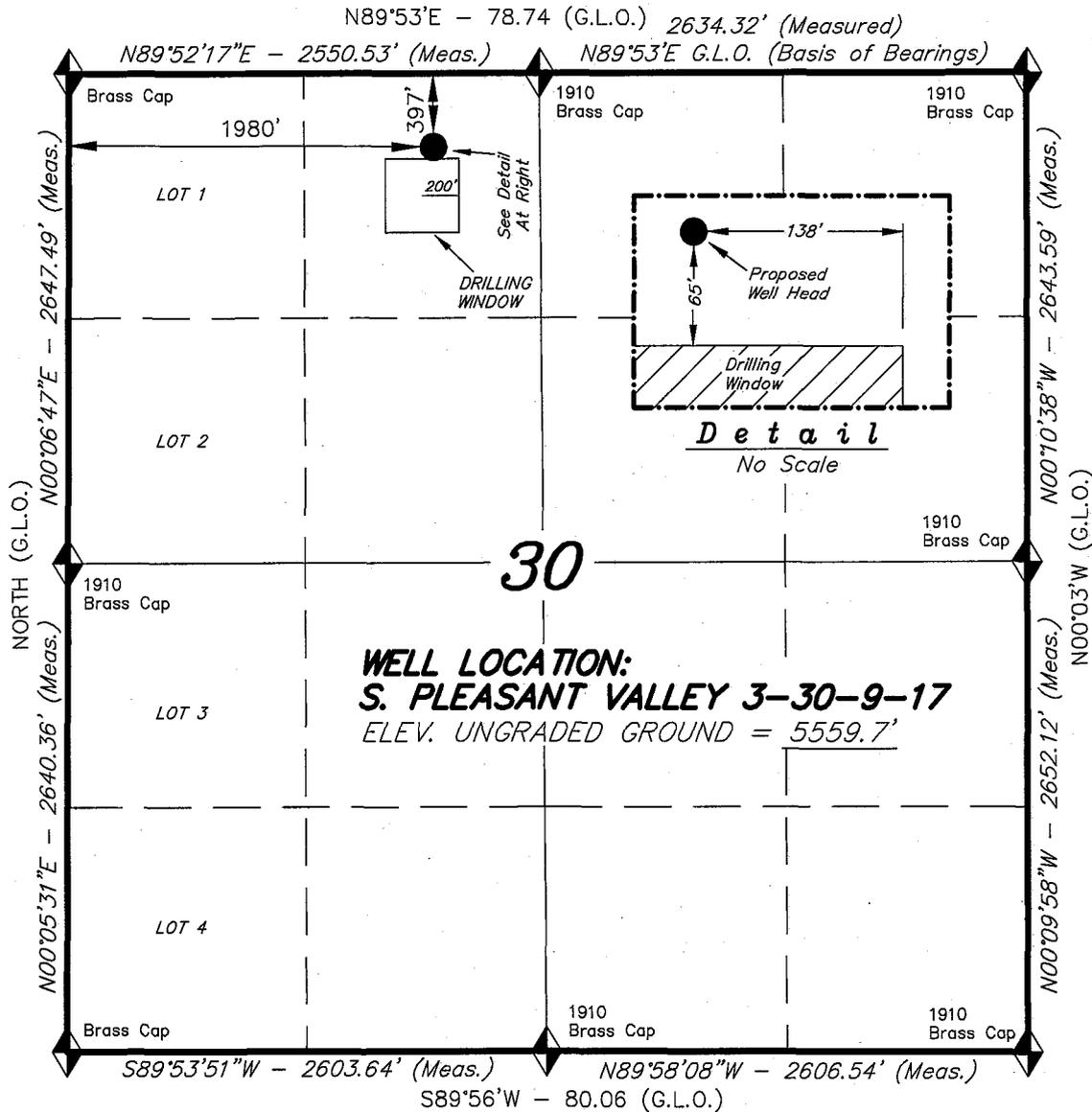
Federal Approval of this
Action is Necessary

RECEIVED
AUG 31 2007
DIV. OF OIL, GAS & MINING

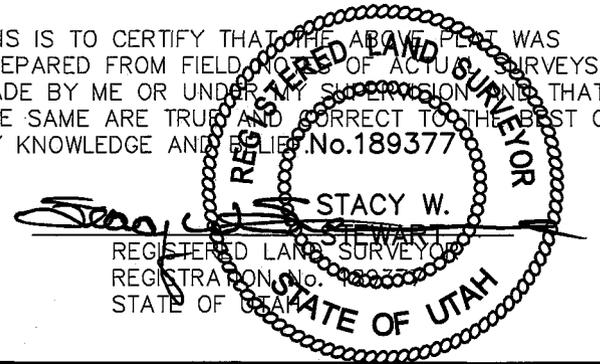
T9S, R17E, S.L.B.&M.

NEWFIELD PRODUCTION COMPANY

WELL LOCATION, S. PLEASANT VALLEY
3-30-9-17, LOCATED AS SHOWN IN THE
NE 1/4 NW 1/4 OF SECTION 30, T9S,
R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



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



◆ = SECTION CORNERS LOCATED

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

**S. PLEASANT VALLEY 3-30-9-17
(Surface Location) NAD 83
LATITUDE = 40° 00' 28.93"
LONGITUDE = 110° 03' 04.57"**

TRI STATE LAND SURVEYING & CONSULTING

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

DATE SURVEYED: 01-26-07	SURVEYED BY: C.M.
DATE DRAWN: 02-12-07	DRAWN BY: T.C.J.
REVISED:	SCALE: 1" = 1000'

NEWFIELD PRODUCTION COMPANY
FEDERAL #3-30-9-17
NE/NW SECTION 30, 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' – 1255'
Green River	1255'
Wasatch	5640'

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

Green River Formation 1255' – 5640' - 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 #3-30-9-17
NE/NW SECTION 30, 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 #3-30-9-17 located in the NE 1/4 NW 1/4 Section 30, 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 it's junction with an existing dirt road to the southwest; proceed southwesterly - 3.4 miles \pm to it's junction with the beginning of the proposed access road; proceed in a southerly and then easterly direction along the proposed access road - 1.4 miles \pm to the proposed well location.

2. PLANNED ACCESS ROAD

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

3. LOCATION OF EXISTING WELLS

Refer to Exhibit "B".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

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

5. LOCATION AND TYPE OF WATER SUPPLY

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

Johnson Water District
Water Right: 43-10136

Neil Moon Pond
Water Right: 43-11787

Maurice Harvey Pond
Water Right: 47-1358

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

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

6. SOURCE OF CONSTRUCTION MATERIALS

Please refer to the Monument Butte Field SOP.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

Please refer to the Monument Butte Field SOP.

8. **ANCILLARY FACILITIES**

Please refer to the Monument Butte Field SOP.

9. **WELL SITE LAYOUT**

See attached Location Layout Diagram.

10. **PLANS FOR RESTORATION OF SURFACE**

Please refer to the Monument Butte Field SOP.

11. **SURFACE OWNERSHIP** - Bureau Of Land Management (Proposed location and access roads leading to).

12. **OTHER ADDITIONAL INFORMATION**

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #07-309, 8/27/07. Paleontological Resource Survey prepared by, Wade E. Miller, 5/17/07. See attached report cover pages, Exhibit "D".

Newfield Production Company requests a 5,745' ROW be granted in Lease UTU-77369 and 1,430' of disturbed area be granted in Lease UTU-11385 to allow for construction of the planned access road. **Refer to Topographic Map "B"**. For the planned access road a temporary width of 60' will be needed for construction purposes with a permanent width of 30' and a running surface of 18'. The construction phase of the planned access road will last approximately (5) days. The planned 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.

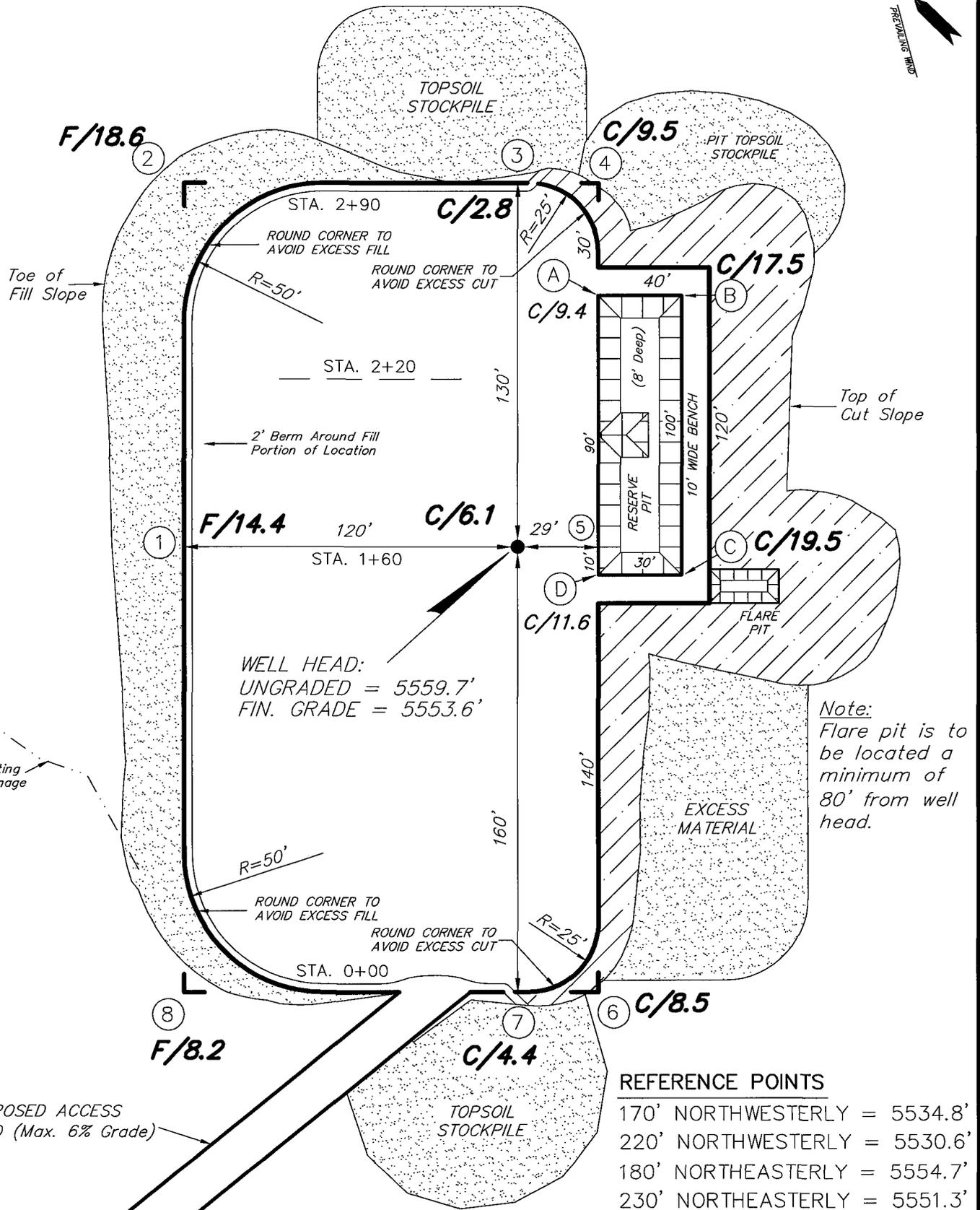
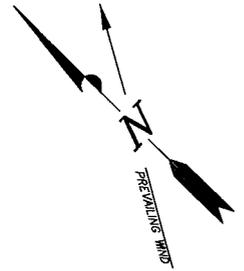
Newfield Production Company requests a 290' ROW in Lease UTU-77369 and 1,430' of disturbed area be granted in Lease UTU-11385 to allow for construction of the proposed surface gas lines. It is proposed that the ROW and disturbed area will temporarily be 50' wide to allow for construction of a 6" gas gathering line, and a 3" poly fuel gas line, with a permanent width of 30' upon completion of the proposed gas lines. The construction phase of the proposed gas lines will last approximately (5) days. Both lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

Newfield Production Company requests a 290' ROW in Lease UTU-77369 and 1,430' of disturbed area be granted in Lease UTU-11385 to allow for construction of the proposed water lines. It is proposed that the ROW and disturbed area will temporarily be 50' wide to allow for construction of a buried 3" steel water injection line and a buried 3" poly water return line, with a permanent width of 30' upon completion of the proposed water return line. The construction phase of the proposed water lines will last approximately (5) days. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

NEWFIELD PRODUCTION COMPANY

S. PLEASANT VALLEY 3-30-9-17

Section 30, T9S, R17E, S.L.B.&M.



SURVEYED BY: C.M.

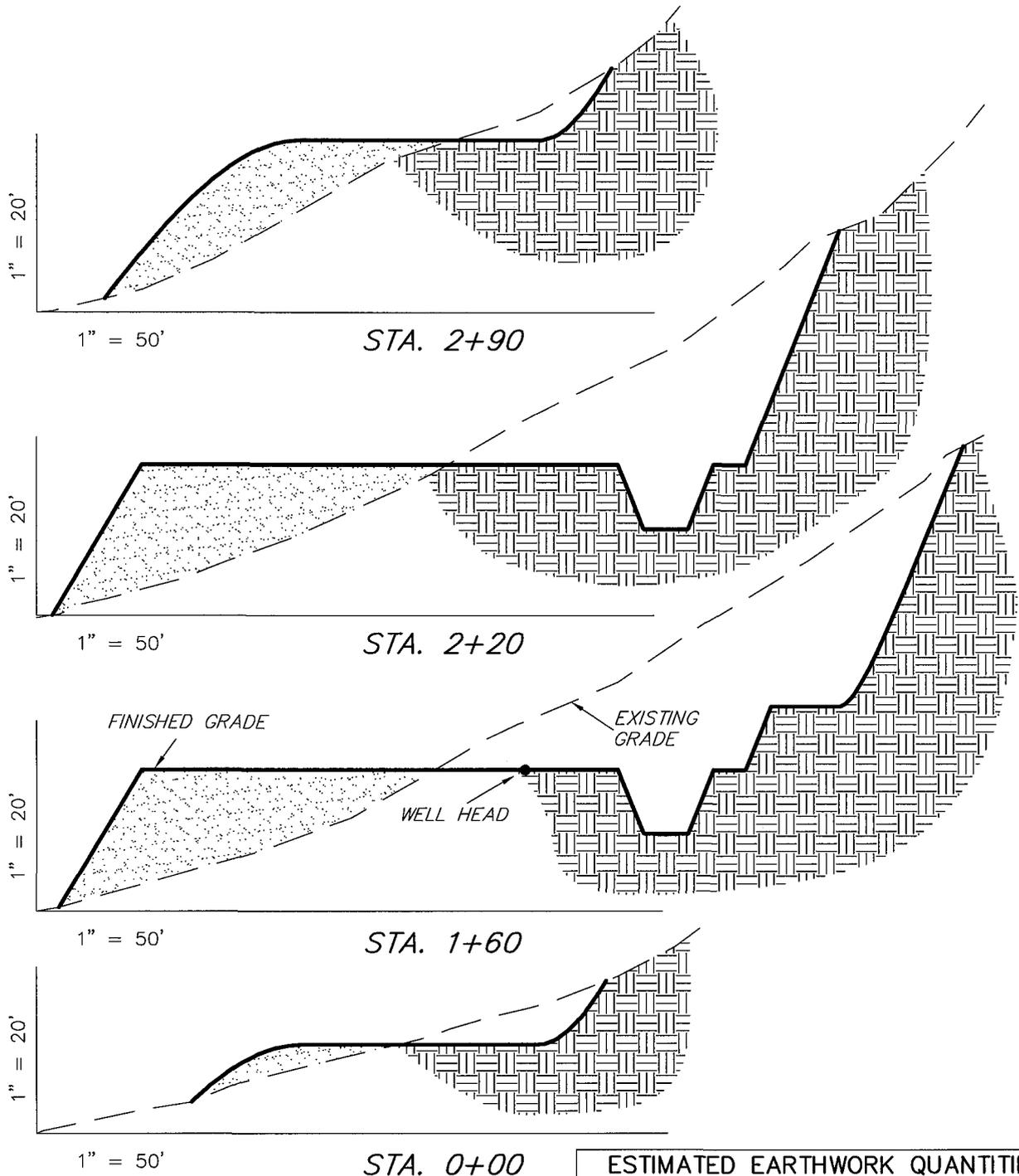
SCALE: 1" = 50'

DRAWN BY: T.C.J.

DATE: 02-12-07

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

NEWFIELD PRODUCTION COMPANY
CROSS SECTIONS
S. PLEASANT VALLEY 3-30-9-17



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

ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)				
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	9,640	9,640	Topsoil is not included in Pad Cut	0
PIT	640	0		640
TOTALS	10,280	9,640	1,240	640

SURVEYED BY: C.M.

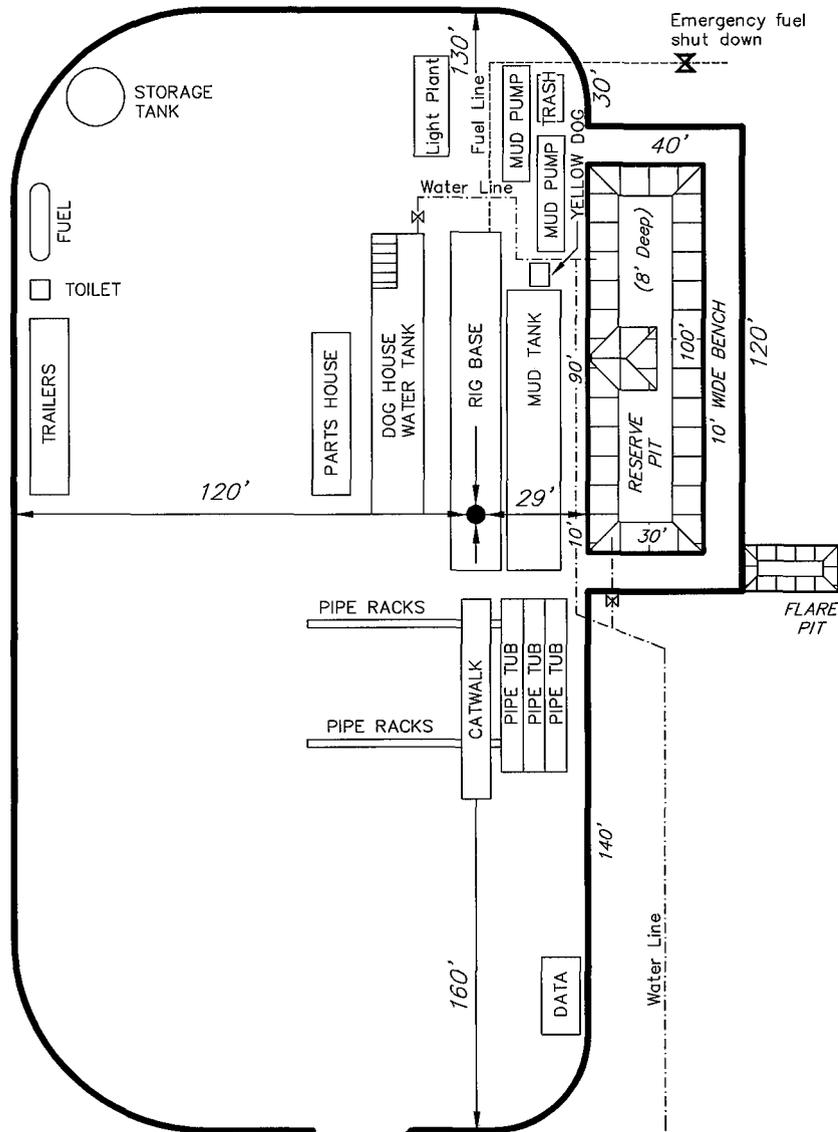
SCALE: 1" = 50'

DRAWN BY: T.C.J.

DATE: 02-12-07

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

NEWFIELD PRODUCTION COMPANY
TYPICAL RIG LAYOUT
S. PLEASANT VALLEY 3-30-9-17



PROPOSED ACCESS ROAD (Max. 6% Grade)

SURVEYED BY: C.M.

SCALE: 1" = 50'

DRAWN BY: T.C.J.

DATE: 02-12-07

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

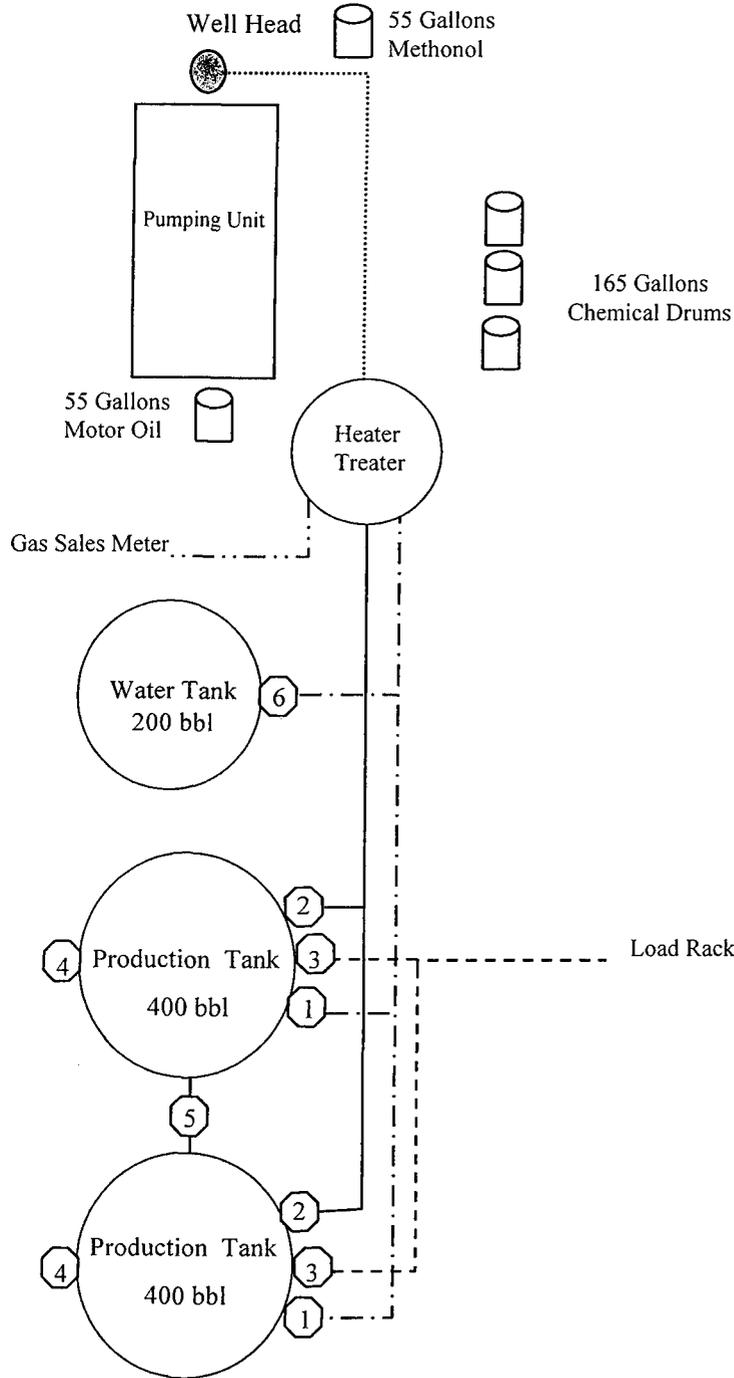
Newfield Production Company Proposed Site Facility Diagram

Federal 3-30-9-17

NE/NW Sec. 30, T9S, R17E

Duchesne County, Utah

UTU-11385



Legend

Emulsion Line
Load Rack	-----
Water Line	-----
Gas Sales
Oil Line	—————

Production Phase:

- 1) Valves 1, 3, and 4 sealed closed
- 2) Valves 2, 5, and 6 sealed open

Sales Phase:

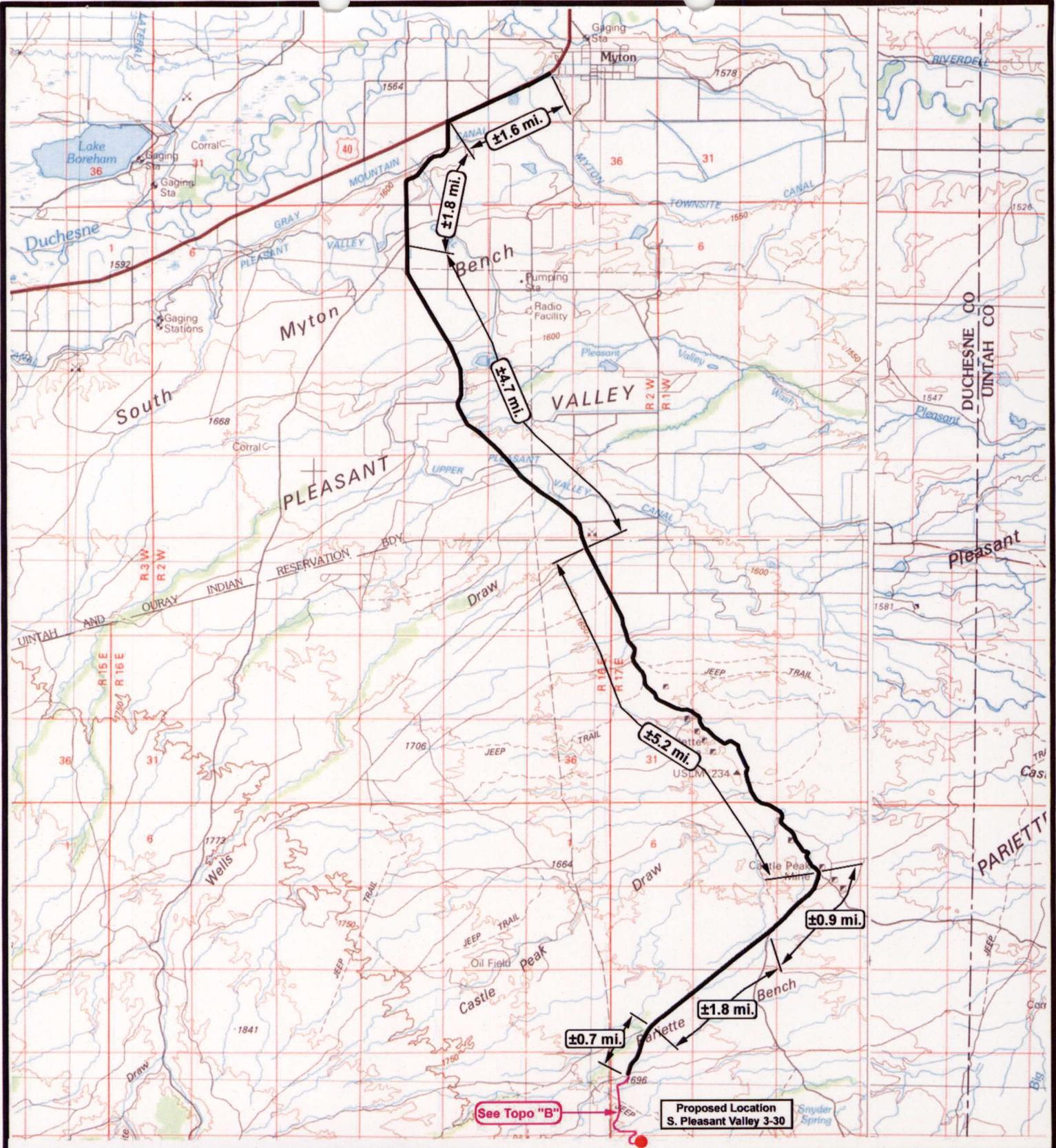
- 1) Valves 1, 2, 4, 5, and 6 sealed closed
- 2) Valve 3 open

Draining Phase:

- 1) Valves 1 and 6 open

Diked Section





NEWFIELD
Exploration Company

S. Pleasant Valley 3-30-9-17
SEC. 30, T9S, R17E, S.L.B.&M.



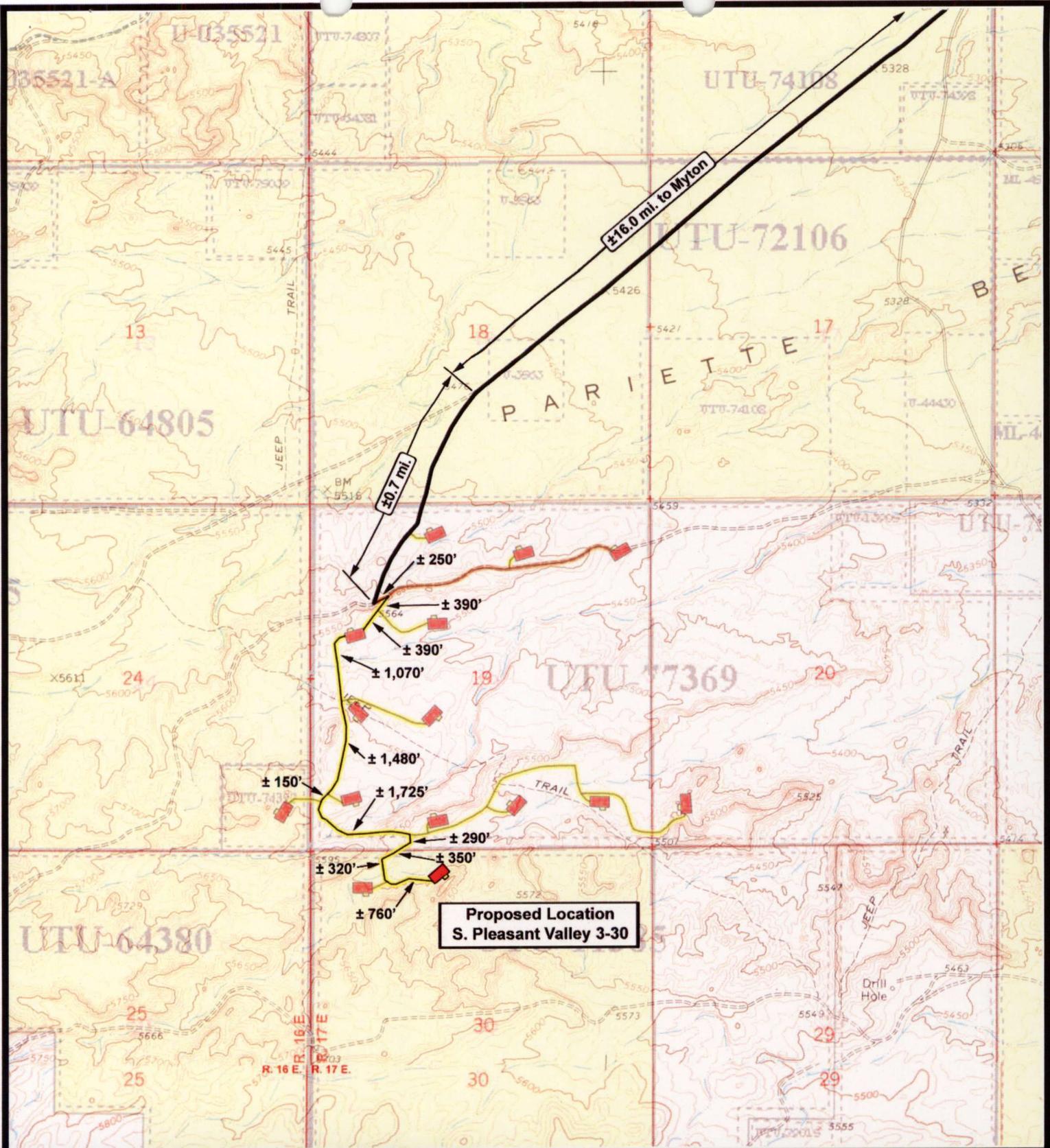
Tri-State
Land Surveying Inc.
(435) 781-2501
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1 = 100,000
DRAWN BY: mw
DATE: 02-27-2007

Legend

— Existing Road
— Proposed Access

TOPOGRAPHIC MAP
"A"



**Proposed Location
S. Pleasant Valley 3-30**



NEWFIELD
Exploration Company

**S. Pleasant Valley 3-30-9-17
SEC. 30, 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'

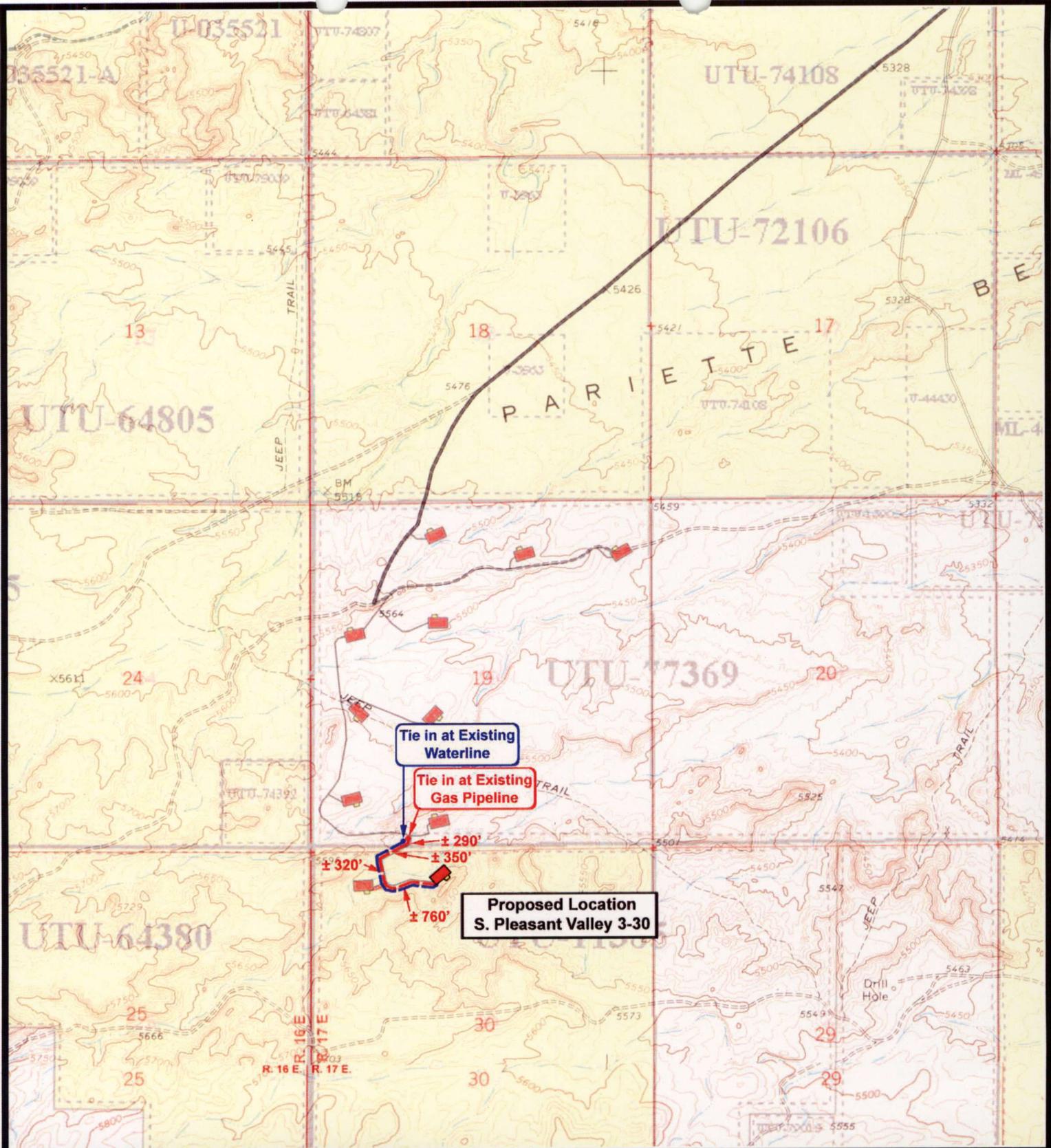
DRAWN BY: mw

DATE: 02-28-2007

- Legend**
- Existing Road
 - Proposed Access
 - Existing Two-Track

TOPOGRAPHIC MAP

"B"



NEWFIELD
Exploration Company

**S. Pleasant Valley 3-30-9-17
SEC. 30, T9S, R17E, S.L.B.&M.**



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

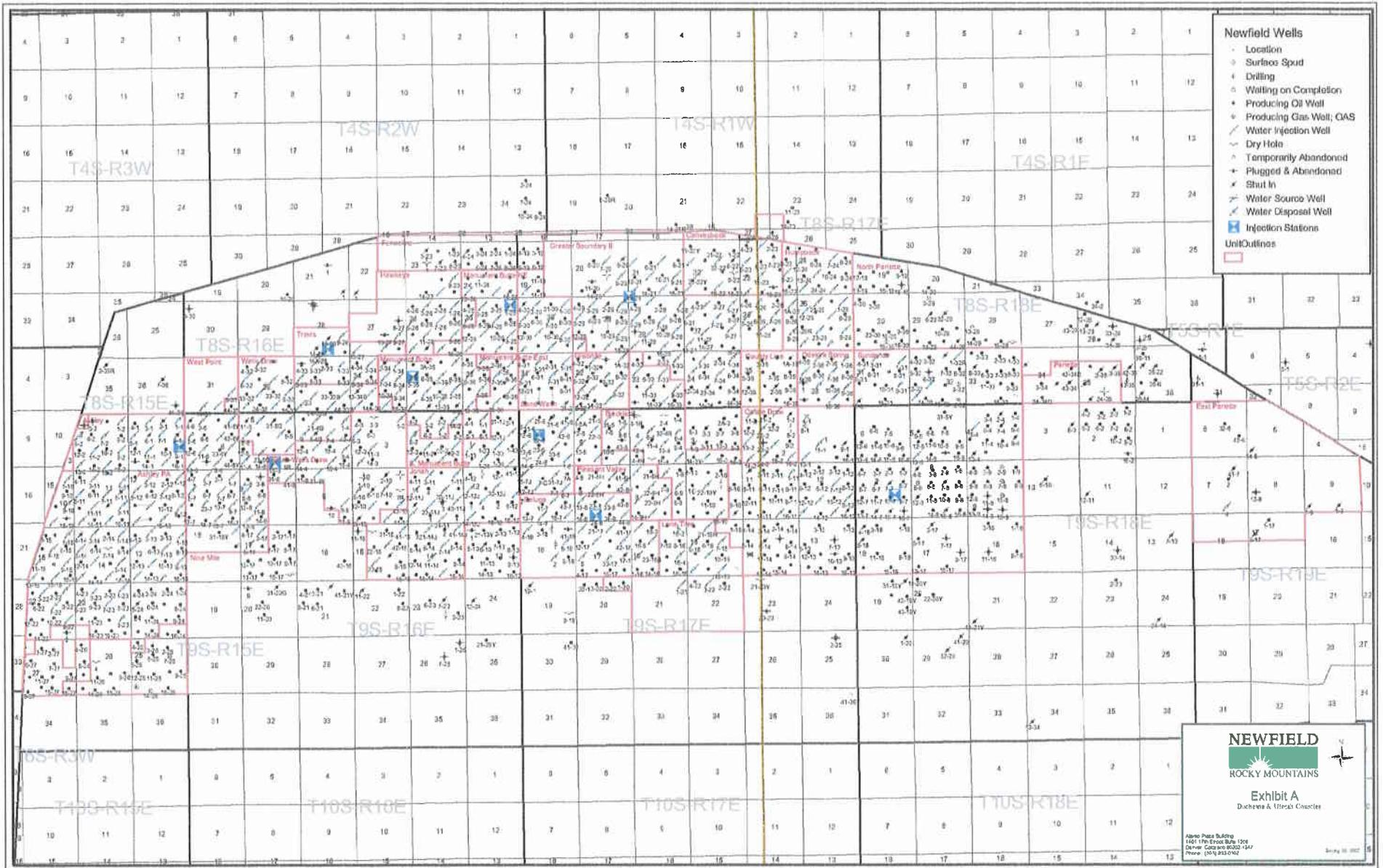
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DRAWN BY: mw
DATE: 02-27-2007

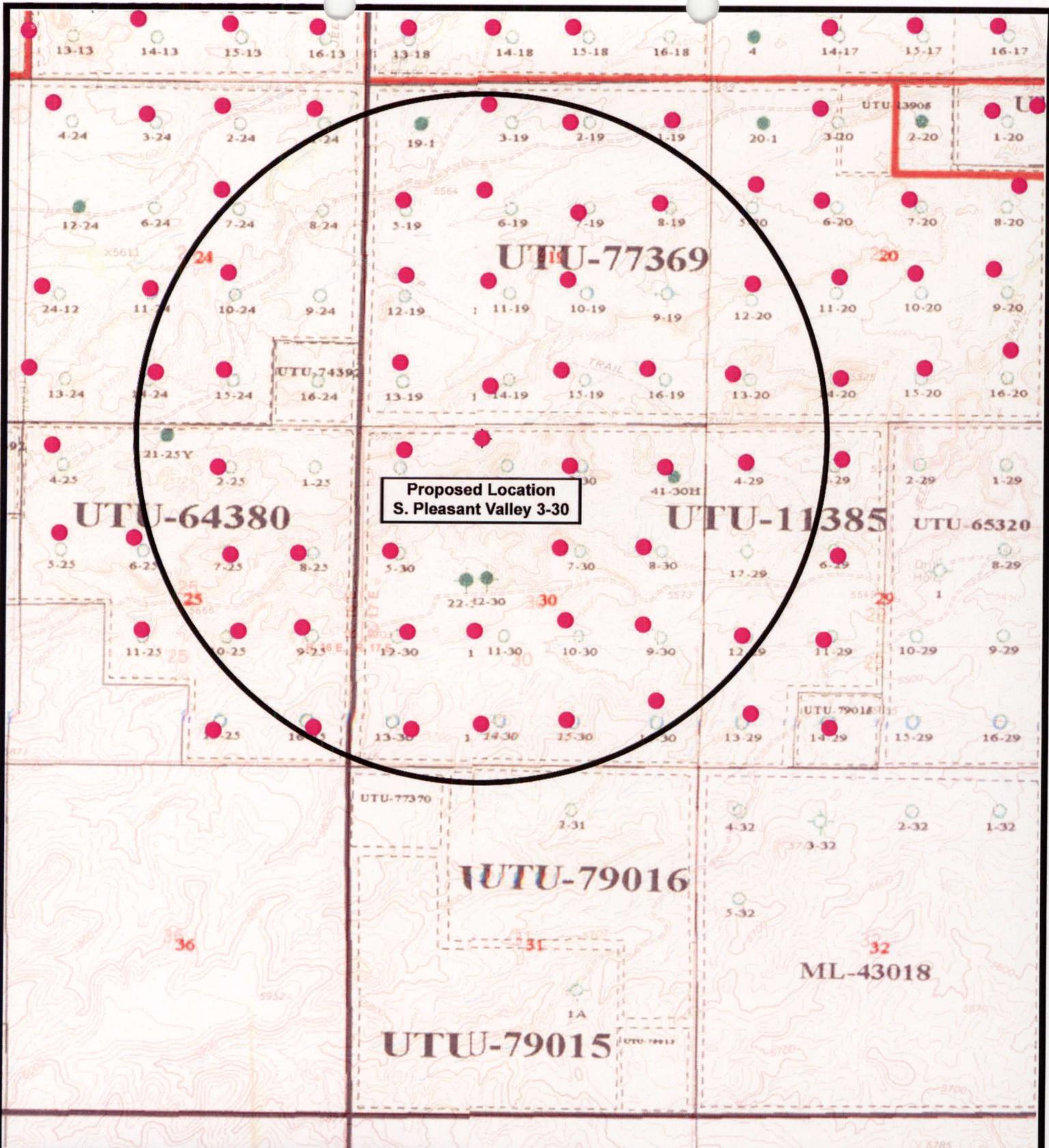
Legend

- Roads
- Proposed Gas Line
- Proposed Water Line

TOPOGRAPHIC MAP

"C"





Proposed Location
S. Pleasant Valley 3-30



NEWFIELD
Exploration Company



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

Legend

- Location
- One-Mile Radius

S. Pleasant Valley 3-30-9-17
SEC. 30, T9S, R17E, S.L.B.&M.

SCALE: 1" = 2,000'
DRAWN BY: mw
DATE: 02-27-2007

Exhibit "B"

2-M SYSTEM

Blowout Prevention Equipment Systems

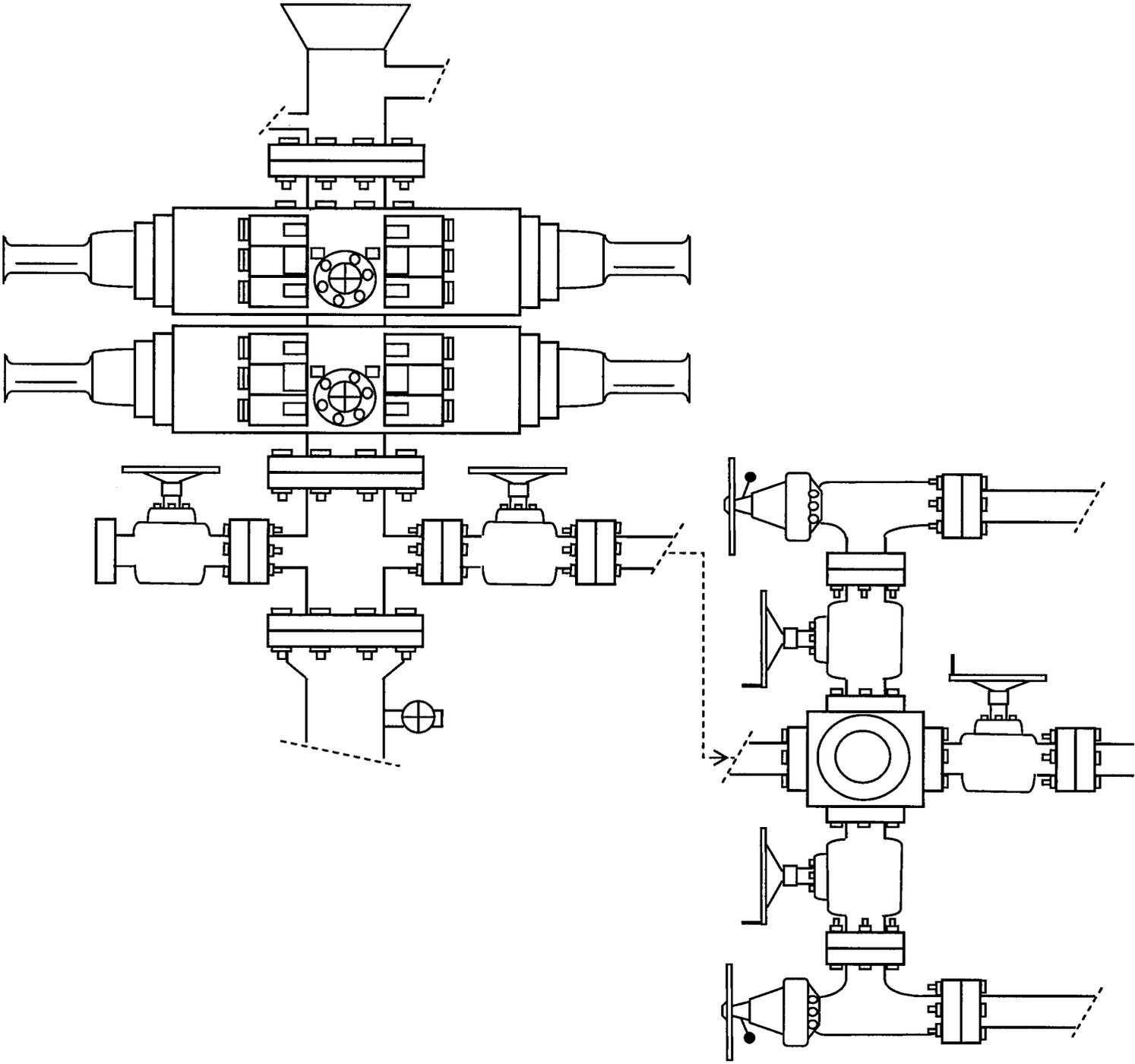


EXHIBIT C

Exhibit "D"

1 of 2

CULTURAL RESOURCE INVENTORY OF
NEWFIELD EXPLORATION'S TWO BLOCK PARCELS IN
TOWNSHIP 9 SOUTH, RANGE 17 EAST, SECTIONS 29 AND 30
DUCHESNE COUNTY, UTAH

By:

Jacki A. Montgomery

Prepared For:

Bureau of Land Management
Vernal Field Office

Prepared Under Contract With:

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

Prepared By:

Montgomery Archaeological Consultants, Inc.
P.O. Box 219
Moab, Utah 84532

MOAC Report No. 07-309

August 27, 2007

United States Department of Interior (FLPMA)
Permit No. 07-UT-60122

State of Utah Antiquities Project (Survey)
Permit No. U-07-MQ-1050b

2 of 2

NEWFIELD EXPLORATION COMPANY

**PALEONTOLOGICAL SURVEY OF PROPOSED
WELL PAD SITES (Section 29, T 9 S, R 17 E - excluding
5-29-9-17 & 7-29-9-17 [SW/NW & SW NE]; and (Section 30,
T 9 S, R 17 E - excluding 1-30-9-17 & 6-30-9-17 [NE/NE & SE/NW]**

DUCHESNE COUNTY, UTAH

REPORT OF SURVEY

Prepared for:

Newfield Exploration Company

Prepared by:

Wade E. Miller
May 17, 2007

**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 08/31/2007

API NO. ASSIGNED: 43-013-33772

WELL NAME: FEDERAL 3-30-9-17
 OPERATOR: NEWFIELD PRODUCTION (N2695)
 CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

NENW 30 090S 170E
 SURFACE: 0397 FNL 1980 FWL
 BOTTOM: 0397 FNL 1980 FWL
 COUNTY: DUCHESNE
 LATITUDE: 40.00807 LONGITUDE: -110.0506
 UTM SURF EASTINGS: 581037 NORTHINGS: 4428875
 FIELD NAME: MONUMENT BUTTE (105)

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

LEASE TYPE: 1 - Federal
 LEASE NUMBER: UTU-11385
 SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]
(No. UTB000192)
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit
(No. 43-10136)
- RDCC Review (Y/N)
(Date: _____)
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

LOCATION AND SITING:

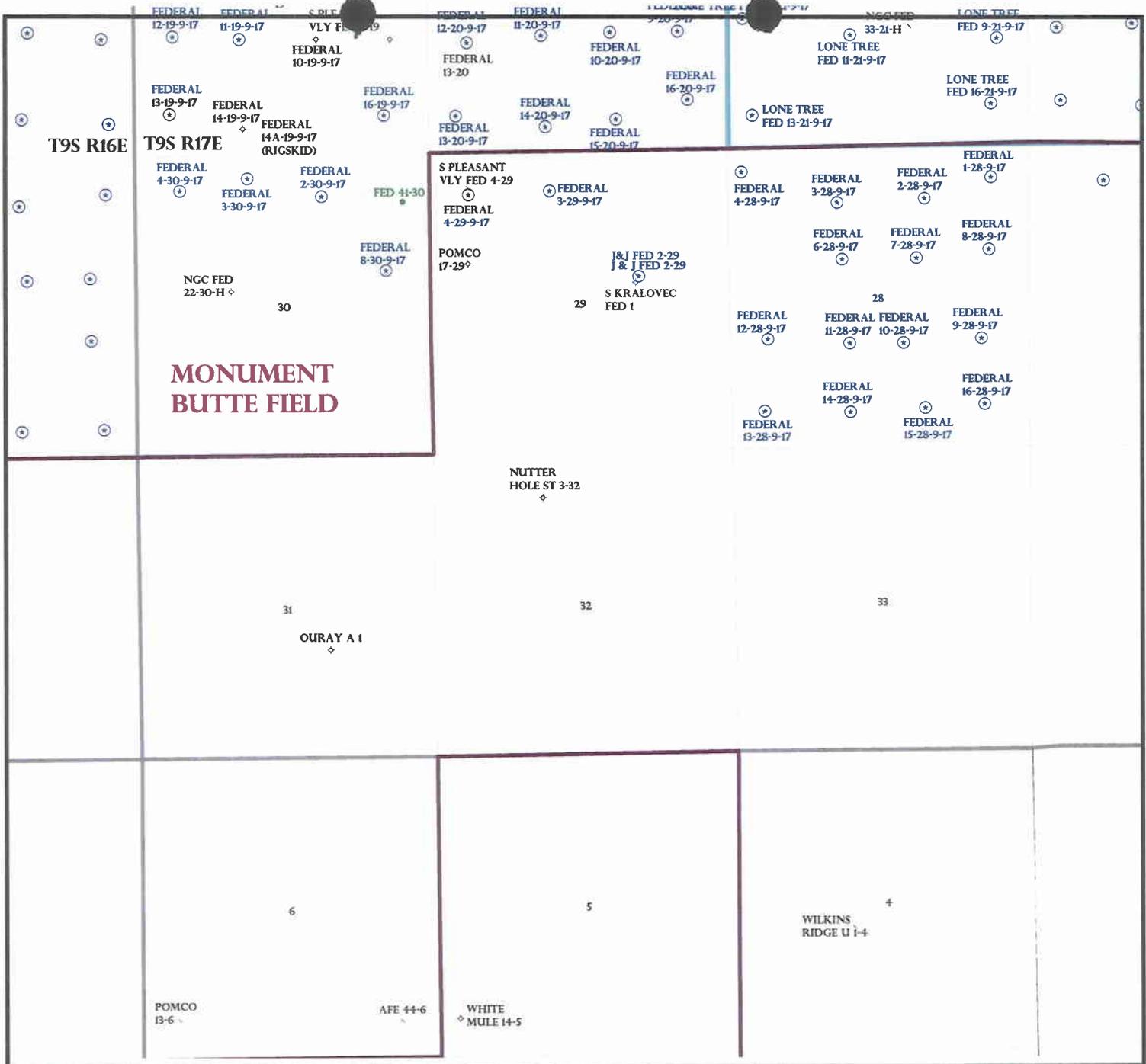
- ___ R649-2-3.
- Unit: _____
- ___ R649-3-2. General
- Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- ___ Drilling Unit
- Board Cause No: _____
- Eff Date: _____
- Siting: _____
- ___ R649-3-11. Directional Drill

COMMENTS:

Sop, Separate file

STIPULATIONS:

*1. Feder Approval
2. Specific Stop*



OPERATOR: NEWFIELD PROD CO (N2695)

SEC: 30 T.9S R.17E

FIELD: MONUMENT BUTTE (105)

COUNTY: DUCHESNE

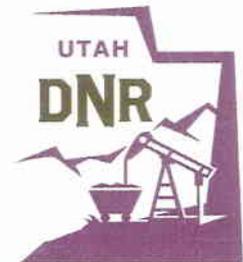
SPACING: R649-3-3 / EXCEPTION LOCATION

Field Status	
	ABANDONED
	ACTIVE
	COMBINED
	INACTIVE
	PROPOSED
	STORAGE
	TERMINATED

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

Wells Status

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



OIL, GAS & MINING



PREPARED BY: DIANA MASON
DATE: 7-SEPTEMBER-2007

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

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UTU-11385

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7. If Unit or CA Agreement, Name and No.
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8. Lease Name and Well No.
Federal 3-30-9-17

9. API Well No.

10. Field and Pool, or Exploratory
Monument Butte

11. Sec., T., R., M., or Blk. and Survey or Area
NE/NW Sec. 30, 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. *)
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At proposed prod. zone

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950.40

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UTB000192

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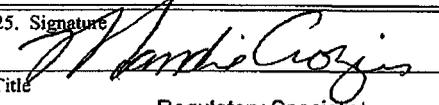
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4th Quarter 2007

23. Estimated duration
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24. Attachments

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- 5. Operator certification.
- 6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature:  Name (Printed/Typed): Mandie Crozier Date: 8/22/07

Title: Regulatory Specialist

Approved by (Signature): _____ Name (Printed/Typed): _____ Date: _____

Title: _____ Office: _____

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

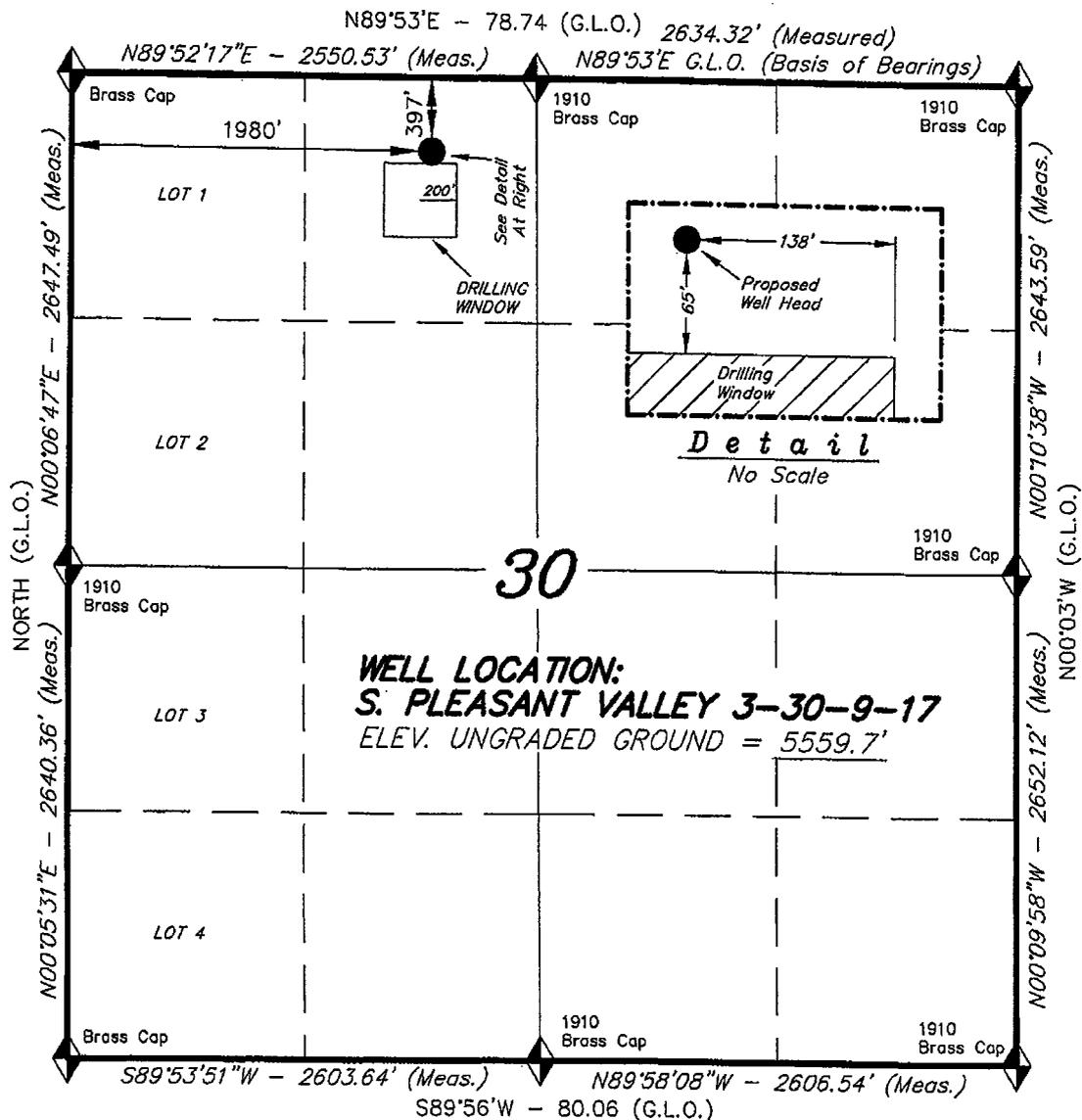
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on reverse)

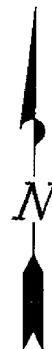
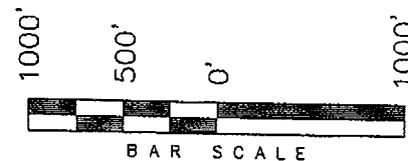
RECEIVED
SEP 17 2007
DIV. OF OIL, GAS & MINING

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

NEWFIELD PRODUCTION COMPANY



WELL LOCATION, S. PLEASANT VALLEY
3-30-9-17, LOCATED AS SHOWN IN THE
NE 1/4 NW 1/4 OF SECTION 30, 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. STUART
REGISTERED LAND SURVEYOR
REGISTRATION No. 22257
STATE OF UTAH

◆ = SECTION CORNERS LOCATED

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

S. PLEASANT VALLEY 3-30-9-17
(Surface Location) NAD 83
LATITUDE = 40° 00' 28.93"
LONGITUDE = 110° 03' 04.57"

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

DATE SURVEYED: 01-26-07	SURVEYED BY: C.M.
DATE DRAWN: 02-12-07	DRAWN BY: T.C.J.
REVISED:	SCALE: 1" = 1000'



September 11, 2007

State of Utah, Division of Oil, Gas & Mining
ATTN: Diana Mason
PO Box 145801
Salt Lake City, UT 84114-5801

RE: Exception Location
Federal 3-30-9-17
T9S R17E, Section 30: NE/4NW/4
397'FNL 1980' FWL
Duchesne County, Utah

Dear Ms. Mason;

Pursuant to Rule 649-3-3 of the Oil & Gas Rules and Regulations of the State of Utah, Newfield Production Company ("NPC") hereby requests an exception location for the drilling of the captioned well. The proposed drillsite for this well is located 65' to the north of the drilling window required by Rule R649-3-2, which requires a well to be located in the center of a forty (40) acre quarter-quarter section, or a substantially equivalent lot or tract, with a tolerance of two hundred (200) feet in any direction from the center.

The attached plat depicts the proposed location and illustrates the deviation from the drilling window. The requested location has been chosen due to issues with the terrain in the required drilling window.

Please note the drillsite and all surrounding acreage within a four hundred sixty (460) foot radius is owned 100% by NPC.

If you have any questions or require further information, please do not hesitate to contact the undersigned at 303-382-4444 or by email at reveland@newfield.com. Your consideration of this matter is greatly appreciated.

Sincerely,

A handwritten signature in cursive script that reads "Roxann Eveland".

Roxann Eveland
Land Associate

Attachment

RECEIVED

SEP 17 2007

DIV. OF OIL, GAS & MINING



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil Gas and Mining

JOHN R. BAZA
Division Director

September 17, 2007

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

Re: Federal 3-30-9-17 Well, 397' FNL, 1980' FWL, NE NW, Sec. 30, 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.

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

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-33772.

Sincerely,

For Gil Hunt
Associate Director

pab
Enclosures

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



Operator: Newfield Production Company

Well Name & Number Federal 3-30-9-17

API Number: 43-013-33772

Lease: UTU-11385

Location: NE NW **Sec.** 30 **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 Dustin Doucet at (801) 538-5281 (801) 733-0983 home

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.

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VERNAL FIELD OFFICE

2007 AUG 31 PM 1:40

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

DEPT. OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-11385
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator Newfield Production Company		7. If Unit or CA Agreement, Name and No. N/A
3a. Address Route #3 Box 3630, Myton UT 84052	3b. Phone No. (include area code) (435) 646-3721	8. Lease Name and Well No. Federal 3-30-9-17
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NE/NW 397' FNL 1980' FWL At proposed prod. zone		9. API Well No. 43-013-33772
14. Distance in miles and direction from nearest town or post office* Approximatley 18.1 miles southeast of Myton, Utah		10. Field and Pool, or Exploratory Monument Butte
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 397' f/lse, NA' f/unit	16. No. of Acres in lease 950.40	11. Sec., T., R., M., or Blk. and Survey or Area NE/NW Sec. 30, T9S R17E
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1384'	19. Proposed Depth 5640'	12. County or Parish Duchesne
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5560' GL	22. Approximate date work will start* 4th Quarter 2007	13. State UT
20. BLM/BIA Bond No. on file UTB000192		23. Estimated duration Approximately seven (7) days from spud to rig release.
24. Attachments		

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

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

25. Signature 	Name (Printed/Typed) Mandie Crozier	Date 8/22/07
Title Regulatory Specialist		
Approved by (Signature) 	Name (Printed/Typed) JERRY KENICKS	Date 7-14-2008
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

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

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

*(Instructions on reverse)

UDOGM

NOTICE OF APPROVAL

RECEIVED

JUL 16 2008

DIV. OF OIL, GAS & MINING

NOS 3/9/07
07PP 1553A



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

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	Newfield Production Company	Location:	NENW, Sec. 30, T9S, R17E
Well No:	Federal 3-30-9-17	Lease No:	UTU-11385
API No:	43-013-33772	Agreement:	N/A

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	James Ashley	(435) 781-4470	(435) 828-7874
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
Supervisory NRS:	Karl Wright	(435) 781-4484	(435) 828-7381
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	(435) 828-3544
NRS/Enviro Scientist:	James Hereford	(435) 781-3412	
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Dan Emmett	(435) 781-3414	
NRS/Enviro Scientist:	Paul Percival	(435) 781-4493	
NRS/Enviro Scientist:	Michael Cutler	(435) 781-3401	(435) 828-3546
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Darren Williams	(435) 781-4447	(435) 828-4029
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545

Fax: (435) 781-3420

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

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

NOTIFICATION REQUIREMENTS

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

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

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

STIPULATIONS:

1. None.

Lease Notices (field review and RMP):

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

Comments:

- The project area is designated as potential nesting habitat for Mountain Plover by the Division of Wildlife Resources. After ground truthing the location, it was found to be poor habitat due to the amount of hills and vegetation.

Follow-up Actions and/or Recommendations:

Please be aware that this Special Status Species wildlife clearance is effective for 1 year from the date of the onsite date. Any proposals submitted after the date of the onsite shall require additional surveys and clearances.

Based on the previous field exam and existing data, and if all timing restrictions are adhered to then, it is my opinion that a no effect situation exists for Special Status Wildlife Species with the construction and drilling of this proposed drill site. Therefore, this site is cleared from a Special Status Wildlife Species perspective.

CONDITIONS OF APPROVAL:

- **Avoid eligible cultural site: 42DC2354.**
- Pipelines will be buried at all major drainage crossings. For all pipelines crossing streams and/or floodplains, consult "Hydraulic Considerations for Pipelines Crossing Stream Channels" Tech Note 423 (<ftp://ftp.blm.gov/pub/nstc/TechNotes/TechNote423.pdf>). (i.e. Fed. 3-30-9-17 specifically).
- All traffic related to this action will be restricted to approved routes. Cross-country vehicle travel will not be allowed.

- All pipelines (surface and buried) will be laid within one 50' wide construction ROW, on one side of the road, and will reduce down to a 30' wide permanent ROW on lease.
- A temporary road ROW will not be granted. The road ROW will be 30 foot for construction and will reduce to an 18 foot running surface.
- The access road will be crowned and ditched. Flat-bladed roads are not allowed. All roads will have an 18', crowned (2 to 3% minimum), running surface. All roads will have drainage ditches along both sides of road.
- No vehicle travel, construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support vehicles and/or construction equipment. If such equipment creates ruts in excess of three inches deep, the soil shall be deemed too wet to adequately support construction equipment.
- If additional erosion occurs during the life of this project, more culverts, low water crossings, berms, wing ditches or etc. will be needed to control the erosion.
- Low-water crossings will be appropriately constructed to avoid sedimentation of drainage ways and other water resources.
- Prevent fill and stock piles from entering drainages.
- To insure impermeability, the reserve pit will be lined with a 16 ml or greater liner and felt prior to spudding.
- The liner is to be cut 5 feet below ground surface or at the level of the cuttings, whichever is deeper, and the excess liner material is to be disposed of at an authorized disposal site.
- When the reserve pit contains fluids or toxic substances, the operator must ensure animals do not ingest or become entrapped in pit fluids.
- Any hydrocarbons in the reserve pit will be removed **immediately** upon well completion; in accordance with 43 CFR 3162.7-1. Pits must be free of oil and other liquid and solid wastes prior to filling.
- Monument Butte SOP, Section 9.2 - Pit Fencing Minimum Standards - will be strictly adhered to. To include 9.2.2.3 - Corner posts will be cemented and/or braced in such a manner as to keep fence tight at all times.
- The authorized officer may prohibit surface disturbing activities during severe winter conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.

- The authorized officer may prohibit surface disturbing activities during wet or muddy conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
- All well facilities not regulated by OSHA will be painted Carlsbad Canyon.
- All boulders with a length or diameter greater than 3 feet, that are found showing at the surface, will be stockpiled for use during final reclamation.
- Notify the Authorized Officer 48 hours prior to surface disturbing activities.
- If Uinta Basin hookless cactus or other special status plants are found, construction will cease and the AO will be notified to determine the appropriate mitigation.
- 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 (or referenced in approved SOP), a detailed Interim and Final Surface Reclamation Plan for surface disturbance on well pads, access roads, and pipelines. If Reclamation Plan is acceptable, the AO will provide written approval or concurrence within 30 calendar days of receipt.

Interim Reclamation:

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

Seed mix:

Common name	Latin name	lbs/acre	Recommended seed planting depth
Squirreltail grass	<i>Elymus elymoides</i>	3.0	¼ - ½"
Siberian wheatgrass	<i>Agropyron fragile</i>	1.0	½"
Shadscale saltbush	<i>Atriplex confertifolia</i>	0.50	½"
Four-wing saltbush	<i>Atriplex canescens</i>	0.50	½"
Gardner's saltbush	<i>Atriplex gardneri</i>	0.50	½"
Scarlet globemallow	<i>Sphaeralcea coccinea</i>	0.10	⅛ - ¼"
Forage Kochia	<i>Kochia prostrata</i>	0.10	⅛ - ¼"

- All pounds are pure live seed.
 - All seed and mulch will be certified weed free.
 - Rates are set for drill seeding; double rate if broadcasting.
 - Reseeding may be required if initial seeding is not successful.
- Noxious and/or invasive weeds will be controlled along access roads, pipelines, well sites, and all other applicable facilities. Any noxious and/or invasive weeds outbreak, directly attributed to the activities of the Operator, will be the responsibility of the Operator to

control. On BLM administered land, a Pesticide Use Proposal (PUP) must be submitted and approved prior to the application of herbicides, pesticides, or other possibly hazardous chemicals.

Final reclamation:

Once the location is plugged and abandoned, the well location, access, and any disturbed areas shall be re-contoured to natural topography, topsoil shall be re-spread, and the entire location shall be seeded following guidelines in the seed mix bullet statement above. Final seed mix: same as interim.

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

SITE SPECIFIC DOWNHOLE COAs:

- Production casing cement shall be brought up and into the surface.
- Logging: Run gamma ray and electric logs from TD to surface casing.

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

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**

- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Wellogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.
- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

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

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-11385

6. If Indian, Allottee or Tribe Name
NA

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

8. Well Name and No.
FEDERAL 3-30-9-17

9. API Well No.
43-013-33772

10. Field and Pool, or Exploratory Area
MONUMENT BUTTE

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

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
NEWFIELD PRODUCTION COMPANY

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

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)
397 FNL 1980 FWL NE/NW Section 30, T9S R17E

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

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

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

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

Newfield Production Company requests to extend the Permit to Drill this well for one year.

This APD is not yet due to expire with the BLM.

Approved by the
Utah Division of
Oil, Gas and Mining

COPY SENT TO OPERATOR

Date: 9-3-2008
Initials: KS

Date: 09-02-08
By: [Signature]

RECEIVED
AUG 28 2008
DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct
Signed [Signature] Title Regulatory Specialist Date 8/27/2008
Mandie Crozier

CC: UTAH DOGM

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

CC: Utah DOGM

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

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

API: 43-013-33772
Well Name: Federal 3-30-9-17
Location: NE/NW Section 30,T9S R17E
Company Permit Issued to: Newfield Production Company
Date Original Permit Issued: 9/17/2007

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

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

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

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

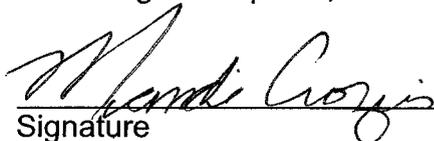
Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes No

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

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

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

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


Signature

8/27/2008
Date

Title: Regulatory Specialist

Representing: Newfield Production Company

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: NEWFIELD PRODUCTION COMPANY

Well Name: FEDERAL 3-30-9-17

Api No: 43-013-33772 Lease Type: FEDERAL

Section 30 Township 09S Range 17E County DUCHESNE

Drilling Contractor ROSS DRILLING RIG # 24

SPUDDED:

Date 09/22/08

Time 3:00 PM

How DRY

Drilling will Commence: _____

Reported by JOHNNY DAVIS

Telephone # (435) 823-3610

Date 09/23//08 Signed CHD

Daily Activity Report

Format For Sundry

FEDERAL 3-30-9-17**8/1/2008 To 12/30/2008****10/15/2008 Day: 1****Completion**

Rigless on 10/14/2008 - Instal 5K frac head. NU 6" 5K Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head, csg & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 5480' & cement top @ 110'. Perforate stage #1, LODC sds @ 4826-34' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°) w/ 4 spf for total of 32 shots. 132 bbls EWTR. SIFN.

10/22/2008 Day: 2**Completion**

Rigless on 10/21/2008 - Stage #1, LODC sands. RU BJ Services. 30 psi on well. Frac LODC w/ 24,947#'s of 20/40 sand in 367 bbls of Lightning 17 fluid. Broke @ 3416 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 2531 psi @ ave rate of 23.1 BPM. Pumped 504 gals of 15% HCL in flush for Stage #2. ISIP 2763 psi. Leave pressure on well. 499 BWTR Stage #2, A1 sands. RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 16' perf gun. Set plug @ 4750'. Perforate A1 sds @ 4690-4706' w/ 3 1/8" slick guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 64 shots. RU BJ Services. 2440 psi on well. Frac A1 sds w/ 40,501#'s of 20/40 sand in 400 bbls of Lightning 17 fluid. Broke @ 3765 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1652 psi @ ave rate of 23 BPM. Pumped 504 gals of 15% HCL in flush for Stage #3. ISIP 1879 psi. Leave pressure on well. 899 BWTR. Stage #3, B2 sands. RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 10' perf gun. Set plug @ 4630'. Perforate B2 sds @ 4574-84' w/ 3 1/8" slick guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 40 shots. RU BJ Services. 1620 psi on well. Frac B2 sds w/ 35,544#'s of 20/40 sand in 379 bbls of Lightning 17 fluid. Broke @ 3869 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1789 psi @ ave rate of 23.1 BPM. Pumped 504 gals of 15% HCL in flush for Stage #4. ISIP 1911 psi. Leave pressure on well. 1278 BWTR. Stage #4, D2 & D3 sands. RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug, 6' & 6' perf gun. Set plug @ 4450'. Perforate D3 sds @ 4364-70', D2 sds @ 4330-36' w/ 3 1/8" slick guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 48 shots. RU BJ Services. 1694 psi on well. Frac D2 & D3 sds w/ 25,974#'s of 20/40 sand in 356 bbls of Lightning 17 fluid. Broke @ 3659 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1752 psi @ ave rate of 23.1 BPM. ISIP 1681 psi. Begin immediate flowback on 20/64 choke @ 3 BPM. Flowed for 5 1/2 hrs & died. Rec 861 BTF. SIWFN w/ 773 BWTR.

10/23/2008 Day: 3**Completion**

Leed #731 on 10/22/2008 - MIRU Leed 712. 25 psi on well. Bleed off pressure. ND Cameron BOP & 5M WH. NU 3M WH & Shaffer BOP. Talley, PU & RIH w/ 4 3/4" Hurricane bit, Bit sub & 140 jts of 2 7/8" J-55 tbg. EOT @ 4410'. Circulate well clean. SIWFN w/ 746 BWTR.

10/25/2008 Day: 4**Completion**

Leed #731 on 10/24/2008 - 50 psi on well. Bleed off pressure. RU 4- star power swivel. Circulate sand & drill out plugs. Sand @ 4430', Plug @ 4450' (Drilled up in 15 mins). Sand @ 4626', Plug @ 4630' (Drilled up in 35 mins), Sand @ 4742', Plug @ 4750' (Drilled up in 55 mins). Tagged sand @ 5454'. C/O to PBD @ 5529'. LD 2-jts of tbg. EOT @ 5475'. RU swab equipment. IFL @ sfc. Made 9 runs, Rec 140 BTF. FFL @ 800'. Trace of oil, No sand. RD swab. TIH w/ tbg. Tagged fill @ 5528'. C/O to PBD @ 5529'. LD 3 jts of tbg. TOH w/ 40 jts of tbg. EOT @ 4196'. SIWFN w/ 725 BWTR.

10/28/2008 Day: 5

Completion

Leed #731 on 10/27/2008 - 0 psi on well. Bleed off pressure. Continue to TOH w/ tbg. LD bit & bit sub. TIH w/ production tbg as follows: NC, 2-jts, SN, 1-jt, TA & 156 jts of tbg. ND BOP. Set TA w/ 16,000#'s of tension @ 4817.16', SN @ 4850.96', EOT @ 4914.84'. NU WH. Flush tbg w/ 60 BW. Prime rod pump. PU & RIH w/ rods as follows: CDI 2 1/2" X 1 1/2" X 20' RHAC, 6- wt bars, 20- 3/4" guided rods, 68- 3/4" plain rod, 99- 3/4" guided rods, 1 1/2" X 26' Polish rod. Hang head, Space out rods. Pressure test to 800 psi. POP @ 7:00 PM w/ 5 SPM @ 102" SL. 785 BWTR. FINAL REPORT!!!

Pertinent Files: Go to File List

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NOV 25 2008

DIV. OF OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
UTU-11385

a. Type of Well Oil Well Gas Well Dry Other
b. Type of Completion: New Well Work Over Deepen Plug Back Diff. Resvr.,
Other: _____

6. If Indian, Allottee or Tribe Name
NA
7. Unit or CA Agreement Name and No.
FEDERAL
8. Lease Name and Well No.
FEDERAL 3-30-9-17

2. Name of Operator
NEWFIELD EXPLORATION COMPANY

3. Address 1401 17TH ST. SUITE 1000 DENVER, CO 80202 3a. Phone No. (include area code)
(435)646-3721

9. AFI Well No.
43-013-33772

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

At surface ~~379~~ FNL & 1980' FWL (NE/NW) SEC. 30, T9S, R17E

397

At top prod. interval reported below

At total depth 5575'

10. Field and Pool or Exploratory
MONUMENT BUTTE
11. Sec., T., R., M., on Block and
Survey or Area
SEC. 30, T9S, R17E

12. County or Parish DUCHESNE 13. State
UT

14. Date Spudded 09/22/2008 15. Date T.D. Reached 10/03/2008 16. Date Completed 10/30/2008
 D & A Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
5560' GL 5572' KB

18. Total Depth: MD 5575' TVD 19. Plug Back T.D.: MD 5529' TVD 20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
DUAL IND GRD, SP, COMP. DENSITY, COMP. NEUTRON, GR, CALIPER, CMT BOND
22. Was well cored? No Yes (Submit analysis)
Was DST run? No Yes (Submit report)
Directional Survey? No Yes (Submit copy)

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24#		332'		160 CLASS G		110'	
7-7/8"	5-1/2" J-55	15.5#		5572'		300 PRIMLITE			
						400 50/50 POZ			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8"	EOT@ 4914'	TA @ 4817'						

25. Producing Intervals

Formation	Top	Bottom	Perforation Record	Size	No. Holes	Perf. Status
A) GRDV			(LODC) 4826-4834'	.49"	4	32
B) per operator			(A1)4690-4706'	.49"	4	64
C)			(B2) 4575-4584'	.49"	4	40
D)			(D3) 4364-70'(D2)4330-36'	.49"	4	48

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

Depth Interval	Amount and Type of Material
4826-4834'	Frac w/ 24947# of 20/40 snd 367 bbls fluid
4690-4706'	Frac w/ 40501# 20/40 snd 400 bbls fluid
4575-4584'	Frac w/ 35544# 20/40 snd 379 bbls fluid
4330-4370'	Frac w/ 25974# 20/40 snd 356 bbls fluid

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
10/27/08	11/08/08	24	→	43	35	28			2-1/2" x 1-1/2" x 14' x 18' RHAC Rod Pump
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→					PRODUCING	

28a. Production - Interval B

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

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NOV 25 2008

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

28b. Production - Interval C

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

28c. Production - Interval D

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

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

USED FOR FUEL

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GARDEN GULCH MRK GARDEN GULCH 1	3282' 3484'
				GARDEN GULCH 2 POINT 3	3594' 3930'
				X MRKR Y MRKR	4102' 4135'
				DOUGALS CREEK MRK BI CARBONATE MRK	4258' 4486'
				B LIMESTON MRK CASTLE PEAK	4589' 5110'
				BASAL CARBONATE TOTAL DEPTH (LOGGERS)	5534' 5577'

32. Additional remarks (include plugging procedure):

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

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

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

Name (please print) Tammi Lee Title Production Clerk
 Signature *Tammi Lee* Date 11/18/2008

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.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-11385
SUNDRY NOTICES AND REPORTS ON WELLS		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
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.		7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: FEDERAL 3-30-9-17
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		9. API NUMBER: 43013337720000
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052	PHONE NUMBER: 435 646-4825 Ext	9. FIELD and POOL or WILDCAT: MONUMENT BUTTE
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0397 FNL 1980 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 30 Township: 09.0S Range: 17.0E Meridian: S		COUNTY: DUCHESNE
		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/6/2012 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input checked="" type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER	
		<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input checked="" type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
<p>The subject well has been converted from a producing oil well to an injection well on 11/05/2012. On 10/30/2012 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 11/06/2012 the casing was pressured up to 1710 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 140 psig during the test. There was not an EPA representative available to witness the test. EPA# UT22242-09694</p>		<p>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY November 13, 2012</p>
NAME (PLEASE PRINT) Lucy Chavez-Naupoto	PHONE NUMBER 435 646-4874	TITLE Water Services Technician
SIGNATURE N/A		DATE 11/9/2012

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

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

EPA Witness: _____ Date: 11 / 6 / 2012
 Test conducted by: Cody Marx
 Others present: _____

Well Name: <u>Federal 3-30-9-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Monument Butte</u>		
Location: <u>NE/NW</u> Sec: <u>30</u> T: <u>9</u> N: <u>(S)</u> R: <u>17</u> E/W	County: <u>Duchesne</u>	State: <u>UT</u>
Operator: <u>Cody Marx</u>		
Last MIT: <u>/ /</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: 1710 psig

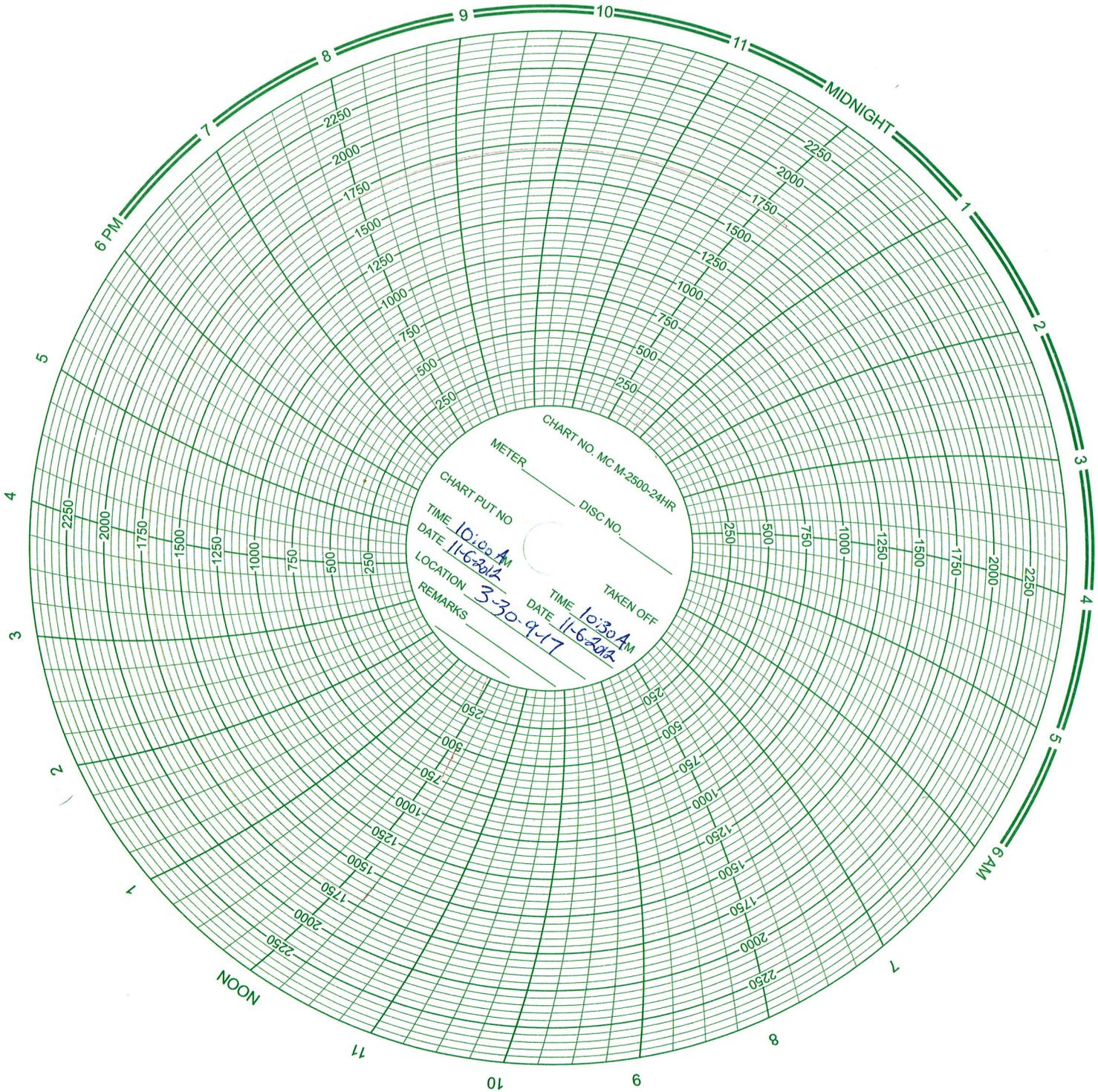
MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING PRESSURE			
Initial Pressure	<u>140</u> psig	psig	psig
End of test pressure	<u>140</u> psig	psig	psig
CASING / TUBING ANNULUS PRESSURE			
0 minutes	<u>1710</u> psig	psig	psig
5 minutes	<u>1710</u> psig	psig	psig
10 minutes	<u>1710</u> psig	psig	psig
15 minutes	<u>1710</u> psig	psig	psig
20 minutes	<u>1710</u> psig	psig	psig
25 minutes	<u>1710</u> psig	psig	psig
30 minutes	<u>1710</u> psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
RESULT	<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 3-30-9-17

9/1/2012 To 1/30/2013

10/30/2012 Day: 1

Conversion

NC #2 on 10/30/2012 - MIRUSU, L/D Rods - 5:30 To 6:00 AM C/Trvl, 6:00 AM OWU, Rig Maintenance, MIRUSU, R/U H/Oiler To Csg, Pmp 60 Bbls Wtr, R/D Pmp Unit, Unseat Rod Pmp, R/U H/Oiler To Tbg, Flush Rods W/- 40 Bbls Wtr, Reseat Pmp, Try To R/U Wellhead To Pressure Test Tbg, Flow T Is Gouled To B1 Adapter, Try And Break Out Flow T, SWI, CSDFN @ 6:30 PM, 6:30 To 7:00 PM C/Trvl.

Daily Cost: \$0

Cumulative Cost: \$9,210

10/31/2012 Day: 2

Conversion

NC #2 on 10/31/2012 - Finish L/D Rods, R/U BOPS - 5:30 To 6:00 AM C/Trvl, 6:00 AM OWU, Rig Maintenance, Try To Break Off Flow T, Could Not, L/D W/- 1- 2' x 3/4" Pony Sub, 1 1/2" x 26' Polished Rod, 1- 2', 1- 4', 1- 6' x 3/4" Pony Subs, 99- 3/4" Guided Rods, 68- 3/4" Plain Rods, 20- 3/4" Guided Rods, 6- 1 1/2" x 25' Wt Bars, Rod Pump, CSDFN @ 5:00 PM, 5:00 To 5:30 PM C/Trvl.

Daily Cost: \$0

Cumulative Cost: \$15,680

11/1/2012 Day: 3

Conversion

NC #2 on 11/1/2012 - POOH W/- Tbg Breaking & Dopeing - 5:30 To 6:00 AM C/Trvl, 6:00 AM OWU, X - Over For Tbg, R/U RBS Tbg Spear, Pull Up On Flow T & B1 Adaptor, R/D Wellhead, R/U Weatherford BOPS, R/U Workfloor, Release TA, 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, P/U & TIH W/- 15 Jts Tbg, Tag PBSD, No New Fill, L/D 15 Jts Tbg, POOH W/- 104 Jts Tbg, Breaking & Dopeing Every Connection, SWI, CSDFN @ 6:30 PM, 6:30 To 7:00 PM C/Trvl.

Daily Cost: \$0

Cumulative Cost: \$23,952

11/2/2012 Day: 4

Conversion

NC #2 on 11/2/2012 - Pressure Test Tbg - 5:30 To 6:00 AM C/Trvl, 6:00 AM OWU, POOH W/- 35 Jts Tbg Breaking & Dopeing Every Connection, R/U H/Oiler To Tbg, Flush W/- 20 Bbls Wtr, POOH & L/D 20- Jts Tbg, P/U & TIH W/- 2 3/8" Wireline Re-Entry Guide, 2 3/8" x 1.875 "XN" Profile Nipple, 4' x 2 3/8" Tbg Sub, 2 7/8" x 2 3/8" X - Over, 5 1/2" Weatherford Arrowset Pkr, On/Off Tool W/- 1.875 "X" Profile Nipple, SN, 139- Jts Tbg, R/U H/Oiler To Tbg, Pmp 20 Bbls Wtr, Drop Stnd Vlve, Pressure Test Tbg To 3,000 Psi For 1 Hr, No Test, Bump Back Up A Couple Of Times, Still No Test, Fish Stnd Vlve, Drop NEw Stnd Vlve, Pmp Back Up To 3,000 Psi, Test Over The Weekend, CSDFN @ 7:00 PM, 7:00 To 7:30 PM C/Trvl.

Daily Cost: \$0

Cumulative Cost: \$35,091

11/5/2012 Day: 5

Conversion

NC #2 on 11/5/2012 - Finish Testing Tbg, Pressure Test Csg - 5:30 To 6:00 AM C/Trvl, 6:00 AM OWU, Tbg Bled Off 210 Psi, Bump Back Up To 3,000 Psi, Hold For 1 Hr, Good Test, R/U Sandline, Fish Stnd Vlve, R/D Sandline, R/D Workfloor, R/D Weatherford BOPS, R/U Injection Tree, R/D H/Oiler To Csg, Pmp 70 Bbls Fresh Wtr & Pkr Fluid, R/D Inj. Tree, Set Pkr, R/U Inj. Tree, Pressure Test Csg To 1,500 Psi, Hold For 1 Hr, Good Test, R/D NC #2, Well Ready For MIT.

Daily Cost: \$0

Cumulative Cost: \$52,791

11/7/2012 Day: 6

Conversion

Rigless on 11/7/2012 - Conduct initial MIT - On 10/30/2012 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 11/06/2012 the casing was pressured up to 1710 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 140 psig during the test. There was not an EPA representative available to witness the test. EPA# UT22242-09694 **Finalized**

Daily Cost: \$0

Cumulative Cost: \$138,025

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 12 2012

Ref: 8P-W-UIC

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

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

RECEIVED

OCT 24 2012

DIV. OF OIL, GAS & MINING

Accepted by the
Utah Division of
Oil, Gas and Mining

FOR RECORD ONLY

Re: FINAL Permit
EPA UIC Permit UT22242-09694
Well: Federal 3-30-9-17
NENW Sec. 30-T9S-R17E
Duchesne County, UT
API No.: 4301333772

Dear Mr. Sundberg:

Enclosed is your copy of the FINAL Underground Injection Control (UIC) Program Permit for the proposed Federal 3-30-9-17 injection well. A Statement of Basis that discusses the conditions and requirements of this Environmental Protection Agency (EPA) UIC Permit, is also included.

SEP 19 2012

The public comment period for this permit ended on SEP 19 2012. 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,



for 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.
Ute Indian Tribe

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. UT22242-09694

Class II Enhanced Oil Recovery Injection Well

**Federal 3-30-9-17
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 3-30-9-17
379' FNL & 1980' FWL, NENW S30, 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 12 2012 Effective Date OCT 12 2012


for 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 3-30-9-17 was drilled to total depth of 5,575 feet in the Basal Carbonate Member of the Green River Formation.

Surface casing (8-5/8 inch) was set at a depth of 333 feet (GL) 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 5,572 feet (KB) in a 7-7/8 inch hole with 700 sacks of cement. Well construction is considered adequate to protect all USDWs. Top of cement by CBL at 110 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 3,593 feet and the top of the Wasatch Formation (Estimated to be 5,660 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 3-30-9-17

Spud Date: 9/22/08
 Put on Production: 10/27/08
 GL: 5560' KB:5572'

Proposed Injection Wellbore Diagram

SURFACE CASING

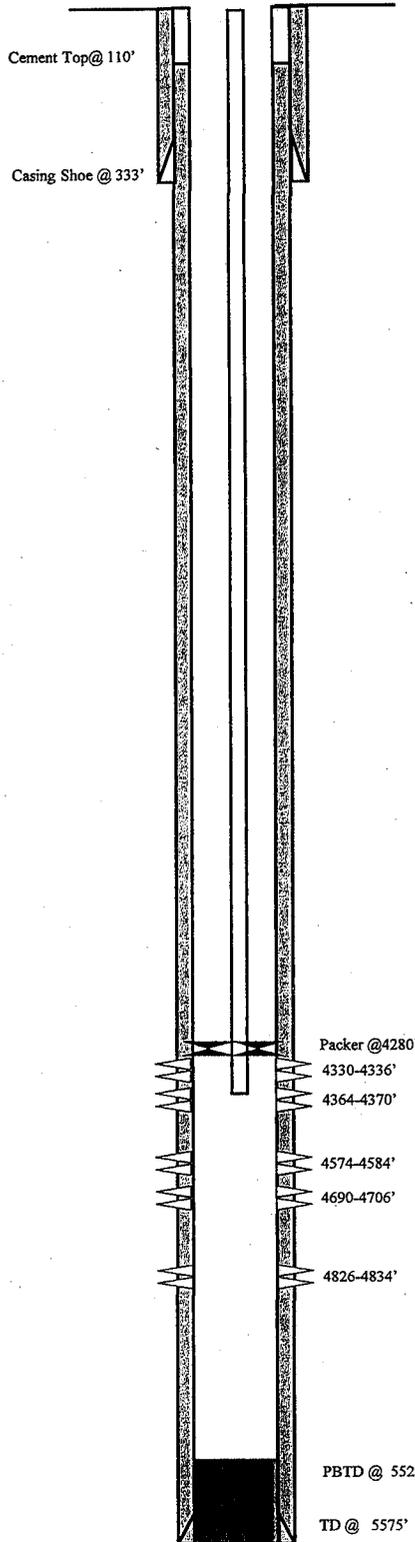
CSG SIZE: 8 5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 8 jts. (322.89')
 DEPTH LANDED: 332.89' KB
 HOLE SIZE: 12 1/4"
 CEMENT DATA: 160 sx/ Class "G" cement

PRODUCTION CASING

CSG SIZE: 5 1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 143 jts. (5573.94')
 DEPTH LANDED: 5571.94' KB
 HOLE SIZE: 7 7/8"
 CEMENT DATA: 300 sx/ of Premlite & 400sx/ 50/50 poz
 CEMENT TOP AT: 110'

TUBING

SIZE/GRADE/WT.: 2 7/8" / J-55 / 6.5#
 NO. OF JOINTS: 156 jts (5336.49')
 TUBING ANCHOR: 4817.16' KB
 NO. OF JOINTS: 1 jt (31.05')
 SEATING NIPPLE: 2 7/8" (1.10')
 SN LANDED AT: 4850.96' KB
 NO. OF JOINTS: 2 jts (62.33')
 TOTAL STRING LENGTH: EOT @ 4914.84'



FRAC JOB

10/21/08 4826-4834' **Frac LODC sds as follows:**
 Frac w/ 24,947# 20/40 sand in 367 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2531 psi @ ave rate of 23.1 BPM. Pumped 504 gals of 15% HCL in flush for Stage #2. ISIP 2763 psi. Actual flush: 4297 gals.

10/21/08 4690-4706' **Frac A1 sds as follows:**
 Frac w/40,501# 20/40 sand in 400 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1652 psi @ ave rate of 23 BPM. Pumped 504 gals of 15% HCL in flush for Stage #3. ISIP 1879 psi. Actual flush: 4179 gals.

10/21/08 4574-4584' **Frac B2 sds as follows:**
 Frac w/ 35,544# 20/40 sand in 379 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1789 psi @ ave rate of 23.1 BPM. Pumped 504 gals of 15% HCL in flush for Stage #4. ISIP 1911 psi. Actual flush: 4070 gals.

10/21/08 4330-4336' **Frac D2 & D3 sds as follows:**
 Frac w/25,974# 20/40 sand in 356 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1752 psi @ ave rate of 23.1 BPM. ISIP 1681 psi. Actual flush: 4284 gals.

PERFORATION RECORD

Date	Interval	Tool	Holes
10/21/08	4330-4336'	4 JSPF	24 holes
10/21/08	4364-4370'	4 JSPF	24 holes
10/21/08	4574-4584'	4 JSPF	40 holes
10/21/08	4690-4706'	4 JSPF	64 holes
10/21/08	4826-4834'	4 JSPF	32 holes

NEWFIELD

Federal 3-30-9-17
 379' FNL & 1980' FWL
 NE/NW Section 30-T9S-R17E
 Duchesne Co, Utah
 API #43-013-33772; Lease #UTU- 11385

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 3-30-9-17

TYPE OF TEST	DATE DUE
Standard Annulus Pressure	Prior to receiving authorization to inject and at least once within any five year period following the last successful pressure 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 3-30-9-17	930

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 3-30-9-17	APPROVED INJECTION INTERVAL (KB, ft)		FRACTURE GRADIENT (psi/ft)
	TOP	BOTTOM	
FORMATION NAME			
Green River	3.593.00	5.660.00	0.655

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:

WELL NAME: Federal 3-30-9-17	
FORMATION NAME	MAXIMUM VOLUME LIMIT (bbls)
Green River	

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	
OBSERVE AND RECORD	Injection pressure (psig)
	Annulus pressure(s) (psig)
	Injection rate (bbl/day)
	Fluid volume injected since the well began injecting (bbls)
ANNUALLY	
ANALYZE	Injected fluid total dissolved solids (mg/l)
	Injected fluid specific gravity
	Injected fluid specific conductivity
	Injected fluid pH
ANNUALLY	
REPORT	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

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.

APPENDIX F

CORRECTIVE ACTION REQUIREMENTS

No corrective action is deemed necessary for this project.

STATEMENT OF BASIS

NEWFIELD PRODUCTION CO.

**FEDERAL 3-30-9-17
DUCHESNE COUNTY, UT**

EPA PERMIT NO. UT22242-09694

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

June 15, 2012

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

Federal 3-30-9-17
379' FNL & 1980' FWL, NENW S30, 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 3-30-9-17 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 oil well to a Class II enhanced recovery injection well.

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 3-30-9-17**

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	Lithology
Uinta: Public. 92	0	1,060	< 10,000	Sand, shale, carbonate.
Uinta	1,060	1,167	< 10,000	Sand, shale, carbonate
Green River	1,167	2,519		Sand, shale, carbonate.
Green River: Trona.	2,519	2,567		Sand, shale, carbonate.
Green River: Mahogany Bench	2,567	2,588		Shale.
Green River.	2,588	3,593		Sand, shale, carbonate.
Green River: Garden Gulch Marker	3,280	3,483		Sand, shale, carbonate.
Green River: Garden Gulch 1	3,483	3,593		Sand, shale, carbonate.
Green River: Garden Gulch 2.	3,593	4,255	6,571	Sand, shale, carbonate.
Green River: Douglas Creek Member,	4,255	5,535	6,571	Sand, shale, carbonate.
Green River: Basal Carbonate.	5,535	5,660		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 (3,593 feet.) and the top of the Wasatch Formation which has an estimated top of 5,660 feet..

**TABLE 2.2
INJECTION ZONES
Federal 3-30-9-17**

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	Fracture Gradient (psi/ft)	Porosity	Exempted?*
Green River	3,593	5,660	6,571	0.655		P

* 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 3,104 feet and 3,593 feet.

**TABLE 2.3
CONFINING ZONES
Federal 3-30-9-17**

Formation Name	Formation Lithology	Top (ft)	Base (ft)
Green River: Garden Gulch	Sand, shale, carbonate.	3,104	3,593

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 3-30-9-17.

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 1,060 feet from the surface.

Absent definitive analyses of waters within the Uinta Formation (1060 feet to the top of the Green River Formation at 1,167 feet), this interval 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 3-30-9-17

Formation Name	Formation Lithology	Top (ft)	Base (ft)	TDS (mg/l)
Uinta: Public. 92:	Sand and shale.	0	1,060	< 10,000
Uinta	Sand, shale, carbonate.	1,060	1,167	< 10,000

Exempted Aquifer(s) (40 CFR 144.7 and 146.4)

Aquifers exempted from protection as a USDW are listed in TABLE 2.5. Exempted is that portion of the aquifer between the depths listed ("TOP" and "BASE") and within the Exempted Radius of the well's surface location, or for an Area Permit, one-quarter (1/4) mile exterior to the defined Area Permit boundary. "Criteria" corresponds to the appropriate criteria (below) for exemption. "VOLUME" is the maximum volume of fluid which can be injected into the exempted area before the injected fluids exceed the exemption boundary, calculated using the following formula:

$$V = \text{Pi} * \text{radius}^2 * \text{height} * \text{porosity} / 5.615$$

where V = VOLUME (in barrels)

Pi = 3.1416

radius² = Exempted Radius (squared) - generally 1/4 mile

height = height of reservoir ("BOTTOM" - "TOP")

porosity = reservoir porosity (in percent)

5.615 = conversion factor (cubic feet per barrel)

TABLE 2.5
AQUIFER EXEMPTION
 Federal 3-30-9-17

Formation Name	Top (ft)	Base (ft)	Criteria	Volume (bbl)
Green River	3,593	5,660	c	

An aquifer or a portion thereof may be determined to be an "exempted aquifer" provided it meets criteria, listed below.

- a It does not currently serve as a source of drinking water; AND
- b(1) It cannot now and will not in the future serve as a source of drinking water because it is mineral, hydrocarbon, or geothermal energy producing, or can be demonstrated by a permit applicant as part of a permit for a Class II or III operation to contain minerals or hydrocarbons that considering their quantity and location are expected to be commercially producible; OR
- b(2) It cannot now and will not in the future serve as a source of drinking water because it is situated at a depth or location which makes recovery of water for

drinking water purposes economically or technically impractical; OR

- b(3) It cannot now and will not in the future serve as a source of drinking water because it is so contaminated that it would be economically or technologically impractical to render that water fit for human consumption; OR
- b(4) It cannot now and will not in the future serve as a source of drinking water because it is located over a Class III well mining area subject to subsidence or catastrophic collapse; OR
- c The total dissolved solids content of the ground water is more than 3,000 and less than 10,000 mg/l and it is not reasonably expected to supply a public water system.

PART III. Well Construction (40 CFR 146.22)

The Federal 3-30-9-17 was drilled to total depth of 5,575 feet in the Basal Carbonate Member of the Green River Formation.

Surface casing (8-5/8 inch) was set at a depth of 333 feet (GL) 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, 572 feet (KB) in a 7-7/8 inch hole with 700 sacks of cement. Well construction is considered adequate to protect all USDWs. Top of cement by CBL at 110 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 3,593 feet and the top of the Wasatch Formation (Estimated to be 5,660 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 3-30-9-17

Casing Type	Hole Size (in)	Casing Size (in)	Cased Interval (ft)	Cemented Interval (ft)
Longstring	7.88	5.50	0 - 5,572	110 - 5,575
Surface	12.25	8.63	0 - 333	0 - 333

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 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.

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 the Johnson Water District Reservoir and/or water from the Green River and/or produced water from Green River Formation oil wells proximate to the Federal 3-30-9-17.

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 3,593 feet to the top of the Wasatch Formation which is estimated to be 5,660 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.

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, whichever 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.

UNDERGROUND INJECTION CONTROL PROGRAM

AQUIFER EXEMPTION

EPA PERMIT NO. UT22242-09694

Newfield Production Co.

TABLE 1.1
AQUIFER EXEMPTION PROPOSAL(S)
Federal 3-30-9-17

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)
Green River	3,593.00	5,660.00	6,571.48

The formation listed above is hereby exempted from protection as an underground source of drinking water (USDW) in compliance with provisions of the Safe Drinking Water Act as amended (42 USC 300f-300j-9, commonly known as the SDWA) and attendant regulations at Title 40 of the Code of Federal Regulations, within the subsurface interval shown and within a 1/4 mile radial distance from the surface location of the:

Federal 3-30-9-17
Monument Butte (Duchesne)
379' FNL & 1980' FWL, NENW S30, T9S, R17E
Duchesne County, UT

This aquifer exemption is granted in conjunction with an Underground Injection Control Permit issued for the injection of Class II fluids. This Aquifer Exemption has no expiration date.

The effective date of this exemption is OCT 12 2012.



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



**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 UT22242-09694
Well: Federal 3-30-9-17
NENW Sec. 30-T9S-R17E
Duchesne County, Utah
API No.: 43-013-33772

Dear Mr. Durfey:

The U.S. Environmental Protection Agency Region 8 has received Newfield Production Company's (Newfield) November 9, 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 UT22242-09694.

As of the date of this letter, Newfield is authorized to commence injection into the Federal 3-30-9-17 well at a Maximum Allowable Injection Pressure (MAIP) of 930 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:

Ms. 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 UT22242-09694.

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-11385
SUNDRY NOTICES AND REPORTS ON WELLS		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
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.		7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)
1. TYPE OF WELL Water Injection Well		8. WELL NAME and NUMBER: FEDERAL 3-30-9-17
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		9. API NUMBER: 43013337720000
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052	PHONE NUMBER: 435 646-4825 Ext	9. FIELD and POOL or WILDCAT: MONUMENT BUTTE
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0397 FNL 1980 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 30 Township: 09.0S Range: 17.0E Meridian: S		COUNTY: DUCHESNE
		STATE: UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 1/24/2013	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input checked="" type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input checked="" type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

The above reference well was put on injection at 3:45 PM on
01/24/2013. EPA # UT22197-09694

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
January 29, 2013**

NAME (PLEASE PRINT) Lucy Chavez-Naupoto	PHONE NUMBER 435 646-4874	TITLE Water Services Technician
SIGNATURE N/A	DATE 1/28/2013	

Federal 3-30-9-17

Spud Date: 9/22/08
 Put on Production: 10/27/08
 GL: 5560' KB:5572'

Injection Wellbore Diagram

SURFACE CASING

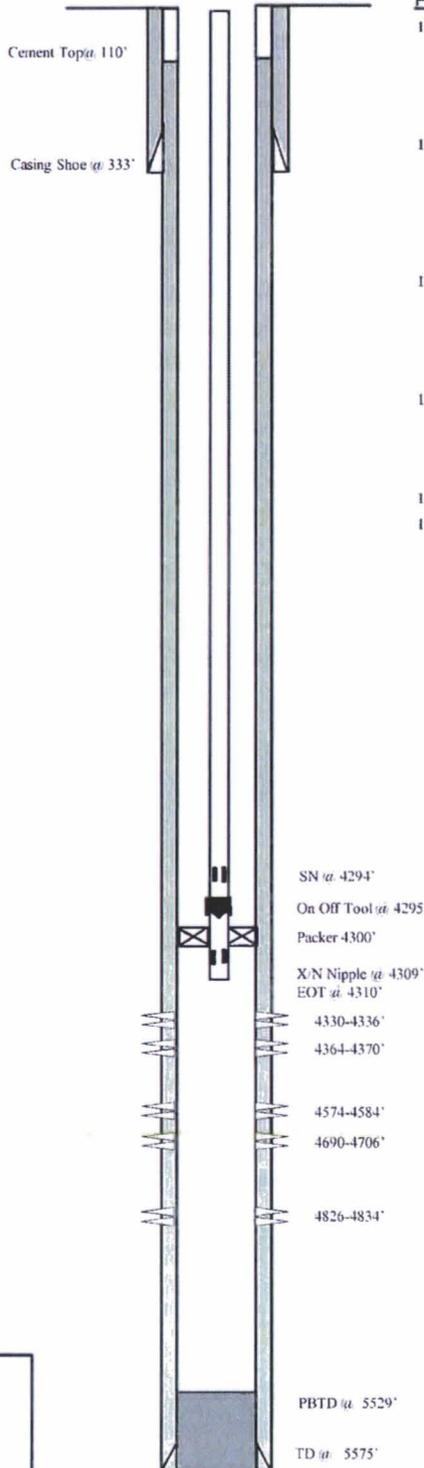
CSG SIZE: 8 5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 8 jts. (322.89')
 DEPTH LANDED: 332.89' KB
 HOLE SIZE: 12 1/4"
 CEMENT DATA: 160 sv Class "G" cement

PRODUCTION CASING

CSG SIZE: 5 1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 143 jts. (5573.94')
 DEPTH LANDED: 5571.94' KB
 HOLE SIZE: 7 7/8"
 CEMENT DATA: 300 sv of Premlite & 400sv 50/50 poz
 CEMENT TOP AT: 110'

TUBING

SIZE GRADE-WT.: 2 7/8" J-55 6.5#
 NO OF JOINTS: 139 jts (4281.9')
 SEATING NIPPLE: 2 7/8" (1.10')
 SN LANDED AT: 4293.9' KB
 ON/OFF TOOL AT: 4295'
 ARROW #1 PACKER CE AT: 4300.41'
 XO 2-3/8 x 2-7/8 J-55 AT: 4303.9'
 TBG PUP 2-3/8 J-55 AT: 4304.5'
 X/N NIPPLE AT: 4308.6'
 TOTAL STRING LENGTH: EOT @ 4310'



FRAC JOB

10/21/08 4826-4834' **Frac LODC sds as follows:**
 Frac w/ 24,947# 20-40 sand in 367 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2531 psi @ ave rate of 23.1 BPM. Pumped 504 gals of 15% HCL in flush for Stage #2. ISIP 2763 psi. Actual flush: 4297 gals.

10/21/08 4690-4706' **Frac A1 sds as follows:**
 Frac w/40,501# 20-40 sand in 400 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1652 psi @ ave rate of 23 BPM. Pumped 504 gals of 15% HCL in flush for Stage #3. ISIP 1879 psi. Actual flush: 4179 gals.

10/21/08 4574-4584' **Frac B2 sds as follows:**
 Frac w/ 35,544# 20-40 sand in 379 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1789 psi @ ave rate of 23.1 BPM. Pumped 504 gals of 15% HCL in flush for Stage #4. ISIP 1911 psi. Actual flush: 4070 gals.

10/21/08 4330-4370' **Frac D2 & D3 sds as follows:**
 Frac w/25,974# 20-40 sand in 356 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1752 psi @ ave rate of 23.1 BPM. ISIP 1681 psi. Actual flush: 4284 gals.

11/05/12 **Convert to Injection Well**

11/06/12 **Conversion MIT Finalized -- update tbg detail**

PERFORATION RECORD

Date	Depth Range	Number of Holes	Total Holes
10/21/08	4330-4336'	4 JSPF	24 holes
10/21/08	4364-4370'	4 JSPF	24 holes
10/21/08	4574-4584'	4 JSPF	40 holes
10/21/08	4690-4706'	4 JSPF	64 holes
10/21/08	4826-4834'	4 JSPF	32 holes

NEWFIELD

Federal 3-30-9-17

379' FNL & 1980' FWL
 NE/NW Section 30-T9S-R17E
 Duchesne Co, Utah
 API #43-013-33772; Lease #UTU- 11385



November 9, 2012

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

RE: Injection Conversion
Well: **Federal 3-30-9-17**
EPA #: UT22242-09694
API #: 43-013-33772

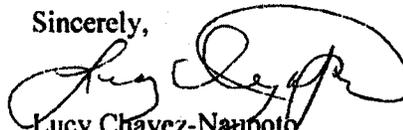
30 95 17E

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 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 UT22242-09694
	SURFACE LOCATION DESCRIPTION 1/4 OF NE 1/4 OF NW SECTION 30 TOWNSHIP 9S RANGE 17E		
	LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT Surface Location 379 ft. from (N/S) N Line of quarter section and 1980 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) 5575 Total Depth After Rework (ft) 5575 Date Rework Commenced 10/30/2012 Date Rework Completed 11/6/2012	TYPE OF PERMIT <input checked="" type="checkbox"/> Individual <input type="checkbox"/> Area Number of Wells 1 Well Number 3-30-9-17

WELL CASING RECORD -- BEFORE REWORK

Casing		Cement		Perforations (ft)		Acid or Fracture Treatment Record
Size	Depth (ft)	Sacks	Type	From	To	
8 5/8"	333	160	Class "G"	4826	4834	Perf and frac
5 1/2"	5572	300	Prem Lt II	4690	4706	Perf and frac
		400	50/50 Poz.	4574	4584	Perf and frac
				4330	4370	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 9, 2012

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

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

EPA Witness: _____ Date: 11 16 2012
 Test conducted by: Cody Marx
 Others present: _____

UT 22742-09694

Well Name: <u>Federal 3-30-9-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Monument Butte</u>		
Location: <u>NE/NW</u> Sec: <u>30</u> T <u>9</u> N <u>9</u> R <u>17</u> E/W County: <u>Duchesne</u> State: <u>UT</u>		
Operator: <u>Cody Marx</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: 1710 psig

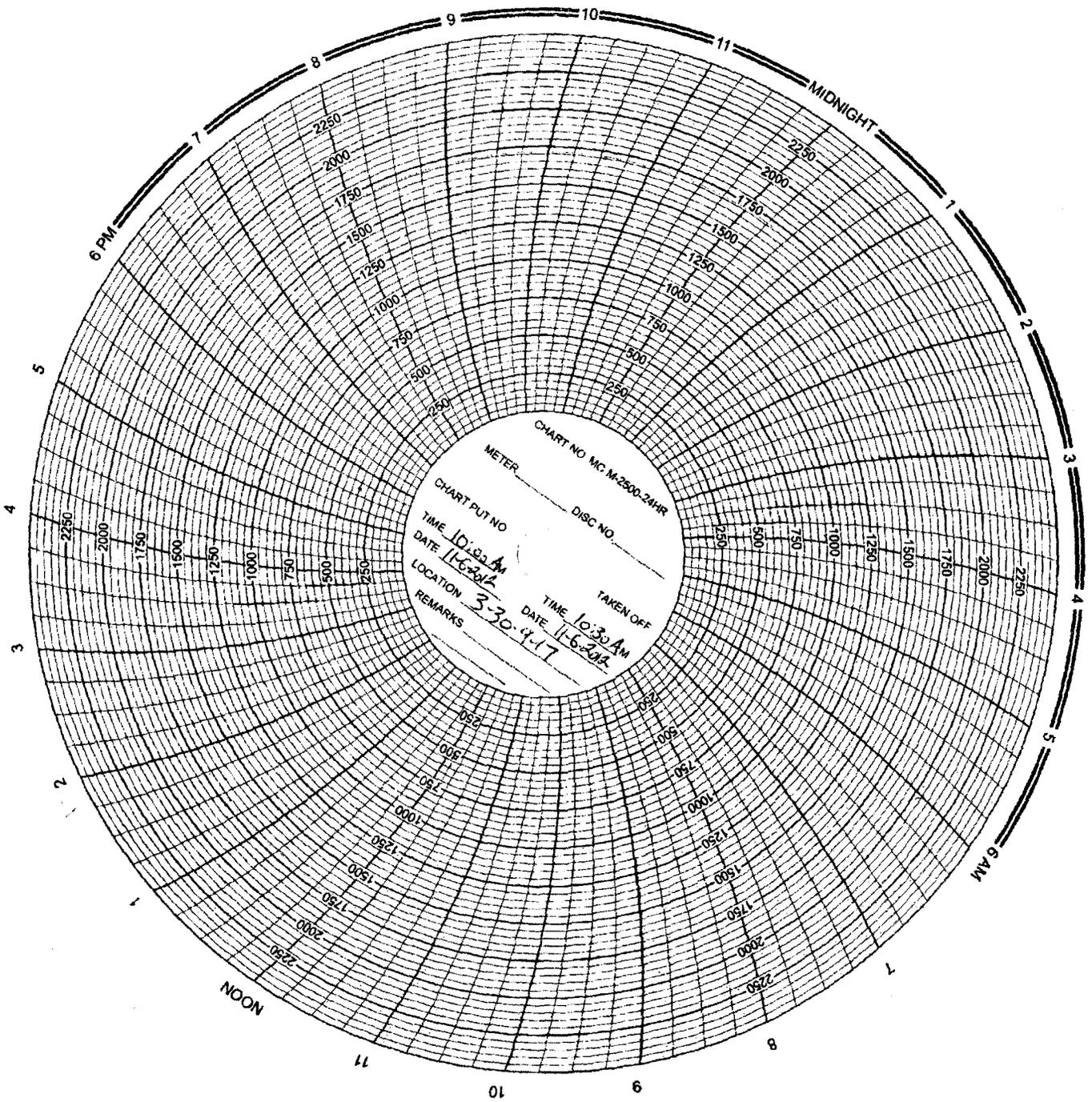
MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING PRESSURE			
Initial Pressure	140 psig	psig	psig
End of test pressure	140 psig	psig	psig
CASING / TUBING ANNULUS PRESSURE			
0 minutes	1710 psig	psig	psig
5 minutes	1710 psig	psig	psig
10 minutes	1710 psig	psig	psig
15 minutes	1710 psig	psig	psig
20 minutes	1710 psig	psig	psig
25 minutes	1710 psig	psig	psig
30 minutes	1710 psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
RESULT	<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 3-30-9-17****9/1/2012 To 1/30/2013****10/30/2012 Day: 1****Conversion**

NC #2 on 10/30/2012 - MIRUSU, L/D Rods - 5:30 To 6:00 AM C/Trvl, 6:00 AM OWU, Rig Maintenance, MIRUSU, R/U H/Oiler To Csg, Pmp 60 Bbls Wtr, R/D Pmp Unit, Unseat Rod Pmp, R/U H/Oiler To Tbg, Flush Rods W/- 40 Bbls Wtr, Reseat Pmp, Try To R/U Wellhead To Pressure Test Tbg, Flow T Is Gouled To B1 Adapter, Try And Break Out Flow T, SWI, CSDFN @ 6:30 PM, 6:30 To 7:00 PM C/Trvl.

Daily Cost: \$0**Cumulative Cost: \$9,210****10/31/2012 Day: 2****Conversion**

NC #2 on 10/31/2012 - Finish L/D Rods, R/U BOPS - 5:30 To 6:00 AM C/Trvl, 6:00 AM OWU, Rig Maintenance, Try To Break Off Flow T, Could Not, L/D W/- 1- 2' x 3/4" Pony Sub, 1 1/2" x 26' Polished Rod, 1- 2', 1- 4', 1- 6' x 3/4" Pony Subs, 99- 3/4" Guided Rods, 68- 3/4" Plain Rods, 20- 3/4" Guided Rods, 6- 1 1/2" x 25' Wt Bars, Rod Pump, CSDFN @ 5:00 PM, 5:00 To 5:30 PM C/Trvl.

Daily Cost: \$0**Cumulative Cost: \$15,680****11/1/2012 Day: 3****Conversion**

NC #2 on 11/1/2012 - POOH W/- Tbg Breaking & Dopeing - 5:30 To 6:00 AM C/Trvl, 6:00 AM OWU, X - Over For Tbg, R/U RBS Tbg Spear, Pull Up On Flow T & B1 Adaptor, R/D Wellhead, R/U Weatherford BOPS, R/U Workfloor, Release TA, 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, P/U & TIH W/- 15 Jts Tbg, Tag PBTD, No New Fill, L/D 15 Jts Tbg, POOH W/- 104 Jts Tbg, Breaking & Dopeing Every Connection, SWI, CSDFN @ 6:30 PM, 6:30 To 7:00 PM C/Trvl.

Daily Cost: \$0**Cumulative Cost: \$23,952****11/2/2012 Day: 4****Conversion**

NC #2 on 11/2/2012 - Pressure Test Tbg - 5:30 To 6:00 AM C/Trvl, 6:00 AM OWU, POOH W/- 35 Jts Tbg Breaking & Dopeing Every Connection, R/U H/Oiler To Tbg, Flush W/- 20 Bbls Wtr, POOH & L/D 20- Jts Tbg, P/U & TIH W/- 2 3/8" Wireline Re-Entry Guide, 2 3/8" x 1.875 "XN" Profile Nipple, 4' x 2 3/8" Tbg Sub, 2 7/8" x 2 3/8" X - Over, 5 1/2" Weatherford Arrowset Pkr, On/Off Tool W/- 1.875 "X" Profile Nipple, SN, 139- Jts Tbg, R/U H/Oiler To Tbg, Pmp 20 Bbls Wtr, Drop Stnd Vlve, Pressure Test Tbg To 3,000 Psi For 1 Hr, No Test, Bump Back Up A Couple Of Times, Still No Test, Fish Stnd Vlve, Drop NEw Stnd Vlve, Pmp Back Up To 3,000 Psi, Test Over The Weekend, CSDFN @ 7:00 PM, 7:00 To 7:30 PM C/Trvl.

Daily Cost: \$0**Cumulative Cost: \$35,091****11/5/2012 Day: 5****Conversion**

NC #2 on 11/5/2012 - Finish Testing Tbg, Pressure Test Csg - 5:30 To 6:00 AM C/Trvl, 6:00 AM OWU, Tbg Bled Off 210 Psi, Bump Back Up To 3,000 Psi, Hold For 1 Hr, Good Test, R/U Sandline, Fish Stnd Vlve, R/D Sandline, R/D Workfloor, R/D Weatherford BOPS, R/U Injection Tree, R/D H/Oiler To Csg, Pmp 70 Bbls Fresh Wtr & Pkr Fluid, R/D Inj. Tree, Set Pkr, R/U Inj. Tree, Pressure Test Csg To 1,500 Psi, Hold For 1 Hr, Good Test, R/D NC #2, Well Ready For MIT.

Daily Cost: \$0

Cumulative Cost: \$52,791

11/7/2012 Day: 6

Conversion

Rigless on 11/7/2012 - Conduct initial MIT - On 10/30/2012 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 11/06/2012 the casing was pressured up to 1710 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 140 psig during the test. There was not an EPA representative available to witness the test. EPA# UT22242-09694 **Finalized**

Daily Cost: \$0

Cumulative Cost: \$138,025

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