

# NEWFIELD



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

November 27, 2007

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

RE: Applications for Permit to Drill

State 1A-16-9-16	State 2A-16-9-16
State 3-16-9-16	State 4-16-9-16
State 5-16-9-16	State 6-16-9-16
State 11-16-9-16	State 12-16-9-16
State 13-16-9-16	State 16-16-9-16

Dear Diana:

Enclosed find APD's on the above referenced wells. Please Contact Dave Allred to set up an On-Site. If you have any questions, feel free to give either Dave Allred or myself a call.

Sincerely,

  
Mandie Crozier  
Regulatory Specialist

mc  
enclosures

RECEIVED  
NOV 29 2007  
DIV. OF OIL, GAS & MINING





NEWFIELD PRODUCTION COMPANY  
STATE #1A-16-9-16  
NE/NE SECTION 16, T9S, R16E  
DUCHESNE COUNTY, UTAH

TEN POINT DRILLING PROGRAM

1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

2. **ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Uinta	0 – 1700'
Green River	1700'
Wasatch	6500'

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

Green River Formation 1700' – 6500' – Oil

4. **PROPOSED CASING PROGRAM:**

Surface Casing: 8-5/8" J-55 24# w/ST&C collars; set at 290' (New)

Production Casing: 5-1/2" J-55, 15.5# w/LT&C collars; set at TD (New or used, inspected).

5. **MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

The operator's minimum specifications for pressure control equipment are as follows:

An 8" Double Ram Hydraulic unit with a closing unit will be utilized. Function test of BOP's will be check daily.

Refer to **Exhibit C** for a diagram of BOP equipment that will be used on this well.

6. **TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

A fresh water/polymer system will be utilized to drill the well. If necessary, to control formation fluids, the system will be weighted with the addition of bentonite gel, and if conditions warrant, barite. This fresh water system typically will contain Total Dissolved Solids (TDS) of less than 3000 PPM. Neither potassium chloride nor chromates will be utilized in the fluid system. The anticipated mud weight is 8.4 ppg and weighted as necessary for gas control.

**AIR DRILLING**

In the event that the proposed location is to be "Air Drilled", Newfield requests a variance to regulations requiring a straight run blooie line. Newfield proposes that the flowline will contain two (2) 90-degree turns. Newfield also requests a variance to regulations requiring an automatic igniter or continuous pilot light on the blooie line. Newfield requests authorization to ignite as needed, and the flowline at 80'.

Newfield Production Company requests that the spark arrest, exhaust, or water cooled exhaust be waived under the Special Drilling Operations of Onshore Order #2.

**MUD PROGRAM**

Surface – 3200'  
3200' – TD'

**MUD TYPE**

fresh water system  
fresh water system

From surface to TD, a fresh water system will be utilized. Clay inhibition and hole stability will be achieved with a KCL substitute additive. This fresh water system will typically contain Total Dissolved Solids (TDS) of less than 3000 PPM. Anticipated mud weight is 8.4 lbs/gal. If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite. No chromate additives will be used in the mud system.

7. **AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Auxiliary safety equipment will be a Kelly Cock, bit float, and a TIW valve with drill pipe threads.

8. **TESTING, LOGGING AND CORING PROGRAMS:**

The logging program will consist of a Dual Induction, Gamma Ray and Caliper log from TD to base of surface casing @ 290' +/-, and a Compensated Neutron-Formation Density Log from TD to 3500' +/- . A cement bond log will be run from PBTD to cement top. No drill stem testing or coring is planned for this well.

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; or that any other abnormal hazards such as H2S will be encountered in this area.

10. **ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

It is anticipated that the drilling operations will commence the first quarter of 2008, and take approximately seven (7) days from spud to rig release.

NEWFIELD PRODUCTION COMPANY  
STATE #1A-16-9-16  
NE/NE SECTION 16, T9S, R16E  
DUCHESNE COUNTY, UTAH

THIRTEEN POINT SURFACE PROGRAM

1. **EXISTING ROADS**

See attached **Topographic Map "A"**

To reach Newfield Production Company well location site State #1A-16-9-16 located in the NE¼ NE¼ Section 16, T9S, R16E, S.L.B. & M., Duchesne County, Utah:

Proceed in a southwesterly direction out of Myton, Utah along Highway 40 approximately 1.4 miles to the junction of this highway and Utah State Highway 53; proceed southerly along Utah State Highway 53 approximately 1.7 miles to its junction with an existing road to the southwest; proceed southwesterly approximately 9.7 miles to its junction with an existing road to the southeast; proceed southeasterly approximately 0.3 miles to its junction with an existing road to the northeast; proceed northeasterly approximately 5.1 miles to its junction with an existing road to the southwest; proceed southwesterly approximately 1.8 miles to its junction with an existing road to the northwest; proceed in a northwesterly direction approximately 1.4 miles to its junction with the beginning of the proposed access road to the south; proceed southerly along the proposed access road approximately 840'; turn and continue in a southeasterly direction along the proposed access road approximately 2090' to the proposed well location.

The highways mentioned in the foregoing paragraph are bituminous surfaced roads to the point where Highway 216 exists to the South, thereafter the roads are constructed with existing materials and gravel. The highways are maintained by Utah State road crews. All other roads are maintained by County crews.

The aforementioned dirt oil field service roads and other roads in the vicinity are constructed out of existing native materials that are prevalent to the existing area they are located in and range from clays to a sandy-clay shale material.

The roads for access during the drilling, completion and production phase will be maintained at the standards required by the State of Utah, or other controlling agencies. This maintenance will consist of some minor grader work for smoothing road surfaces and for snow removal.

2. **PLANNED ACCESS ROAD**

Approximately 2,930' of access road is proposed. See attached **Topographic Map "B"**.

The proposed access road will be an 18' crown road (9' either side of the centerline) with drainage ditches along either side of the proposed road whether it is deemed necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area. The maximum grade will be less than 8%.

There will be no culverts required along this access road. There will be barrow ditches and turnouts as needed along this road.

There are no fences encountered along this proposed road. There will be no new gates or cattle guards required.

All construction material for this access road will be borrowed material accumulated during construction of the access road.

3. **LOCATION OF EXISTING WELLS**

Refer to **EXHIBIT B**.

4. **LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

There are no existing facilities that will be used by this well.

It is anticipated that this well will be a producing oil well.

Upon construction of a tank battery, the well pad will be surrounded by a dike of sufficient capacity to contain at minimum 110% of the largest tank volume within the facility battery.

Tank batteries will be built to State specifications.

All permanent (on site for six (6) months or longer) structures, constructed or installed (including pumping units), will be painted Desert Tan. All facilities will be painted within six months of installation.

5. **LOCATION AND TYPE OF WATER SUPPLY**

Fresh water purchased from the Johnson Water District will be used for drilling. A temporary poly pipeline may be used for water transportation from our existing supply line from Johnson Water District, or trucked from Newfield Production Company's injection facilities – **EXHIBIT A**.

There will be no water well drilled at this site.

6. **SOURCE OF CONSTRUCTION MATERIALS**

All construction material for this location shall be borrowed material accumulated during construction of the location site and access road.

A mineral material application is not required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

A small reserve pit (90' x 40' x 8' deep, or less) will be constructed from native soil and clay materials. The reserve pit will receive the processed drill cutting (wet sand, shale & rock) removed from the wellbore. Any drilling fluids, which do accumulate in the pit as a result of shale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed. All drilling fluids will be fresh water based, typically containing Total Dissolved Solids of less than 3000 PPM. No potassium chloride, chromates, trash, debris, nor any other substance deemed hazardous will be placed in this pit. Therefore, it is proposed that no synthetic liner be required in the reserve pit. However, if upon constructing the pit there is insufficient fine clay and silt present, a liner will be used for the purpose of reducing water loss through percolation.

Newfield requests approval that a flare pit not be constructed or utilized on this location.

A portable toilet will be provided for human waste.

A trash basket will be provided for garbage (trash) and hauled away to an approved disposal site at the completion of the drilling activities.

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

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

8. **ANCILLARY FACILITIES:**

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. **WELL SITE LAYOUT:**

See attached Location Layout Sheet.

**Fencing Requirements**

All pits will be fenced according to the following minimum standards:

- a) A 39-inch net wire shall be used with at least one strand of barbed wire on top of the net.
- b) The net wire shall be no more than two (2) inches above the ground. The barbed wire shall be three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.
- c) Corner posts shall be centered and/or braced in such a manner to keep tight at all times
- d) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.
- e) All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The reserve pit fencing will be on three (3) sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

10. **PLANS FOR RESTORATION OF SURFACE:**

a) **Producing Location**

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, material, trash and junk not required for production.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximated natural contours. Weather permitting, the reserve pit will be reclaimed within one hundred twenty (120) days from the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed.

b) **Dry Hole Abandoned Location**

At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the State of Utah will attach the appropriate surface rehabilitation conditions of approval.

11. **SURFACE OWNERSHIP:** State of Utah

12. **OTHER ADDITIONAL INFORMATION:**

- a) Newfield Production Company is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, Newfield is to immediately stop work that might further disturb such materials and contact the Authorized Officer.
- b) Newfield Production will control noxious weeds along rights-of-way for roads, pipelines, well sites or other applicable facilities. On State administered land it is required that a Pesticide Use Proposal shall be submitted and given approval prior to the application of herbicides or other possible hazardous chemicals.
- c) Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on State Lands after the conclusion of drilling operations or at any other time without State authorization. However, if State authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

The Archaeological Cultural Resource Survey Report is attached. **Refer to Exhibit "D"**.

**Additional Surface Stipulations**

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws and regulations, Onshore Oil and Gas Orders, the approved plan of operations and any applicable Notice to Lessees. A copy of these conditions will be furnished to the field representative to ensure compliance.

**Hazardous Material Declaration**

Newfield Production Company guarantees that during the drilling and completion of the State 1A-16-9-16, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the State 1A-16-9-16 Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

A complete copy of the approved APD, if applicable, shall be on location during the construction of the location and drilling activities.

Newfield Production Company or a contractor employed by Newfield Production shall contact the State office at (801) 722-3417, 48 hours prior to construction activities.

The State office shall be notified upon site completion prior to moving on the drilling rig.

13. **LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION:**

Representative

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

Certification

Please be advised that Newfield Production Company is considered to be the operator of well #1A-16-9-16, NE/NE Section 16, T9S, R16E, LEASE #ML-16532, Duchesne County, Utah and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4471291.

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

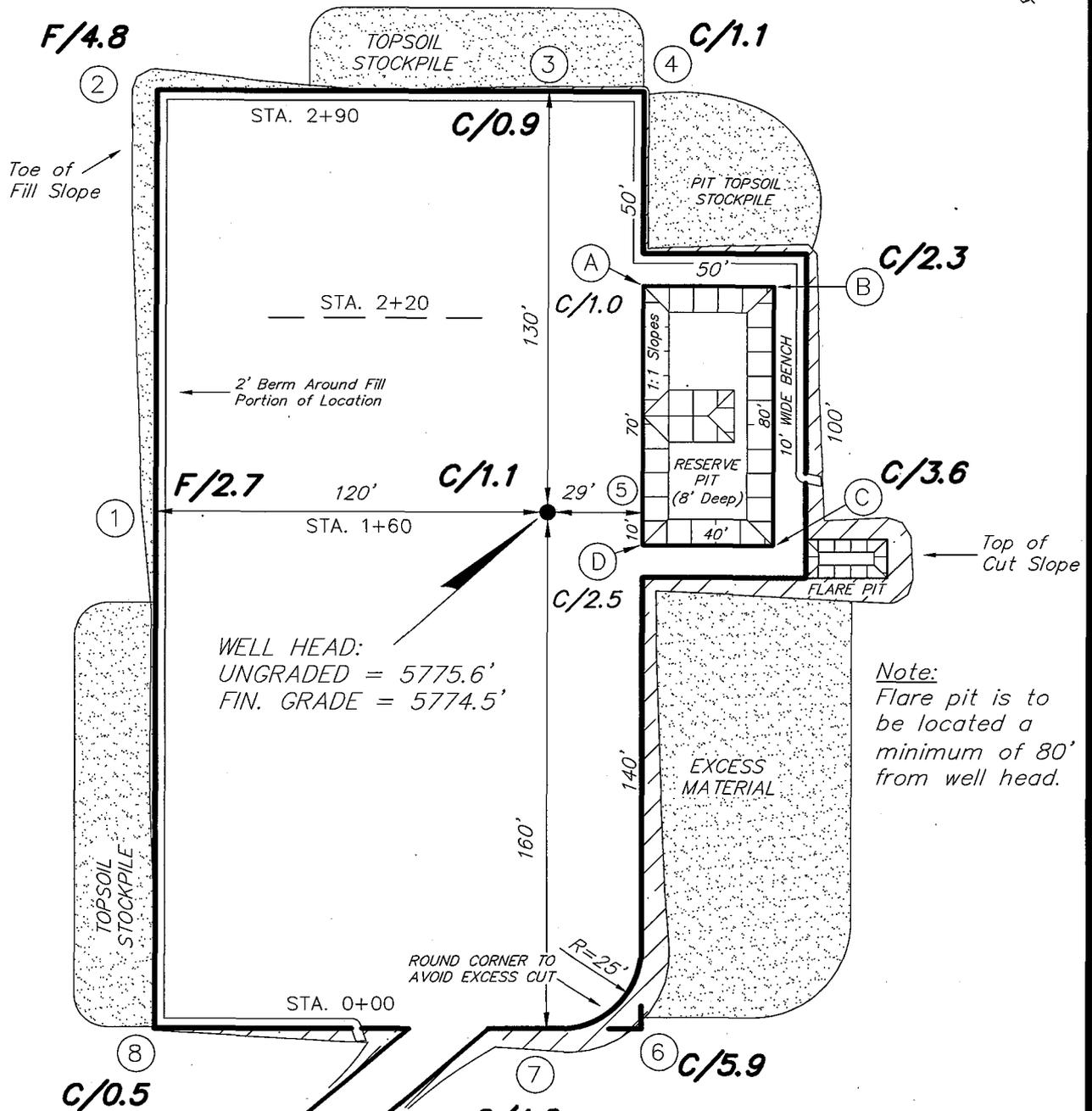
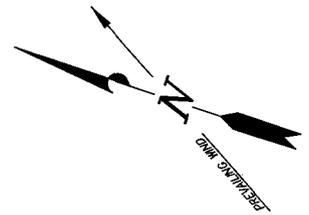
11/19/07  
Date

  
Mandie Crozier  
Regulatory Specialist  
Newfield Production Company

# NEWFIELD PRODUCTION COMPANY

9 MILE 1-16-9-16

Section 16, T9S, R16E, S.L.B.&M.



**REFERENCE POINTS**

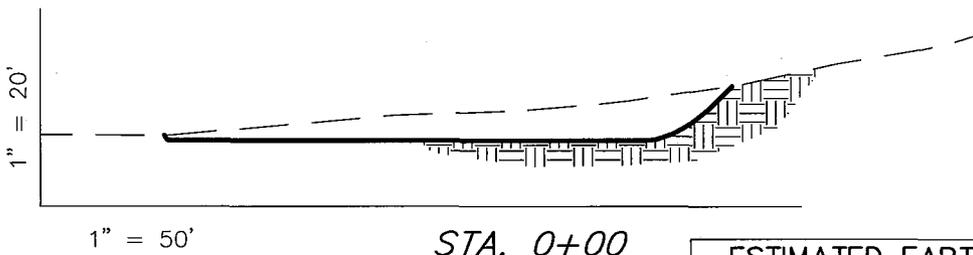
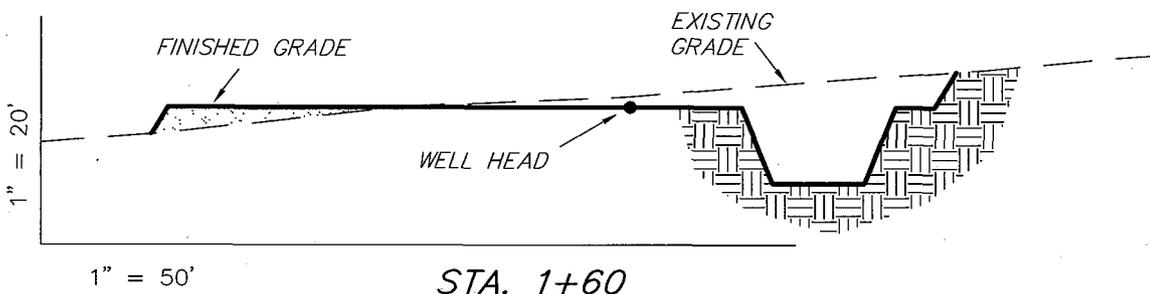
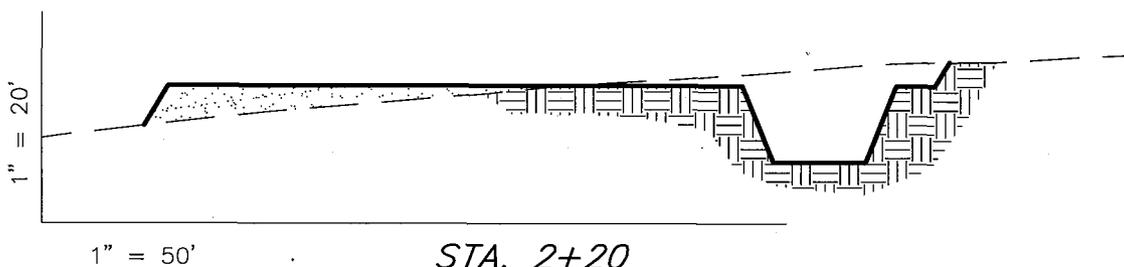
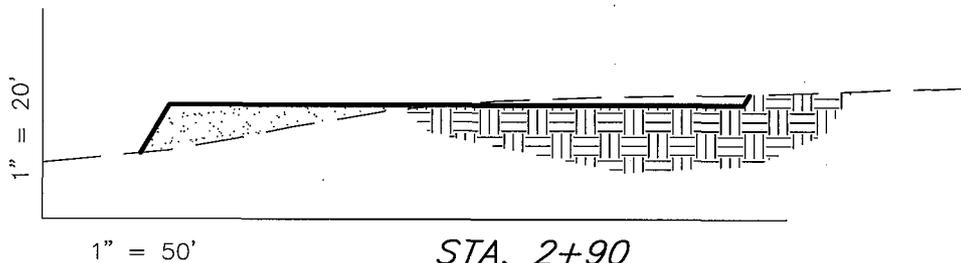
180' NORTHEAST	= 5776.7'
230' NORTHEAST	= 5777.0'
170' NORTHWEST	= 5770.3'
220' NORTHWEST	= 5769.3'

SURVEYED BY: C.M.	DATE SURVEYED: 10-11-07
DRAWN BY: F.T.M.	DATE DRAWN: 11-01-07
SCALE: 1" = 50'	REVISED:

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

# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS 9 MILE 1-16-9-16



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

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

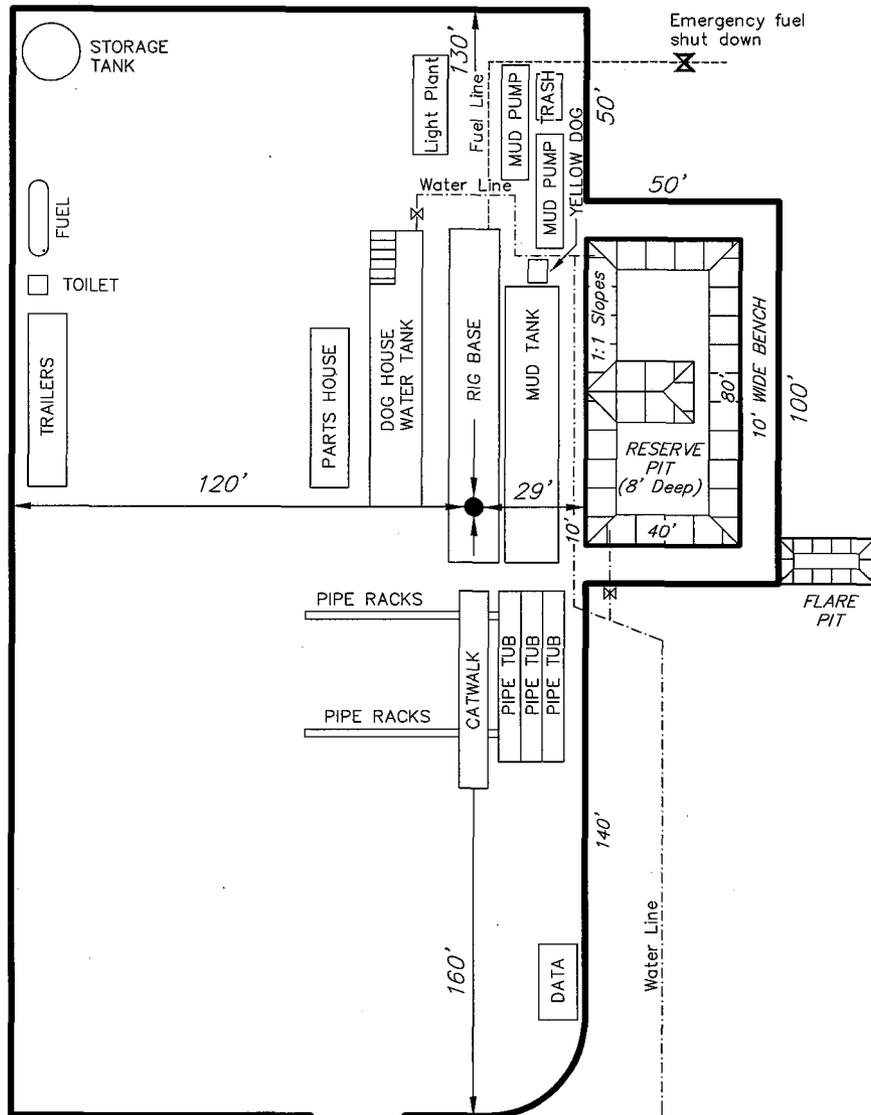
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	1,520	1,520	Topsoil is not included in Pad Cut	0
PIT	640	0		640
TOTALS	2,160	1,520	970	640

SURVEYED BY: C.M.	DATE SURVEYED: 10-11-07
DRAWN BY: F.T.M.	DATE DRAWN: 11-01-07
SCALE: 1" = 50'	REVISED:

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

# NEWFIELD PRODUCTION COMPANY

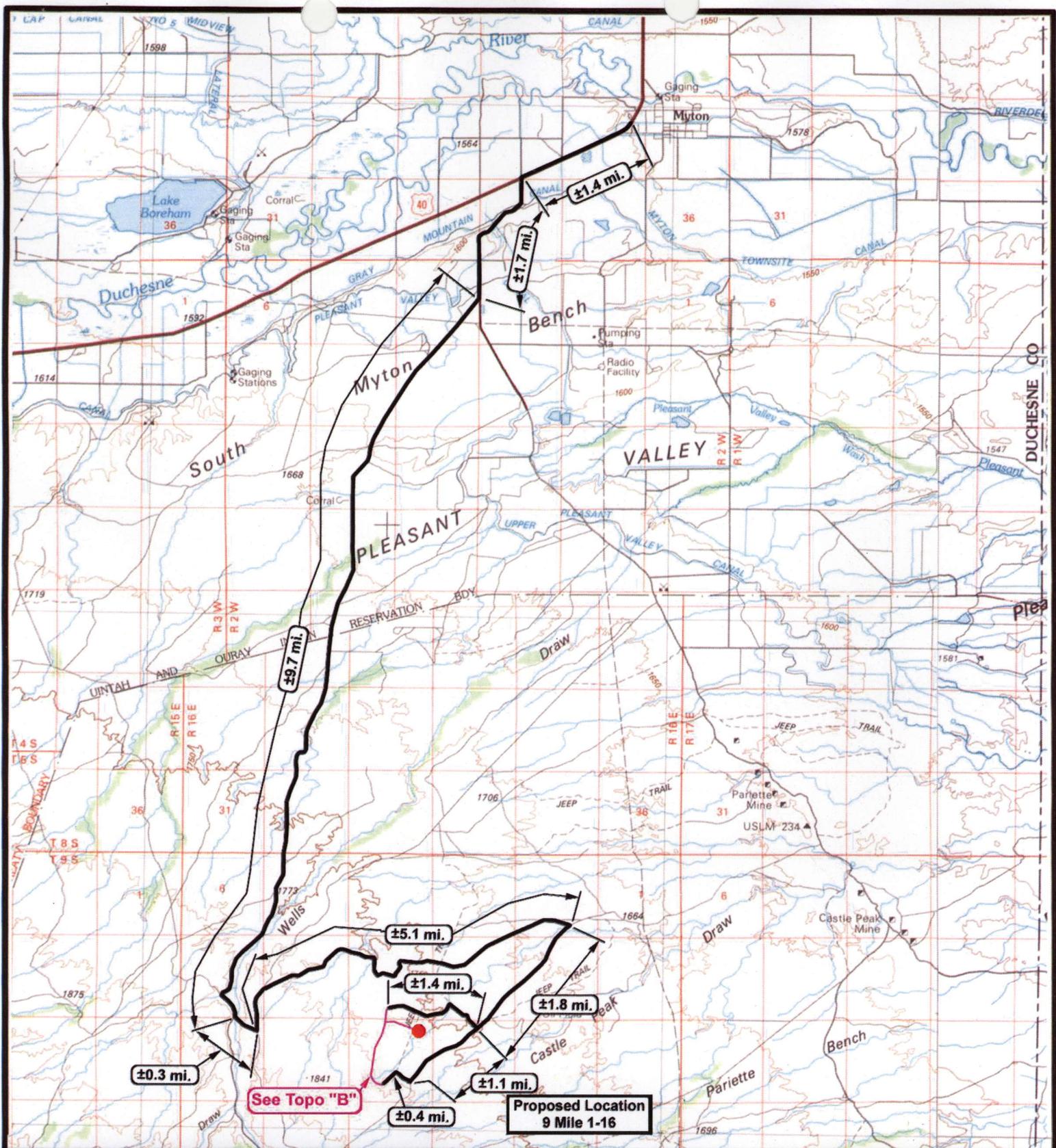
## TYPICAL RIG LAYOUT 9 MILE 1-16-9-16



PROPOSED ACCESS ROAD (Max. 6% Grade)

SURVEYED BY: C.M.	DATE SURVEYED: 10-11-07
DRAWN BY: F.T.M.	DATE DRAWN: 11-01-07
SCALE: 1" = 50'	REVISED:

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



**NEWFIELD**  
Exploration Company

**9 Mile 1-16-9-16**  
**SEC. 16, T9S, R16E, S.L.B.&M.**



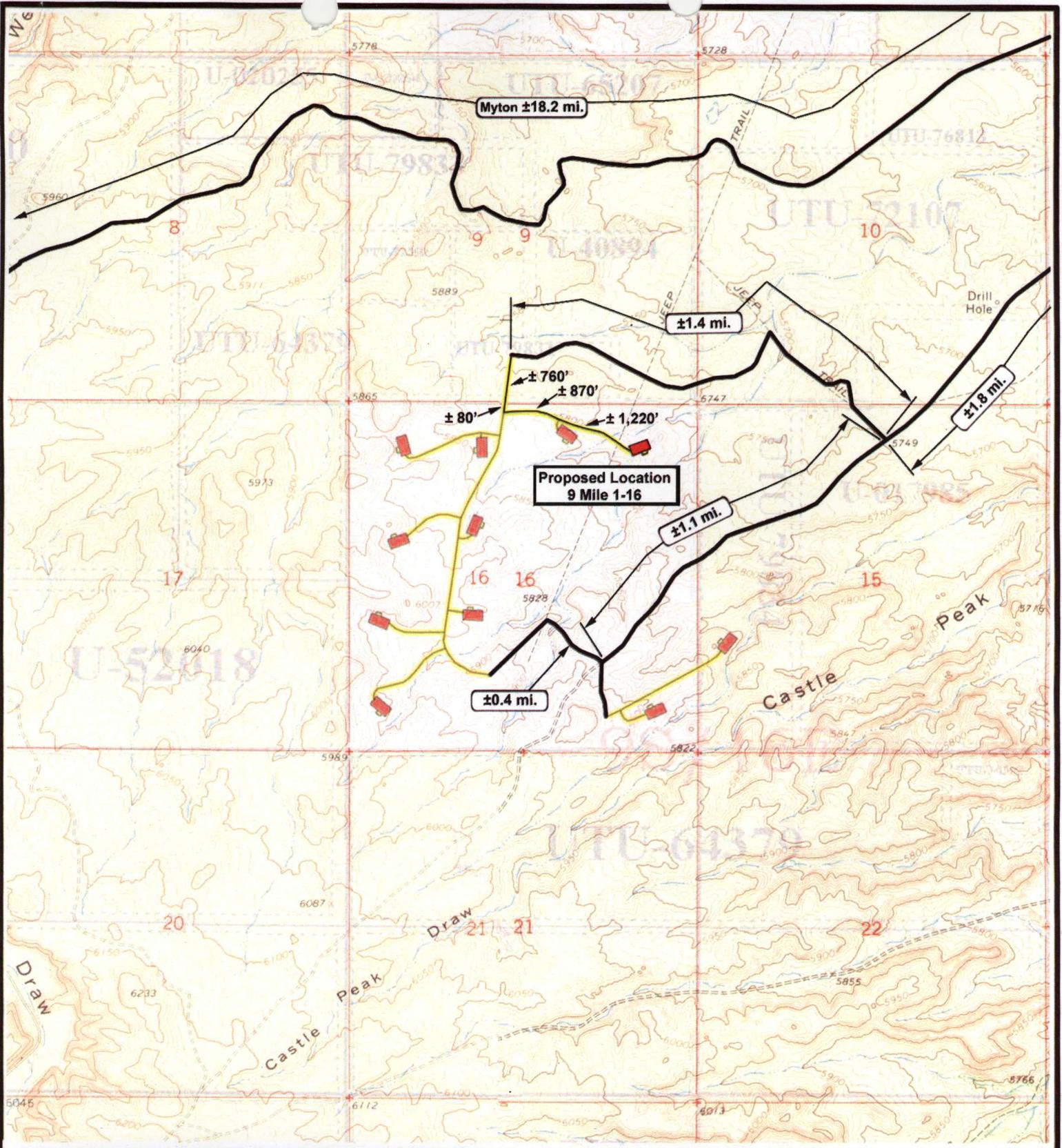
**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1 = 100,000  
DRAWN BY: mw  
DATE: 11-02-2007

**Legend**

Existing Road  
Proposed Access

TOPOGRAPHIC MAP  
**"A"**



**NEWFIELD**  
Exploration Company

**9 Mile 1-16-9-16**  
**SEC. 16, T9S, R16E, S.L.B.&M.**



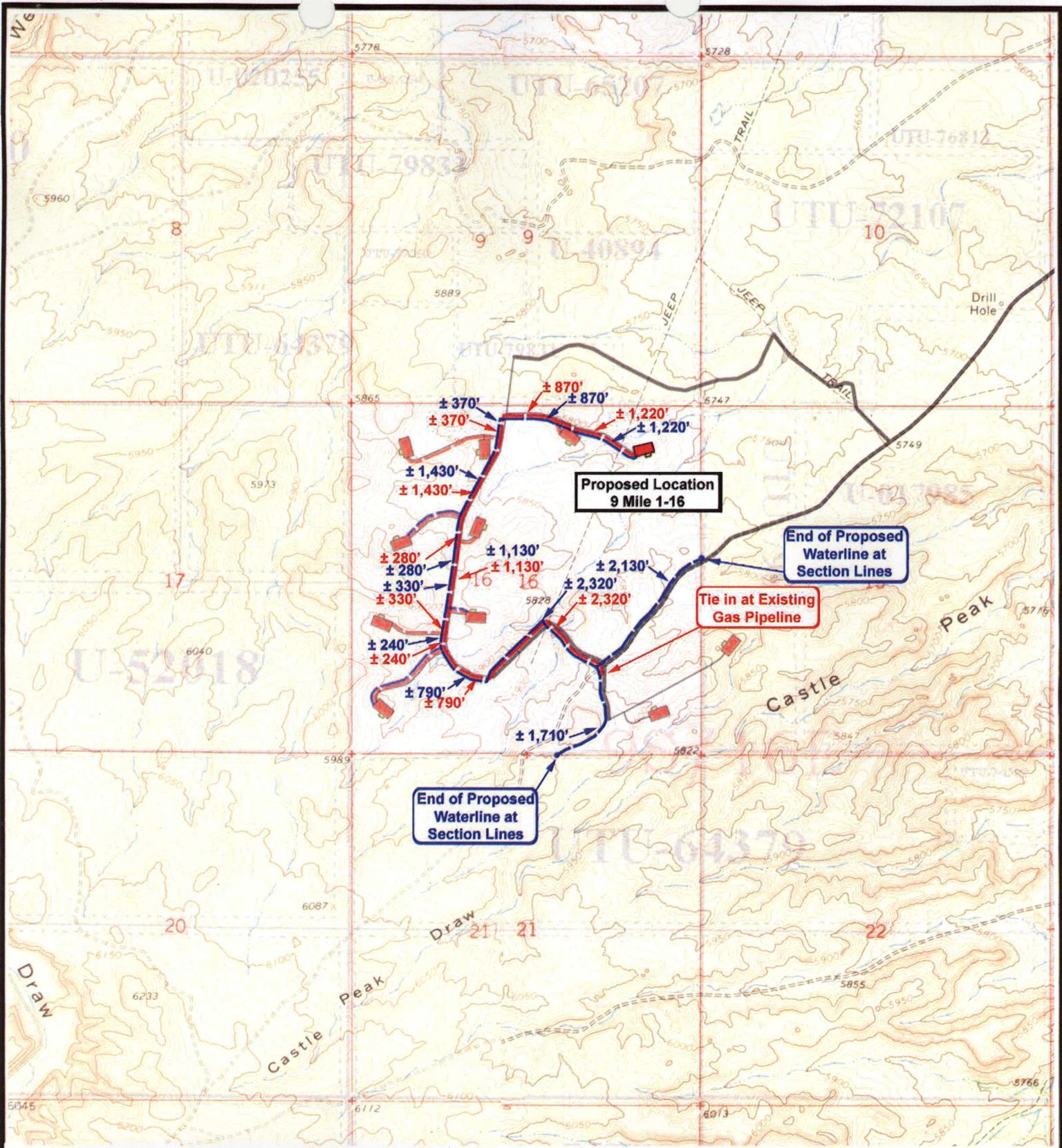
**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'  
DRAWN BY: mw  
DATE: 11-02-2007

**Legend**

Existing Road  
Proposed Access

TOPOGRAPHIC MAP  
**"B"**



**NEWFIELD**  
Exploration Company

**9 Mile 1-16-9-16**  
**SEC. 16, T9S, R16E, S.L.B.&M.**



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

SCALE: 1" = 2,000'

DRAWN BY: mw

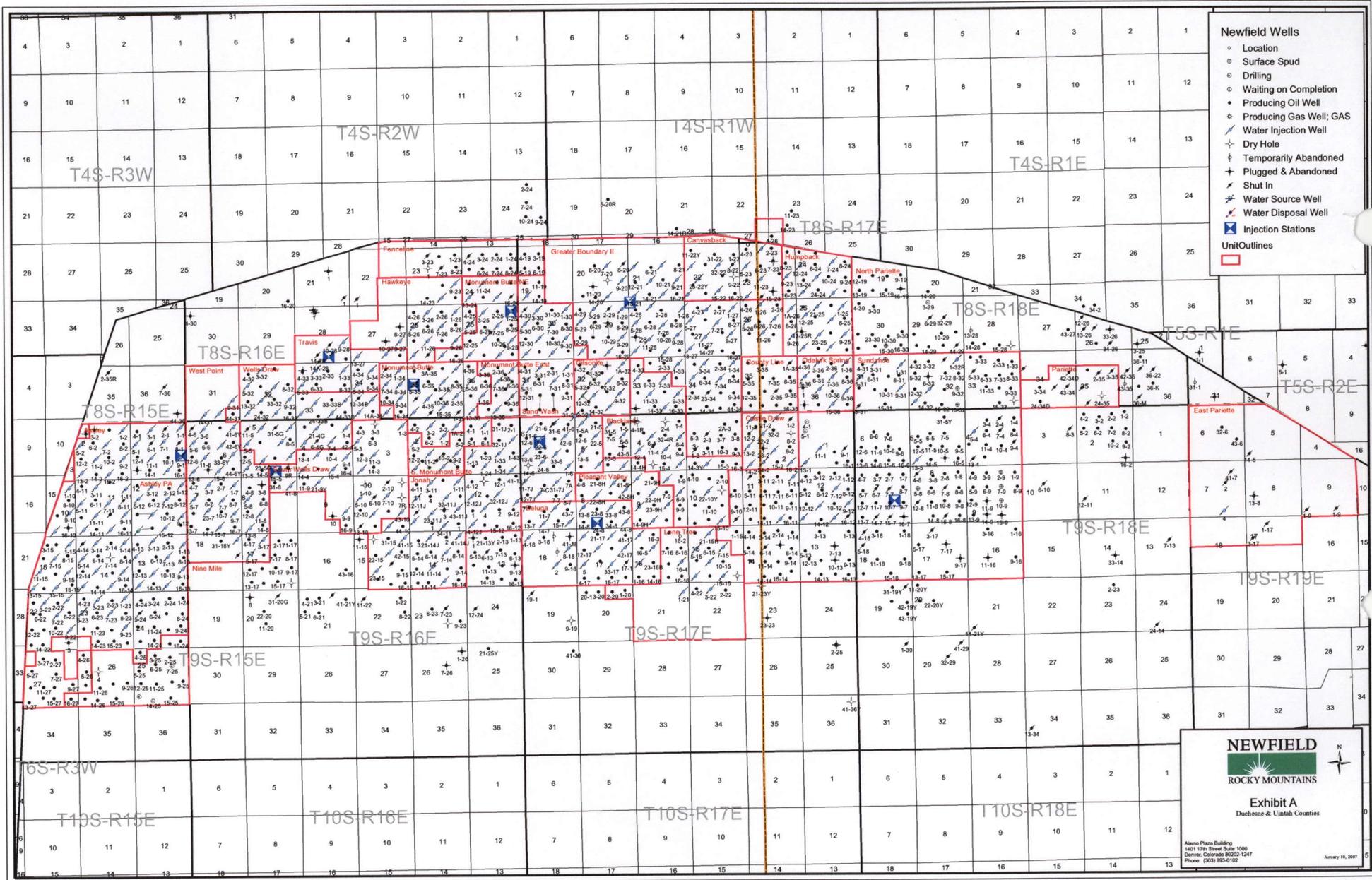
DATE: 11-02-2007

**Legend**

- Roads
- Proposed Gas Line
- Proposed Water Line

TOPOGRAPHIC MAP

**"C"**



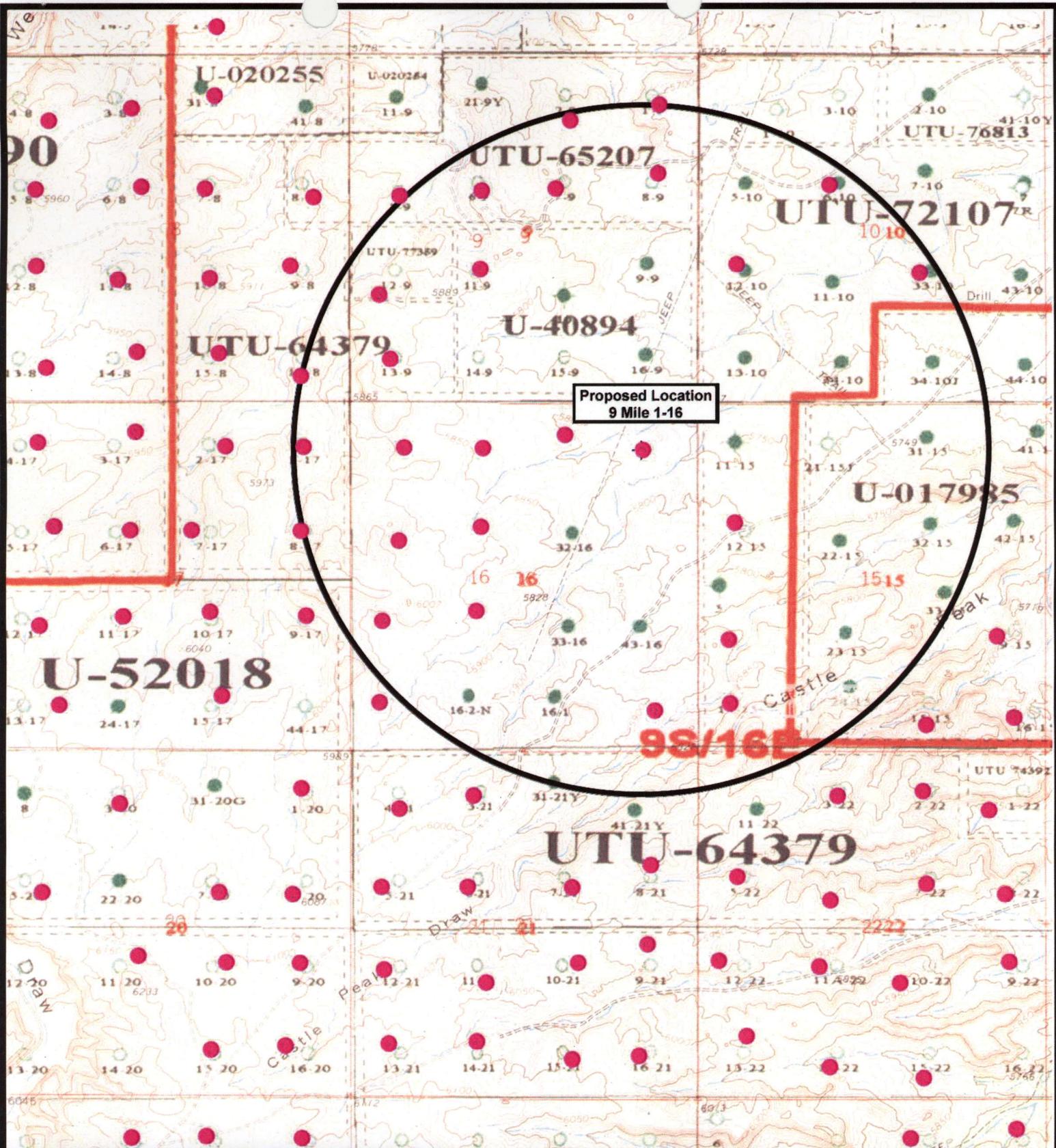
- Newfield Wells**
- Location
  - Surface Spud
  - ⊙ Drilling
  - ⊙ Waiting on Completion
  - Producing Oil Well
  - Producing Gas Well; GAS
  - ⊙ Water Injection Well
  - ⊙ Dry Hole
  - ⊙ Temporarily Abandoned
  - ⊙ Plugged & Abandoned
  - ⊙ Shut In
  - ⊙ Water Source Well
  - ⊙ Water Disposal Well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

**NEWFIELD**  
  
**ROCKY MOUNTAINS**

Exhibit A  
 Duchesne & Uintah Counties

Alamo Plaza Building  
 1401 17th Street Suite 1000  
 Denver, Colorado 80202-1247  
 Phone: (303) 893-0122

January 19, 2007



Proposed Location  
9 Mile 1-16



**NEWFIELD**  
Exploration Company

**9 Mile 1-16-9-16**  
**SEC. 16, T9S, R16E, S.L.B.&M.**




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

SCALE: 1" = 2,000'  
DRAWN BY: mw  
DATE: 11-02-2007

**Legend**

- Location
- One-Mile Radius

**Exhibit "B"**

# 2-M SYSTEM

Blowout Prevention Equipment Systems

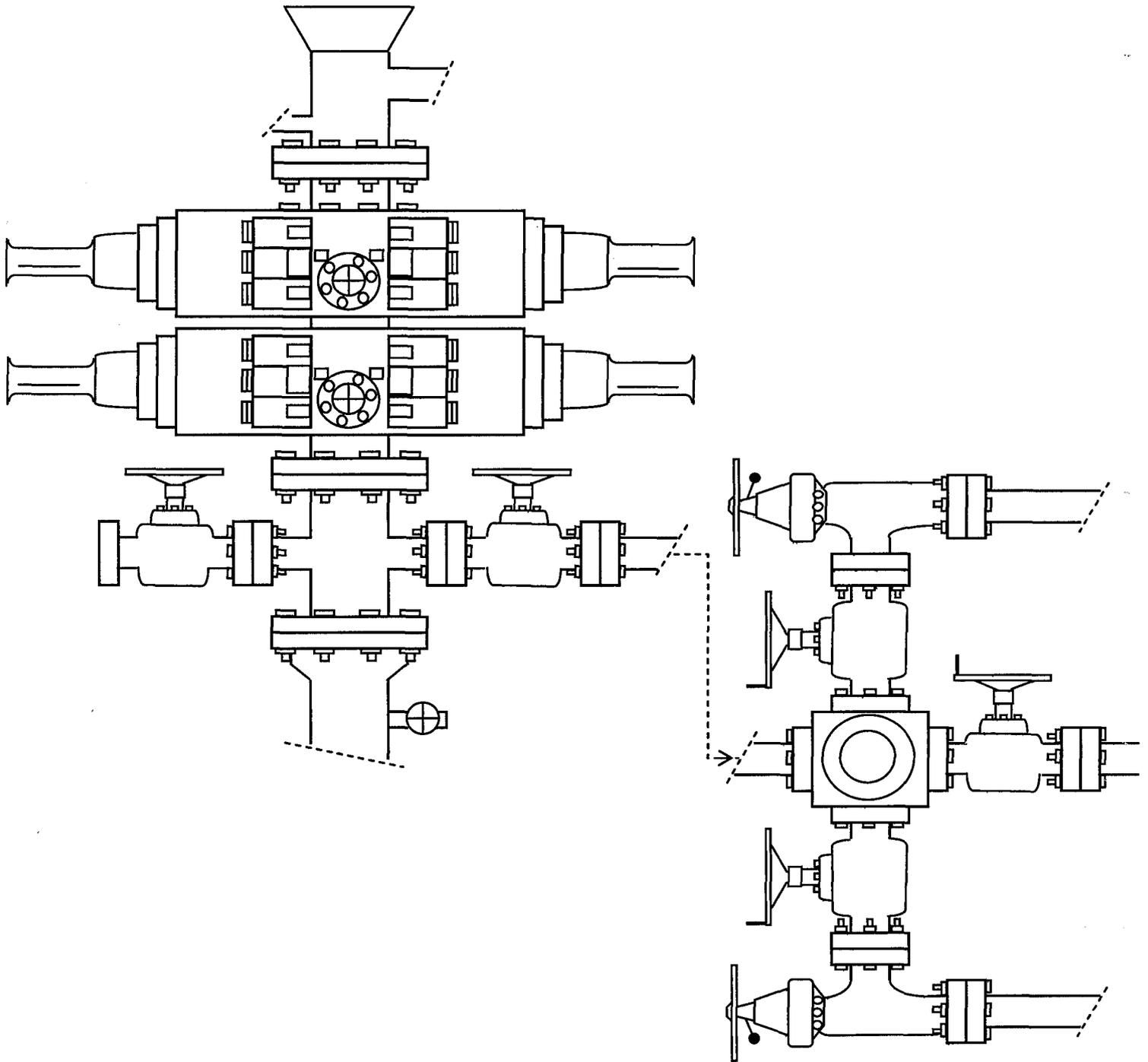


EXHIBIT C

Exhibit "D"

CULTURAL RESOURCE INVENTORY OF  
NEWFIELD EXPLORATION'S TEN 40 ACRE PARCELS IN  
TOWNSHIP 9S, RANGE 16E, SECTION 16  
DUCHESNE COUNTY, UTAH

By:

Jacki A. Montgomery

Prepared For:

State of Utah  
School & Institutional Trust Lands Administration  
Salt Lake City

Prepared Under Contract With:

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

Submitted By:

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

MOAC Report No. 07-348

October 31, 2007

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

State of Utah Public Lands Policy  
Archaeological Survey Permit No. 117

State of Utah Antiquities Project (Survey)  
Permit No. U-07-MQ-1297s

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 11/29/2007

API NO. ASSIGNED: 43-013-33845

WELL NAME: STATE 1A-16-9-16  
 OPERATOR: NEWFIELD PRODUCTION ( N2695 )  
 CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

NENE 16 090S 160E  
 SURFACE: 0687 FNL 0831 FEL  
 BOTTOM: 0687 FNL 0831 FEL  
 COUNTY: DUCHESNE  
 LATITUDE: 40.03619 LONGITUDE: -110.1172  
 UTM SURF EASTINGS: 575320 NORTHINGS: 4431938  
 FIELD NAME: MONUMENT BUTTE ( 105 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	DVLO	2/25/08
Geology		
Surface		

LEASE TYPE: 3 - State  
 LEASE NUMBER: ML-16532  
 SURFACE OWNER: 3 - State

PROPOSED FORMATION: GRRV  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

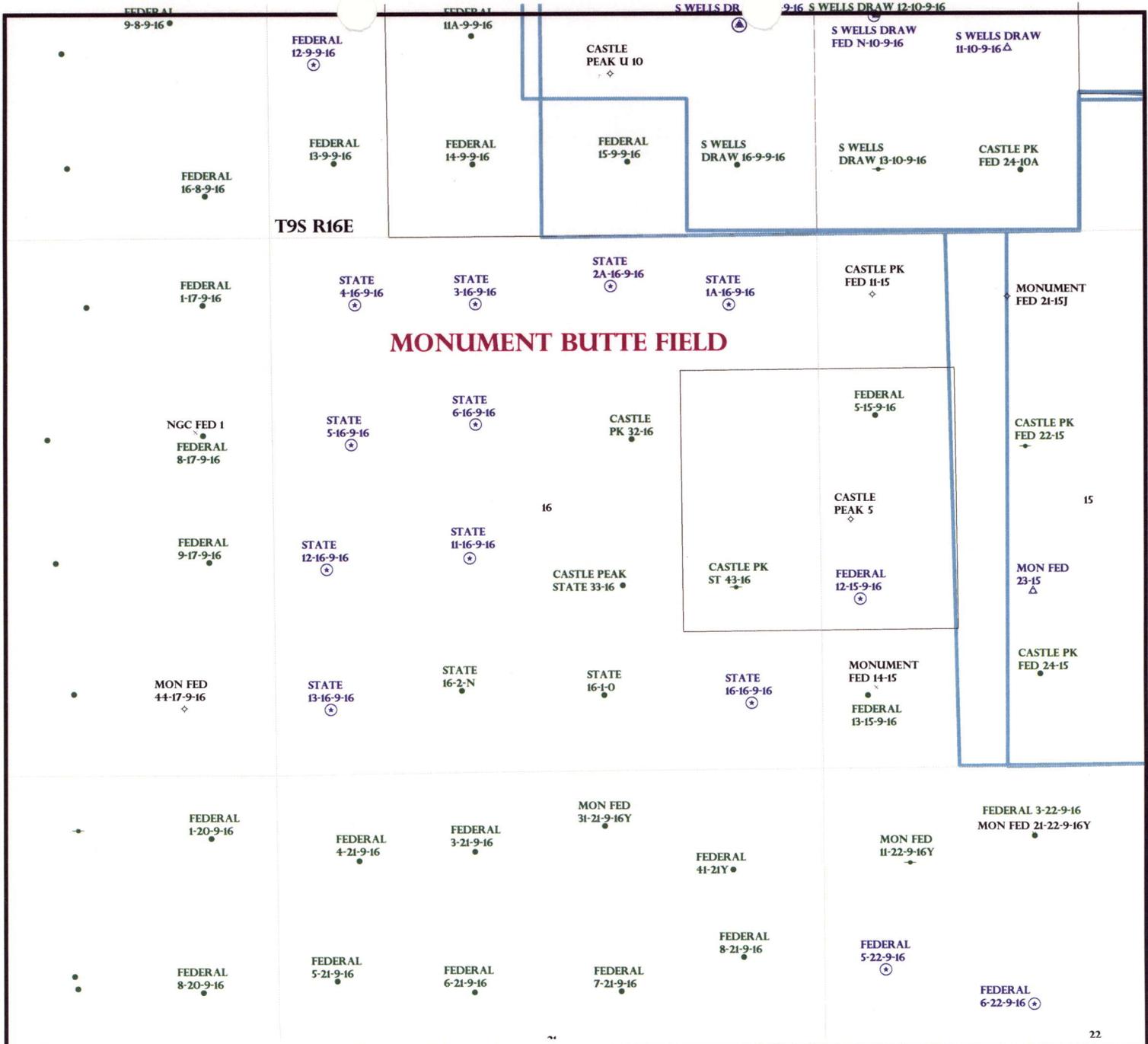
- Plat
- Bond: Fed[] Ind[] Sta[] Fee[]  
(No. B001834 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. MUNICIPAL )
- RDCC Review (Y/N)  
(Date: )
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

LOCATION AND SITING:

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

COMMENTS: Needs Permit (12-13-07)

STIPULATIONS: 1- Spacing Slip  
2- STATEMENT OF BASIS



OPERATOR: NEWFIELD PROD CO (N2695)

SEC: 16 T.9S R. 16E

FIELD: MONUMENT BUTTE (105)

COUNTY: DUCHESNE

SPACING: R649-3-2 / GENERAL SITING

**Field Status**

	ABANDONED
	ACTIVE
	COMBINED
	INACTIVE
	PROPOSED
	STORAGE
	TERMINATED

**Unit Status**

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

**Wells Status**

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



OIL, GAS & MINING



PREPARED BY: DIANA MASON  
DATE: 05-DECEMBER-2007

# Application for Permit to Drill

## Statement of Basis

1/14/2008

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Ownr	CBM
626	43-013-33845-00-00		OW	S	No
<b>Operator</b>	NEWFIELD PRODUCTION COMPANY	<b>Surface Owner-APD</b>			
<b>Well Name</b>	STATE 1A-16-9-16	<b>Unit</b>			
<b>Field</b>	MONUMENT BUTTE	<b>Type of Work</b>			
<b>Location</b>	NENE 16 9S 16E S 687 FNL 831 FEL	GPS Coord (UTM) 575320E 4431938N			

### Geologic Statement of Basis

Newfield proposes to set 290' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 2,900'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of Section 16. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Production casing cement should be brought high enough to cover the estimated base of the moderately saline ground water.

Brad Hill  
APD Evaluator

1/8/2008  
Date / Time

### Surface Statement of Basis

The general area is approximately 22 miles southwest of Myton, Utah in the upper Castle Peak area. Castle Peak Draw runs in a northeasterly direction about 14 miles and joins Pariette Draw. Pariette Draw continues in a southeasterly direction about 6 miles and joins the Green River about 6 miles below Ouray Utah. Pariette Draw contains a perennial stream somewhat consisting of irrigation runoff and seepage. No streams springs or seeps occur in the area. An occasional pond constructed to store runoff for livestock or wildlife exists. Drainages are ephemeral only flowing during spring snowmelt or following intense summer rainstorms. Broad flats or rolling topography intersected by drainages with gentle to moderate side-slopes characterize the area. Access to the area from Myton, Utah is following State of Utah Hwy. 40 and Duchesne County and oilfield development roads a distance of 21.9 miles. Construction of 200 feet of new road will be required.

The proposed State #1A-16-9-16 oil well location is in rolling terrain with a slight ridge to the southwest. The terrain gently slopes to the northwest toward a swale. The reserve pit is planned to be cut into a small ridge to the southwest. A small knoll or rise exists to the northeast. No diversions are needed. The selected site poses no apparent surface concerns and appears to be a good location for constructing a pad, drilling and operating a well. The area was covered with about 10 inches of snow during the evaluation. Both the surface and minerals are owned by SITLA.

Daniel Emmett representing the Utah Division of Wildlife Resources stated the area is classified as substantial value sage grouse brooding habitat and crucial yearlong antelope habitat. He ask Mr. Allred of Newfield and Mr. Davis of SITLA that they try to schedule construction and drilling around the critical period of March 1 to June 15th for sagegrouse brooding. No restrictions for the antelope were requested. No other wildlife are expected to be significantly affected. Mr. Emmett gave Mr. Allred of Newfield Production Company and Mr. Davis of SITLA a copy of his evaluation and also a seed mix recommendation to be used when the reserve pit and location are reclaimed.

Floyd Bartlett  
Onsite Evaluator

12/13/2007  
Date / Time

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# Application for Permit to Drill

## Statement of Basis

1/14/2008

Utah Division of Oil, Gas and Mining

Page 2

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### Conditions of Approval / Application for Permit to Drill

<b>Category</b>	<b>Condition</b>
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

# ON-SITE PREDRILL EVALUATION

## Utah Division of Oil, Gas and Mining

**Operator** NEWFIELD PRODUCTION COMPANY  
**Well Name** STATE 1A-16-9-16  
**API Number** 43-013-33845-0      **APD No** 626      **Field/Unit** MONUMENT BUTTE  
**Location:** 1/4,1/4 NENE      **Sec** 16    **Tw** 9S    **Rng** 16E    687 FNL 831 FEL  
**GPS Coord (UTM)** 575328      **Surface Owner**

### Participants

Floyd Bartlett (DOGM), David Allred (Newfield Production Company), Cory Miller (Tri-State Land Surveying), Jim Davis (SITLA), Daniel Emmett (Utah Division of Wildlife Resources).

### Regional/Local Setting & Topography

The general area is approximately 22 miles southwest of Myton, Utah in the upper Castle Peak area. Castle Peak Draw runs in a northeasterly direction about 14 miles and joins Pariette Draw. Pariette Draw continues in a southeasterly direction about 6 miles and joins the Green River about 6 miles below Ouray Utah. Pariette Draw contains a perennial stream somewhat consisting of irrigation runoff and seepage. No streams springs or seeps occur in the area. An occasional pond constructed to store runoff for livestock or wildlife exists. Drainages are ephemeral only flowing during spring snowmelt or following intense summer rainstorms. Broad flats or rolling topography intersected by drainages with gentle to moderate side-slopes characterize the area. Access to the area from Myton, Utah is following State of Utah Hwy. 40 and Duchesne County and oilfield development roads a distance of 21.9 miles. Construction of 200 feet of new road will be required.

The proposed State #1A-16-9-16 oil well location is in rolling terrain with a slight ridge to the southwest. The terrain gently slopes to the northwest toward a swale. The reserve pit is planned to be cut into a small ridge to the southwest. A small knoll or rise exists to the northeast. No diversions are needed. The selected site poses no apparent surface concerns and appears to be a good location for constructing a pad, drilling and operating a well. The area was covered with about 10 inches of snow during the evaluation. Both the surface and minerals are owned by SITLA.

### Surface Use Plan

#### **Current Surface Use**

Grazing  
Recreational  
Wildlife Habitat

#### **New Road**

<b>Miles</b>	<b>Well Pad</b>		<b>Src Const Material</b>	<b>Surface Formation</b>
0.02	<b>Width</b> 199	<b>Length</b> 290	Onsite	UNTA

**Ancillary Facilities** N

### Waste Management Plan Adequate?

### Environmental Parameters

**Affected Floodplains and/or Wetland** N

#### **Flora / Fauna**

Area was covered with snow. Vegetation is a Deseret shrub type. Identified or expected vegetation consisted of black sagebrush, shadscale, greasewood, mustard weed, rabbit brush, horsebrush, broom snakeweed, and spring annuals.

Cattle, prairie dogs, antelope, small mammals and birds. Golden eagle have been sited in the general area.

**Soil Type and Characteristics**

Moderately deep sandy clay loam with some surface rock.

**Erosion Issues** N

**Sedimentation Issues** N

**Site Stability Issues** N

**Drainage Diversion Required** N

**Berm Required?** N

**Erosion Sedimentation Control Required?** N

**Paleo Survey Run?** N    **Paleo Potential Observed?** N    **Cultural Survey Run?** Y    **Cultural Resources?** N

**Reserve Pit**

**Site-Specific Factors**

**Site Ranking**

<b>Distance to Groundwater (feet)</b>	>200	0
<b>Distance to Surface Water (feet)</b>	>1000	0
<b>Dist. Nearest Municipal Well (ft)</b>	>5280	0
<b>Distance to Other Wells (feet)</b>	300 to 1320	10
<b>Native Soil Type</b>	Mod permeability	10
<b>Fluid Type</b>	Fresh Water	5
<b>Drill Cuttings</b>	Normal Rock	0
<b>Annual Precipitation (inches)</b>	<10	0
<b>Affected Populations</b>	<10	0
<b>Presence Nearby Utility Conduits</b>	Not Present	0

**Final Score** 25    1    **Sensitivity Level**

**Characteristics / Requirements**

A 40' x 80' x 8' deep reserve pit is planned in an area of cut on the southeast side of the location. A pit liner is required. Newfield commonly uses a 16-mil liner.

**Closed Loop Mud Required?** N    **Liner Required?** Y    **Liner Thickness** 16    **Pit Underlayment Required?** Y

**Other Observations / Comments**

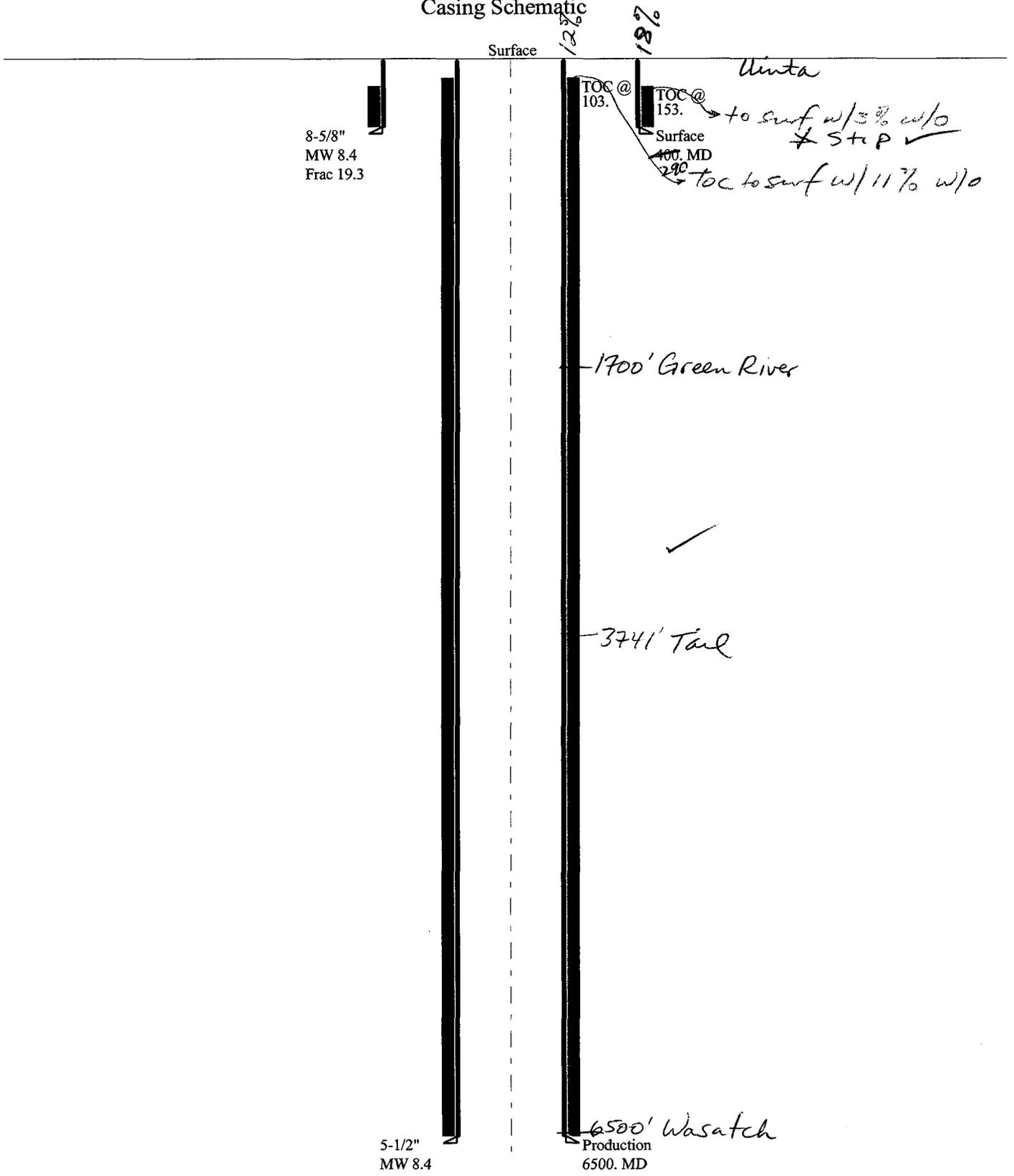
ATV's used to reach site. Site under 10 inches of snow.

Floyd Bartlett  
Evaluator

12/13/2007  
Date / Time

2008-01 Newfield State 1A-16-9-16

Casing Schematic



8-5/8"  
MW 8.4  
Frac 19.3

Surface

TOC @  
103.

TOC @  
153.  
Surface  
400. MD  
290

Uinta

to surf w/ 3 3/4 w/o  
\* Step ✓

to surf w/ 11 7/8 w/o

1700' Green River

3741' Tail

5-1/2"  
MW 8.4

6500' Wasatch  
Production  
6500. MD

# BOPE REVIEW

<b>Well Name</b>	Newfield State 1A-16-9-16 API 43-013-33845
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<b>INPUT</b>																																	
Well Name	Newfield State 1A-16-9-16 API 43-013-33845																																
Casing Size (")	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>String 1</th> <th>String 2</th> <th>String 3</th> <th>String 4</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">8 5/8</td> <td style="text-align: center;">5 1/2</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">290</td> <td style="text-align: center;">6500</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">0</td> <td style="text-align: center;">290</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">8.4</td> <td style="text-align: center;">8.4</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">0</td> <td style="text-align: center;">2000</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">2950</td> <td style="text-align: center;">4810</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">1800</td> <td style="text-align: center;">5.3 ppg</td> <td></td> <td></td> </tr> </tbody> </table>	String 1	String 2	String 3	String 4	8 5/8	5 1/2			290	6500			0	290			8.4	8.4			0	2000			2950	4810			1800	5.3 ppg		
String 1	String 2	String 3	String 4																														
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Setting Depth (TVD)																																	
Previous Shoe Setting Depth (TVD)																																	
Max Mud Weight (ppg)																																	
BOPE Proposed (psi)																																	
Casing Internal Yield (psi)																																	
Operators Max Anticipated Pressure (psi)																																	

#NAME?

<b>Calculations</b>	<b>String 1</b>	<b>8 5/8 "</b>
Max BHP [psi]	$.052 * \text{Setting Depth} * \text{MW} =$	127
<b>BOPE Adequate For Drilling And Setting Casing at Depth?</b>		
MASP (Gas) [psi]	$\text{Max BHP} - (0.12 * \text{Setting Depth}) =$	92
MASP (Gas/Mud) [psi]	$\text{Max BHP} - (0.22 * \text{Setting Depth}) =$	63
<b>*Can Full Expected Pressure Be Held At Previous Shoe?</b>		
Pressure At Previous Shoe	$\text{Max BHP} - .22 * (\text{Setting Depth} - \text{Previous Shoe Depth}) =$	63
Required Casing/BOPE Test Pressure		290 psi
*Max Pressure Allowed @ Previous Casing Shoe =		0 psi
*Assumes 1psi/ft frac gradient		

<b>Calculations</b>	<b>String 2</b>	<b>5 1/2 "</b>
Max BHP [psi]	$.052 * \text{Setting Depth} * \text{MW} =$	2839
<b>BOPE Adequate For Drilling And Setting Casing at Depth?</b>		
MASP (Gas) [psi]	$\text{Max BHP} - (0.12 * \text{Setting Depth}) =$	2059
MASP (Gas/Mud) [psi]	$\text{Max BHP} - (0.22 * \text{Setting Depth}) =$	1409
<b>*Can Full Expected Pressure Be Held At Previous Shoe?</b>		
Pressure At Previous Shoe	$\text{Max BHP} - .22 * (\text{Setting Depth} - \text{Previous Shoe Depth}) =$	1473
Required Casing/BOPE Test Pressure		2000 psi
*Max Pressure Allowed @ Previous Casing Shoe =		290 psi
*Assumes 1psi/ft frac gradient		

*← NO - Known Area - expected Press. + 1000psi; less - 25-yr.*

Well name:

**2008-01 Newfield State 1A-16-9-16**Operator: **Newfield Production Company**String type: **Surface**

Project ID:

43-013-33845

Location: **Duchesne County****Design parameters:****Collapse**Mud weight: 8.400 ppg  
Design is based on evacuated pipe.**Burst**Max anticipated surface  
pressure: 352 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP 400 psi

No backup mud specified.

**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Tension:**8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)Tension is based on buoyed weight.  
Neutral point: 350 ft**Environment:**H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 81 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 290 ft

Cement top: 153 ft

**Non-directional string.****Re subsequent strings:**Next setting depth: 6,500 ft  
Next mud weight: 8.400 ppg  
Next setting BHP: 2,836 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 400 ft  
Injection pressure: 400 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft <sup>3</sup> )
1	400	8.625	24.00	J-55	ST&C	400	400	7.972	143
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	175	1370	7.849	400	2950	7.37	8	244	29.08 J

Prepared by: Helen Sadik-Macdonald  
Div of Oil, Gas & MineralsPhone: 801-538-5357  
FAX: 801-359-3940Date: January 15, 2008  
Salt Lake City, Utah**Remarks:**

Collapse is based on a vertical depth of 400 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop &amp; Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

Well name:	<b>2008-01 Newfield State 1A-16-9-16</b>	
Operator:	<b>Newfield Production Company</b>	
String type:	Production	Project ID: 43-013-33845
Location:	Duchesne County	

**Design parameters:**

**Collapse**

Mud weight: 8.400 ppg  
Design is based on evacuated pipe.

**Burst**

Max anticipated surface pressure: 1,406 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP: 2,836 psi

No backup mud specified.

**Minimum design factors:**

**Collapse:**

Design factor: 1.125

**Burst:**

Design factor: 1.00

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Tension is based on buoyed weight.  
Neutral point: 5,674 ft

**Environment:**

H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 166 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,500 ft

Cement top: 103 ft

**Non-directional string.**

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	6500	5.5	15.50	J-55	LT&C	6500	6500	4.825	868.7

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	2836	4040	1.424	2836	4810	1.70	88	217	2.47 J

Prepared by: Helen Sadik-Macdonald  
Div of Oil, Gas & Minerals

Phone: 801-538-5357  
FAX: 801-359-3940

Date: January 15, 2008  
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 6500 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

**From:** Ed Bonner  
**To:** Mason, Diana  
**Date:** 1/8/2008 12:05 PM  
**Subject:** Well Clearance

**CC:** Davis, Jim; Garrison, LaVonne; Hill, Brad; Jarvis, Dan

The following wells have been given cultural resources clearance by the Trust Lands Cultural Resources Group:

ConocoPhillips Company  
Utah 29-574D (API 43 015 30735)

EOG Resources, Inc  
CWU 956-32 (API 43 047 39515)

Kerr McGee Oil & Gas Onshore LP  
NBU 1021-2N (API 43 047 38840)

Newfield Production Company  
Wells Draw Fed C-5-9-16 (API 43 013 33753)  
State 1A-16-9-16 (API 43 013 33845)  
State 2A-16-9-16 (API 43 013 33846)  
State 3-16-9-16 (API 43 013 33847)  
State 4-16-9-16 (API 43 013 33848)  
State 5-16-9-16 (API 43 013 33849)  
State 6-16-9-16 (API 43 013 33850)  
State 12-16-9-16 (API 43 013 33852)  
State 13-16-9-16 (API 43 013 33853)  
State 16-16-9-16 (API 43 013 33854)

Pioneer Natural Resources USA, Inc  
Main Canyon State 12-16-15-23 (API 43 047 39695)  
Main Canyon State 34-21-15-23 (API 43 047 39696)  
Horse Point State 34-10-16-23 (API 43 019 31558)  
Horse Point State 41-1-16-23 (API 43 019 31599)  
Grand Canyon State 23-35-15.5-23 (API 43 019 31560)

If you have any questions regarding this matter please give me a call.



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

February 25, 2008

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

Re: State 1A-16-9-16 Well, 687' FNL, 831' FEL, NE NE, Sec. 16, T. 9 South, R. 16 East,  
Duchesne County, Utah

Gentlemen:

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

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-33845.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

cc: Duchesne County Assessor  
SITLA

Operator: Newfield Production Company  
Well Name & Number State 1A-16-9-16  
API Number: 43-013-33845  
Lease: ML-16532

Location: NE NE Sec. 16 T. 9 South R. 16 East

### Conditions of Approval

#### 1. General

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

#### 2. Notification Requirements

The operator is required to notify the Division of Oil, Gas and Mining of the following action during drilling of this well:

- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- 24 hours prior to testing blowout prevention equipment – contact Dan Jarvis
- 24 hours prior to spudding the well – contact Carol Daniels
- Within 24 hours of any emergency changes made to the approved drilling program – contact Dustin Doucet
- Prior to commencing operations to plug and abandon the well – contact Dan Jarvis

The operator is required to get approval from the Division of Oil, Gas and Mining before performing any of the following actions during the drilling of this well:

- Plugging and abandonment or significant plug back of this well – contact Dustin Doucet
- Any changes to the approved drilling plan – contact Dustin Doucet

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at: (801) 538-5338 office (801) 942-0871 home
- Carol Daniels at: (801) 538-5284 office
- Dustin Doucet at: (801) 538-5281 office (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. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.
5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)
6. 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.

STATE OF UTAH  
DIVISION OF OIL, GAS, AND MINING

1. <b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NO. <b>ML-16532</b>
Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use "APPLICATION FOR PERMIT TO DRILL OR DEEPEN" form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBAL NAME <b>N/A</b>
OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/>		7. UNIT AGREEMENT NAME <b>NA</b>
2. NAME OF OPERATOR <b>NEWFIELD PRODUCTION COMPANY</b>		8. WELL NAME and NUMBER <b>STATE 1-16-9-16</b> <b>#</b>
3. ADDRESS AND TELEPHONE NUMBER <b>Rt. 3 Box 3630, Myton Utah 84052</b> <b>435-646-3721</b>		9. API NUMBER <b>43-013-33845</b>
4. LOCATION OF WELL Footages <b>687 FNL 831 FEL</b> QQ, SEC, T, R, M: <b>NE/NE Section 16, T9S R16E</b>		10. FIELD AND POOL, OR WILDCAT <b>MONUMENT BUTTE</b>
		COUNTY <b>DUCHESNE</b> STATE <b>UTAH</b>

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

NOTICE OF INTENT: (Submit in Duplicate)	SUBSEQUENT REPORT OF: (Submit Original Form Only)
<input type="checkbox"/> ABANDON	<input type="checkbox"/> ABANDON*
<input type="checkbox"/> REPAIR CASING	<input type="checkbox"/> REPAIR CASING
<input type="checkbox"/> CHANGE OF PLANS	<input type="checkbox"/> CHANGE OF PLANS
<input type="checkbox"/> CONVERT TO INJECTION	<input type="checkbox"/> CONVERT TO INJECTION
<input type="checkbox"/> FRACTURE TREAT OR ACIDIZE	<input type="checkbox"/> FRACTURE TREAT OR ACIDIZE
<input type="checkbox"/> MULTIPLE COMPLETION	<input type="checkbox"/> OTHER _____
<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> NEW CONSTRUCTION
<input type="checkbox"/> PULL OR ALTER CASING	<input type="checkbox"/> PULL OR ALTER CASING
<input type="checkbox"/> RECOMPLETE	<input type="checkbox"/> RECOMPLETE
<input type="checkbox"/> REPERFORATE	<input type="checkbox"/> REPERFORATE
<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> WATER SHUT OFF	
<input checked="" type="checkbox"/> OTHER <u>APD Change</u>	

DATE WORK COMPLETED \_\_\_\_\_  
Report results of Multiple Completion and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.  
\*Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depth for all markers and zones pertinent to this work.)

Newfield Production requests the following changes be made the drilling program on the above mentioned approved APD.  
Surface Casing will be set @ 290'.

13. NAME & SIGNATURE: Mandie Crozier TITLE Regulatory Specialist DATE 3/7/2008

(This space for State use only)

4/94

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING

DATE: 3/19/08

BY: [Signature]

\* See Instructions On Reverse Side

DIV. OF OIL, GAS & MINING

8008

MAR 12 2008

RECEIVED

COPY SENT TO OPERATOR

Date: 3-19-2008

Initials: KS

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

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

OPERATOR ACCT. NO. **N2895**

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION				SPUD DATE	EFFECTIVE DATE	
					QQ	SC	TP	RG			COUNTY
A	99999	16767	4304739268	FEDERAL 14-24-9-17	SESW	24	9S	17E	Utah DUCHESNE	3/26/2008	4/3/08
WELL 1 COMMENTS: <i>GRUV</i>											
B	99999	12275	4304739680	CASTLE DRAW STATE S-2-9-17	NESE	2	9S	17E	Utah DUCHESNE	3/27/2008	4/3/08
WELL 2 COMMENTS: <i>GRUV BHL = NESE</i>											
A	99999	16768	4301333845	state 1A-16-9-16 STATE 1-16-9-16	NENE	16	9S	16E	DUCHESNE	3/29/2008	4/3/08
WELL 3 COMMENTS: <i>GRUV</i>											
B	99999	14844	4304734938	FEDERAL 2-1-9-17	NWNE	1	9S	17E	Utah DUCHESNE	3/29/2008	4/3/08
WELL 4 COMMENTS: <i>GRUV Sundance Unit</i>											
A	99999	16769	4301333846	state 2A-16-9-16 FEDERAL 2-16-9-16	NWNE	16	9S	16E	DUCHESNE	3/31/2008	4/3/08
WELL 5 COMMENTS: <i>GRUV</i>											
A	99999	16770	4304739266	FEDERAL 12-24-9-17	NWSW	24	9S	17E	Utah DUCHESNE	3/31/2008	4/3/08
WELL 6 COMMENTS: <i>GRUV</i>											

ACTION CODES (See instructions on back of form)  
 A - 1 new entity for new well (single well only)  
 B - well to existing entity (group or unit well)  
 C - from one existing entity to another existing entity  
 D - well from one existing entity to a new entity  
 E - other (explain in comments section)

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

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*Jentri Park*  
 Signature  
 Jentri Park  
 Production Clerk  
 01/02/08  
 Date



NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8 CASING SET AT 323.67

LAST CASING 8 5/8" SET AT 323.67'  
 DATUM 12' KB  
 DATUM TO CUT OFF CASING \_\_\_\_\_  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER 320' LOGGER N/A  
 HOLE SIZE 12 1/4

OPERATOR Newfield Production  
 WELL State 1 -16-9-16  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # Ross # 21

LOG OF CASING STRING:

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		44.69' SH jt					
		WHI - 92 csg head			8rd	A	0.95
7	8 5/8"	Maverick ST&C csg	24#	J-55	8rd	A	311.82
		GUIDE shoe			8rd	A	0.9
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			313.67
TOTAL LENGTH OF STRING		313.67	7	LESS CUT OFF PIECE			2
LESS NON CSG. ITEMS		1.85		PLUS DATUM TO T/CUT OFF CSG			12
PLUS FULL JTS LEFT OUT		0		CASING SET DEPTH			<b>323.67</b>
HOLE SIZE TOTAL		311.82	7	} COMPARE			
TOTAL CSG. DEL. (W/O THRDS)		296.06	7				
TIMING		1ST STAGE					
BEGIN RUN CSG.	Spud	3/29/2008	8:00 AM	GOOD CIRC THRU JOB			yes
CSG. IN HOLE		3/29/2008	4:00 PM	Bbls CMT CIRC TO SURFACE			4
BEGIN CIRC		4/3/2008	6:23 AM	RECIPROCATED PIPE IN/A			
BEGIN PUMP CMT		4/3/2008	6:29 AM	DID BACK PRES. VALVE HOLD ?			N/A
BEGIN DSPL. CMT		4/3/2008	6:42	BUMPED PLUG TO			130 PSI
PLUG DOWN		4/3/2008	6:53 AM				

CEMENT USED		CEMENT COMPANY- <b>B. J.</b>				
STAGE	# SX	CEMENT TYPE & ADDITIVES				
TOTAL LENGTH	160	Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield				
LESS NON CSG.						
PLUS FULL JTS.						
CENTRALIZER & SCRATCHER PLACEMENT			SHOW MAKE & SPACING			
Centralizers - Middle first, top second & third for 3						
TIMING						

COMPANY REPRESENTATIVE Ray Herrera DATE 4/3/2008

CEMENT USED	
STAGE	
OD	
LENGTH	
PLUS FULL JTS.	

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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
**UTAH STATE ML-16532**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		8. WELL NAME and NUMBER: STATE <b>16</b> -16-9-16
2. NAME OF OPERATOR: <b>NEWFIELD PRODUCTION COMPANY</b>		9. API NUMBER: <b>430133845</b>
3. ADDRESS OF OPERATOR: <b>Route 3 Box 3630</b> CITY <b>Myton</b> STATE <b>UT</b> ZIP <b>84052</b>	PHONE NUMBER: <b>435.646.3721</b>	10. FIELD AND POOL, OR WILDCAT: <b>MONUMENT BUTTE</b>
4. LOCATION OF WELL: FOOTAGES AT SURFACE: <b>687 FNL 831 FEL</b>		COUNTY: <b>DUCHESNE</b>
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: <b>NENE, 16, T9S, R16E</b>		STATE: <b>UT</b>

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will  _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion: <b>04/24/2008</b>	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Weekly Status Report
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

On 4/18/08 MIRU Patterson Rig # 52. Set all equipment. Pressure test Kelly, TIW, Choke manifold, & Bop's to 2,000 psi. Test 8.625 csgn to 1,500 psi. Vernal BLM field, & Roosevelt DOGM office was notified of test. PU BHA and tag cement @ 250'. Drill out cement & shoe. Drill a 7.875 hole with fresh water to a depth of 5835'. Lay down drill string & BHA. Open hole log w/ Dig/SP/GR log's TD to surface. PU & TIH with Guide shoe, shoe jt, float collar, 142 jt's of 5.5 J-55, 15.5# csgn. Set @ 5830.47' / KB. Cement with 300 sks cement mixed @ 11.0 ppg & 3.43 yld. The 425 sks cement mixed @ 14.4 ppg & 1.24 yld. Returned 45 bbls of cement to reserve pit. Nipple down Bop's. Drop slips @ 96,000 #'s tension. Release rig @ 4:00 am 4/24/08.

NAME (PLEASE PRINT) Don Bastian                      TITLE Drilling Foreman

SIGNATURE *Don Bastian*                      DATE 04/24/2008

(This space for State use only)

**RECEIVED**  
**APR 30 2008**  
**DIV. OF OIL, GAS & MINING**

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

5 1/2" CASING SET AT 5830.47

Fit clr @ 5788.84'

LAST CASING 8 5/8" SET # 323'

OPERATOR **Newfield Production Company**

DATUM 12' KB

WELL **State 1A-16-9-16**

DATUM TO CUT OFF CASING 12'

FIELD/PROSPECT **Monument Butte**

DATUM TO BRADENHEAD FLANGE

CONTRACTOR & RIG # **Patterson #52**

TD DRILLER 5835 Loggers 5865'

HOLE SIZE 7 7/8"

**LOG OF CASING STRING:**

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		Landing Jt					14
		<b>Short jt</b> 3880' (6.07')					
<b>142</b>	<b>5 1/2"</b>	ETC LT & C casing	<b>15.5#</b>	<b>J-55</b>	<b>8rd</b>	<b>A</b>	5774.84
		Float collar					0.6
<b>1</b>	<b>5 1/2"</b>	ETC LT&C csg	<b>15.5#</b>	<b>J-55</b>	<b>8rd</b>	<b>A</b>	42.38
		<b>GUIDE</b> shoe			<b>8rd</b>	<b>A</b>	0.65
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			5832.47
TOTAL LENGTH OF STRING		5832.47	143	LESS CUT OFF PIECE			14
LESS NON CSG. ITEMS		15.25		PLUS DATUM TO T/CUT OFF CSG			12
PLUS FULL JTS. LEFT OUT		345.88	9	CASING SET DEPTH			<b>5830.47</b>
TOTAL		<b>6163.10</b>	152	} COMPARE			
TOTAL CSG. DEL. (W/O THRDS)		6163.09	144				
TIMING		1ST STAGE	2nd STAGE				
BEGIN RUN CSG.		2:30 PM	4/23/2008	GOOD CIRC THRU JOB			Yes
CSG. IN HOLE		6:30 PM	4/23/2008	Bbls CMT CIRC TO SURFACE			47
BEGIN CIRC		6:50 PM	4/23/2008	RECIPROCATED PIPE FOR			THRUSTROKE NA
BEGIN PUMP CMT		9:00 PM	4/23/2008	DID BACK PRES. VALVE HOLD ?			9:00
BEGIN DSPL. CMT		10:11 PM	4/23/2008	BUMPED PLUG TO			1450 PSI
PLUG DOWN		10:32 PM	4/23/2008				

CEMENT USED		CEMENT COMPANY- <b>B. J.</b>					
STAGE	# SX	CEMENT TYPE & ADDITIVES					
<b>1</b>	<b>300</b>	Premilite II w/ 10% gel + 3 % KCL, 3#s /sk CSE + 2# sk/kolseal + 1/2#s/sk Cello Flake					
		mixed @ 11.0 ppg W / 3.43 cf/sk yield					
<b>2</b>	<b>425</b>	50/50 poz W/ 2% Gel + 3% KCL, .5%EC1, 1/4# sk C.F. 2% gel. 3% SM mixed @ 14.4 ppg W/ 1.24 YLD					
CENTRALIZER & SCRATCHER PLACEMENT			SHOW MAKE & SPACING				
Centralizers - Middle first, top second & third. Then every third collar for a total of 20.							

COMPANY REPRESENTATIVE Don Bastian DATE 4/23/2008

STATE OF UTAH

DIVISION OF OIL, GAS, AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use \*APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

OIL WELL  GAS WELL  OTHER

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

3. ADDRESS AND TELEPHONE NUMBER  
**Rt. 3 Box 3630, Myton Utah 84052  
435-646-3721**

4. LOCATION OF WELL  
Footages **687 FNL 831 FEL**  
QQ, SEC, T, R, M: **NE/NE Section 16, T9S R16E**

5. LEASE DESIGNATION AND SERIAL NO.  
**ML-16532**

6. IF INDIAN, ALLOTTEE OR TRIBAL NAME  
**N/A**

7. UNIT AGREEMENT NAME  
**NA**

8. WELL NAME and NUMBER  
**STATE 1A-16-9-16**

9. API NUMBER  
**43-013-33845**

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

COUNTY **DUCHESNE**  
STATE **UTAH**

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

NOTICE OF INTENT:

(Submit in Duplicate)

- ABANDON
- REPAIR CASING
- CHANGE OF PLANS
- CONVERT TO INJECTION
- FRACTURE TREAT OR ACIDIZE
- MULTIPLE COMPLETION
- OTHER APD Change
- NEW CONSTRUCTION
- PULL OR ALTER CASING
- RECOMPLETE
- REPERFORATE
- VENT OR FLARE
- WATER SHUT OFF

SUBSEQUENT REPORT OF:

(Submit Original Form Only)

- ABANDON\*
- REPAIR CASING
- CHANGE OF PLANS
- CONVERT TO INJECTION
- FRACTURE TREAT OR ACIDIZE
- OTHER
- NEW CONSTRUCTION
- PULL OR ALTER CASING
- RECOMPLETE
- REPERFORATE
- VENT OR FLARE

DATE WORK COMPLETED \_\_\_\_\_

Report results of Multiple Completion and Re Completions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

\*Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depth for all markers and zones pertinent to this work.

Newfeild Production requests the change the name of the above mentioned well to the State 1-16-9-16.

13. NAME & SIGNATURE: Mandie Crozier TITLE Regulatory Specialist DATE 3/4/2008  
Mandie Crozier

(This space for State use only)

4/94

\* See Instructions On Reverse Side

Approved by the  
Utah Division of  
Oil, Gas and Mining

COPY SENT TO OPERATOR

Date: 5-1-2008

Initials: KS

RECEIVED

MAR 05 2008

DIV. OF OIL, GAS & MINING

Date: 04-29-08

By: [Signature]

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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
UTAH STATE ML-16532

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

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

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: 687 FNL 831 FEL COUNTY: DUCHESNE  
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NENE, 16, T9S, R16E STATE: UT

8. WELL NAME and NUMBER:  
STATE 1-16-9-16

9. API NUMBER:  
4301333845

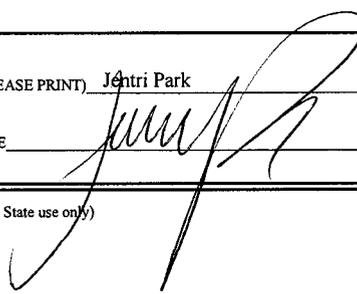
10. FIELD AND POOL, OR WILDCAT:  
MONUMENT BUTTE

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: 05/30/2008	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Weekly Status Report
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
The above subject well was completed on 05/22/08, attached is a daily completion status report.

NAME (PLEASE PRINT) Jentri Park TITLE Production Clerk

SIGNATURE  DATE 05/30/2008

(This space for State use only)

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**JUN 04 2008**  
DIV. OF OIL, GAS & MINING

## Daily Activity Report

Format For Sundry

STATE 1-16-9-16

3/1/2008 To 7/30/2008

5/9/2008 Day: 1

Completion

Rigless on 5/8/2008 - Install 5M frac head. NU 6" 5M Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 5618' & cement top @ 90'. Perforate stage #1. CP1 sds @ 5549- 56' w/ 3 1/8" slick guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 28 shots. 138 BWTR. SIFN.

5/16/2008 Day: 2

Completion

Rigless on 5/15/2008 - Stage #1, CP1 sands. RU BJ Services. 0 psi on well. Frac CP1 sds w/ 19,592#'s of 20/40 sand in 324 bbls of Lightning 17 fluid. Broke @ 3083 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 2457 psi @ ave rate of 23.1 BPM. Pumped 504 gals of 15% HCL in flush for Stage #2. ISIP 1720 psi. Leave pressure on well. 462 BWTR Stage #2, LODC sands. RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 11' perf gun. Set plug @ 5310'. Perforate LODC sds @ 5200- 5211' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 44 shots. RU BJ Services. 1190 psi on well. Frac LODC sds w/ 44,487#'s of 20/40 sand in 448 bbls of Lightning 17 fluid. Broke @ 2693 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 2174 psi @ ave rate of 23.4 BPM. Pumped 504 gals of 15% HCL in flush for Stage #3. ISIP 2560 psi. Leave pressure on well. 910 BWTR Stage #3, A1 sands. RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 10' perf gun. Set plug @ 5160'. Perforate A1 sds @ 5086- 5096' 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. 1975 psi on well. Frac A1 sds w/ 45,335#'s of 20/40 sand in 439 bbls of Lightning 17 fluid. Broke @ 3818 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1987 psi @ ave rate of 23.3 BPM. Pumped 504 gals of 15% HCL in flush for Stage #4. ISIP 2240 psi. Leave pressure on well. 1349 BWTR Stage #4, B2 sands. RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 6' perf gun. Set plug @ 5040'. Perforate B2 sds @ 4938- 44' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 24 shots. RU BJ Services. 1800 psi on well. Frac B2 sds w/ 20,020#'s of 20/40 sand in 310 bbls of Lightning 17 fluid. Broke @ 3841 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 2133 psi @ ave rate of 23.2 BPM. Pumped 504 gals of 15% HCL in flush for Stage #5. ISIP 1885 psi. Leave pressure on well. 1659 BWTR Stage #5, D3 sands. RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 6' perf gun. Set plug @ 4870'. Perforate D3 sds @ 4762- 68' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 24 shots. RU BJ Services. 1510 psi on well. Frac D3 sds w/ 20,619#'s of 20/40 sand in 307 bbls of Lightning 17 fluid. Broke @ 4060 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1898 psi @ ave rate of 23.4 BPM. Pumped 504 gals of 15% HCL in flush for Stage #6. ISIP 2099 psi. Leave pressure on well. 1966 BWTR Stage #6, GB4 & GB6 sands. RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac

plug, 10 & 12' perf gun. Set plug @ 4260'. Perforate GB6 sds @ 4155- 65', GB4 sds @ 4130'- 42' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 88 shots. RU BJ Services. 1270 psi on well. Frac GB4 & GB6 sds w/ 91,335#'s of 20/40 sand in 664 bbls of Lightning 17 fluid. Broke @ 1455 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1983 psi @ ave rate of 23.3 BPM. ISIP 1900 psi. Begin immediate flowback on 12/64 choke @ 1 BPM. Flowed for 6 hrs & died. Rec 335 BTF. SIWFN w/ 2295 BWTR.

---

5/17/2008 Day: 3

Completion

Leed #731 on 5/16/2008 - 50 psi on well. MIRU Leed rig 731. Bleed off pressure. ND Cameron BOP & 5M WH. NU 3M WH & Schaffer BOP. Talley tbg & get ready to PU tbg. SIWFN w/ 2283 BWTR. .

---

5/18/2008 Day: 4

Completion

Leed #731 on 5/17/2008 - 0 psi on well. Bleed off pressure. Talley, PU & RIH w/ 4 3/4" chomp bit, Bit sub & 2 7/8" J-55 tbg. Tagged sand @ 4215'. RU Nabors power swivel. Circulate sand & drill out plugs. Sand @ 4215', Plug @ 4260' (Drilled out 10 mins). Tagged sand @ 4800', Plug @ 4870' (Drilled up in 15 mins). No sand, Plug @ 5040' (Drilled out 10 mins). Tagged sand @ 5135', Plug @ 5160' (Drilled up in 10 mins). Tagged sand @ 52900', Plug @ 5310' (Drilled out 10 mins). Tagged fill @ 5570'. C/O well clean. LD 3-jts of tbg. EOT @ 5481'. SIWFN w/ 2266 BWTR.

---

5/20/2008 Day: 5

Completion

Leed #731 on 5/19/2008 - 0 psi on well. Bleed off pressure. TIH w/ tbg. Tagged fill @ 5570'. C/O to PBTD @ 5787'. RD power swivel. LD 2 jts of tbg. EOT @ 5694'. RU swab equipment. IFL @ surface. Made 16 runs, Rec 150 BTF. FFL @ 1300'. Trace of oil, No sand. RD swab equipment. TIH w/ tbg. Tagged fill @ 5787'. C/O to PBTD @ 5787'. LD 6 jts of tbg. TOH w/ 76 jts of tbg. EOT @ 3204'. SIWFN w/ 2177 BWTR. .

---

5/21/2008 Day: 6

Completion

Leed #731 on 5/20/2008 - 0 psi on well. Continue TOH w/ tbg. LD bit & bit sub. TIH w/ production tbg as follows: NC, 2- jts, SN, 1- jt, TA & 175 jts of 2 7/8" J-55 tbg. ND BOP. Set TA w/ 16,000#'s tension @ 5509', SN @ 5541', EOT @ 5605'. Land tbg on flange. SIWFN w/ 2177 BWTR. .

---

5/22/2008 Day: 7

Completion

Leed #731 on 5/21/2008 - 0 psi on well. Flush tbg w/ 60 bbls of wtr. PU & prime rod pump. PU & TIH w/ "B" grade rods as follows: CDI 2 1/2" X 1 1/2" X 15 1/2' RHAC, 6- wt bars, 40- 3/4" guided rods, 70- 3/4" plain rods, 105- 3/4" guided rods, 1- 2', 1- 8' X 3/4" pony rods, 1 1/2" X 22' Polish rod. Hang head, Space out rods. Pressure test w/ unit to 800 psi, Good. RD MOSU. SIWFN w/ 2177 BWTR. Left unit down due to surface equipment issues. FINAL REPORT will follow.,

---

5/23/2008 Day: 8

Completion

Leed #731 on 5/22/2008 - PWOP @ 1:00PM @ 5 SPM w/ Est 2177 BWTR. FINAL REPORT.

---

Pertinent Files: Go to File List

(See other instructions on reverse side)

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

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

5. LEASE DESIGNATION AND SERIAL NO.  
**ML-16532**

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

7. UNIT AGREEMENT NAME  
**State**

8. FARM OR LEASE NAME, WELL NO.  
**State 1-16-9-16**

9. WELL NO.  
**43-013-33845**

10. FIELD AND POOL OR WILDCAT  
**Monument Butte**

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
**Sec. 16, T9S, R16E**

12. COUNTY OR PARISH  
**Duchesne**

13. STATE  
**UT**

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

1a. TYPE OF WORK

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

1b. TYPE OF WELL

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

2. NAME OF OPERATOR

**Newfield Exploration Company**

3. ADDRESS AND TELEPHONE NO.

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

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

At Surface **687' FNL & 831' FEL (NE/NE) Sec. 16, T9S, R16E**

At top prod. Interval reported below

14. API NO. **43-013-33845** DATE ISSUED **02/25/08**

15. DATE SPUDDED **03/29/08** 16. DATE T.D. REACHED **04/23/08** 17. DATE COMPL. (Ready to prod.) **05/21/08** 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* **5776' GL** 19. ELEV. CASINGHEAD **5788'**

20. TOTAL DEPTH, MD & TVD **5835'** 21. PLUG BACK T.D., MD & TVD **5787'** 22. IF MULTIPLE COMPL., HOW MANY\* \_\_\_\_\_ 23. INTERVALS DRILLED BY **----->** ROTARY TOOLS **X** CABLE TOOLS \_\_\_\_\_

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)\*  
**Green River 4130'-5556'**

25. WAS DIRECTIONAL SURVEY MADE  
**No**

26. TYPE ELECTRIC AND OTHER LOGS RUN  
**Dual Induction Guard, SP, Compensated Neutron, GR, Caliper, Cement Bond Log**

27. WAS WELL CORED  
**No**

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

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8-5/8" - J-55	24#	324'	12-1/4"	To surface with 160 sx Class "G" cmt	
5-1/2" - J-55	15.5#	5830'	7-7/8"	300 sx Premlite II and 425 sx 50/50 Poz	

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	EOT @	TA @
	5605'	5506'

31. PERFORATION RECORD (Interval, size and number)

INTERVAL	SIZE	SPF/NUMBER
(CP1) 5549'-5556'	.49"	4/28
(LODC) 5200'-5211'	.49"	4/44
(A1) 5086'-5096'	.49"	4/40
(B2) 4938'-4944'	.49"	4/24
(D3) 4762'-4768'	.49"	4/24
(GB6 & 4) 4155'-65', 4130'-42'	.49"	4/88

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5549'-5556'	Frac w/ 19,592# 20/40 sand in 324 bbls fluid
5200'-5211'	Frac w/ 44,487# 20/40 sand in 448 bbls fluid
5086'-5096'	Frac w/ 45,335# 20/40 sand in 439 bbls fluid
4938'-4944'	Frac w/ 20,020# 20/40 sand in 310 bbls fluid
4762'-4768'	Frac w/ 20,619# 20/40 sand in 307 bbls fluid
4130'-4165'	Frac w/ 91,335# 20/40 sand in 664 bbls fluid

33.\* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump)	WELL STATUS (Producing or shut-in)					
05/29/08	2-1/2" x 1-1/2" x 15.5' RHAC "CDI"	PRODUCING					
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PRODN. FOR TEST PERIOD	OIL--BBL.	GAS--MCF.	WATER--BBL.	GAS-OIL RATIO
06-05-08			---->	97	0	20	0
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL-BBL.	GAS--MCF.	WATER--BBL.	OIL GRAVITY-API (CORR.)	
		---->					

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

TEST WITNESSED BY  
**JUL 07 2008**

35. LIST OF ATTACHMENTS

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

SIGNED Jentri Park TITLE Production Tech DATE 7/1/2008

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

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

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

38. GEOLOGIC MARKERS	FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	TOP		
					MEAS. DEPTH	TRUE VERT. DEPTH	
38. GEOLOGIC MARKERS				Well Name State 1-16-9-16	Garden Gulch Mkr	3625'	
					Garden Gulch 1	3838'	
					Garden Gulch 2	3946'	
					Point 3 Mkr	4201'	
					X Mkr	4466'	
					Y-Mkr	4503'	
					Douglas Creek Mkr	4621'	
					BiCarbonate Mkr	4854'	
					B Limestone Mkr	4967'	
					Castle Peak	5476'	
					Basal Carbonate	NP	
Total Depth (LOGGERS)	5865'						

# NEWFIELD



Well Name: State 1-16-9-16  
 LOCATION: S16, T9S, R16E  
 COUNTY/STATE: Duchesne  
 API: 43-013-33845

Spud Date: 3-29-08  
 TD: 5835  
 CSG: 4-23-08  
 POP: 5-21-08

DATE	HRS	Oil (bbls)	Water (bbls)	Recovered Water (bbls)	Gas (mcf)	Casing Pressure (psi)	SPM	Comments
5/21/2008				2177				POP @ 1:00 P.M. @ 5 SPM. 2177 total water to recover
5/22/2008				2177				
5/23/2008	24			2177		50	5 3/4	
5/24/2008	24			2177		25	4 1/2	
5/25/2008	24			2177		24	4 1/4	
5/26/2008	24			2177		70	4 1/4	
5/27/2008	24			2177		70	4 1/4	
5/28/2008	24			2177		80	4 1/4	
5/29/2008	24	43	11	2166		80	4 3/4	
5/30/2008	24	43	11	2155		80	5	
5/31/2008	24	43	11	2144		150	5 1/4	
6/1/2008	24	9	10	2134		225	5 1/4	
6/2/2008	24	9	10	2124		140	4 1/4	
6/3/2008	24	10	5	2119		225	5	
6/4/2008	12	86	25	2094		280		Down - bad governor
6/5/2008	8	97	20	2074		180		Down - high pressure
6/6/2008	10	21	12	2062		70	4 3/4	Down - weather
6/7/2008	24	34	13	2049		75	4 3/4	
6/8/2008	24	32	10	2039		75	4 3/4	
6/9/2008	24	38	8	2031		70	4 3/4	
6/10/2008	24	38	8	2023		75	4 3/4	
6/11/2008	24	38	9	2014		80	4 3/4	
6/12/2008	24	38	9	2005		82	4 1/2	
6/13/2008	24	38	9	1996		82	4 1/2	
6/14/2008	24	38	9	1987		80	4 1/2	
6/15/2008	24	38	9	1978		80	4	
6/16/2008	24	38	9	1969		80	4 1/4	
6/17/2008				1969				
6/18/2008				1969				
6/19/2008				1969				
6/20/2008				1969				
6/21/2008				1969				
6/22/2008				1969				
		<b>731</b>	<b>208</b>		<b>0</b>			

STATE OF UTAH  
 DIVISION OF OIL, GAS, AND MINING

<b>1. SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use *APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.		5. LEASE DESIGNATION AND SERIAL NO. <b>ML-16532</b>
OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBAL NAME  <b>N/A</b>
2. NAME OF OPERATOR <b>NEWFIELD PRODUCTION COMPANY</b>		7. UNIT AGREEMENT NAME  <b>NA</b>
3. ADDRESS AND TELEPHONE NUMBER <b>Rt. 3 Box 3630, Myton Utah 84052                  435-646-3721</b>		8. WELL NAME and NUMBER <b>STATE 1-16-9-16</b>
4. LOCATION OF WELL  Footages <b>687 FNL 831 FEL</b>  QQ, SEC. T, R, M: <b>NE/NE Section 16, T9S R16E</b>		9. API NUMBER <b>43-013-33845</b>
		10. FIELD AND POOL, OR WILDCAT  <b>MONUMENT BUTTE</b>

COUNTY **DUCHESNE**  
 STATE **UTAH**

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

NOTICE OF INTENT: (Submit in Duplicate)	SUBSEQUENT REPORT OF: (Submit Original Form Only)
<input type="checkbox"/> ABANDON	<input type="checkbox"/> ABANDON*
<input type="checkbox"/> REPAIR CASING	<input type="checkbox"/> REPAIR CASING
<input type="checkbox"/> CHANGE OF PLANS	<input checked="" type="checkbox"/> CHANGE OF PLANS
<input type="checkbox"/> CONVERT TO INJECTION	<input type="checkbox"/> CONVERT TO INJECTION
<input type="checkbox"/> FRACTURE TREAT OR ACIDIZE	<input type="checkbox"/> FRACTURE TREAT OR ACIDIZE
<input type="checkbox"/> MULTIPLE COMPLETION	<input type="checkbox"/> OTHER _____
<input type="checkbox"/> OTHER _____	
<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> NEW CONSTRUCTION
<input type="checkbox"/> PULL OR ALTER CASING	<input type="checkbox"/> PULL OR ALTER CASING
<input type="checkbox"/> RECOMPLETE	<input type="checkbox"/> RECOMPLETE
<input type="checkbox"/> REPERFORATE	<input type="checkbox"/> REPERFORATE
<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> VENT OR FLARE

DATE WORK COMPLETED \_\_\_\_\_  
 Report results of Multiple Completion and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.  
 \*Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depth for all markers and zones pertinent to this work.)

As per a conversation with Helen Sadik MacDonald approval was given to go ahead and set the planned 290' of surface casing that is normally set on wells drilled within the Monument Butte field by Newfield Production. Subsequently 324' of surface casing was set on the above mentioned well.

13. NAME & SIGNATURE *Mandie Crozier* TITLE Regulatory Specialist DATE 7/21/2008  
Mandie Crozier

(This space for State use only)

**RECEIVED**  
**JUL 25 2008**  
 DIV. OF OIL, GAS & MINING

**DIVISION OF OIL, GAS AND MINING**

**SPUDDING INFORMATION**

Name of Company: NEWFIELD PRODUCTION COMPANY

Well Name: STATE 1A-16-9-16

Api No: 43-013-33845 Lease Type: STATE

Section 16 Township 09S Range 16E County DUCHESNE

Drilling Contractor ROSS DRILLING RIG # 21

**SPUDDED:**

Date 03/28/08

Time 8:00 AM

How DRY

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

Reported by DON BASTIAN

Telephone # (435) 823-6012

Date 03/31/08 Signed CHD

STATE OF UTAH

DIVISION OF OIL, GAS, AND MINING

<p><b>1. SUNDRY NOTICES AND REPORTS ON WELLS</b></p> <p>Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use "APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.</p> <p>OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/></p> <p><b>2. NAME OF OPERATOR</b> NEWFIELD PRODUCTION COMPANY</p> <p><b>3. ADDRESS AND TELEPHONE NUMBER</b> Rt. 3 Box 3630, Myton Utah 84052 435-646-3721</p> <p><b>4. LOCATION OF WELL</b></p> <p>Footages: <b>687 FNL 831 FEL</b></p> <p>QQ, SEC, T, R, M: <b>NE/NE Section 16, T9S R16E</b></p>	<p><b>5. LEASE DESIGNATION AND SERIAL NO.</b> ML-16532</p> <p><b>6. IF INDIAN, ALLOTTEE OR TRIBAL NAME</b> N/A</p> <p><b>7. UNIT AGREEMENT NAME</b> NA</p> <p><b>8. WELL NAME and NUMBER</b> STATE 1-16-9-16</p> <p><b>9. API NUMBER</b> 43-013-33845</p> <p><b>10. FIELD AND POOL, OR WILDCAT</b> MONUMENT BUTTE</p> <p>COUNTY <b>DUCHESNE</b> STATE <b>UTAH</b></p>
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**11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

<p><b>NOTICE OF INTENT:</b> (Submit in Duplicate)</p> <p><input type="checkbox"/> ABANDON                      <input type="checkbox"/> NEW CONSTRUCTION</p> <p><input type="checkbox"/> REPAIR CASING                <input type="checkbox"/> PULL OR ALTER CASING</p> <p><input type="checkbox"/> CHANGE OF PLANS              <input type="checkbox"/> RECOMPLETE</p> <p><input type="checkbox"/> CONVERT TO INJECTION        <input type="checkbox"/> REPERFORATE</p> <p><input type="checkbox"/> FRACTURE TREAT OR ACIDIZE   <input type="checkbox"/> VENT OR FLARE</p> <p><input type="checkbox"/> MULTIPLE COMPLETION         <input type="checkbox"/> WATER SHUT OFF</p> <p><input type="checkbox"/> OTHER _____</p>	<p><b>SUBSEQUENT REPORT OF:</b> (Submit Original Form Only)</p> <p><input type="checkbox"/> ABANDON*                      <input type="checkbox"/> NEW CONSTRUCTION</p> <p><input type="checkbox"/> REPAIR CASING                <input type="checkbox"/> PULL OR ALTER CASING</p> <p><input checked="" type="checkbox"/> CHANGE OF PLANS              <input type="checkbox"/> RECOMPLETE</p> <p><input type="checkbox"/> CONVERT TO INJECTION        <input type="checkbox"/> REPERFORATE</p> <p><input type="checkbox"/> FRACTURE TREAT OR ACIDIZE   <input type="checkbox"/> VENT OR FLARE</p> <p><input type="checkbox"/> OTHER _____</p> <p>DATE WORK COMPLETED _____</p> <p>Report results of Multiple Completion and Re Completions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.</p> <p><small>*Must be accompanied by a cement verification report.</small></p>
--	---

**12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS.** (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depth for all markers and zones pertinent to this work.)

As per a conversation with Helen Sadik MacDonald approval was given to go ahead and set the planned 290' of surface casing that is normally set on wells drilled within the Monument Butte field by Newfield Production. Subsequently 324' of surface casing was set on the above mentioned well.

**13. NAME & SIGNATURE** Mandie Crozier **TITLE** Regulatory Specialist **DATE** 7/21/2008

(This space for State use only)

**RECEIVED**  
**JUL 25 2008**  
DIV. OF OIL, GAS & MINING

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML-16532
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>8. WELL NAME and NUMBER:</b> STATE 1-16-9-16
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>9. API NUMBER:</b> 43013338450000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0687 FNL 0831 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NENE Section: 16 Township: 09.0S Range: 16.0E Meridian: S		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH

11.

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

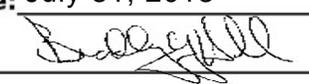
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/15/2013	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input checked="" type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input checked="" type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>

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

The subject well has been converted from a producing oil well to an injection well on 07/11/2013. On 07/12/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 07/15/2013 the casing was pressured up to 2000 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 450 psig during the test. There was not a State representative available to witness the test.

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

Date: July 31, 2013

By: 

<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 7/23/2013	

# Mechanical Integrity Test Casing or Annulus Pressure Test

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

Witness: \_\_\_\_\_ Date 7/15/13 Time 9:30 am pm  
Test Conducted by: Riley Bagley  
Others Present: \_\_\_\_\_

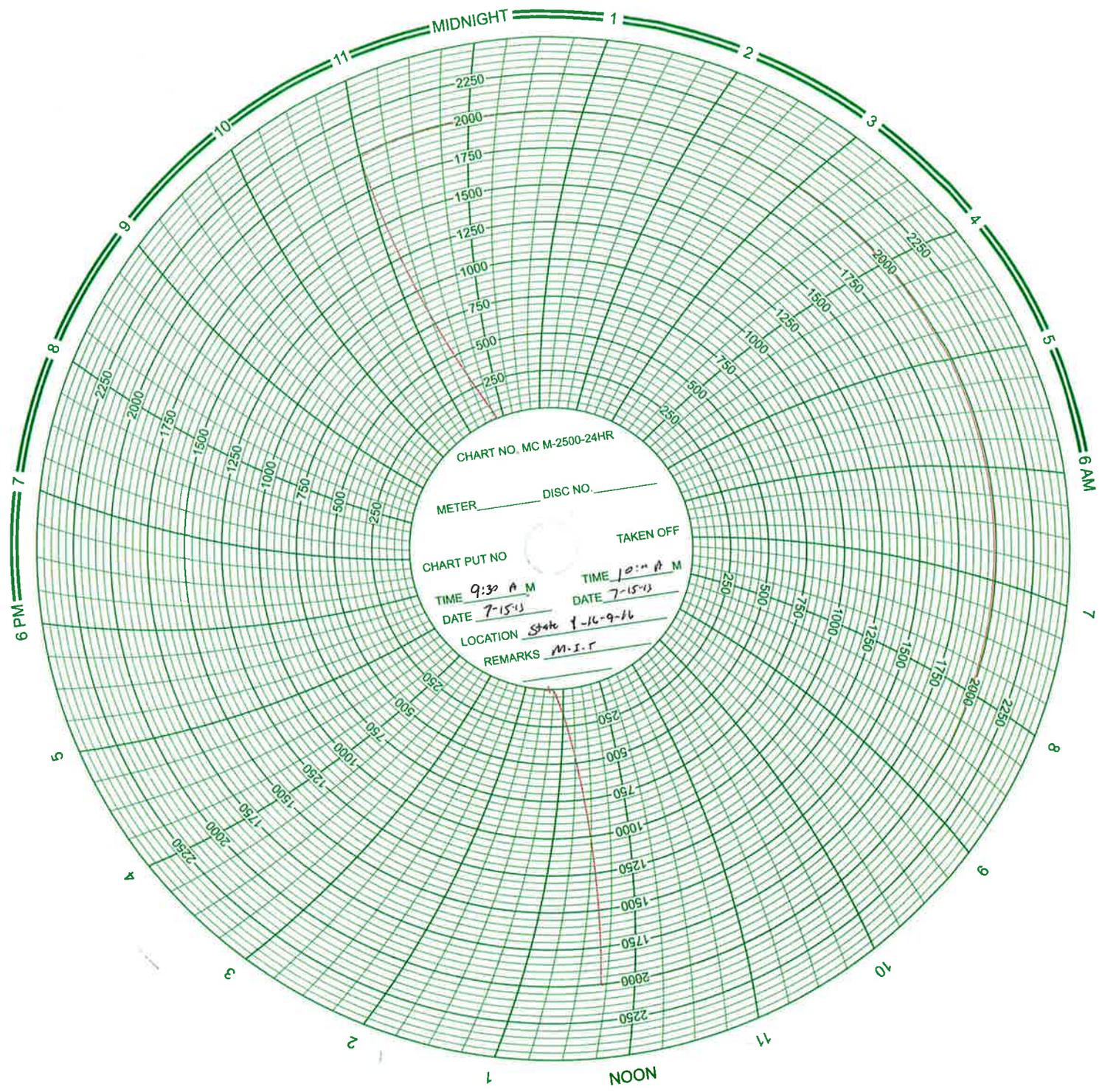
Well: <u>State 1-16-9-16</u>	Field: <u>Monument Butte</u>
Well Location: <u>State 1-16-9-16</u>	API No: <u>4301333845</u>

<u>Time</u>	<u>Casing Pressure</u>	
0 min	<u>2000</u>	psig
5	<u>2000</u>	psig
10	<u>2000</u>	psig
15	<u>2000</u>	psig
20	<u>2000</u>	psig
25	<u>2000</u>	psig
30 min	<u>2000</u>	psig
35	_____	psig
40	_____	psig
45	_____	psig
50	_____	psig
55	_____	psig
60 min	_____	psig

Tubing pressure: 450 psig

Result: Pass Fail

Signature of Witness: \_\_\_\_\_  
Signature of Person Conducting Test: Riley Bagley





SANDLINE TAGGED FILL @5822' 12:30PM TO 1:30PM ND WH RELEASED TAC NU BOPS RD RIG FLOOR 1:30PM TO 7:30PM TOOH 130 JTS BREAKING EVERY CONECTION AND RE-DOPING BOTH PINS W/ LIQUID O-RING GREEN DOPE LD 46 JTS ON TRAILER SIWFN 7:30PM TO 9:00PM CREW TRAVEL - 5:30AM TO 7:00AM CREW TRAVEL 7:00AM TO 7:15AM JSA SAFETY MEETING 7:15AM TO 11:30AM FLUSHED 40 BBLS @250DEG ON TBG LD POLISH ROD LD 13-3/4"SLICK RODS, 101-3/4" 4-PER GUIDED RODS, 6-1.5" C(API) WT BARS W/ 1" STABILIZERS INBETWEEN, 1- 2.5"X1.25"X16' RHAC PUMP 11:30AM TO 12:30PM RIH W/ SANDLINE TAGGED FILL @5822' 12:30PM TO 1:30PM ND WH RELEASED TAC NU BOPS RD RIG FLOOR 1:30PM TO 7:30PM TOOH 130 JTS BREAKING EVERY CONECTION AND RE-DOPING BOTH PINS W/ LIQUID O-RING GREEN DOPE LD 46 JTS ON TRAILER SIWFN 7:30PM TO 9:00PM CREW TRAVEL **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$18,933

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**7/12/2013 Day: 2**

**Conversion**

Wildcat #2 on 7/12/2013 - PUMPED 10 BBL PILLOW DROPPED STANDING VALVE PUMPED 15 BBLS TO CATCH PRESSURE PT TBG TO 3K PSI FOR 30 MIN 100% GOOD - 5:30AM TO 7:00AM CREW TRAVEL 7:00AM TO 7:15AM JSA SAFETY MEETING 7:15AM TO 8:30AM TIH W/ 1-2 3/8" XN NIPPLE, 1-2 3/8"X4' TBG SUB, 1-XO NIPPLE, 1-5 1/2" WEATHERFORD PKR, 1-RETRIEVING HEAD, 1-2 7/8"PSN, 130-2 7/8" TBG 8:30AM TO 10:00AM PUMPED 10 BBL PILLOW DROPPED STANDING VALVE PUMPED 15 BBLS TO CATCH PRESSURE PT TBG TO 3K PSI FOR 30 MIN 100% GOOD TEST 10:00AM TO 12:00PM RU RIG FLOOR ND BOPS TIH 1-2 7/8"X6' TBG SUB NU INJECTION TREE CIRCULATED 50 BBLS PACKER FLUID ON CSG ND INJECTION TREE SET PKR W/ 15K # TENSION NU INJECTION TREE 12:00PM TO 2:00PM PT CSG TO 1400 PSI GOOD TEST 2:00PM TO 3:00PM RD RIG MOSL - 5:30AM TO 7:00AM CREW TRAVEL 7:00AM TO 7:15AM JSA SAFETY MEETING 7:15AM TO 8:30AM TIH W/ 1-2 3/8" XN NIPPLE, 1-2 3/8"X4' TBG SUB, 1-XO NIPPLE, 1-5 1/2" WEATHERFORD PKR, 1-RETRIEVING HEAD, 1-2 7/8"PSN, 130-2 7/8" TBG 8:30AM TO 10:00AM PUMPED 10 BBL PILLOW DROPPED STANDING VALVE PUMPED 15 BBLS TO CATCH PRESSURE PT TBG TO 3K PSI FOR 30 MIN 100% GOOD TEST 10:00AM TO 12:00PM RU RIG FLOOR ND BOPS TIH 1-2 7/8"X6' TBG SUB NU INJECTION TREE CIRCULATED 50 BBLS PACKER FLUID ON CSG ND INJECTION TREE SET PKR W/ 15K # TENSION NU INJECTION TREE 12:00PM TO 2:00PM PT CSG TO 1400 PSI GOOD TEST 2:00PM TO 3:00PM RD RIG MOSL - 5:30AM TO 7:00AM CREW TRAVEL 7:00AM TO 7:15AM JSA SAFETY MEETING 7:15AM TO 8:30AM TIH W/ 1-2 3/8" XN NIPPLE, 1-2 3/8"X4' TBG SUB, 1-XO NIPPLE, 1-5 1/2" WEATHERFORD PKR, 1-RETRIEVING HEAD, 1-2 7/8"PSN, 130-2 7/8" TBG 8:30AM TO 10:00AM PUMPED 10 BBL PILLOW DROPPED STANDING VALVE PUMPED 15 BBLS TO CATCH PRESSURE PT TBG TO 3K PSI FOR 30 MIN 100% GOOD TEST 10:00AM TO 12:00PM RU RIG FLOOR ND BOPS TIH 1-2 7/8"X6' TBG SUB NU INJECTION TREE CIRCULATED 50 BBLS PACKER FLUID ON CSG ND INJECTION TREE SET PKR W/ 15K # TENSION NU INJECTION TREE 12:00PM TO 2:00PM PT CSG TO 1400 PSI GOOD TEST 2:00PM TO 3:00PM RD RIG MOSL - 5:30AM TO 7:00AM CREW TRAVEL 7:00AM TO 7:15AM JSA SAFETY MEETING 7:15AM TO 8:30AM TIH W/ 1-2 3/8" XN NIPPLE, 1-2 3/8"X4' TBG SUB, 1-XO NIPPLE, 1-5 1/2" WEATHERFORD PKR, 1-RETRIEVING HEAD, 1-2 7/8"PSN, 130-2 7/8" TBG 8:30AM TO 10:00AM PUMPED 10 BBL PILLOW DROPPED STANDING VALVE PUMPED 15 BBLS TO CATCH PRESSURE PT TBG TO 3K PSI FOR 30 MIN 100% GOOD TEST 10:00AM TO 12:00PM RU RIG FLOOR ND BOPS TIH 1-2 7/8"X6' TBG SUB NU INJECTION TREE CIRCULATED 50 BBLS PACKER FLUID ON CSG ND INJECTION TREE SET PKR W/ 15K # TENSION NU INJECTION TREE 12:00PM TO 2:00PM PT CSG TO 1400 PSI GOOD TEST 2:00PM TO 3:00PM RD RIG MOSL - 5:30AM TO 7:00AM CREW TRAVEL 7:00AM TO 7:15AM JSA SAFETY MEETING 7:15AM TO 8:30AM TIH W/ 1-2 3/8" XN NIPPLE, 1-2 3/8"X4' TBG SUB, 1-XO NIPPLE, 1-5 1/2" WEATHERFORD PKR, 1-RETRIEVING HEAD, 1-2 7/8"PSN, 130-2 7/8" TBG 8:30AM TO 10:00AM PUMPED 10 BBL PILLOW DROPPED STANDING VALVE PUMPED 15 BBLS TO CATCH PRESSURE PT TBG TO 3K PSI FOR 30 MIN 100% GOOD TEST 10:00AM TO 12:00PM RU RIG FLOOR ND BOPS TIH 1-2 7/8"X6' TBG SUB NU INJECTION TREE



MIT on the above listed well. On 07/15/2013 the casing was pressured up to 2000 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 400 psig during the test. There was not a State representative available to witness the test. - On 07/12/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 07/15/2013 the casing was pressured up to 2000 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 400 psig during the test. There was not a State representative available to witness the test. - On 07/12/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 07/15/2013 the casing was pressured up to 2000 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 400 psig during the test. There was not a State representative available to witness the test. **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$56,201

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

Spud Date: 3/29/08  
 Put on Production: 5/21/08  
 GL: 5776' KB: 5788'

## State 1-16-9-16

### Injection Wellbore Diagram

**SURFACE CASING**

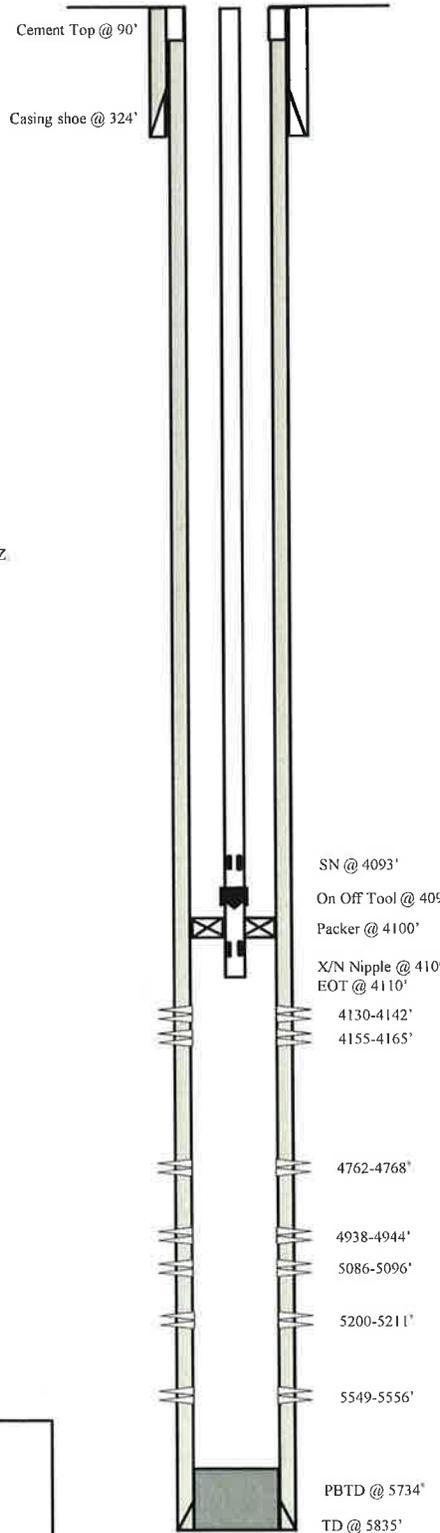
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts  
 DEPTH LANDED: 323.67  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: To surface with 160 sx Class "G" cmt

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 152 jts  
 HOLE SIZE: 7-7/8"  
 DEPTH LANDED: 5835'  
 CEMENT DATA: 300 sx Prem Lite II & 425 sxs 50/50 POZ  
 CEMENT TOP AT: 90'

**TUBING**

SIZE/GRADE/WT: 2-7/8" / J-55 / 6.5#  
 NO OF JOINTS: 130 jts (4081')  
 SEATING NIPPLE: 2-7/8" N-80 (1.10')  
 SN LANDED AT: 4093' KB  
 ON/OFF TOOL AT: 4094.1'  
 ARROW #1 PACKER CE AT: 4100.4'  
 XO 2-3/8 x 2-7/8 J-55 AT: 4104.1'  
 TBG PUP 2-3/8 J-55 AT: 4104.6'  
 X/N NIPPLE AT: 4108.7'  
 TOTAL STRING LENGTH: EOT @ 4110.27'



**FRAC JOB**

05-15-08 5549-5556'  05-15-08 5200-5211'  05-15-08 5086-5096'  05-15-08 4938-4944'  05-15-08 4762-4768'  05-15-08 4155-4165'  2/19/09 9/17/09 11/19/09 6/14/2010  03/25/11 07/11/13 07/15/13	<p><b>Frac CPI sds as follows:</b> 19,592# 20/40 sand in 324 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2457 psi @ ave rate of 23.1 BPM. ISIP 1720 psi. Actual Flush: 5040 gals.</p> <p><b>Frac LODC sds as follows:</b> 44,487# 20/40 sand in 448 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2174 psi @ ave rate of 23.4 BPM. ISIP 2560 psi. Actual Flush: 4696 gals.</p> <p><b>Frac A1 sds as follows:</b> 45,335# 20/40 sand in 439 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1987 psi @ ave rate of 23.3 BPM. ISIP 2240 psi. Actual Flush: 4578 gals.</p> <p><b>Frac B2 sds as follows:</b> 20,020# 20/40 sand in 310 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2133 psi @ ave rate of 23.2 BPM. Pumped 504 gals of 15% HCL in flush for Stage #5. ISIP 1885 psi. Actual Flush: 4431 gals.</p> <p><b>Frac D3 sds as follows:</b> 20,619# 20/40 sand in 307 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1898 psi @ ave rate of 23.4 BPM. Pumped 504 gals of 15% HCL in flush for Stage #6. ISIP 2099 psi. Actual Flush: 4255 gals.</p> <p><b>Frac GB4 &amp; GB6 sds as follows:</b> 91,335# 20/40 sand in 664 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1983 psi @ ave rate of 23.3 BPM. ISIP 1900 psi. Actual Flush: 4078 gals.</p> <p><b>Pump Change.</b> Updated r &amp; t details.</p> <p><b>Tubing Leak.</b> Updated rod &amp; tubing details.</p> <p><b>Pump Change.</b> Updated rod &amp; tubing.</p> <p><b>Tubing Leak.</b> Update rod and tubing details.</p> <p><b>Pump Change.</b> Rod &amp; tubing updated.</p> <p><b>Convert to Injection Well</b></p> <p><b>Conversion MIT Finalized</b> - update tbg detail</p>
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**PERFORATION RECORD**

4130-4142'	4 JSPF	48 holes
4155-4165'	4 JSPF	40 holes
4762-4768'	4 JSPF	24 holes
4938-4944'	4 JSPF	24 holes
5086-5096'	4 JSPF	40 holes
5200-5211'	4 JSPF	44 holes
5549-5556'	4 JSPF	28 holes

**NEWFIELD**

**State 1-16-9-16**  
 687' FNL & 831' FEL  
 NE/NE Section 16-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33845; Lease #Utah State ML-16532

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML-16532	
<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>	
<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)	
<b>8. WELL NAME and NUMBER:</b> STATE 1-16-9-16	
<b>9. API NUMBER:</b> 43013338450000	
<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE	
<b>COUNTY:</b> DUCHESNE	
<b>STATE:</b> UTAH	
<b>1. TYPE OF WELL</b> Water Injection Well	
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY	
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052	
<b>PHONE NUMBER:</b> 435 646-4825 Ext	
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0687 FNL 0831 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NENE Section: 16 Township: 09.0S Range: 16.0E Meridian: S	

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: 8/12/2013	<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 12:30 PM on  
08/12/2013

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

**Date:** September 12, 2013

**By:**

<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 8/13/2013	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9  5. LEASE DESIGNATION AND SERIAL NUMBER: ML-16532
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)
1. TYPE OF WELL Water Injection Well	8. WELL NAME and NUMBER: STATE 1-16-9-16	
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		9. API NUMBER: 43013338450000
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: 0687 FNL 0831 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 16 Township: 09.0S Range: 16.0E Meridian: S		COUNTY: DUCHESNE  STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 8/12/2013	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input checked="" type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CHANGE WELL NAME  <input checked="" type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> WATER DISPOSAL  <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 12:30 PM on  
08/12/2013

**Accepted by the Utah Division of Oil, Gas and Mining**  
  
**Date:** September 12, 2013  
  
**By:**

<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 8/13/2013	



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

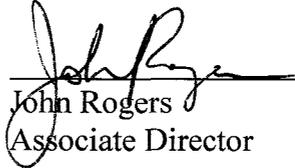
## UNDERGROUND INJECTION CONTROL PERMIT Cause No. UIC-396

**Operator:** Newfield Production Company  
**Well:** State 1-16-9-16  
**Location:** Section 16, Township 9 South, Range 16 East  
**County:** Duchesne  
**API No.:** 43-013-33845  
**Well Type:** Enhanced Recovery (waterflood)

### Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on October 1, 2012 (revised July 2, 2013).
2. Maximum Allowable Injection Pressure: 1,684 psig
3. Maximum Allowable Injection Rate: (restricted by pressure limitation)
4. Injection Interval: Green River Formation (3,845' – 5,734')
5. Any subsequent wells drilled within a ½ mile radius of this well shall have production casing cement brought up to or above the top of the unitized interval for the Greater Monument Butte Unit.

Approved by: \_\_\_\_\_

  
John Rogers  
Associate Director

8/7/2013  
Date

JR/MLR/js

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

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



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9  5. LEASE DESIGNATION AND SERIAL NUMBER: ML-16532
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: STATE 1-16-9-16
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		9. API NUMBER: 43013338450000
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: 0687 FNL 0831 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 16 Township: 09.0S Range: 16.0E Meridian: S		COUNTY: DUCHESNE  STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/15/2013  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input checked="" type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input checked="" type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input style="width: 100px;" type="text"/>

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

The subject well has been converted from a producing oil well to an injection well on 07/11/2013. On 07/12/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 07/15/2013 the casing was pressured up to 2000 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 450 psig during the test. There was not a State representative available to witness the test.

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

Date: July 31, 2013

By:

NAME (PLEASE PRINT) Lucy Chavez-Naupoto	PHONE NUMBER 435 646-4874	TITLE Water Services Technician
SIGNATURE N/A	DATE 7/23/2013	

# Mechanical Integrity Test Casing or Annulus Pressure Test

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

Witness: \_\_\_\_\_ Date 7/15/13 Time 9:30 am pm  
Test Conducted by: Ricky Bagley  
Others Present: \_\_\_\_\_

Well: <u>State 1-16-9-16</u>	Field: <u>Monument Butte</u>
Well Location: <u>State 1-16-9-16</u>	API No: <u>4301333845</u>

<u>Time</u>	<u>Casing Pressure</u>	
0 min	<u>2000</u>	psig
5	<u>2000</u>	psig
10	<u>2000</u>	psig
15	<u>2000</u>	psig
20	<u>2000</u>	psig
25	<u>2000</u>	psig
30 min	<u>2000</u>	psig
35	_____	psig
40	_____	psig
45	_____	psig
50	_____	psig
55	_____	psig
60 min	_____	psig

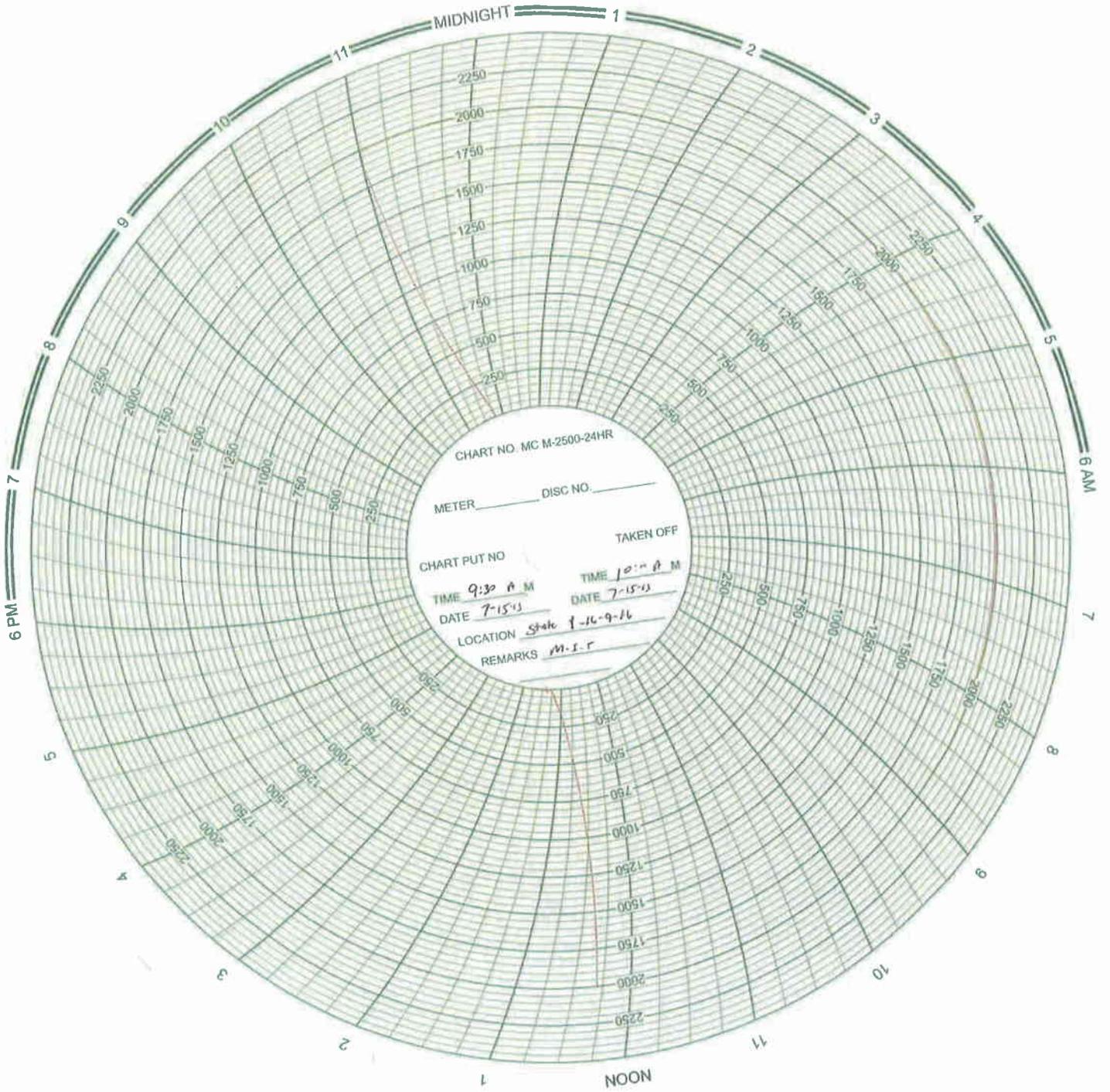
Tubing pressure: 450 psig

Result: Pass Fail

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

Signature of Person Conducting Test: Ricky Bagley

Sundry Number: 40396 API Well Number: 43013338450000





SANDLINE TAGGED FILL @5822' 12:30PM TO 1:30PM ND WH RELEASED TAC NU BOPS RD RIG FLOOR 1:30PM TO 7:30PM TOOH 130 JTS BREAKING EVERY CONECTION AND RE-DOPING BOTH PINS W/ LIQUID O-RING GREEN DOPE LD 46 JTS ON TRAILER SIWFN 7:30PM TO 9:00PM CREW TRAVEL - 5:30AM TO 7:00AM CREW TRAVEL 7:00AM TO 7:15AM JSA SAFETY MEETING 7:15AM TO 11:30AM FLUSHED 40 BBLS @250DEG ON TBG LD POLISH ROD LD 13-3/4"SLICK RODS, 101-3/4" 4-PER GUIDED RODS, 6-1.5" C(API) WT BARS W/ 1" STABILIZERS INBETWEEN, 1- 2.5"X1.25"X16' RHAC PUMP 11:30AM TO 12:30PM RIH W/ SANDLINE TAGGED FILL @5822' 12:30PM TO 1:30PM ND WH RELEASED TAC NU BOPS RD RIG FLOOR 1:30PM TO 7:30PM TOOH 130 JTS BREAKING EVERY CONECTION AND RE-DOPING BOTH PINS W/ LIQUID O-RING GREEN DOPE LD 46 JTS ON TRAILER SIWFN 7:30PM TO 9:00PM CREW TRAVEL **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$18,933

**7/12/2013 Day: 2**

**Conversion**

Wildcat #2 on 7/12/2013 - PUMPED 10 BBL PILLOW DROPPED STANDING VALVE PUMPED 15 BBLS TO CATCH PRESSURE PT TBG TO 3K PSI FOR 30 MIN 100% GOOD - 5:30AM TO 7:00AM CREW TRAVEL 7:00AM TO 7:15AM JSA SAFETY MEETING 7:15AM TO 8:30AM TIH W/ 1-2 3/8" XN NIPPLE, 1-2 3/8"X4' TBG SUB, 1-XO NIPPLE, 1-5 1/2" WEATHERFORD PKR, 1-RETRIEVING HEAD, 1-2 7/8"PSN, 130-2 7/8" TBG 8:30AM TO 10:00AM PUMPED 10 BBL PILLOW DROPPED STANDING VALVE PUMPED 15 BBLS TO CATCH PRESSURE PT TBG TO 3K PSI FOR 30 MIN 100% GOOD TEST 10:00AM TO 12:00PM RU RIG FLOOR ND BOPS TIH 1-2 7/8"X6' TBG SUB NU INJECTION TREE CIRCULATED 50 BBLS PACKER FLUID ON CSG ND INJECTION TREE SET PKR W/ 15K # TENSION NU INJECTION TREE 12:00PM TO 2:00PM PT CSG TO 1400 PSI GOOD TEST 2:00PM TO 3:00PM RD RIG MOSL - 5:30AM TO 7:00AM CREW TRAVEL 7:00AM TO 7:15AM JSA SAFETY MEETING 7:15AM TO 8:30AM TIH W/ 1-2 3/8" XN NIPPLE, 1-2 3/8"X4' TBG SUB, 1-XO NIPPLE, 1-5 1/2" WEATHERFORD PKR, 1-RETRIEVING HEAD, 1-2 7/8"PSN, 130-2 7/8" TBG 8:30AM TO 10:00AM PUMPED 10 BBL PILLOW DROPPED STANDING VALVE PUMPED 15 BBLS TO CATCH PRESSURE PT TBG TO 3K PSI FOR 30 MIN 100% GOOD TEST 10:00AM TO 12:00PM RU RIG FLOOR ND BOPS TIH 1-2 7/8"X6' TBG SUB NU INJECTION TREE CIRCULATED 50 BBLS PACKER FLUID ON CSG ND INJECTION TREE SET PKR W/ 15K # TENSION NU INJECTION TREE 12:00PM TO 2:00PM PT CSG TO 1400 PSI GOOD TEST 2:00PM TO 3:00PM RD RIG MOSL - 5:30AM TO 7:00AM CREW TRAVEL 7:00AM TO 7:15AM JSA SAFETY MEETING 7:15AM TO 8:30AM TIH W/ 1-2 3/8" XN NIPPLE, 1-2 3/8"X4' TBG SUB, 1-XO NIPPLE, 1-5 1/2" WEATHERFORD PKR, 1-RETRIEVING HEAD, 1-2 7/8"PSN, 130-2 7/8" TBG 8:30AM TO 10:00AM PUMPED 10 BBL PILLOW DROPPED STANDING VALVE PUMPED 15 BBLS TO CATCH PRESSURE PT TBG TO 3K PSI FOR 30 MIN 100% GOOD TEST 10:00AM TO 12:00PM RU RIG FLOOR ND BOPS TIH 1-2 7/8"X6' TBG SUB NU INJECTION TREE CIRCULATED 50 BBLS PACKER FLUID ON CSG ND INJECTION TREE SET PKR W/ 15K # TENSION NU INJECTION TREE 12:00PM TO 2:00PM PT CSG TO 1400 PSI GOOD TEST 2:00PM TO 3:00PM RD RIG MOSL - 5:30AM TO 7:00AM CREW TRAVEL 7:00AM TO 7:15AM JSA SAFETY MEETING 7:15AM TO 8:30AM TIH W/ 1-2 3/8" XN NIPPLE, 1-2 3/8"X4' TBG SUB, 1-XO NIPPLE, 1-5 1/2" WEATHERFORD PKR, 1-RETRIEVING HEAD, 1-2 7/8"PSN, 130-2 7/8" TBG 8:30AM TO 10:00AM PUMPED 10 BBL PILLOW DROPPED STANDING VALVE PUMPED 15 BBLS TO CATCH PRESSURE PT TBG TO 3K PSI FOR 30 MIN 100% GOOD TEST 10:00AM TO 12:00PM RU RIG FLOOR ND BOPS TIH 1-2 7/8"X6' TBG SUB NU INJECTION TREE CIRCULATED 50 BBLS PACKER FLUID ON CSG ND INJECTION TREE SET PKR W/ 15K # TENSION NU INJECTION TREE 12:00PM TO 2:00PM PT CSG TO 1400 PSI GOOD TEST 2:00PM TO 3:00PM RD RIG MOSL - 5:30AM TO 7:00AM CREW TRAVEL 7:00AM TO 7:15AM JSA SAFETY MEETING 7:15AM TO 8:30AM TIH W/ 1-2 3/8" XN NIPPLE, 1-2 3/8"X4' TBG SUB, 1-XO NIPPLE, 1-5 1/2" WEATHERFORD PKR, 1-RETRIEVING HEAD, 1-2 7/8"PSN, 130-2 7/8" TBG 8:30AM TO 10:00AM PUMPED 10 BBL PILLOW DROPPED STANDING VALVE PUMPED 15 BBLS TO CATCH PRESSURE PT TBG TO 3K PSI FOR 30 MIN 100% GOOD TEST 10:00AM TO 12:00PM RU RIG FLOOR ND BOPS TIH 1-2 7/8"X6' TBG SUB NU INJECTION TREE



MIT on the above listed well. On 07/15/2013 the casing was pressured up to 2000 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 400 psig during the test. There was not a State representative available to witness the test. - On 07/12/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 07/15/2013 the casing was pressured up to 2000 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 400 psig during the test. There was not a State representative available to witness the test. - On 07/12/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 07/15/2013 the casing was pressured up to 2000 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 400 psig during the test. There was not a State representative available to witness the test. **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$56,201

**Pertinent Files: Go to File List**

Spud Date: 3/29/08  
 Put on Production: 5/21/08  
 GL: 5776' KB: 5788'

## State 1-16-9-16

### Injection Wellbore Diagram

**SURFACE CASING**

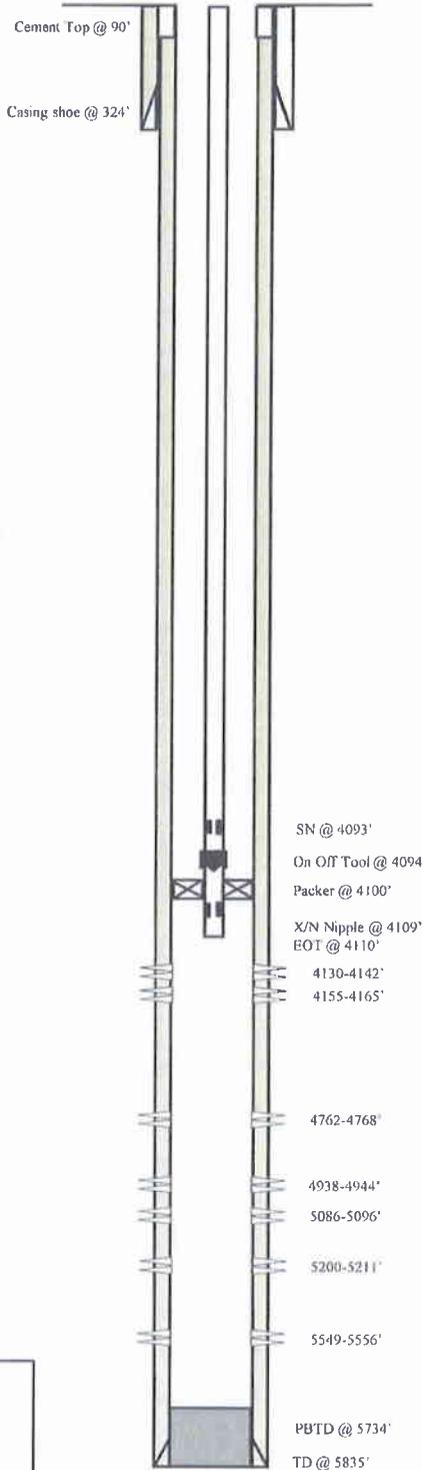
CSG SIZE 8-5/8"  
 GRADE J-55  
 WEIGHT 24#  
 LENGTH 7 jts  
 DEPTH LANDED 323.67  
 HOLE SIZE 12-1/4"  
 CEMENT DATA To surface with 160 sx Class "G" cmt

**PRODUCTION CASING**

CSG SIZE 5-1/2"  
 GRADE J-55  
 WEIGHT 15.5#  
 LENGTH 152 jts  
 HOLE SIZE 7-7/8"  
 DEPTH LANDED 5835'  
 CEMENT DATA 300 sx Prem Lite II & 425 sxs 50/50 POZ  
 CEMENT TOP AT 90'

**TUBING**

SIZE/GRADE/WT 2-7/8" / J-55 / 6.5#  
 NO OF JOINTS 130 jts (4081')  
 SEATING NIPPLE 2-7/8" N-80 (1 10')  
 SN LANDED AT 4093' KB  
 ON/OFF TOOL AT 4094 1'  
 ARROW #1 PACKER CE AT 4100 4'  
 XO 2-3/8 x 2-7/8 J-55 AT 4104 1'  
 TBG PUP 2-3/8 J-55 AT 4104 6'  
 X/N NIPPLE AT 4108 7'  
 TOTAL STRING LENGTH EOT @ 4110 27'



**FRAC JOB**

05-15-08	5549-5556'	<b>Frac C P1 sds as follows:</b> 19,592# 20/40 sand in 324 bbls of Lightning 17 fluid Treated w/ ave pressure of 2457 psi @ ave rate of 23 1 BPM ISIP 1720 psi Actual Flush: 5040 gals
05-15-08	5200-5211'	<b>Frac L ODC sds as follows:</b> 44,487# 20/40 sand in 448 bbls of Lightning 17 fluid Treated w/ ave pressure of 2174 psi @ ave rate of 23 4 BPM ISIP 2560 psi Actual Flush: 4696 gals
05-15-08	5086-5096'	<b>Frac A1 sds as follows:</b> 45,335# 20/40 sand in 439 bbls of Lightning 17 fluid Treated w/ ave pressure of 1987 psi @ ave rate of 23 3 BPM ISIP 2240 psi Actual Flush: 4578 gals
05-15-08	4938-4944'	<b>Frac B2 sds as follows:</b> 20,020# 20/40 sand in 310 bbls of Lightning 17 fluid Treated w/ ave pressure of 2133 psi @ ave rate of 23 2 BPM Pumped 504 gals of 15% HCL in flush for Stage #5 ISIP 1885 psi Actual Flush: 4431 gals
05-15-08	4762-4768'	<b>Frac D3 sds as follows:</b> 20,619# 20/40 sand in 307 bbls of Lightning 17 fluid Treated w/ ave pressure of 1898 psi @ ave rate of 23 4 BPM Pumped 504 gals of 15% HCL in flush for Stage #6 ISIP 2099 psi Actual Flush: 4255 gals
05-15-08	4155-4165'	<b>Frac GB4 &amp; GB6 sds as follows:</b> 91,335# 20/40 sand in 664 bbls of Lightning 17 fluid Treated w/ ave pressure of 1983 psi @ ave rate of 23 3 BPM ISIP 1900 psi Actual Flush: 4078 gals
2/19/09		<b>Pump Change</b> Updated r & t details
9/17/09		<b>Tubing Leak.</b> Updated rod & tubing details
11/19/09		<b>Pump Change.</b> Updated rod & tubing
6/14/2010		<b>Tubing Leak</b> Update rod and tubing details
03/25/11		<b>Pump Change</b> Rod & tubing updated
07/11/13		<b>Convert to Injection Well</b>
07/15/13		<b>Conversion MIT</b> Finalized - update tbg detail

**PERFORATION RECORD**

4130-4142'	4 JSPP	48 holes
4155-4165'	4 JSPP	40 holes
4762-4768'	4 JSPP	24 holes
4938-4944'	4 JSPP	24 holes
5086-5096'	4 JSPP	40 holes
5200-5211'	4 JSPP	44 holes
5549-5556'	4 JSPP	28 holes



**State 1-16-9-16**  
 687' FNI. & 831' FEL  
 NE/NE Section 16-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33845; Lease #Utah State ML-16532



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

October 1, 2012

**Revised July 2, 2013**

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

Subject: Greater Monument Butte Unit Well: State 1-16-9-16, Section 16, Township 9 South, Range 16 East, SLBM, Duchesne County, Utah, API Well # 43-013-33845

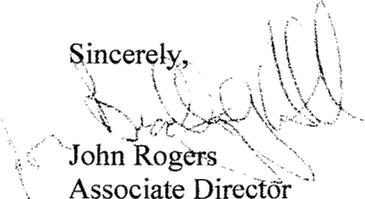
Gentlemen:

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

1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.
2. Conformance with all conditions and requirements of the complete application submitted by Newfield Production Company.
3. A casing\tubing pressure test shall be conducted prior to commencing injection.
4. Pressure shall be monitored between the surface casing and the production casing on a regular basis. Any pressure changes observed shall be reported to the Division immediately.
5. The top of the injection interval shall be limited to a depth no higher than ~~4,606 feet~~ revised to **3,845 feet** in the State 1-16-9-16 well.

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

Sincerely,

  
John Rogers  
Associate Director

JR/MLR/js

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

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





GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

October 1, 2012

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

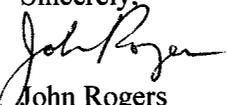
Subject: Greater Monument Butte Unit Well: State 1-16-9-16, Section 16, Township 9 South, Range 16 East, SLBM, Duchesne County, Utah, API Well # 43-013-33845

Gentlemen:

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

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4. Pressure shall be monitored between the surface casing and the production casing on a regular basis. Any pressure changes observed shall be reported to the Division immediately.
5. The top of the injection interval shall be limited to a depth no higher than **4,606** feet in the State 1-16-9-16 well.

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

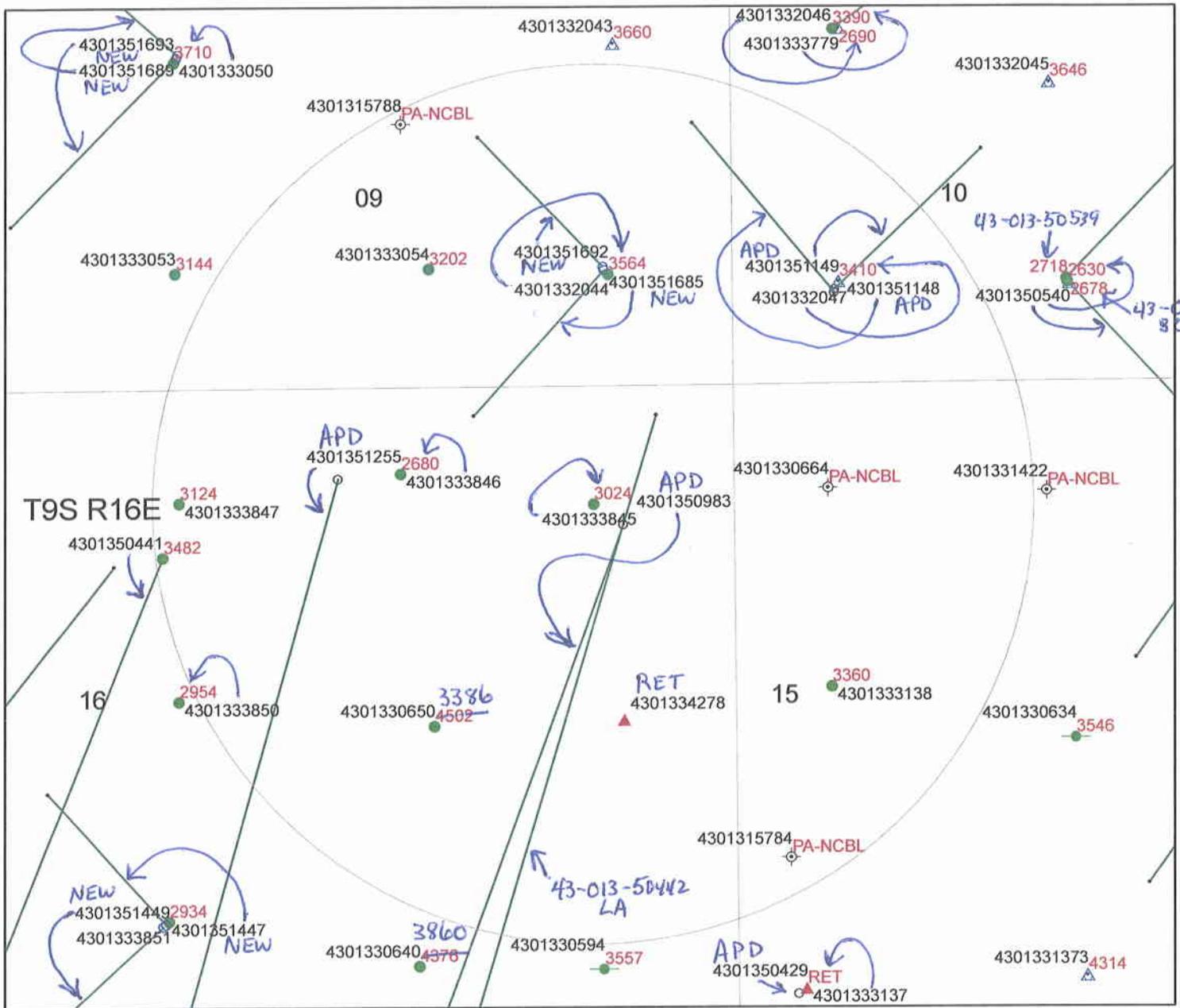
Sincerely,  
  
John Rogers  
Associate Director

JR/MLR/js

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

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





Cement Bond Tops  
 STATE 1-16-9-16  
 API #43-013-33845  
 UIC 396.6

### Legend

- |  |   |
|--|---|
| Buffer_of_SGID93_ENERGY_DNROilGasWells_139 | PGW                                     |
| SGID93_ENERGY_DNROilGasWells               | POW                                     |
| <b>SGID93.ENERGY.DNROilGasWells</b>        | RET                                     |
| <b>GIS_STAT_TYPE</b>                       | SGW                                     |
| APD  | SOW                                     |
| DRL  | TA                                      |
| GIW  | TW                                      |
| GSW  | WDW                                     |
| LA   | WIW                                     |
| LOC  | WSW                                     |
| OPS  | SGID93_BOUNDARIES_Countries             |
| PA   | • SGID93_ENERGY_DNROilGasWells_HDBottom |
|  | — SGID93_ENERGY_DNROilGasWells_HDPath   |
|  | • Wells-CbltopsMaster08_31_12           |
|  | • Wells-CbltopsMaster08_14_12           |



1870calc = approx cement top calculated from well completion report

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

**Applicant:** Newfield Production Company      **Well:** State 1-16-9-16

**Location:** 16/9S/16E      **API:** 43-013-33845

**Ownership Issues:** The proposed well is located on State of Utah land. The well is located in the Greater Monument Butte Unit. Lands in the one-half mile radius of the well are administered by the BLM and the State of Utah. The Federal Government and the State of Utah are the mineral owners within the area of review (AOR). Newfield and other various individuals hold the leases in the unit. Newfield has provided a list of all surface, mineral and lease holders in the half-mile radius. Newfield is the operator of the Greater Monument Butte Unit. Newfield has submitted an affidavit stating that all owners and interest owners have been notified of their intent.

**Well Integrity:** The proposed well has surface casing set at 324 feet and has a cement top at the surface. A 5½ inch production casing is set at 5,835 feet. The cement bond log is somewhat problematic but appears to demonstrate adequate bond in this well up to about 3,024 feet. A 2 7/8 inch tubing with a packer will be set at 4,080 feet. Higher perforations will be opened at a later date. A mechanical integrity test will be run on the well prior to injection. On the basis of surface locations, there are 8 producing wells, 1 injection well, and 3 P/A wells in the AOR. One of the producing wells is horizontally drilled with a surface location inside the AOR and a bottom hole location outside the AOR. In addition, there are 2 approved surface locations inside the AOR from which horizontal wells will be drilled to bottom hole locations outside the AOR, and there is 1 approved surface location inside the AOR for a directional well with a bottom hole location outside the AOR. All of the existing wells have evidence of adequate casing and cement for the proposed injection interval except the Castle Peak State 32-16 (API# 43-013-30650). This well's CBL (8/4/1982) demonstrates the TOC at approximately 4,502 feet. To protect this wellbore Newfield will not perforate the State 1-16-9-16 above a depth of 4,606 feet.

**Revision (7/31/2013):** Newfield completed cement remediation in the Castle Peak 32-16 (43-013-30650) well on 6/24/2013. Subsequently, a new CBL was run by The Perforators, LLC on 6/25/2013. The new CBL indicates variable but adequate cement between at least 3386 and 3634 feet. DOGM accepts 3386 feet as the top of adequate cement. Inasmuch as this well was the principal obstacle to granting Newfield's requested injection interval (3,945'-5,734') in the State 1-16 well, DOGM is prepared to raise the permitted injection top to 3,845', including all existing perforations.

**Ground Water Protection:** As interpreted from the Utah Geological Survey's DOE Project-Uinta Basin Water Draft Map (Paul B. Anderson, December 2, 2011), the base of moderately saline water (3000-10,000 mg/l TDS) is at a depth of approximately 2600 feet. (See **Revision 7/31/2013** above) The requested injection interval is between 3,945 feet and 5,734 feet in the Green River Formation. However, the top of acceptable cement bond is at about 4,502 feet in the Castle Peak State 32-16 well (API # 43-013-30650), located within the AOR, approximately 0.3 mile south-southwest of the State 1-16-9-16 well. This cement top correlates to a depth of approximately 4,506 feet in the State 1-16-9-16 well. For this reason, it is recommended that the top of the injection interval be permitted no higher than a depth of 4,606 feet in the State 1-16-9-16 well. Information submitted by Newfield indicates that the fracture gradient for the 1-16-9-16 well is 0.74 psi/ft., which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 1,684 psig. The requested maximum pressure is 1,684 psig. The anticipated average injection pressure is 1100 psig. Injection at this pressure should not initiate any new fractures or propagate existing fractures in the adjacent confining intervals. Any ground water present should be adequately protected.

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

**Bonding:** Bonded with the State of Utah

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

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

Reviewer(s): Mark Reinbold Date: 9/12/2012 (rev. 7/31/2013)

Send Payments to:  
 Uintah Basin Standard  
 268 S 200 E  
 Roosevelt, Utah 84066  
 Phone: 435-722-5131  
 Fax: 435-722-4140



Invoice Number	Invoice Date
32048	6/26/2012

Advertiser No.	Invoice Amount	Due Date
2080	\$157.05	7/26/2012

DIVISION OF OIL GAS & MINING  
 Rose Nolton  
 1594 W. N.TEMPLE STE 121  
 PO BOX 145801  
 SALT LAKE CITY, UT 84114-5801

RECEIVED

JUL 09 2012

DIV. OF OIL, GAS & MINING

1 1/2% fee will be charged to all past due balances.

Amount Enclosed

Please detach top portion and return with your payment

INVOICE

Uintah Basin Standard		DIVISION OF OIL GAS & MINING			Invoice No. 32048	6/26/2012
Date	Order	Description	Ad Size	SubTotal	Sales Tax	Amount
6/26/2012	16066 UBS	UBS Legal Notice: Notice of Agcy Actn: Cause No. UIC-396 Pub. June 26, 2012				\$157.05
					Sub Total:	\$157.05
					Total Transactions: 1	Total: \$157.05

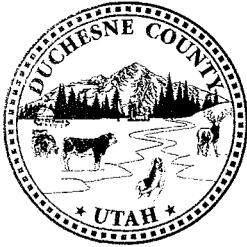
SUMMARY Advertiser No. 2080 Invoice No. 32048

1 1/2% fee will be charged to all past due balances.

Thank You for your business!

Thank you for advertising with us, we appreciate your business!





*Duchesne County Planning, Zoning  
& Community Development  
734 North Center Street  
P.O. Box 317  
Duchesne, Utah 84021  
(435) 738-1152  
Fax (435) 738-5522*

June 26, 2012

Mr. Brad Hill, Permitting Manager  
Division of Oil, Gas and Mining  
PO Box 145801  
Salt Lake City, UT 84114-5801

RECEIVED  
JUN 27 2012  
DIV. OF OIL, GAS & MINING

RE: Newfield Production Company Injection Wells (Causes No UIC-395 & 396)

Dear Mr. Hill:

We are in receipt of your notice regarding Newfield Production Company's request to convert 30 wells, located in Sections 5, 8, 9, 11, 12, 13, 16, 17, 18, 19, 21, 22, 23, 24, 27, 29 and 30, Township 9 South, Range 16 East, Duchesne County, to Class II injection wells.

Duchesne County is supportive of this request and recommends approval under conditions that your agency deems appropriate.

Thank you for the opportunity to comment.

Sincerely,

Mike Hyde, AICP  
Community Development Administrator

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

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-396

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 9, 11, 12, 13, 16, 17, 18, 21, 22, 24, 27, AND 29, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

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

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

Greater Monument Butte Unit:

Federal 15-9-9-16 well located in SW/4 SE/4, Section 9, Township 9 South, Range 16 East  
API 43-013-33054  
Walton Federal 4 well located in SE/4 NW/4, Section 11, Township 9 South, Range 16 East  
API 43-013-15795  
C-O Govt 1 well located in NW/4 SW/4, Section 12, Township 9 South, Range 16 East  
API 43-013-15111  
Monument Federal 24-12J well located in SE/4 SW/4, Section 12, Township 9 South, Range 16 East  
API 43-013-31409  
Federal 15-13-9-16 well located in SW/4 SE/4, Section 13, Township 9 South, Range 16 East  
API 43-013-32648  
State 1-16-9-16 well located in NE/4 NE/4, Section 16, Township 9 South, Range 16 East  
API 43-013-33845  
Federal 11-17-9-16 well located in NE/4 SW/4, Section 17, Township 9 South, Range 16 East  
API 43-013-33034  
Federal 15-18-9-16 well located in SW/4 SE/4, Section 18, Township 9 South, Range 16 East  
API 43-013-33001  
Federal 5-21-9-16 well located in SW/4 NW/4, Section 21, Township 9 South, Range 16 East  
API 43-013-33020  
Federal 11A-22-9-16 well located in NE/4 SW/4, Section 22, Township 9 South, Range 16 East  
API 43-013-33149  
Federal 1-24-9-16 well located in NE/4 NE/4, Section 24, Township 9 South, Range 16 East  
API 43-013-33082  
Federal 1-27-9-16 well located in NE/4 NE/4, Section 27, Township 9 South, Range 16 East  
API 43-013-33350  
Federal 3-29-9-16 well located in NE/4 NW/4, Section 29, Township 9 South, Range 16 East  
API 43-013-33425

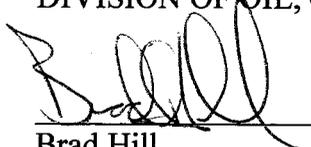
The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

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

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

Dated this 21<sup>st</sup> day of June, 2012.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING

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

Brad Hill  
Permitting Manager

**Newfield Production Company**

**FEDERAL 15-9-9-16, WALTON FEDERAL 4, C-O GOVT 1, MONUMENT FEDERAL 24-12J,  
FEDERAL 15-13-9-16, STATE 1-16-9-16, FEDERAL 11-17-9-16, FEDERAL 15-18-9-16,  
FEDERAL 5-21-9-16, FEDERAL 11A-22-9-16, FEDERAL 1-24-9-16, FEDERAL 1-27-9-16,  
FEDERAL 3-29-9-16**

**Cause No. UIC-396**

Publication Notices were sent to the following:

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

SITLA  
675 E 500 S Ste 500  
Salt Lake City, UT 84102-2818

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

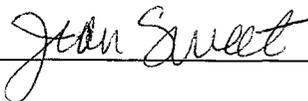
Duchesne County Planning  
P O Box 317  
Duchesne, UT 84021-0317

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

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

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

Newfield Production Company  
Rt 3 Box 3630  
Myton, UT 84052

  
\_\_\_\_\_



GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

June 21, 2012

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

Uintah Basin Standard  
268 South 200 East  
Roosevelt, UT 84066

Subject: Notice of Agency Action – Newfield Production Company Cause No. UIC-396

To Whom It May Concern:

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

Please send proof of publication and billing to:

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

Sincerely,

Jean Sweet  
Executive Secretary

Enclosure

**Jean Sweet - Re: Notice of Agency Action – Newfield Production Company Cause No. UIC-396**

**From:** Cindy Kleinfelter <classifieds@ubstandard.com>  
**To:** Jean Sweet <jsweet@utah.gov>  
**Date:** 6/22/2012 8:05 AM  
**Subject:** Re: Notice of Agency Action – Newfield Production Company Cause No. UIC-396

On 6/21/2012 5:41 PM, Jean Sweet wrote:

To Whom It May Concern:

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

Please send proof of publication and billing to:

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

Sincerely,

Jean Sweet, Executive Secretary  
Utah Div. of Oil, Gas & Mining  
1594 West Temple, Suite 1210  
Salt Lake City, UT  
801-538-5329  
[jsweet@utah.gov](mailto:jsweet@utah.gov)

Received. Thank you. It will run June 26.  
Cindy



GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

June 21, 2012

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

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

Subject: Notice of Agency Action – Newfield Production Company Cause No. UIC-396

To Whom It May Concern:

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

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

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

Sincerely,

Jean Sweet  
Executive Secretary

Enclosure



**From:** "Fultz, Mark" <naclegal@mediaoneutah.com>  
**To:** <jsweet@utah.gov>  
**Date:** 6/22/2012 9:04 AM  
**Subject:** Legal Notice - UIC 396  
**Attachments:** OrderConf.pdf

AD# 802908  
Run Trib/DNews - 6/26  
Cost \$393.08  
Thank you  
Mark

## Order Confirmation for Ad #0000802908-01

<b>Client</b>	DIV OF OIL-GAS & MINING	<b>Payor Customer</b>	DIV OF OIL-GAS & MINING
<b>Client Phone</b>	801-538-5340	<b>Payor Phone</b>	801-538-5340
<b>Account#</b>	9001402352	<b>Payor Account</b>	9001402352
<b>Address</b>	1594 W NORTH TEMP #1210,P.O. BOX 145801 SALT LAKE CITY, UT 84114 USA	<b>Payor Address</b>	1594 W NORTH TEMP #1210,P.O. BO SALT LAKE CITY, UT 84114
<b>Fax</b>	801-359-3940	<b>Ordered By</b>	<b>Acct. Exec</b>
<b>E-Mail</b>	earlenerussell@utah.gov	Jean	mfultz

<b>Total Amount</b>	<b>\$393.08</b>			
<b>Payment Amt</b>	<b>\$0.00</b>			
<b>Amount Due</b>	<b>\$393.08</b>	<b>Tear Sheets</b>	<b>Proofs</b>	<b>Affidavits</b>
		0	0	1

**Payment Method** **PO Number** UIC 396

**Confirmation Notes:**

**Text:** Jean

<b>Ad Type</b>	<b>Ad Size</b>	<b>Color</b>
Legal Liner	3.0 X 77 Li	<NONE>

<b>Product</b>	<b>Placement</b>	<b>Position</b>
Salt Lake Tribune::	Legal Liner Notice - 0998	Public Meeting/Hear-ing Notices
<b>Scheduled Date(s):</b>	06/26/2012	
<b>Product</b>	<b>Placement</b>	<b>Position</b>
Deseret News::	Legal Liner Notice - 0998	Public Meeting/Hear-ing Notices
<b>Scheduled Date(s):</b>	06/26/2012	
<b>Product</b>	<b>Placement</b>	<b>Position</b>
sltrib.com::	Legal Liner Notice - 0998	Public Meeting/Hear-ing Notices
<b>Scheduled Date(s):</b>	06/26/2012	
<b>Product</b>	<b>Placement</b>	<b>Position</b>
utahlegals.com::	utahlegals.com	utahlegals.com
<b>Scheduled Date(s):</b>	06/26/2012	

## Order Confirmation for Ad #0000802908-01

Ad Content Proof Actual Size

# Order Confirmation for Ad #0000802908-01

## Ad Content Proof 135%

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-396

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 9, 11, 12, 13, 16, 17, 18, 21, 22, 24, 27, AND 29, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

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

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

### Greater Monument Butte Units

Federal 15-9-9-16 well located in SW/4 SE/4, Section 9, Township 9 South, Range 16 East  
API 43-013-33054  
Walter Federal 4 well located in SE/4 NW/4, Section 11, Township 9 South, Range 16 East  
API 43-013-15795  
C-O Govt 1 well located in NW/4 SW/4, Section 12, Township 9 South, Range 16 East  
API 43-013-15111  
Monument Federal 24-12J well located in SE/4 SW/4, Section 12, Township 9 South, Range 16 East  
API 43-013-31409  
Federal 15-13-9-16 well located in SW/4 SE/4, Section 13, Township 9 South, Range 16 East  
API 43-013-32648  
State 1-16-9-16 well located in NE/4 NE/4, Section 16, Township 9 South, Range 16 East  
API 43-013-33845  
Federal 11-17-9-16 well located in NE/4 SW/4, Section 17, Township 9 South, Range 16 East  
API 43-013-33034  
Federal 15-18-9-16 well located in SW/4 SE/4, Section 18, Township 9 South, Range 16 East  
API 43-013-33001  
Federal 5-21-9-16 well located in SW/4 NW/4, Section 21, Township 9 South, Range 16 East  
API 43-013-33020  
Federal 11A-22-9-16 well located in NE/4 SW/4, Section 22, Township 9 South, Range 16 East  
API 43-013-33149  
Federal 1-24-9-16 well located in NE/4 NE/4, Section 24, Township 9 South, Range 16 East  
API 43-013-33082  
Federal 1-27-9-16 well located in NE/4 NE/4, Section 27, Township 9 South, Range 16 East  
API 43-013-33350  
Federal 3-29-9-16 well located in NE/4 NW/4, Section 29, Township 9 South, Range 16 East  
API 43-013-33425

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

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

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

Dated this 21st day of June, 2012.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING

/s/  
Brad Hill  
Permitting Manager  
802908

UPAXLP



June 14, 2012

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

RE: Permit Application for Water Injection Well  
State #1-16-9-16  
Monument Butte Field, Lease #ML-16532  
Section 16-Township 9S-Range 16E  
Duchesne County, Utah

Dear Mr. Reinbold:

Newfield Production Company herein requests approval to convert the State #1-16-9-16 from a producing oil well to a water injection well in the Monument Butte (Green River) Field.

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

Sincerely,

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

Eric Sundberg  
Regulatory Lead

RECEIVED

JUN 18 2012

DIV. OF OIL, GAS & MINING

**NEWFIELD PRODUCTION COMPANY**  
**APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL**  
**STATE #1-16-9-16**  
**MONUMENT BUTTE FIELD (GREEN RIVER) FIELD**  
**LEASE #ML-16532**  
**JUNE 14, 2012**

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STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR INJECTION WELL - UIC FORM 1

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

Well Name and number: State #1-16-9-16  
Field or Unit name: Monument Butte (Green River) Lease No. ML-16532  
Well Location: QQ NENE section 16 township 9S range 16E county Duchesne

Is this application for expansion of an existing project? . . . . . Yes  No   
Will the proposed well be used for:           Enhanced Recovery? . . . . . Yes  No   
  Disposal? . . . . . Yes  No   
  Storage? . . . . . Yes  No   
Is this application for a new well to be drilled? . . . . . Yes  No   
If this application is for an existing well,  
has a casing test been performed on the well? . . . . . Yes  No   
Date of test: \_\_\_\_\_  
API number: 43-013-33845

Proposed injection interval:     from     3945     to     5734  
Proposed maximum injection:   rate     500 bpd pressure 1684 psig  
Proposed injection zone contains [x] oil, [ ] gas, and/or [ ] fresh water within 1/2  
mile of the well.

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

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

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

Name: Eric Sundberg Signature   
Title Regulatory Lead Date 6/19/12  
Phone No. (303) 893-0102

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

Comments:

# State 1-16-9-16

Spud Date: 3/29/08  
 Put on Production: 5/21/08  
 GL: 5776' KB: 5788'

## Proposed Injection Wellbore Diagram

### SURFACE CASING

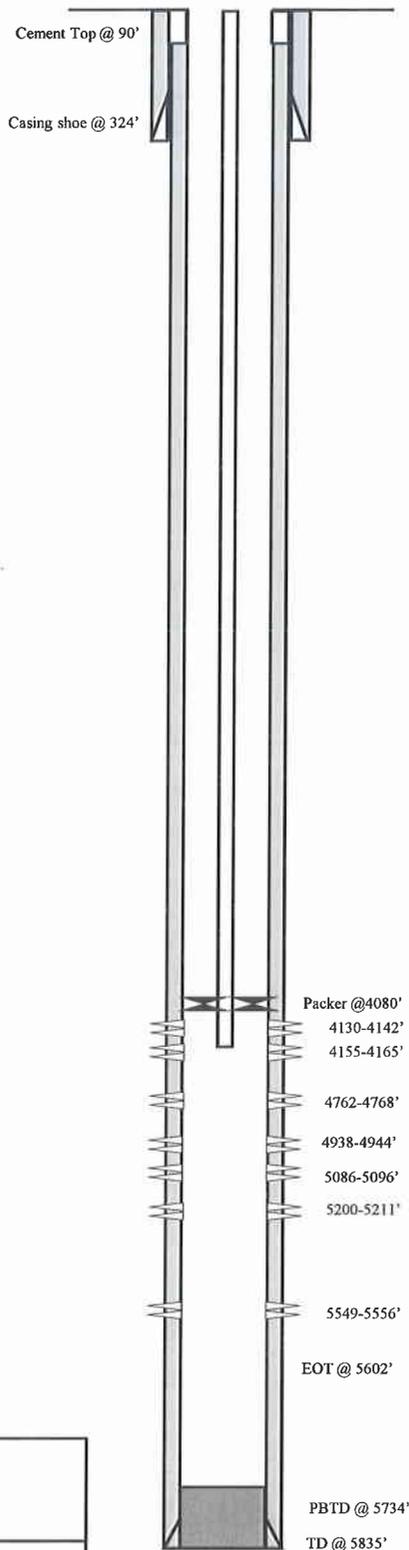
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts  
 DEPTH LANDED: 323.67  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: To surface with 160 sx Class "G" cmt

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 152 jts  
 HOLE SIZE: 7-7/8"  
 DEPTH LANDED: 5835'  
 CEMENT DATA: 300 sx Prem. Lite II & 425 sxs 50/50 POZ.  
 CEMENT TOP AT: 90'

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 173 jts (5491.1')  
 TUBING ANCHOR: 5503.1'  
 NO. OF JOINTS: 1 jt (31.4')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5537' KB  
 NO. OF JOINTS: 2 jts (62.9')  
 TOTAL STRING LENGTH: EOT @ 5602 w/12 kb



### FRAC JOB

05-15-08 5549-5556' **Frac C P1 sds as follows:**  
 19,592# 20/40 sand in 324 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2457 psi @ ave rate of 23.1 BPM. ISIP 1720 psi. Actual Flush: 5040 gals.

05-15-08 5200-5211' **Frac LODC sds as follows:**  
 44,487# 20/40 sand in 448 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2174 psi @ ave rate of 23.4 BPM. ISIP 2560 psi. Actual Flush: 4696 gals.

05-15-08 5086-5096' **Frac A1 sds as follows:**  
 45,335# 20/40 sand in 439 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1987 psi @ ave rate of 23.3 BPM. ISIP 2240 psi. Actual Flush: 4578 gals.

05-15-08 4938-4944' **Frac B2 sds as follows:**  
 20,020# 20/40 sand in 310 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2133 psi @ ave rate of 23.2 BPM. Pumped 504 gals of 15% HCL in flush for Stage #5. ISIP 1885 psi. Actual Flush: 4431 gals.

05-15-08 4762-4768' **Frac D3 sds as follows:**  
 20,619# 20/40 sand in 307 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1898 psi @ ave rate of 23.4 BPM. Pumped 504 gals of 15% HCL in flush for Stage #6. ISIP 2099 psi. Actual Flush: 4255 gals.

05-15-08 4155-4165' **Frac GB4 & GB6 sds as follows:**  
 91,335# 20/40 sand in 664 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1983 psi @ ave rate of 23.3 BPM. ISIP 1900 psi. Actual Flush: 4078 gals.

2/19/09 Pump Change. Updated r & t details.  
 9/17/09 Tubing Leak. Updated rod & tubing details.  
 11/19/09 Pump Change. Updated rod & tubing.  
 6/14/2010 Tubing Leak. Update rod and tubing details.  
 03/25/11 Pump Change. Rod & tubing updated.

### PERFORATION RECORD

4130-4142'	4 JSPF	48 holes
4155-4165'	4 JSPF	40 holes
4762-4768'	4 JSPF	24 holes
4938-4944'	4 JSPF	24 holes
5086-5096'	4 JSPF	40 holes
5200-5211'	4 JSPF	44 holes
5549-5556'	4 JSPF	28 holes

**NEWFIELD**



State 1-16-9-16  
 687' FNL & 831' FEL  
 NE/NE Section 16-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33845; Lease #Utah State ML-16532

## **WORK PROCEDURE FOR INJECTION CONVERSION**

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

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

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

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

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

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

See Attachment A.

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

Approval is requested to convert the State #1-16-9-16 from a producing oil well to a water injection well in Monument Butte (Green River) Field.

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

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

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

The injection zone is in the Green River Formation. For the State #1-16-9-16 well, the proposed injection zone is from Garden Gulch to Castle Peak (3945' - 5734). The confining strata directly above and below the injection zones are the Garden Gulch and the top of the Wasatch Formation or TD, which ever is shallower. The Garden Gulch Marker top is at 3625' and the TD is at 5835'.

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

The referenced log for the State #1-16-9-16 is on file with the Utah Division of Oil, Gas and Mining.

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

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

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

See Attachment B.

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

See Attachment C.

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

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

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

This proposed injection well is on a State lease (Lease #ML-16532) in the Monument Butte Federal (Green River) Field, and this request is for administrative approval.

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

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

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

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

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

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

The casing program is 8-5/8", 24# surface casing run to 324' KB, and 5-1/2", 15.5# casing run from surface to 5835' KB. A casing integrity test will be conducted at the time of conversion. See Attachment E.
  
  - 2.6 A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.**

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

See Attachment F.

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

The proposed average injection pressure will be approximately 1100 psig and the maximum injection pressure will not exceed 1684 psig.

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

The minimum fracture gradient for the State #1-16-9-16, for existing perforations (4155' - 5556') calculates at 0.74 psig/ft. The maximum injection pressures will be limited so as not to exceed this gradient. A step rate test will be performed periodically to ensure we are below parting pressure. The proposed maximum injection pressure is 1684 psig. We may add additional perforations between 3625' and 5835'. See Attachments G and G-1.

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

In the State #1-16-9-16, the proposed injection zone (3945' - 5734') is in the Garden Gulch to the Castle Peak of the Green River Formation. The reservoir is a very fine-grained sandstone with minor imbedded shale streaks. The estimated porosity is 13%. The members are composed of porous and permeable lenticular calcareous sandstone and low porosity carbonates and calcareous shale. The porous and lenticular sandstone varies in thickness from 0-31' and is confined to the Monument Butte Federal Field. Outside the Monument Butte Federal Field, the sandstone is composed of tight, very fine, silty, calcareous sandstone, less than 3' thick. The stratum confining the injection zone is composed of tight, moderately calcareous, sandy lacustrine shale. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

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

See Attachments E through E-8.

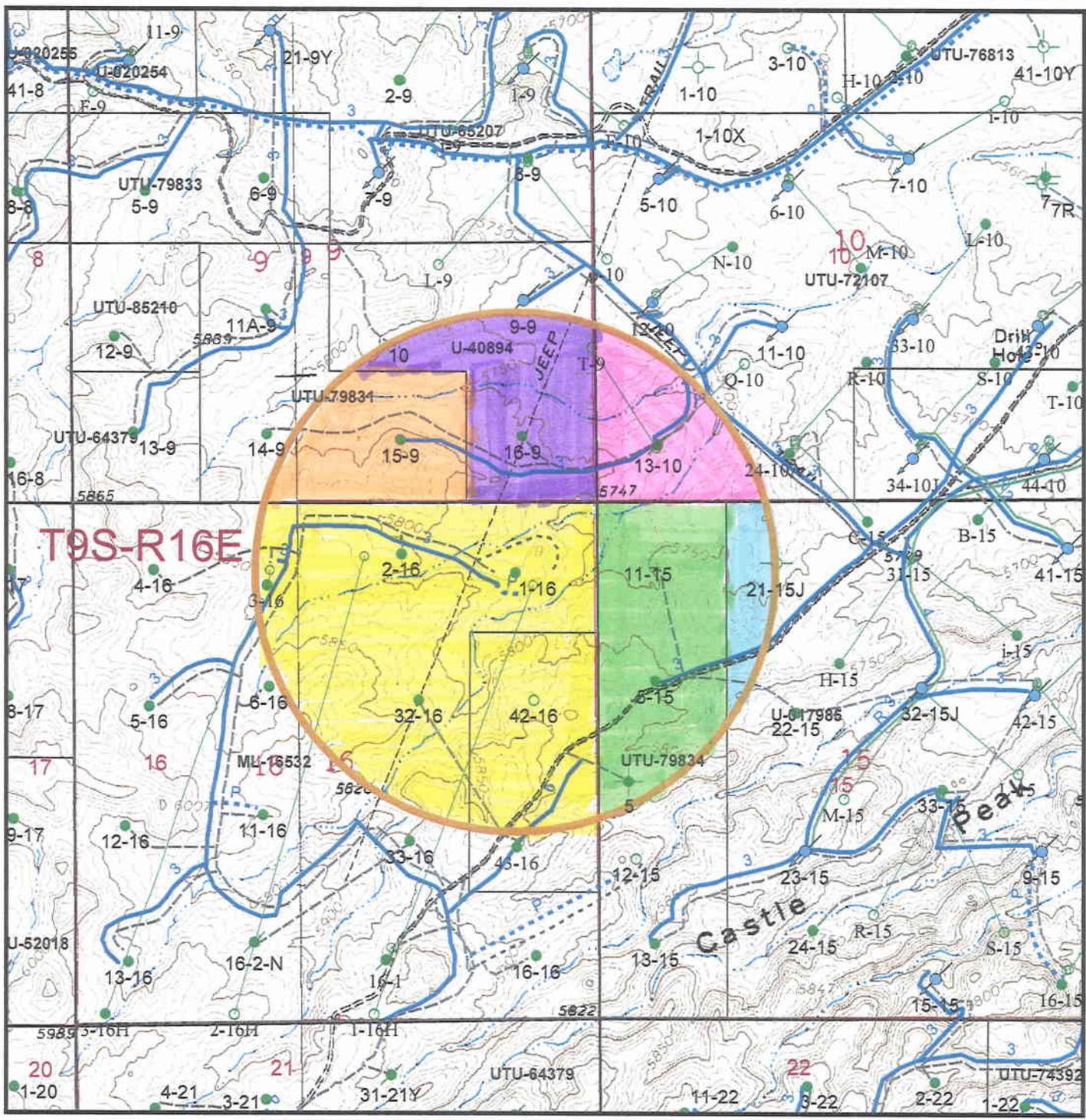
Additionally, the injection system will be equipped with high and low pressure shut down devices that will automatically shut in injection waters if a system blockage or leakage occurs. One way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure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

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

See Attachment C.

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

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



**WellStatus\_HalfMile\_Buffer**

**Well Status**

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

**Injection system**

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

**Leases**

- Leases
- Mining tracts

*Handwritten notes:*

- STATE ML-16532
- UTU-79834
- UTU-017985
- UTU-72107
- UTU-40894
- UTU-79831

State 1-16  
Section 16, T9S-R16E

**NEWFIELD**

ROCKY MOUNTAINS 1 in = 1,500 feet

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

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

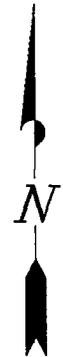
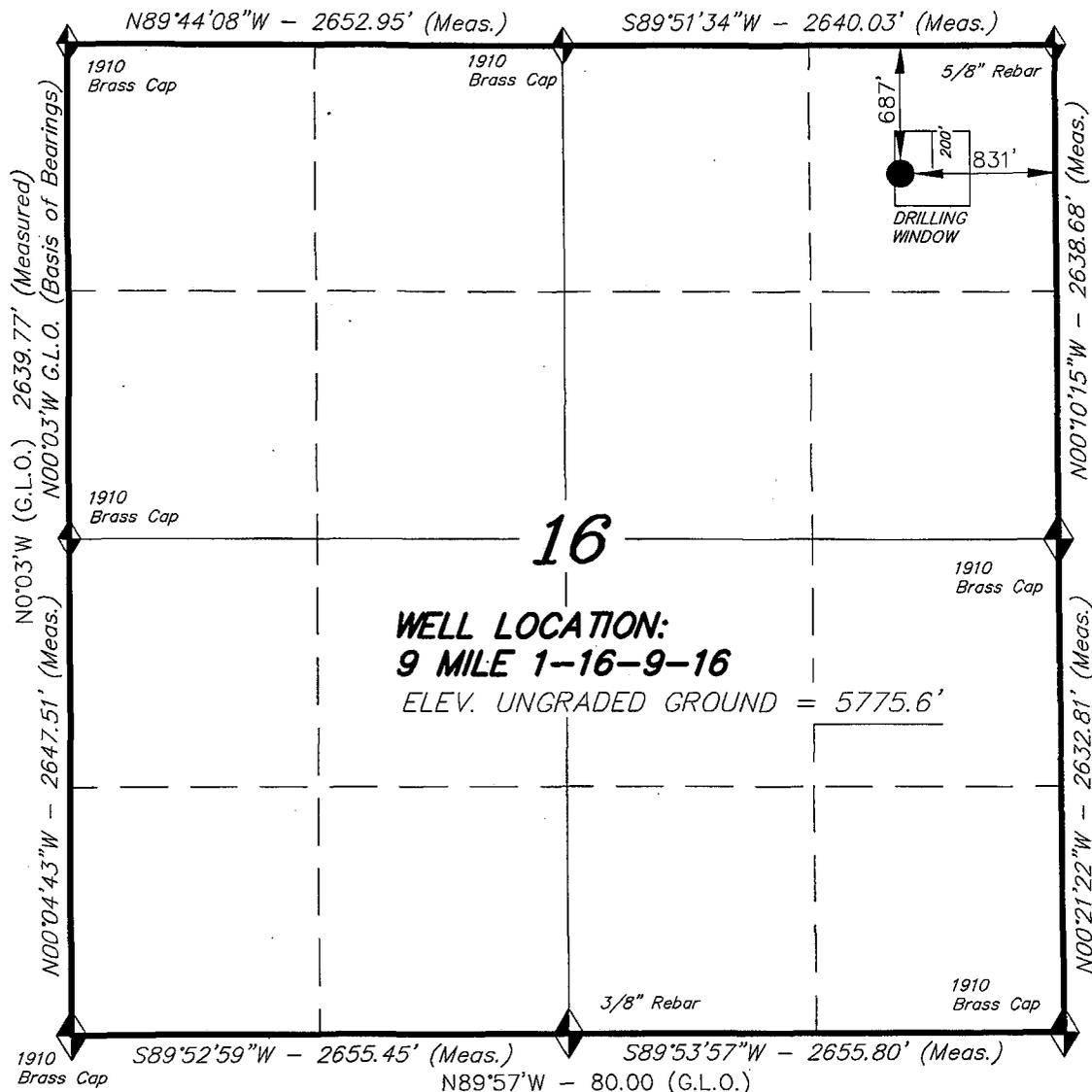
March 13, 2012

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

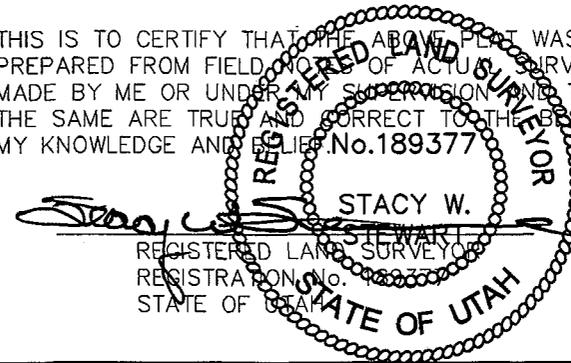
N89°50'W - 80.24 (G.L.O.)

## NEWFIELD PRODUCTION COMPANY

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



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



◆ = SECTION CORNERS LOCATED

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

**9 MILE 1-16-9-16**  
(Surface Location) NAD 83  
LATITUDE = 40° 02' 10.31"  
LONGITUDE = 110° 07' 04.16"

### TRI STATE LAND SURVEYING & CONSULTING

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

DATE SURVEYED: 10-11-07	SURVEYED BY: C.M.
DATE DRAWN: 11-02-07	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

**EXHIBIT B**

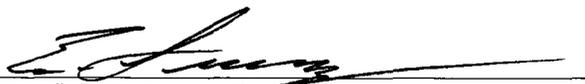
<b>#</b>	<b>Legal Description</b>	<b>Lessor &amp; Expiration</b>	<b>Lessee &amp; Operating Rights</b>	<b>Surface Owner</b>
1	T9S-R16E SLM Section 16: All	State of Utah ML- 16532 HBP	Newfield RMI LLC QEP Energy Company El Paso E&P Company LP American Petroleum Corp Brave River Production Trans Republic Resources Inc	STATE of UTAH
2	T9S-R16E SLM Section 15: W2W2	USA UTU-79834 HBP	Newfield Production Company Newfield RMI LLC	USA
3	T9S-R16E SLM Section 10: S2SE Section 15: E2, E2W2	USA UTU-017985 HBP	Newfield Production Company Newfield RMI LLC ABO Petroleum Corp MYCO Industries Inc OXY Y-1 Company Yates Petroleum Corp	USA
4	T9S-R16E SLM Section 10: S2N2, N2S2, S2SW	USA UTU-72107 HBP	Newfield Production Company Newfield RMI LLC	USA
5	T9S-R16E SLM Section 9: N2SE, SESE	USA UTU-40894 HBP	Newfield Production Company Newfield RMI LLC	USA
6	T9S-R16E SLM Section 9: E2SW, SWSE	USA UTU -79831 HBP	Newfield Production Company Newfield RMI LLC	USA

ATTACHMENT C

CERTIFICATION FOR SURFACE OWNER NOTIFICATION

RE: Application for Approval of Class II Injection Well  
State #1-16-9-16

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

Signed:   
Newfield Production Company  
Eric Sundberg  
Regulatory Lead

Sworn to and subscribed before me this 14<sup>th</sup> day of June, 2012.

Notary Public in and for the State of Colorado: 

My Commission Expires: 02/10/2013



## State 1-16-9-16

Spud Date: 3/29/08

Put on Production: 5/21/08

GL: 5776' KB: 5788'

### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 jts

DEPTH LANDED: 323.67

HOLE SIZE: 12-1/4"

CEMENT DATA: To surface with 160 sx Class "G" cmt

#### PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 152 jts

HOLE SIZE: 7-7/8"

DEPTH LANDED: 5835'

CEMENT DATA: 300 sx Prem. Lite II & 425 sxs 50/50 POZ.

CEMENT TOP AT: 90'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#

NO. OF JOINTS: 173 jts (5491')

TUBING ANCHOR: 5503'

NO. OF JOINTS: 1 jt (31.4')

SEATING NIPPLE: 2-7/8" (1.10')

SN LANDED AT: 5537' KB

NO. OF JOINTS: 2 jts (62.9')

TOTAL STRING LENGTH: EOT @ 5602 w/12 kb

#### SUCKER RODS

POLISHED ROD: 1-1/2" x 22' polished rod 'B'

SUCKER RODS: 1-2', 1-4' x 3/4" pony rods, 95- 3/4" guided rods, 43-3/4" sucker rods, 74- 3/4" guided rods, 6- 1 1/2" sinker bars, 6-1" stabilizer rods

PUMP SIZE: 2-1/2" x 1-1/4" x 12' x 16' RHAC pump 'CDI'

STROKE LENGTH: 86"

PUMP SPEED, SPM: 4

#### FRAC JOB

05-15-08 5549-5556' **Frac CPI sds as follows:**  
19,592# 20/40 sand in 324 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2457 psi @ ave rate of 23.1 BPM. ISIP 1720 psi. Actual Flush: 5040 gals.

05-15-08 5200-5211' **Frac LODC sds as follows:**  
44,487# 20/40 sand in 448 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2174 psi @ ave rate of 23.4 BPM. ISIP 2560 psi. Actual Flush: 4696 gals.

05-15-08 5086-5096' **Frac A1 sds as follows:**  
45,335# 20/40 sand in 439 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1987 psi @ ave rate of 23.3 BPM. ISIP 2240 psi. Actual Flush: 4578 gals.

05-15-08 4938-4944' **Frac B2 sds as follows:**  
20,020# 20/40 sand in 310 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2133 psi @ ave rate of 23.2 BPM. Pumped 504 gals of 15% HCL in flush for Stage #5. ISIP 1885 psi. Actual Flush: 4431 gals.

05-15-08 4762-4768' **Frac D3 sds as follows:**  
20,619# 20/40 sand in 307 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1898 psi @ ave rate of 23.4 BPM. Pumped 504 gals of 15% HCL in flush for Stage #6. ISIP 2099 psi. Actual Flush: 4255 gals.

05-15-08 4155-4165' **Frac GB4 & GB6 sds as follows:**  
91,335# 20/40 sand in 664 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1983 psi @ ave rate of 23.3 BPM. ISIP 1900 psi. Actual Flush: 4078 gals.

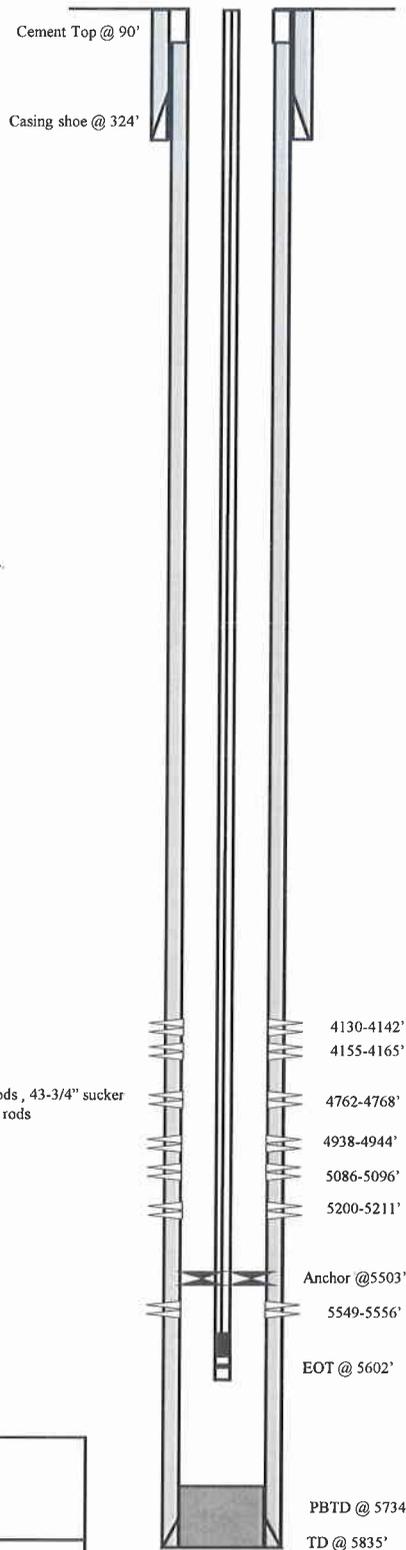
2/19/09 Pump Change. Updated r & t details.

9/17/09 Tubing Leak. Updated rod & tubing details.

11/19/09 Pump Change. Updated rod & tubing.

6/14/2010 Tubing Leak. Update rod and tubing details.

03/25/11 Pump Change. Rod & tubing updated.



#### PERFORATION RECORD

4130-4142'	4 JSPF	48 holes
4155-4165'	4 JSPF	40 holes
4762-4768'	4 JSPF	24 holes
4938-4944'	4 JSPF	24 holes
5086-5096'	4 JSPF	40 holes
5200-5211'	4 JSPF	44 holes
5549-5556'	4 JSPF	28 holes

**NEWFIELD**



State 1-16-9-16  
687' FNL & 831' FEL  
NE/NE Section 16-T9S-R16E  
Duchesne Co, Utah  
API #43-013-33845; Lease #Utah State ML-16532

## FEDERAL 15-9-9-16

Spud Date: 03/27/07  
 Put on Production: 05/18/07  
 GL:5788' KB:5800'

Initial Production: BOPD,  
 MCFD, BWPD

### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (312.28')  
 DEPTH LANDED: 324.13' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 6 bbls cmt to surf

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 139 jts (6038.30')  
 DEPTH LANDED: 6051.55' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
 CEMENT TOP: 52'

#### TUBING

SIZE/GRADE/WT: 2-7/8" / J-55  
 NO. OF JOINTS: 179 jts (5602.3')  
 TUBING ANCHOR: 5602.3'  
 NO. OF JOINTS: 2 jts (63.2')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5668.2'  
 NO. OF JOINTS: 2 jts (63.1')  
 TOTAL STRING LENGTH: EOT @ 5733'

#### SUCKER RODS

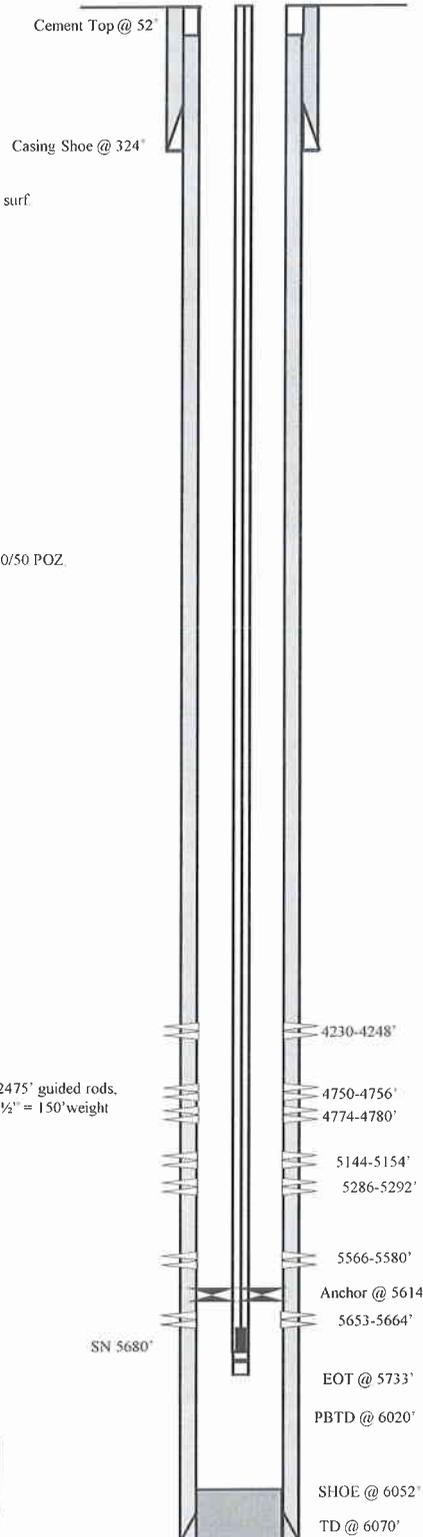
POLISHED ROD: 1-1/2" x 22'  
 SUCKER RODS: 1-4', 6' & 1-8' x 3/4" pony subs, 99-3/4"=2475' guided rods, 86-3/4" = 2150' sucker rods, 35-3/4" = 875' guided rods, 6-1 1/2" = 150' weight bars  
 PUMP SIZE: CDI 2-1/2" x 1-1/2" x 12' x 16' RHAC  
 STROKE LENGTH: 76"  
 PUMP SPEED: 5 SPM

#### FRAC JOB

05/09/07	5653-5664'	<b>Frac CP2 sands as follows:</b> 19973# 20/40 sand in 326 bbls Lightning 17 frac fluid. Treated @ avg press of 1977 psi w/avg rate of 24.7 BPM. ISIP 1722 psi. Calc flush: 5651 gal. Actual flush: 5166 gal.
05/14/07	5566-5580'	<b>Frac CP.5 sands as follows:</b> 45412# 20/40 sand in 433 bbls Lightning 17 frac fluid. Treated @ avg press of 1956 psi w/avg rate of 24.7 BPM. ISIP 1956 psi. Calc flush: 5564 gal. Actual flush: 5122 gal.
05/14/07	5286-5292'	<b>Frac LODC sands as follows:</b> 19538# 20/40 sand in 300 bbls Lightning 17 frac fluid. Treated @ avg press of 2539 psi w/avg rate of 24.8 BPM. ISIP 2675 psi. Calc flush: 5284 gal. Actual flush: 4830 gal.
05/14/07	5144-5154'	<b>Frac A3 sands as follows:</b> 45178# 20/40 sand in 423 bbls Lightning 17 frac fluid. Treated @ avg press of 1893 psi w/avg rate of 24.8 BPM. ISIP 2111 psi. Calc flush: 5142 gal. Actual flush: 4662 gal.
05/14/07	4750-4780'	<b>Frac D2 sands as follows:</b> 60592# 20/40 sand in 489 bbls Lightning 17 frac fluid. Treated @ avg press of 1606 psi w/avg rate of 24.8 BPM. ISIP 1847 psi. Calc flush: 4748 gal. Actual flush: 4284 gal.
05/14/07	4230-4248'	<b>Frac GB6 sands as follows:</b> 92270# 20/40 sand in 664 bbls Lightning 17 frac fluid. Treated @ avg press of 1955 psi w/avg rate of 24.8 BPM. ISIP 2175 psi. Calc flush: 4228 gal. Actual flush: 4116 gal.
9-5-07		Pump Change Updated rod & tubing details.
12-13-07		Pump Change Updated rod & tubing details.
6/27/2011		Pump Change Updated rod & tubing details.

#### PERFORATION RECORD

05/09/07	5653-5664'	4 JSPF	44 holes
05/14/07	5566-5580'	4 JSPF	56 holes
05/14/07	5286-5292'	4 JSPF	24 holes
05/14/07	5144-5154'	4 JSPF	40 holes
05/14/07	4774-4780'	4 JSPF	24 holes
05/14/07	4750-4756'	4 JSPF	24 holes
05/14/07	4230-4248'	4 JSPF	72 holes





**FEDERAL 15-9-9-16**  
 731' FSL & 1804' FEL  
 SW/SE Section 9-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33054; Lease # UTU-79831

## S. Wells Draw #16-9-9-16

Spud Date: 5-4-98  
 Put on Production: 6-29-98  
 GL: 5757.4' KB: 5767.4'

Initial Production: 89 BOPD,  
 102 MCFD, 7 BWPD

Wellbore Diagram

### SURFACE CASING

SIZE: 8 5/8"  
 GRADE: J-55  
 WEIGHT: 24 #  
 LENGTH: 8 jts @ 292.44'  
 HOLE SIZE: 12 1/4"  
 DEPTH LANDED: 292.94'  
 CEMENT DATA: 120 sx Premium Plus, est 6 bbls cnt to surface

### PRODUCTION CASING

SIZE: 5 1/2"  
 GRADE: J-55  
 WEIGHT: 15.5 #  
 LENGTH: 137 jts @ 5824'  
 HOLE SIZE: 7 7/8"  
 DEPTH LANDED: 5835'  
 CEMENT DATA: 360 sx 28 72 Poz & 375 sx Class G  
 CEMENT TOP AT: surface

### TUBING RECORD

SIZE/GRADE/WT: 2 7/8", M-50  
 NO OF JOINTS: 168 jts (5199.0')  
 TUBING ANCHOR: 5199.0'  
 NO OF JOINTS: 2 jts (59.3')  
 SEATING NIPPLE: 2 7/8" (1.10')  
 SN LANDED AT: 5261.1'  
 NO OF JOINTS: 2 jts (62.6')  
 TOTAL STRING LENGTH EOT @ 5325'

### SUCKER RODS

POLISHED ROD: 1 - 22' x 1 1/2"  
 SUCKER RODS: 1-6' x 3/4" pony rod, 2- 8' x 3/4" pony rods, 95- 3/4" guided rods, 86- 3/4" guided rods, 25- 3/4" guided rods, 4- 1 1/2" weight bars  
 PUMP SIZE: 2 1/2" x 1 1/2" x 12" x 15' RHAC  
 STROKE LENGTH: 124"  
 PUMP SPEED, SPM: ?

### FRAC JOB

6-19-98 5110'-5246' **Frac A/LDC sand as follows:**  
 77,000# 20/40 sand in 467 bbls Viking  
 Perfs broke @ 3260 psi. ISIP-3740 psi,  
 5 min 3120 psi. Flowback on 12/64"  
 ck for 3 hrs & died

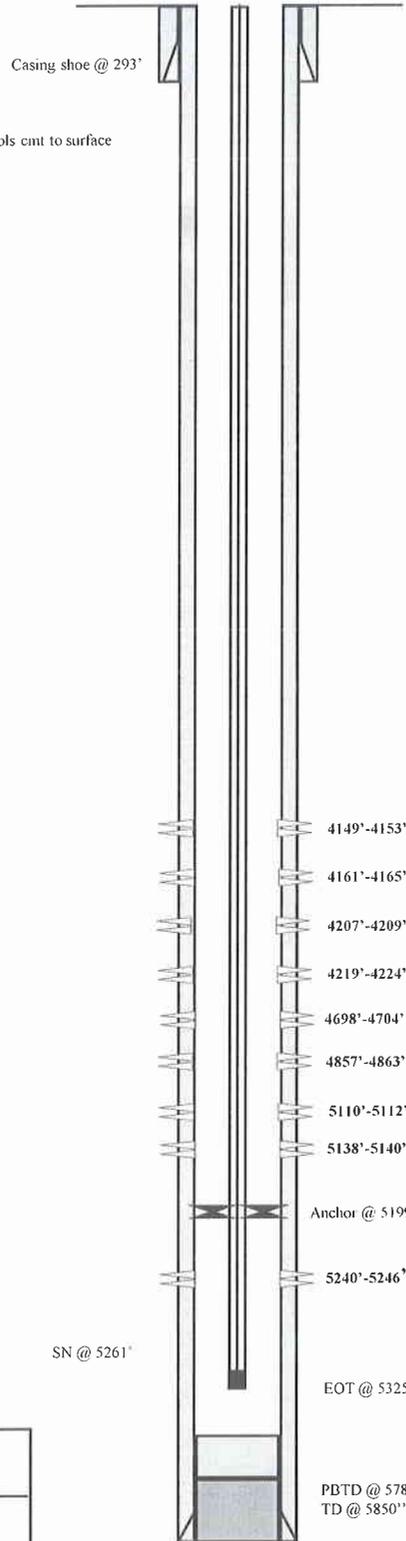
6-21-98 4857'-4863' **Frac C sand as follows:**  
 54,400# 20/40 sand in 260 bbls Viking  
 Perfs broke @ 2385 psi. Treated w/avg  
 press of 2000 psi w/avg rate of 29 BPM  
 Screened out

6-24-98 4698'-4704' **Frac D sand as follows:**  
 104,000# 20/40 sand in 436 bbls Viking  
 Perfs broke @ 3520 psi. Treated w/avg  
 press of 2310 psi w/avg rate of 25.4 BPM  
 ISIP-2310 psi, 5 min 2150 psi. Flowback  
 on 12/64" ck for 4 hrs & died.

6-26-98 4149'-4224' **Frac GB sand as follows:**  
 108,354# 20/40 sand in 646 bbls Viking  
 Perfs broke @ 2710 psi. Treated w/avg  
 press of 1770 psi w/avg rate of 26 BPM  
 ISIP-2350 psi, 5 min 2050 psi. Flowback  
 on 12/64" ck for 4 hrs & died.

9/7/07 Tubing Leak. Updated rod & tubing details.

9/20/2010 Tubing leak. Updated rod and tubing detail.



### PERFORATION RECORD

Date	Depth Range	Perforation Type	Number of Holes
6-18-98	5110'-5112'	4 JSPF	8 holes
6-18-98	5138'-5140'	4 JSPF	8 holes
6-18-98	5240'-5246'	4 JSPF	8 holes
6-20-98	4857'-4863'	4 JSPF	8 holes
6-23-98	4698'-4704'	4 JSPF	24 holes
6-25-98	4149'-4153'	4 JSPF	16 holes
6-25-98	4161'-4165'	4 JSPF	16 holes
6-25-98	4207'-4209'	4 JSPF	8 holes
6-25-98	4219'-4224'	4 JSPF	20 holes



**S. Wells Draw #16-9-9-16**

696 FSL 744 FEL.  
 SESE Section 9-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-32044; Lease #U-40894

## S. Wells Draw 13-10-9-16

Spud Date: 8/15/98  
 Put on Production: 9/16/98  
 GL: 5738' KB: 5748' (10' KB)

Initial Production: 12 BOPD.  
 86 MCFD, 2 BWPD

### Injection Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (294')  
 DEPTH LANDED: 304'KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 140 sx Premium cmt & 45 sx Class "G", est 7 bbls to surf.

CEMENT TOP AT  
 Surface per CBL

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 136 jts (5834')  
 SET AT: 5843' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 280 sx Premium modified mixed & 300 sx class "G"  
 CEMENT TOP AT Surface per cement bond log(Schlumberger)

#### TUBING

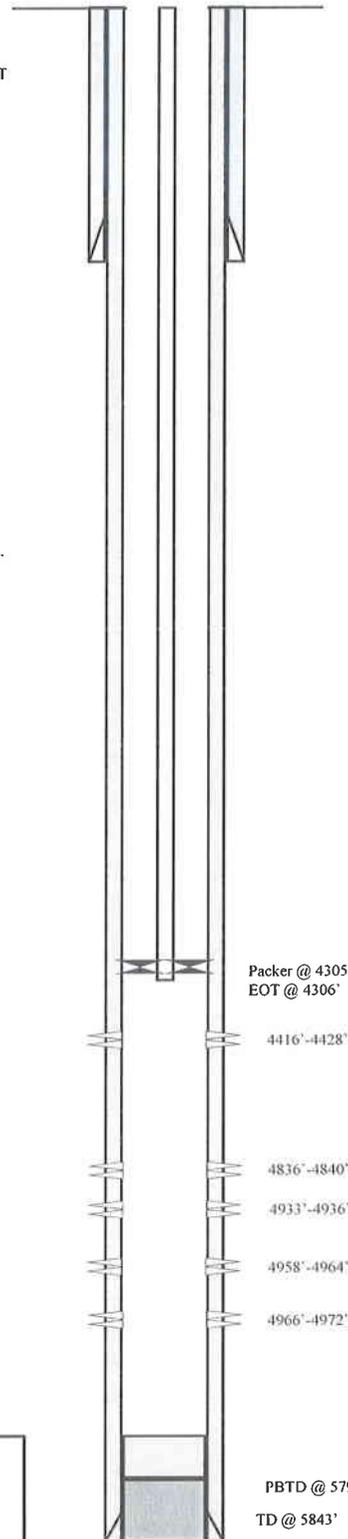
SIZE/GRADE/WT: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 139 jts (4291.5')  
 SEATING NIPPLE: 2-7/8"  
 SN LANDED AT 4301.5' KB  
 CE @ 4305.8'  
 TOTAL STRING LENGTH: EOT @ 4306' KB

#### FRAC JOB

9/11/98 4836'-4972' **Frac B-1 & B-2 sand as follows:**  
 112,100# 20/40 sand in 548 bbls Viking I-25 Perfs broke @ 3118 psi @ 21 BPM Treated w/avg press of 2080 psi w/avg rate of 30.4 BPM ISIP-2300 psi, 5 min 2180 psi. Flowback on 12/64" ck for 3.5 hrs & died.

9/13/98 4416'-4428' **Frac PB-10 sand as follows:**  
 8,220# 20/40 sand in 66 bbls Viking I-25 fluid Perfs broke @ 3990 psi. Treated w/avg press of 2220 psi w/avg rate of 12.6 BPM ISIP-1600 psi, 5 min 1485 psi. Flowback on 12/64" ck for 1 hr & died.

04/06/12 **Convert to Injection Well**  
 04/10/12 **Conversion MIT Finalized - update tbg detail**



#### PERFORATION RECORD

Date	Interval	Tool	Holes
9/9/98	4836'-4840'	4 JSPF	16 holes
9/9/98	4933'-4936'	4 JSPF	12 holes
9/9/98	4958'-4964'	4 JSPF	24 holes
9/9/98	4966'-4972'	4 JSPF	24 holes
9/9/98	4416'-4428'	4 JSPF	48 holes



**S. Wells Draw 13-10-9-16**  
 610 FSL 632 FWL  
 SWSW Section 10-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-32047; Lease #UTU-72107

## State 2-16-9-16

Spud Date: 3/31/08  
 Put on Production: 5/28/08  
 GL: 5809' KB: 5821'

Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (314.36')  
 DEPTH LANDED: 324.36'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sx Class "G"; circ. 3 bbls to surf

### PRODUCTION CASING

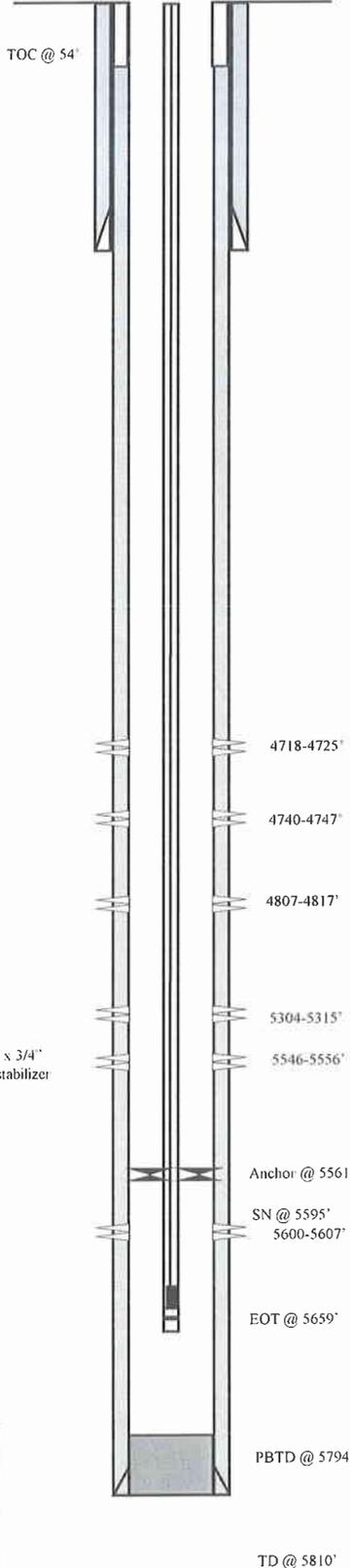
CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 141 jts (5817.67')  
 HOLE SIZE: 7-7/8"  
 DEPTH LANDED: 5815.67'  
 CEMENT DATA: 315 sxs Prem Lite II & 415 sxs 50/50 Poz  
 CEMENT TOP AT: 54' per CBL 5/15/08

### TUBING (GI 4/5/11)

SIZE/GRADE/WT: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 178 jts (5548.8')  
 TUBING ANCHOR: 5560.8'  
 NO. OF JOINTS: 1 jt (31.5')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5595.1' KB  
 NO. OF JOINTS: 2 jts (62.1')  
 NOTCHED COLLAR: 2-7/8" (0.5')  
 TOTAL STRING LENGTH: EOT @ 5659' KB

### SUCKER RODS (GI 4/5/11)

POLISHED ROD: 1-1/2" x 26' polished rod  
 SUCKER RODS: 8", 4", 4" 7/8" pony rods, 97 x 3/4" guided rods, 79 x 3/4" guided rods, 40 x 3/4" guided rods, 6 x 1-1/2" weight rods, 6(4") x 1" stabilizer rods  
 PUMP SIZE: 2-1/2" x 1-1/4" x 16 RHAC  
 STROKE LENGTH: 63"  
 PUMP SPEED, SPM: 4  
 PUMPING UNIT: LUFKIN C-228-212-86



### FRAC JOB

05-21-08 5546-5556' **Frac CP1 sds as follows:**  
 15,030# 20/40 sand in 274 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1971 psi @ ave rate of 26.4 BPM ISIP 1642 psi. Actual Flush: 5040 gals.

05-21-08 5304-5315' **Frac LODC sds as follows:**  
 20,640# 20/40 sand in 313 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2881 psi @ ave rate of 23 BPM ISIP 2797 psi. Actual Flush: 4801 gals.

05-21-08 4807-4817' **Frac C sds as follows:**  
 24,830# 20/40 sand in 339 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2219 psi @ ave rate of 23 BPM ISIP 2256 psi. Actual Flush: 4330 gals.

05-22-08 4718-4725' **Frac D2 & D3 sds as follows:**  
 25,834# 20/40 sand in 447 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2017 psi @ ave rate of 23.5 BPM ISIP 2000 psi. Actual flush: 4670 gals.

2/18/09 Tubing Leak. Updated r & t details  
 4/7/11 Tubing leak. Updated Rod & tubing details

### PERFORATION RECORD

4718-4725'	4 JSPF	28 holes
4740-4747'	4 JSPF	28 holes
4807-4817'	4 JSPF	40 holes
5304-5315'	4 JSPF	44 holes
5546-5556'	4 JSPF	40 holes
5600-5607'	4 JSPF	28 holes

**NEWFIELD**

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**State 2-16-9-16**  
 497' FNL & 1982' FEL  
 NW/NE Section 16-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33846; Lease #ML-16532

Attachment E-5

# State 3-16-9-16

Spud Date: 02-28-08  
 Put on Production: 05-13-08  
 GL: 5841' KB: 5853'

## Wellbore Diagram

### SURFACE CASING

CSG SIZE 8-5/8"  
 GRADE J-55  
 WEIGHT 24#  
 LENGTH 10 jts  
 DEPTH LANDED 443'  
 HOLE SIZE 12-1/4"  
 CEMENT DATA To surface with 209 sx Class "G" cmt

### PRODUCTION CASING

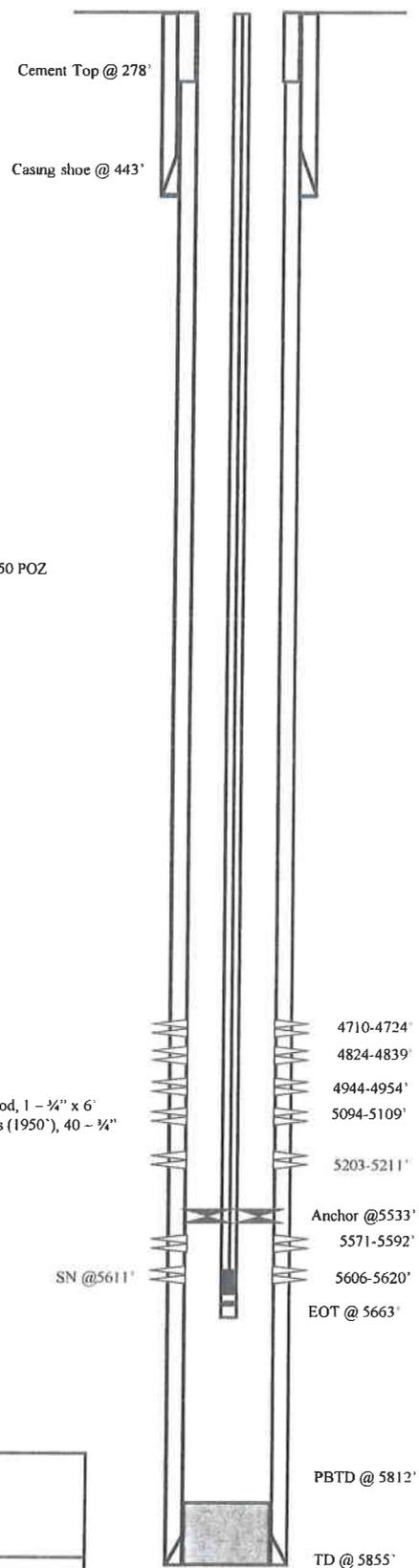
CSG SIZE 5-1/2"  
 GRADE J-55  
 WEIGHT 15.5#  
 LENGTH 147 jts  
 HOLE SIZE 7-7/8"  
 DEPTH LANDED 5855.97'  
 CEMENT DATA 300 sk Prem Lite II mixed & 400 sxs 50/50 POZ  
 CEMENT TOP AT 278'

### TUBING

SIZE/GRADE/WT 2-7/8" / J-55 / 6.5#  
 NO OF JOINTS 176 jts (5533.4')  
 TUBING ANCHOR 5533.4'  
 NO OF JOINTS 2 jts (62.9')  
 SEATING NIPPLE 2-7/8" (1.10')  
 SN LANDED AT 5599.1' KB  
 NO OF JOINTS 2 jts (62.80')  
 NOTCHED COLLAR 5663.0' KB  
 TOTAL STRING LENGTH EOT @ 5663'

### SUCKER RODS

POLISHED ROD 1-1/2" x 26' polished rod  
 SUCKER RODS 1 - 3/4" x 2' Pony Rod, 3 - 3/4" x 4' Pony Rod, 1 - 3/4" x 6' Pony Rod, 99- 3/4" Guided Rods (2475'), 78 - 3/4" Guided Rods (1950'), 40 - 3/4" Guided Rods (1000'), 6 - 1 1/2" Sinker Bars (150')  
 PUMP SIZE 2 1/2" x 1 1/2" x 16' x 17' RHAC pump  
 STROKE LENGTH 102"  
 PUMP SPEED, SPM 5



### FRAC JOB

04-22-08	5571-5592'	<b>Frac CP1 sds as follows:</b> Frac w/144,428# 20/40 sand in 1022 bbls of Lightning 17 fluid Treated w/ ave pressure of 1764 psi w/ ave rate of 25.2 BPM ISIP 2006 psi Actual Flush 5065 gals
04-22-08	5203-5211'	<b>Frac LODC sds as follows:</b> Frac w/24,817# 20/40 sand in 356 bbls of Lightning 17 fluid Treated w/ ave pressure of 2477 psi w/ ave rate of 23.3 BPM ISIP 2543 Actual Flush 4696 gals
04-22-08	5094-5109'	<b>Frac A1 sds as follows:</b> Frac w/38,375# 20/40 sand in 420 bbls of Lightning 17 fluid Treated w/ ave pressure of 2034 psi w/ ave rate of 23.3 BPM ISIP 2543 psi Actual Flush 4586 gals
04-22-08	4944-4954'	<b>Frac B2 sds as follows:</b> Frac w/30,349# 20/40 sand in 383 bbls of Lightning 17 fluid Treated w/ ave pressure of 1804 psi w/ ave rate of 23.3 BPM ISIP 1842 psi Actual Flush 4439 gals
04-22-08	4824-4839'	<b>Frac C sds as follows:</b> Frac w/48,027# 20/40 sand in 446 bbls of Lightning 17 fluid Treated w/ ave pressure of 2057 psi w/ ave rate of 23.3 BPM ISIP 2063 psi Actual Flush 4318 gals
04-22-08	4710-4724'	<b>Frac D2 sds as follows:</b> Frac w/37,944# 20/40 sand in 423 bbls of Lightning 17 fluid Treated w/ ave pressure of 2539 psi w/ ave rate of 23.4 BPM ISIP 2646 psi Actual Flush 4624 gals
05/11/2012	Updated Rod & Tubing detail	

### PERFORATION RECORD

4710-4724'	4 JSPF	56 holes
4824-4839'	4 JSPF	60 holes
4944-4954'	4 JSPF	40 holes
5094-5109'	4 JSPF	60 holes
5203-5211'	4 JSPF	32 holes
5571-5592'	4 JSPF	84 holes
5606-5620'	4 JSPF	56 holes

**NEWFIELD**

**State 3-16-9-16**  
 660' FNL & 1990' FWL  
 NE/NW Section 16-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33847; Lease #Utah State ML-16532

Balcron Monument Federal #21-15J

Spud Date: 2-7-94

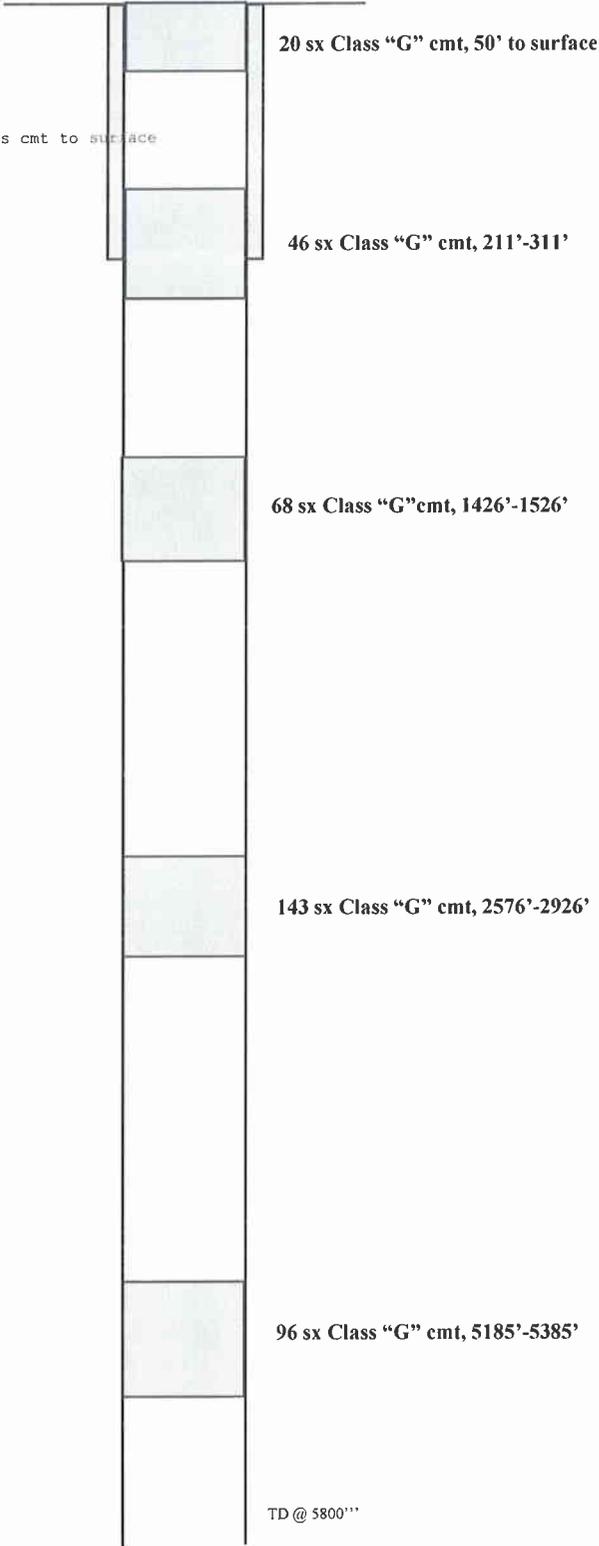
Put on Production:

GL: 5737.20' KB: 5747.20'

Wellbore Diagram

SURFACE CASING

SIZE:	8 5/8"
GRADE:	J-55
WEIGHT:	24 #
LENGTH:	5 jts @ 205.74'
HOLE SIZE:	12 1/4"
DEPTH LANDED:	249.40
CEMENT DATA:	150 sx Class G, est 3 bbls cmt to surface



**Balcron Monument Federal #21-15J**  
 645 FNL 1830 FWL  
 NENW Section 15-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-31422; Lease #U-017985

# Federal 5-15-9-16

Spud Date: 5-25-07  
 Put on Production: 7-1-07  
 GL 5808' KB 5820'

Initial Production: BOPD,  
 MCFD, BWPD

## Wellbore Diagram

### SURFACE CASING

CSG SIZE 8-5/8"  
 GRADE J-55  
 WEIGHT: 24#  
 LENGTH 7 jnts (299 7')  
 DEPTH LANDED 311 55' KB  
 HOLE SIZE 12-1/4"  
 CEMENT DATA 160 sxs Class "G" cmt, est 7 bbls cmt to surf.

### PRODUCTION CASING

CSG SIZE 5-1/2"  
 GRADE J-55  
 WEIGHT 15 5#  
 LENGTH 137jts (6020 14')  
 DEPTH LANDED: 6033 39' KB  
 HOLE SIZE 7-7/8"  
 CEMENT DATA 300 sxs Prem Lite II mixed & 450 sxs 50/50 POZ  
 CEMENT TOP AT 46'

### TUBING

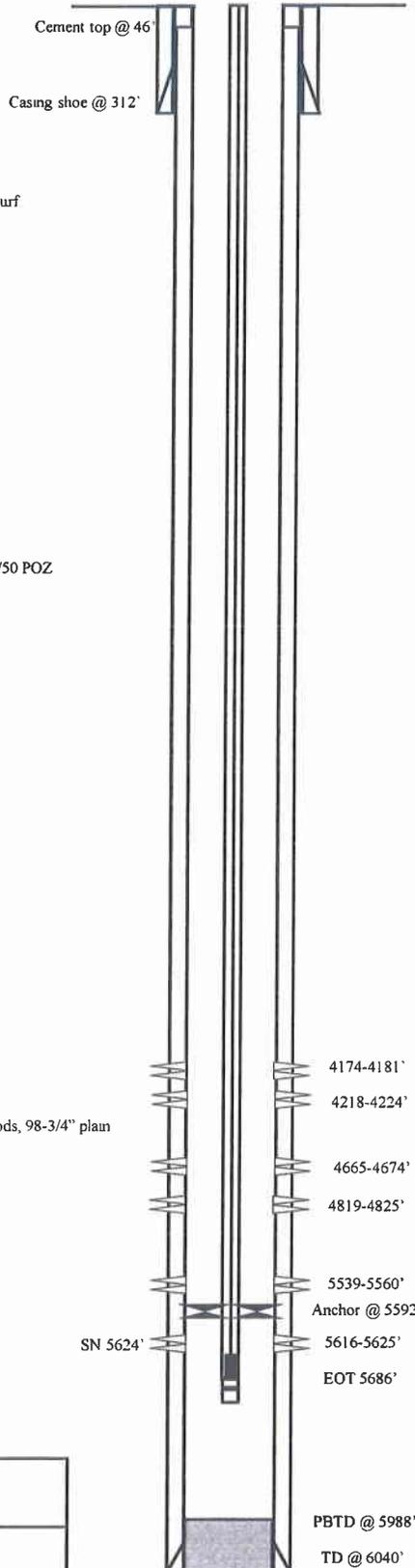
SIZE/GRADE/WT : 2-7/8" / J-55 / 6 5#  
 NO OF JOINTS 185 jts (5579 62')  
 TUBING ANCHOR 5591 62' KB  
 NO OF JOINTS 1 jts (29 35')  
 SEATING NIPPLE 2-7/8" (1 10')  
 SN LANDED AT 5623 77' KB  
 NO OF JOINTS 2 jts (61 14')  
 TOTAL STRING LENGTH EOT @ 5686 46' KB

### SUCKER RODS

POLISHED ROD 1-1/2" x 22' SM  
 SUCKER RODS 1-4"x3/4" Pony rod, 100-3"/4" Scrapered rods, 98-3/4" plain rods, 20-3/4" scrapered rods, 6-11/2" waight rods  
 PUMP SIZE 2-1/2" x 1-1/2" x 15' RHAC  
 STROKE LENGTH 86"  
 PUMP SPEED, 51/2 SPM

### FRAC JOB

6-25-07	5450-5542'	<b>Frac CP2 sands as follows:</b> 24334# 20/40 sand in 348 bbls Lightnrg 17 frac fluid Treated @ avg press of 1701 psi w/avg rate of 24.7 BPM ISIP 1662 psi Calc flush: 5448 gal Actual flush 5166 gal
6-25-07	5539-5560'	<b>Frac CP1 sands as follows:</b> 100170# 20/40 sand in 740 bbls Lightnrg 17 frac fluid Treated @ avg press of 1719 psi w/avg rate of 24.7 BPM ISIP 2090 psi Calc flush: 5537 gal Actual flush 5040 gal
6-25-07	4819-4825'	<b>Frac C sands as follows:</b> 19504# 20/40 sand in 271 bbls Lightnrg 17 frac fluid Treated @ avg press of 1963 psi w/avg rate of 24.7 BPM ISIP 1792 psi Calc flush 4817 gal Actual flush 4368 gal
6-25-07	4665-4674'	<b>Frac D1 sands as follows:</b> 45093# 20/40 sand in 407 bbls Lightnrg 17 frac fluid 24.7 BPM ISIP 2060 psi Calc flush 4663 gal Actual flush 4200gal
6-25-07	4218-4224'	<b>Frac GB6 sands as follows:</b> 39989# 20/40 sand in 383 bbls Lightnrg 17 frac fluid 24.7 BPM ISIP 2212 psi Calc flush 4216 gal Actual flush: 4158gal
	4174-4181'	<b>FracGB4 sands as follows:</b> No information for this frac on the drilling report



### PERFORATION RECORD

Date	Depth Range	Perforation Type	Holes
6-20-07	5616-5625'	4 JSPF	36 holes
6-25-07	5539-5560'	4 JSPF	84 holes
6-25-07	4819-4825'	4 JSPF	24 holes
6-25-07	4665-4674'	4 JSPF	36 holes
6-25-07	4218-4224'	4 JSPF	24 holes
	4174-4181'	4 JSPF	28holes

**NEWFIELD**

**Federal 5-15-9-16**

1791' FNL & 578' FWL  
 SW/NW Section 15-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33138; Lease #UTU-79834

## CP State 32-16

Spud Date: 3-25-82  
Put on Production: 8-26-82

### Wellbore Diagram

#### SURFACE CASING

CASING SIZE	WEIGHT, LB/FT.	DEPTH SET (MG)	HOLES SIZE	CONCRETE RECORD
8-5/8"	24#	255'	12-1/4"	200 sx Class 'G'
5-1/2"	15.5#	5650'	7-7/8"	260 sx 50-50 Poz

#### FRAC JOB

5504-5512' and 5526-5554' - Acidized with 2000 gal. 15% HCl with 1000 gal. terasperse, 20 gal. FE-1A & 4 gal. HAI-75 inhibitor. Fraced with 42,000 gal. VER-1400 gelled water with 62,500# 20/40 sand & 10,000# 10/20 sand.

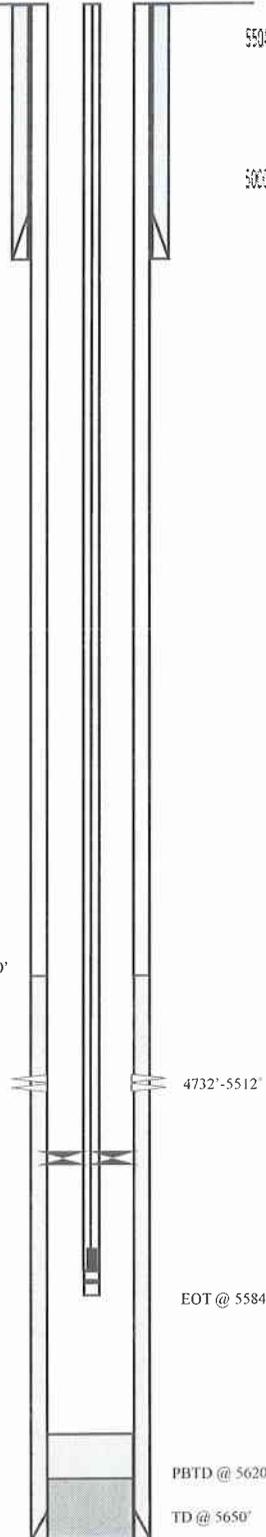
5000-5010' and 4732-4738' - Fraced with 25,000 gal. VER-1400 gelled water with 28,000# 20/40 sand & 10,000# of 10/20 sand.

Casing Shoe @ 255'

#### TUBING

Size 2 7/8"  
Total String Length EOT 5584'

TOC @ 4480'



#### PERFORATION RECORD

- 5504-5512' - 2 SPF, 23 gram, 4" gun
- 5526-5554' - 2 SPF, 23 gram, 4" gun
- 5000-5010' - 2 SPF, 23 gram, 4" gun
- 4732-4738' - 2 SPF, 23 gram, 4" gun

**NEWFIELD**

CP State 32-16  
2009' FNL & 1838' FEL  
SW/NE Section 16-T9S-R16E  
Duchesne County, Utah  
API #43-013-30650; Lease #ML-16532

ATTACHMENT

**GMB 3-16-9-16H Wellbore Diagram NEWFIELD**

Surface Location: NE/NW, Sec 16, T9S R16E  
 County/State: Greater Monument Butte, Duchesne County, Utah  
 Elevation: 5847' GL + 12' KB API: 43-013-50441

ROCKY MOUNTAINS

Wellhead

8-5/8" Casing Shoe  
1,025

Casing Detail	Size	Wt.	Grade	Conn.	Top	Bottom	Burst	Collapse	ID	Drift	bb/ft	Hole	TOC
Surface	8-5/8"	24#	J-55	LTC	0	1,025							Surface
Production	5-1/2"	17#	M-80	LTC	0	5,993	7,740	7,020	4,892	4,767	0.0233	7-7/8"	Port Collar
Production	4-1/2"	11.6#	P-110	LTC	5,993	10,249	7,774	8,510	4,000	3,875	0.0155	6-1/8"	5,654' md to Surface
					TVD	6,011	burst & collapse values are book, no additional safety factors have been applied						

Tubing Detail	Size	Wt.	Grade	Conn.	Length	Top	Bottom	Joints
TBG DETAIL: sand drain valve, 3 jts 2 7/8" tbg., Cavins De-sander, 2 7/8" sub, 1 jt 2 7/8" tbg., SN, 1 jt 2 7/8" tbg., 5 1/2" TAC, 187 jts 2 7/8" tbg and tbg hanger. TA @ 5,870'. SN @ 5,903'. EOT @ 6,052' NOTE on Tubing Anchor: TA (shortened inner springs & beveled outer springs-4.625" OD)								

**WELLBORE FLUIDS**  
 Lateral section fluid= +-8.4 ppg "clean" brine

Rod Detail	Size	Grade	Count	Length	Top	Bottom
Pump and Rod Detail: Weatherford MacGyver 1 3/4" x 28' rod pump, stabilizer sub, on/off tool, stabilizer sub, SE 4 Co-rod, 1- 8', 6', 4', 2' x 7/8" pony rods, 1 1/2" x 26' polished rod NOTE on Pump: with CoRod, must have Clutch (on/off tool) installed.						

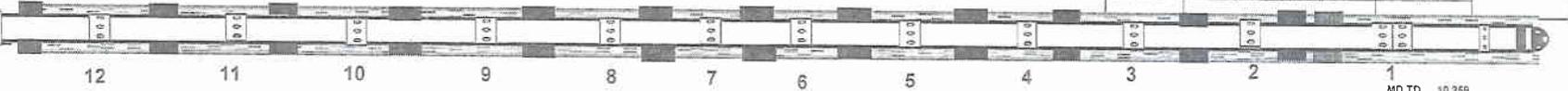
WFD port Collar  
5,355  
KOP  
5,400

Proposed Frac Data	Top		Bottom		Packers Plus 12 Stage StackFrac HD Stimulation Liner							Prop type/ size	Prop Vol (lbs)	Total Clean Vol (bbbls)	
	Top	Bottom	Depth	Ball OD (in.)	Seat ID (in.)	Vol. to Seat (bbl)	Actual Vol. (bbl)	Difference (bbl)	Ball Action (ΔP)						
Toe Section	10,249	10,249	Packers Plus 4-1/2" Toe Circulating Sub w/1.000" Seat for 1.250" SF2 High Pressure Ball (Actuated at 1,098 psi). And Open Hole TD												
Stage 1	10,087	10,249	Dual Hydraulic Frac Port: Depth 10,160 Ball OD (in.) NA Seat ID (in.) NA Vol. to Seat (bbl) 204.33 Actual Vol. (bbl) NA Difference (bbl) NA Ball Action (ΔP) NA							100 mesh sand	0				
Mechanical Packer 1	10,060	10,087	OH Anchor/Packer							30/50 mesh sand	0	1,903			
Stage 2	9,682	10,002	Packer Plus 7" x 4-1/2" RockSeal II 10K Hydraulic Set Open Hole Packer (Actuated at 2,268psi)							100 mesh sand	34,144	2,342			
Mechanical Packer 2	9,677	9,682	FracPort 2: Depth 9,641 Ball OD (in.) 2,125 Seat ID (in.) 2,000 Vol. to Seat (bbl) 198.39 Actual Vol. (bbl) 0.00 Difference (bbl) NA Ball Action (ΔP) NA							30/50 mesh sand	30,760				
Stage 3	9,914	9,677	Packer Plus 7" x 4-1/2" RockSeal II 10K Hydraulic Set Open Hole Packer (Actuated at 2,268psi)							100 mesh sand	36,389	2,775			
Mechanical Packer 3	9,354	9,359	FracPort 3: Depth 9,317 Ball OD (in.) 2,125 Seat ID (in.) 2,125 Vol. to Seat (bbl) 194.37 Actual Vol. (bbl) 0.00 Difference (bbl) NA Ball Action (ΔP) NA							30/50 mesh sand	18,836				
Stage 4	9,035	9,354	Packer Plus 7" x 4-1/2" RockSeal II 10K Hydraulic Set Open Hole Packer (Actuated at 2,268psi)							100 mesh sand	7,548	2,716			
Mechanical Packer 4	9,030	9,035	FracPort 4: Depth 9,193 Ball OD (in.) 2,250 Seat ID (in.) 2,250 Vol. to Seat (bbl) 189.36 Actual Vol. (bbl) 0.00 Difference (bbl) NA Ball Action (ΔP) NA							30/50 mesh sand	0				
Stage 5	8,710	9,030	Packer Plus 7" x 4-1/2" RockSeal II 10K Hydraulic Set Open Hole Packer (Actuated at 2,268psi)							100 mesh sand	28,177	4,118			
Mechanical Packer 5	8,705	8,710	FracPort 5: Depth 8,869 Ball OD (in.) 2,500 Seat ID (in.) 2,375 Vol. to Seat (bbl) 164.35 Actual Vol. (bbl) 0.00 Difference (bbl) NA Ball Action (ΔP) NA							30/50 mesh sand	36,211				
Stage 6	8,386	8,705	Packer Plus 7" x 4-1/2" RockSeal II 10K Hydraulic Set Open Hole Packer (Actuated at 2,268psi)							100 mesh sand	37,277	3,967			
Mechanical Packer 6	8,381	8,386	FracPort 5: Depth 8,544 Ball OD (in.) 2,625 Seat ID (in.) 2,500 Vol. to Seat (bbl) 179.32 Actual Vol. (bbl) 0.00 Difference (bbl) NA Ball Action (ΔP) NA							30/50 mesh sand	30,591				
Stage 7	8,066	8,381	Packer Plus 7" x 4-1/2" RockSeal II 10K Hydraulic Set Open Hole Packer (Actuated at 2,268psi)							100 mesh sand	32,229	2,784			
Mechanical Packer 7	8,061	8,066	FracPort 7: Depth 8,220 Ball OD (in.) 2,750 Seat ID (in.) 2,625 Vol. to Seat (bbl) 174.30 Actual Vol. (bbl) 0.00 Difference (bbl) NA Ball Action (ΔP) NA							30/50 mesh sand	21,643				
Stage 8	7,743	8,061	Packer Plus 7" x 4-1/2" RockSeal II 10K Hydraulic Set Open Hole Packer (Actuated at 2,268psi)							100 mesh sand	35,076	3,706			
Mechanical Packer 8	7,738	7,743	FracPort 8: Depth 7,901 Ball OD (in.) 2,875 Seat ID (in.) 2,750 Vol. to Seat (bbl) 169.37 Actual Vol. (bbl) 0.00 Difference (bbl) NA Ball Action (ΔP) NA							30/50 mesh sand	30,420				
Stage 9	7,418	7,738	Packer Plus 7" x 4-1/2" RockSeal II 10K Hydraulic Set Open Hole Packer (Actuated at 2,268psi)							100 mesh sand	30,308	2,777			
Mechanical Packer 9	7,413	7,418	FracPort 8: Depth 7,577 Ball OD (in.) 3,000 Seat ID (in.) 2,675 Vol. to Seat (bbl) 164.35 Actual Vol. (bbl) 0.00 Difference (bbl) NA Ball Action (ΔP) NA							30/50 mesh sand	14,314				
Stage 10	6,768	7,413	Packer Plus 7" x 4-1/2" RockSeal II 10K Hydraulic Set Open Hole Packer (Actuated at 2,268psi)							100 mesh sand	25,506	1,866			
Mechanical Packer 10	7,088	7,093	FracPort 10: Depth 7,252 Ball OD (in.) 3,125 Seat ID (in.) 3,000 Vol. to Seat (bbl) 159.32 Actual Vol. (bbl) 0.00 Difference (bbl) NA Ball Action (ΔP) NA							30/50 mesh sand	3,467				
Stage 11	6,763	7,088	Packer Plus 7" x 4-1/2" RockSeal II 10K Hydraulic Set Open Hole Packer (Actuated at 2,268psi)							100 mesh sand	37,864	2,804			
Mechanical Packer 11	6,763	6,768	FracPort 11: Depth 6,927 Ball OD (in.) 3,250 Seat ID (in.) 3,125 Vol. to Seat (bbl) 160.37 Actual Vol. (bbl) 0.00 Difference (bbl) NA Ball Action (ΔP) NA							30/50 mesh sand	36,049				
Stage 12	6,445	6,763	Packer Plus 7" x 4-1/2" RockSeal II 10K Hydraulic Set Open Hole Packer (Actuated at 2,268psi)							100 mesh sand	31,764	2,755			
Mechanical Packer 12	6,438	6,445	FracPort 11: Depth 6,601 Ball OD (in.) 3,375 Seat ID (in.) 3,250 Vol. to Seat (bbl) 154.29 Actual Vol. (bbl) 0.00 Difference (bbl) NA Ball Action (ΔP) NA							30/50 mesh sand	21,198				
OH Anchor/Packer	5,451	5,455	Packer Plus 8-5/8" x 5-1/2" RockSeal II 10K Hydraulic Set Open Hole Packer (Actuated at 2,048psi)										Total Fluid		
Rockseal II Packer	5,372	5,377	Packer Plus 8-5/8" x 5-1/2" RockSeal II 10K Hydraulic Set Open Hole Packer (Actuated at 2,046psi)										34,458		

Lat Length 3,804  
 Total Stim. Lateral 3,804  
 Avg. Stage Length 317 \*between packers

Sand Total 100 mesh sand 335,921  
 580,309 30/50 mesh sand 244,388  
 # sand per foot of lateral 153

6.5" x 4.625" x 5,993



MD TD 10,259  
 TVD TD 6,011

1084

Water Analysis Report

Production Company: **NEWFIELD PRODUCTION**  
Well Name: **SWDIF**  
Sample Point: **After production filter**  
Sample Date: **12/9/2011**  
Sample ID: **WA-204150**

Sales Rep: **Darren Betts**  
Lab Tech: **Gary Peterson**

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

Sample Specifics		Analysis @ Properties in Sample Specifics			
		Cations		Anions	
		mg/L		mg/L	
Test Date:	12/9/2011	Sodium (Na):	6799.09	Chloride (Cl):	10000.00
System Temperature 1 (°F):	300.00	Potassium (K):	26.10	Sulfate (SO4):	2.00
System Pressure 1 (psig):	3000.00	Magnesium (Mg):	9.40	Bicarbonate (HCO3):	1024.80
System Temperature 2 (°F):	70.00	Calcium (Ca):	26.80	Carbonate (CO3):	0.00
System Pressure 2 (psig):	14.70	Strontium (Sr):	0.00	Acetic Acid (CH3COO)	0.00
Calculated Density (g/ml):	1.01	Barium (Ba):	24.20	Propionic Acid (C2H5COO)	0.00
pH:	8.20	Iron (Fe):	0.47	Butanoic Acid (C3H7COO)	0.00
Calculated TDS (mg/L):	17913.62	Zinc (Zn):	0.00	Isobutyric Acid ((CH3)2CHCOO)	0.00
CO2 in Gas (%):	0.00	Lead (Pb):	0.70	Fluoride (F):	0.00
Dissolved CO2 (mg/L):	0.00	Ammonia NH3:	0.00	Bromine (Br):	0.00
H2S in Gas (%):	0.00	Manganese (Mn):	0.06	Silica (SiO2):	0.00
H2S in Water (mg/L):	10.00				

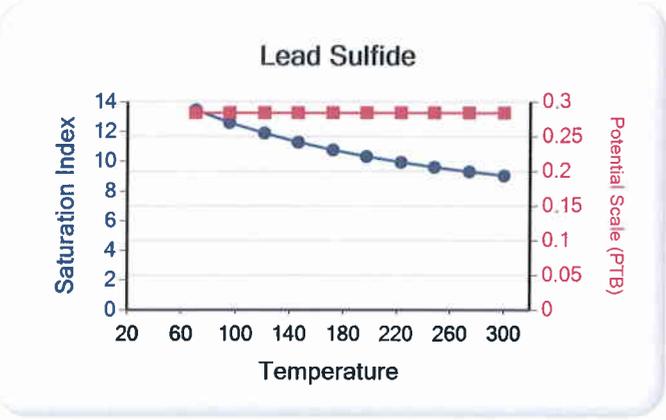
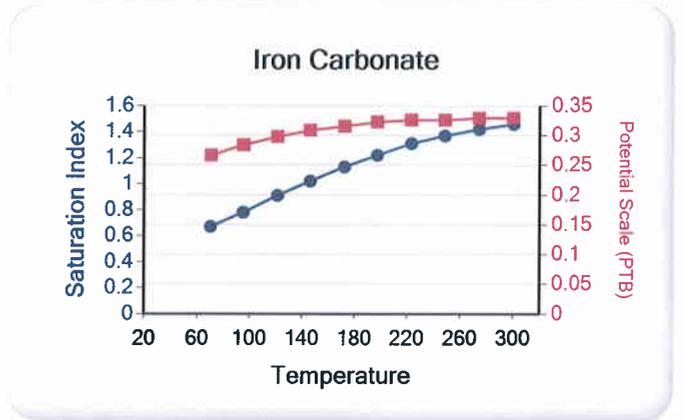
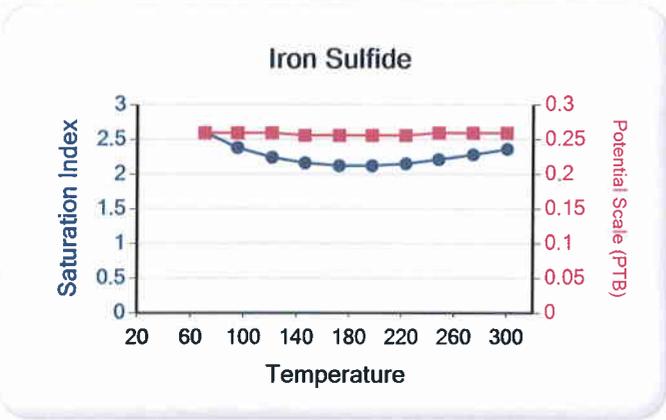
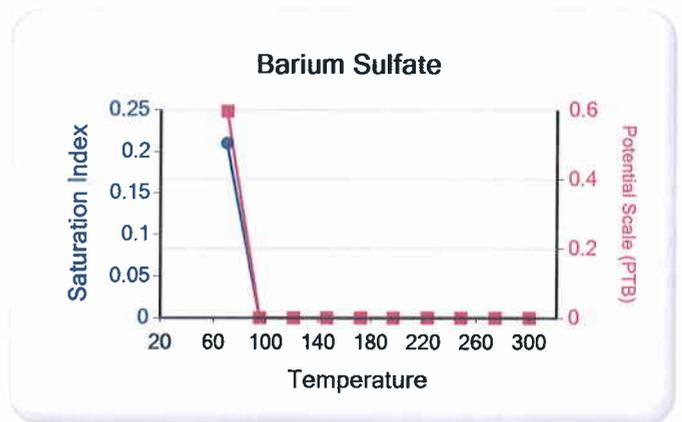
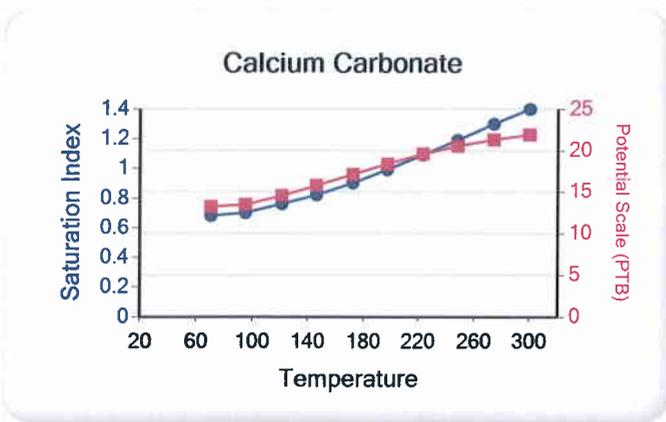
Notes:

(PTB = Pounds per Thousand Barrels)

Temp (°F)	PSI	Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO4·2H2O		Celestite SrSO4		Halite NaCl		Zinc Sulfide	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
70	14	0.68	13.26	0.21	0.60	2.60	0.26	0.67	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	346	0.70	13.48	0.00	0.00	2.38	0.26	0.78	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
121	678	0.76	14.55	0.00	0.00	2.24	0.26	0.91	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146	1009	0.82	15.79	0.00	0.00	2.16	0.26	1.02	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172	1341	0.90	17.10	0.00	0.00	2.12	0.26	1.13	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
197	1673	0.99	18.39	0.00	0.00	2.12	0.26	1.22	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
223	2004	1.09	19.55	0.00	0.00	2.15	0.26	1.31	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
248	2336	1.19	20.54	0.00	0.00	2.21	0.26	1.37	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
274	2668	1.30	21.32	0.00	0.00	2.28	0.26	1.42	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300	3000	1.40	21.90	0.00	0.00	2.36	0.26	1.46	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Temp (°F)	PSI	Hemihydrate CaSO4·0.5H2O		Anhydrate CaSO4		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
70	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.45	0.28	0.00	0.00	0.00	0.00	0.00	0.00
95	346	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.59	0.28	0.00	0.00	0.00	0.00	0.00	0.00
121	678	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.89	0.28	0.00	0.00	0.00	0.00	0.00	0.00
146	1009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.28	0.28	0.00	0.00	0.00	0.00	0.00	0.00
172	1341	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.76	0.28	0.00	0.00	0.00	0.00	0.00	0.00
197	1673	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.32	0.28	0.00	0.00	0.00	0.00	0.00	0.00
223	2004	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.93	0.28	0.00	0.00	0.00	0.00	0.00	0.00
248	2336	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.60	0.28	0.00	0.00	0.00	0.00	0.00	0.00
274	2668	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.30	0.28	0.00	0.00	0.00	0.00	0.00	0.00
300	3000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.03	0.28	0.00	0.00	0.00	0.00	0.00	0.00

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



384

Units of Measurement: **Standard**

Water Analysis Report

Production Company: **NEWFIELD PRODUCTION**  
 Well Name: **STATE 1-16-9-16**  
 Sample Point: **Treater**  
 Sample Date: **5/20/2012**  
 Sample ID: **WA-214848**

Sales Rep: **Michael McBride**  
 Lab Tech: **Gary Peterson**

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

Sample Specifics		Analysis @ Properties in Sample Specifics					
Test Date:	5/29/2012	Cations		mg/L	Anions		mg/L
System Temperature 1 (°F):	120.00	Sodium (Na):	4850.97	Chloride (Cl):	6500.00		
System Pressure 1 (psig):	60.0000	Potassium (K):	27.00	Sulfate (SO <sub>4</sub> ):	154.00		
System Temperature 2 (°F):	185.00	Magnesium (Mg):	7.20	Bicarbonate (HCO <sub>3</sub> ):	1708.00		
System Pressure 2 (psig):	60.0000	Calcium (Ca):	20.60	Carbonate (CO <sub>3</sub> ):	0.00		
Calculated Density (g/ml):	1.006	Strontium (Sr):	0.00	Acetic Acid (CH <sub>3</sub> COO)	0.00		
pH:	8.40	Barium (Ba):	8.00	Propionic Acid (C <sub>2</sub> H <sub>5</sub> COO)	0.00		
Calculated TDS (mg/L):	13306.70	Iron (Fe):	30.30	Butanoic Acid (C <sub>3</sub> H <sub>7</sub> COO)	0.00		
CO <sub>2</sub> in Gas (%):	0.00	Zinc (Zn):	0.09	Isobutyric Acid ((CH <sub>3</sub> ) <sub>2</sub> CHCOO)	0.00		
Dissolved CO <sub>2</sub> (mg/L):	0.00	Lead (Pb):	0.02	Fluoride (F):			
H <sub>2</sub> S in Gas (%):	0.00	Ammonia NH <sub>3</sub> :		Bromine (Br):			
H <sub>2</sub> S in Water (mg/L):	0.00	Manganese (Mn):	0.52	Silica (SiO <sub>2</sub> ):			

Notes:

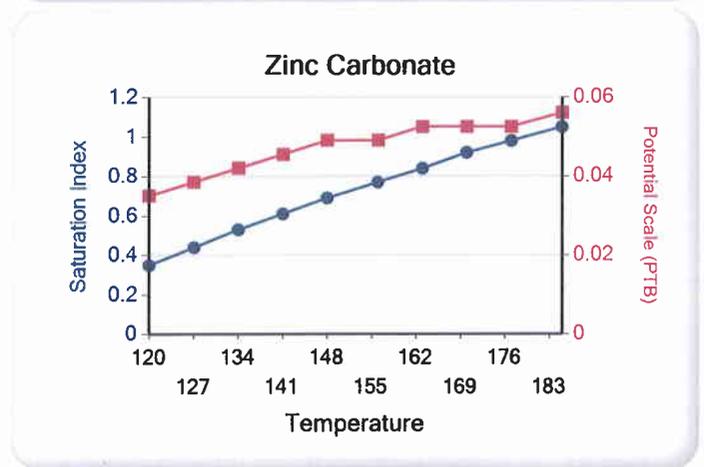
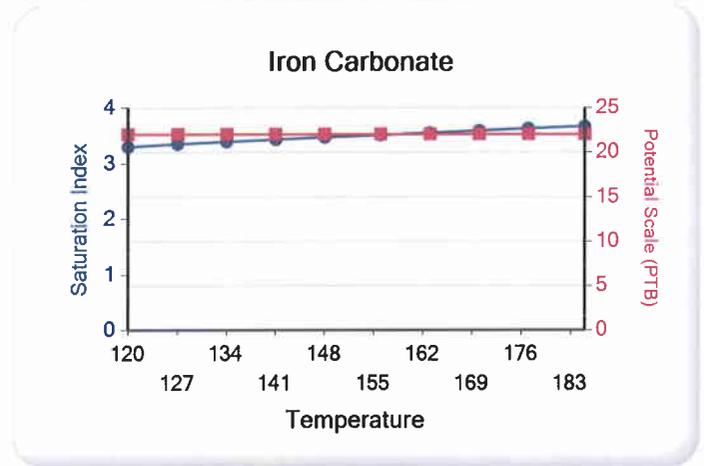
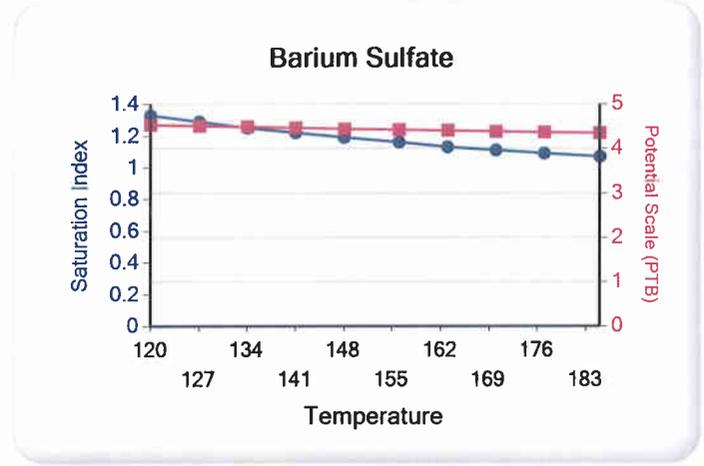
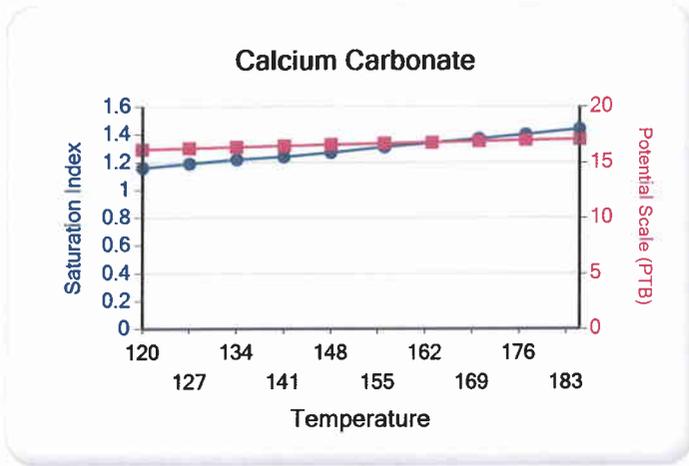
(PTB = Pounds per Thousand Barrels)

Temp (°F)	PSI	Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO <sub>4</sub> ·2H <sub>2</sub> O		Celestite SrSO <sub>4</sub>		Halite NaCl		Zinc Sulfide	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
185.00	60.00	1.44	17.07	1.07	4.35	0.00	0.00	3.67	22.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.00	60.00	1.40	16.98	1.09	4.36	0.00	0.00	3.63	22.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.00	60.00	1.37	16.89	1.11	4.38	0.00	0.00	3.59	22.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
163.00	60.00	1.34	16.79	1.13	4.40	0.00	0.00	3.55	22.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
156.00	60.00	1.31	16.69	1.16	4.42	0.00	0.00	3.51	22.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
148.00	60.00	1.27	16.59	1.19	4.44	0.00	0.00	3.47	22.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
141.00	60.00	1.24	16.48	1.22	4.47	0.00	0.00	3.43	22.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
134.00	60.00	1.22	16.36	1.25	4.49	0.00	0.00	3.39	22.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.00	60.00	1.19	16.25	1.29	4.51	0.00	0.00	3.35	22.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.00	60.00	1.16	16.14	1.33	4.54	0.00	0.00	3.30	22.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Temp (°F)	PSI	Hemihydrate CaSO <sub>4</sub> ·0.5H <sub>2</sub> O		Anhydrate CaSO <sub>4</sub>		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
185.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
163.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.84	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
156.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.77	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
148.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
141.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
134.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

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



Attachment "G"

State #1-16-9-16  
Proposed Maximum Injection Pressure

Frac Interval (feet)		Avg. Depth (feet)	ISIP (psi)	Calculated Frac Gradient (psi/ft)	Pmax
Top	Bottom				
5549	5556	5553	1720	0.74	1684 ←
5200	5211	5206	2560	0.93	2526
5086	5096	5091	2240	0.87	2207
4938	4944	4941	1885	0.81	1853
4762	4768	4765	2099	0.87	2068
4155	4165	4160	1900	0.89	1873
				<b>Minimum</b>	<u><u>1684</u></u>

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

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

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

## Daily Activity Report

Format For Sundry

STATE 1-16-9-16

3/1/2008 To 7/30/2008

5/9/2008 Day: 1

Completion

Rigless on 5/8/2008 - Install 5M frac head. NU 6" 5M Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 5618' & cement top @ 90'. Perforate stage #1. CP1 sds @ 5549- 56' w/ 3 1/8" slick guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 28 shots. 138 BWTR. SIFN.

5/16/2008 Day: 2

Completion

Rigless on 5/15/2008 - Stage #1, CP1 sands. RU BJ Services. 0 psi on well. Frac CP1 sds w/ 19,592#'s of 20/40 sand in 324 bbls of Lightning 17 fluid. Broke @ 3083 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 2457 psi @ ave rate of 23.1 BPM. Pumped 504 gals of 15% HCL in flush for Stage #2. ISIP 1720 psi. Leave pressure on well. 462 BWTR Stage #2, LODC sands. RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 11' perf gun. Set plug @ 5310'. Perforate LODC sds @ 5200- 5211' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 44 shots. RU BJ Services. 1190 psi on well. Frac LODC sds w/ 44,487#'s of 20/40 sand in 448 bbls of Lightning 17 fluid. Broke @ 2693 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 2174 psi @ ave rate of 23.4 BPM. Pumped 504 gals of 15% HCL in flush for Stage #3. ISIP 2560 psi. Leave pressure on well. 910 BWTR Stage #3, A1 sands. RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 10' perf gun. Set plug @ 5160'. Perforate A1 sds @ 5086- 5096' 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. 1975 psi on well. Frac A1 sds w/ 45,335#'s of 20/40 sand in 439 bbls of Lightning 17 fluid. Broke @ 3818 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1987 psi @ ave rate of 23.3 BPM. Pumped 504 gals of 15% HCL in flush for Stage #4. ISIP 2240 psi. Leave pressure on well. 1349 BWTR Stage #4, B2 sands. RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 6' perf gun. Set plug @ 5040'. Perforate B2 sds @ 4938- 44' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 24 shots. RU BJ Services. 1800 psi on well. Frac B2 sds w/ 20,020#'s of 20/40 sand in 310 bbls of Lightning 17 fluid. Broke @ 3841 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 2133 psi @ ave rate of 23.2 BPM. Pumped 504 gals of 15% HCL in flush for Stage #5. ISIP 1885 psi. Leave pressure on well. 1659 BWTR Stage #5, D3 sands. RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 6' perf gun. Set plug @ 4870'. Perforate D3 sds @ 4762- 68' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 24 shots. RU BJ Services. 1510 psi on well. Frac D3 sds w/ 20,619#'s of 20/40 sand in 307 bbls of Lightning 17 fluid. Broke @ 4060 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1898 psi @ ave rate of 23.4 BPM. Pumped 504 gals of 15% HCL in flush for Stage #6. ISIP 2099 psi. Leave pressure on well. 1966 BWTR Stage #6, GB4 & GB6 sands. RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac

plug, 10 & 12' perf gun. Set plug @ 4260'. Perforate GB6 sds @ 4155- 65', GB4 sds @ 4130'- 42' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 88 shots. RU BJ Services. 1270 psi on well. Frac GB4 & GB6 sds w/ 91,335#'s of 20/40 sand in 664 bbls of Lightning 17 fluid. Broke @ 1455 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1983 psi @ ave rate of 23.3 BPM. ISIP 1900 psi. Begin immediate flowback on 12/64 choke @ 1 BPM. Flowed for 6 hrs & died. Rec 335 BTF. SIWFN w/ 2295 BWTR.

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5/17/2008 Day: 3

Completion

Leed #731 on 5/16/2008 - 50 psi on well. MIRU Leed rig 731. Bleed off pressure. ND Cameron BOP & 5M WH. NU 3M WH & Schaffer BOP. Talley tbg & get ready to PU tbg. SIWFN w/ 2283 BWTR. .

---

5/18/2008 Day: 4

Completion

Leed #731 on 5/17/2008 - 0 psi on well. Bleed off pressure. Talley, PU & RIH w/ 4 3/4" chomp bit, Bit sub & 2 7/8" J-55 tbg. Tagged sand @ 4215'. RU Nabors power swivel. Circulate sand & drill out plugs. Sand @ 4215', Plug @ 4260' (Drilled out 10 mins). Tagged sand @ 4800', Plug @ 4870' (Drilled up in 15 mins). No sand, Plug @ 5040' (Drilled out 10 mins). Tagged sand @ 5135', Plug @ 5160' (Drilled up in 10 mins). Tagged sand @ 52900', Plug @ 5310' (Drilled out 10 mins). Tagged fill @ 5570'. C/O well clean. LD 3-jts of tbg. EOT @ 5481'. SIWFN w/ 2266 BWTR.

---

5/20/2008 Day: 5

Completion

Leed #731 on 5/19/2008 - 0 psi on well. Bleed off pressure. TIH w/ tbg. Tagged fill @ 5570'. C/O to PBTD @ 5787'. RD power swivel. LD 2 jts of tbg. EOT @ 5694'. RU swab equipment. IFL @ surface. Made 16 runs, Rec 150 BTF. FFL @ 1300'. Trace of oil, No sand. RD swab equipment. TIH w/ tbg. Tagged fill @ 5787'. C/O to PBTD @ 5787'. LD 6 jts of tbg. TOH w/ 76 jts of tbg. EOT @ 3204'. SIWFN w/ 2177 BWTR. .

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5/21/2008 Day: 6

Completion

Leed #731 on 5/20/2008 - 0 psi on well. Continue TOH w/ tbg. LD bit & bit sub. TIH w/ production tbg as follows: NC, 2- jts, SN, 1- jt, TA & 175 jts of 2 7/8" J-55 tbg. ND BOP. Set TA w/ 16,000#'s tension @ 5509', SN @ 5541', EOT @ 5605'. Land tbg on flange. SIWFN w/ 2177 BWTR. .

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5/22/2008 Day: 7

Completion

Leed #731 on 5/21/2008 - 0 psi on well. Flush tbg w/ 60 bbls of wtr. PU & prime rod pump. PU & TIH w/ "B" grade rods as follows: CDI 2 1/2" X 1 1/2" X 15 1/2' RHAC, 6- wt bars, 40- 3/4" guided rods, 70- 3/4" plain rods, 105- 3/4" guided rods, 1- 2', 1- 8' X 3/4" pony rods, 1 1/2" X 22' Polish rod. Hang head, Space out rods. Pressure test w/ unit to 800 psi, Good. RD MOSU. SIWFN w/ 2177 BWTR. Left unit down due to surface equipment issues. FINAL REPORT will follow.,

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5/23/2008 Day: 8

Completion

Leed #731 on 5/22/2008 - PWOP @ 1:00PM @ 5 SPM w/ Est 2177 BWTR. FINAL REPORT.

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Pertinent Files: Go to File List

## ATTACHMENT H

### WORK PROCEDURE FOR PLUGGING AND ABANDONMENT

1. Set CIBP @ 4080'
2. Plug #1 Set 100' plug on top of CIBP using 12 sx Class "G" cement
3. Plug #2 175' balance plug using 20 sx Class "G" cement 50' above Trona-Bird's Nest extending 50' below base of Mahogany Oil Shale
4. Plug #3 120' balance plug using 14sx Class "G" cement 60' above Uinta/Green River and extending 60' below
5. Plug #4 Pump 44 sx Class "G" cement down 5 ½" casing to 374'

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

State 1-16-9-16

Spud Date: 3/29/08  
Put on Production: 5/21/08  
GL: 5776' KB: 5788'

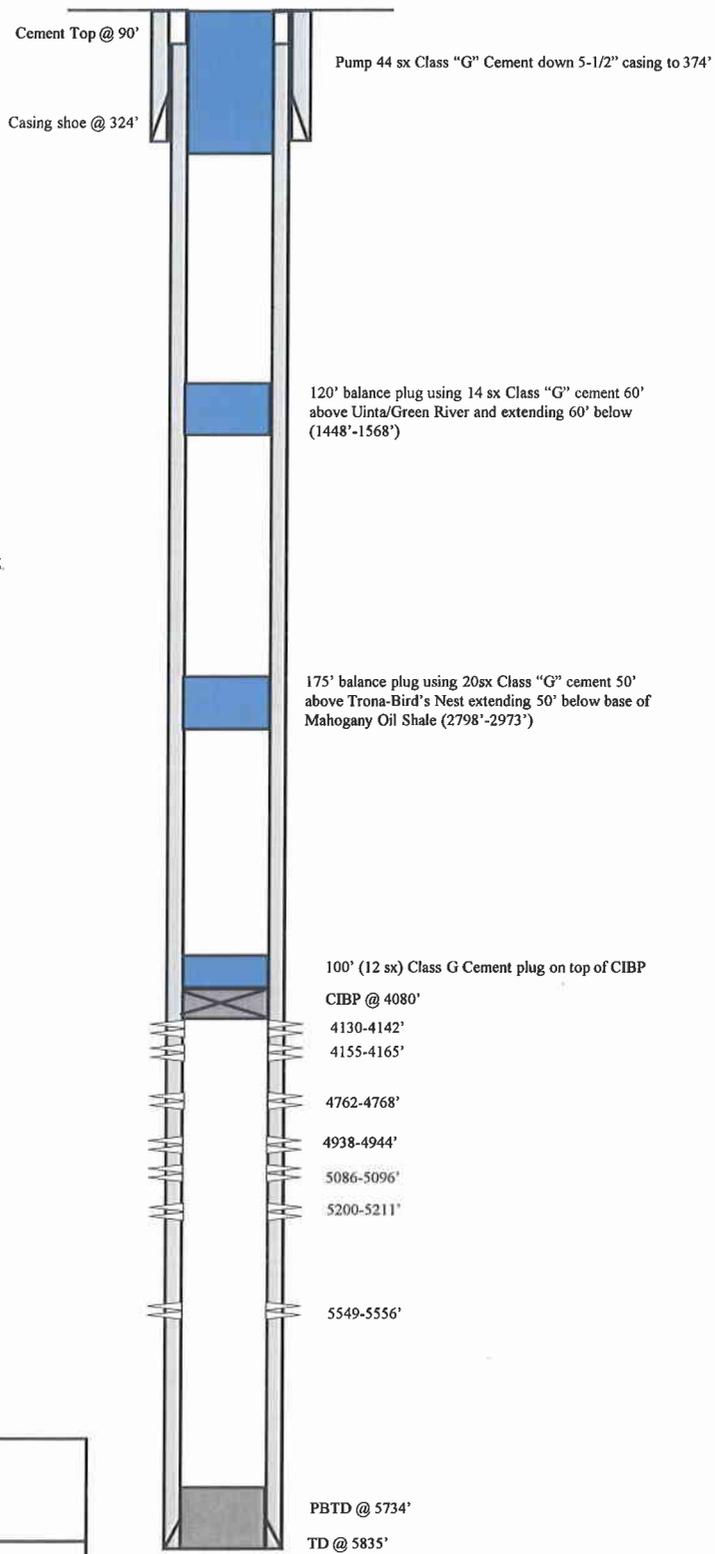
Proposed P & A  
Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts  
DEPTH LANDED: 323.67  
HOLE SIZE: 12-1/4"  
CEMENT DATA: To surface with 160 sx Class "G" cmt

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 152 jts  
HOLE SIZE: 7-7/8"  
DEPTH LANDED: 5835'  
CEMENT DATA: 300 sx Prem. Lite II & 425 sxs 50/50 POZ.  
CEMENT TOP AT: 90'



**NEWFIELD**



**State 1-16-9-16**  
687' FNL & 831' FEL  
NE/NE Section 16-T9S-R16E  
Duchesne Co, Utah  
API #43-013-33845; Lease #Utah State ML-16532