

# NEWFIELD



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

August 17, 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  
**Ashley Federal S-12-9-15**      **South Wells Draw Federal B-8-9-16**  
**Sand Wash Federal L-31-8-17**      **South Wells Draw Federal L-10-9-16**

Dear Diana:

Enclosed find APD's on the above referenced wells. Our Land Department will send you the required Directional Drill Letters. If you have any questions, feel free to give either Dave Allred or myself a call.

Sincerely,

Mandie Crozier  
Regulatory Specialist

mc  
enclosures

RECEIVED  
AUG 24 2007  
DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-72107
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator Newfield Production Company		7. If Unit or CA Agreement, Name and No. South Wells Draw Unit
3a. Address Route #3 Box 3630, Myton UT 84052		8. Lease Name and Well No. South Wells Draw Federal L-10-9-16
3b. Phone No. (include area code) (435) 646-3721		9. API Well No. 43-013-33765
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NW/SE 1975' FSL 1960' FEL At proposed prod. zone NW/SE 2639' FSL 1319' FEL		10. Field and Pool, or Exploratory Monument Butte
14. Distance in miles and direction from nearest town or post office* Approximatley 19.9 miles southwest of Myton, Utah		11. Sec., T., R., M., or Blk. and Survey or Area Sec. 10, T9S R16E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 1319' flse, 1319' f/unit	16. No. of Acres in lease 400.00	17. Spacing Unit dedicated to this well 20 Acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1320'	19. Proposed Depth 6150'	20. BLM/BIA Bond No. on file UTB000192
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5651' GL	22. Approximate date work will start* 4th Quarter 2007	23. Estimated duration Approximately seven (7) days from spud to rig release.
24. Attachments		

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

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

25. Signature 	Name (Printed/Typed) Mandie Crozier	Date 8/17/07
Title Regulatory Specialist		
Approved by (Signature) 	Name (Printed/Typed) BRADLEY G. HILL	Date 09-05-07
Title Office ENVIRONMENTAL MANAGER		

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

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

\*(Instructions on reverse)

Surf 576574X  
4432759Y  
40.043478  
-110.102382

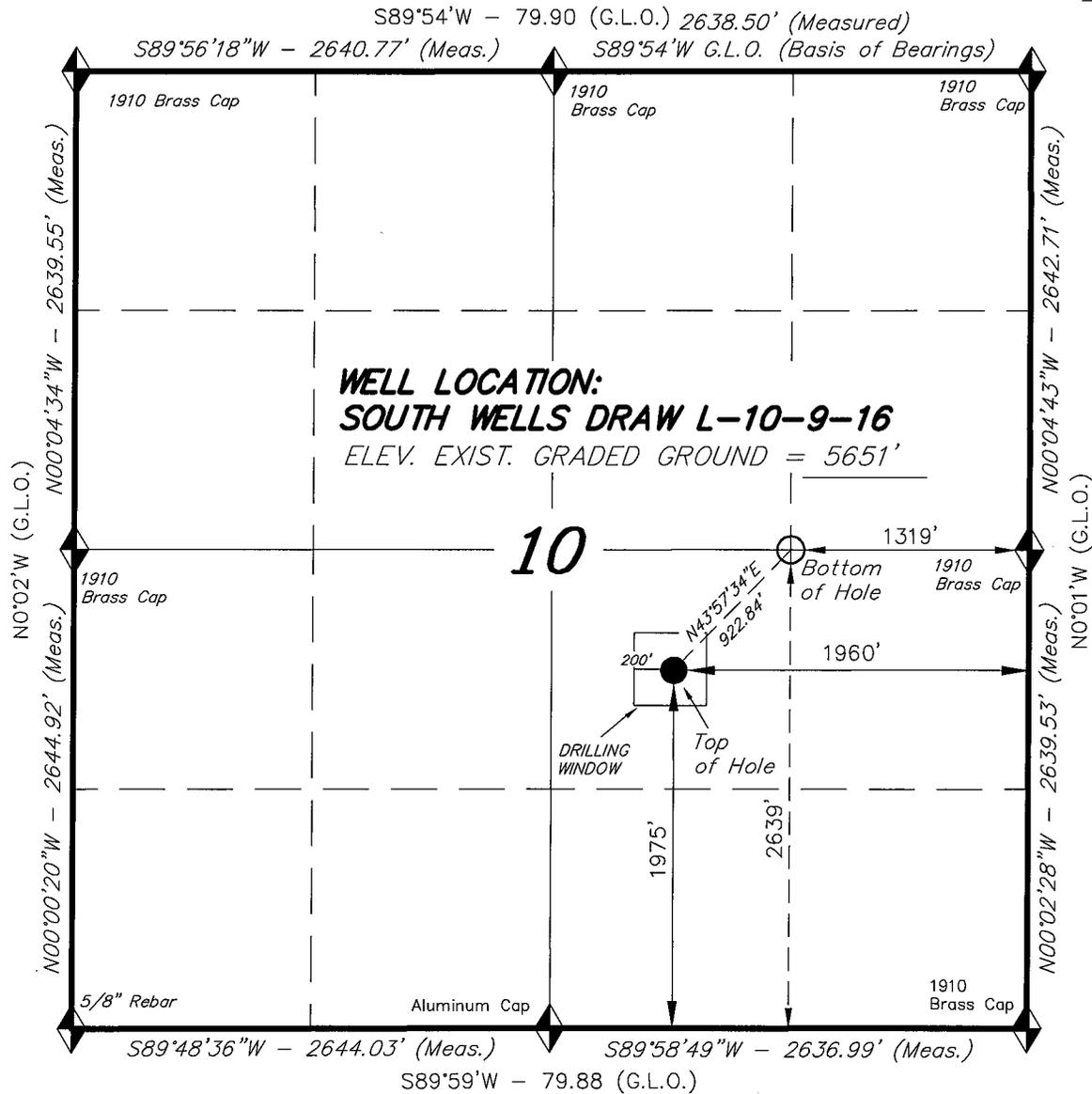
BHL  
576767X  
4432962Y  
40.645295  
-110.100105

Federal Approval of this  
Action is Necessary

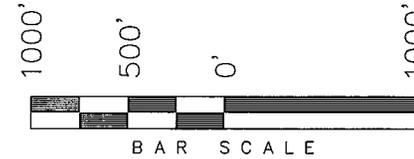
RECEIVED  
AUG 24 2007  
DIV. OF OIL, GAS & MINING

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

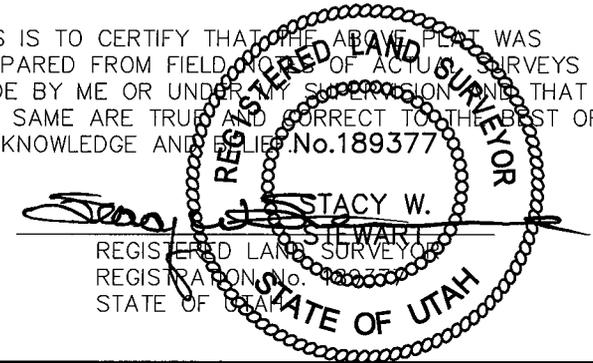
NEWFIELD PRODUCTION COMPANY



WELL LOCATION, SOUTH WELLS DRAW L-10-9-16, LOCATED AS SHOWN IN THE NW 1/4 SE 1/4 OF SECTION 10, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



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



◆ = SECTION CORNERS LOCATED

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

**SOUTH WELLS DRAW L-10-9-16**  
 (Surface Location) NAD 83  
 LATITUDE =  $40^{\circ} 02' 36.67''$   
 LONGITUDE =  $110^{\circ} 06' 10.79''$

## TRI STATE LAND SURVEYING & CONSULTING

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

DATE SURVEYED: 06-15-07	SURVEYED BY: T.H.
DATE DRAWN: 07-03-07	DRAWN BY: T.C.J.
REVISED:	SCALE: 1" = 1000'

NEWFIELD PRODUCTION COMPANY  
SOUTH WELLS DRAW FEDERAL #L-10-9-16  
AT SURFACE: NW/SE SECTION 10, T9S, R16E  
DUCHESNE COUNTY, UTAH

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. GEOLOGIC SURFACE FORMATION:  
Uinta formation of Upper Eocene Age
2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Uinta	0' – 2085'
Green River	2085'
Wasatch	6150'
3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:  
Green River Formation 2085' – 6150' - Oil
4. PROPOSED CASING PROGRAM  
Please refer to the Monument Butte Field Standard Operation Procedure (SOP).
5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:  
Please refer to the Monument Butte Field SOP. See Exhibit "C".
6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:  
Please refer to the Monument Butte Field SOP.
7. AUXILIARY SAFETY EQUIPMENT TO BE USED:  
Please refer to the Monument Butte Field SOP.
8. TESTING, LOGGING AND CORING PROGRAMS:  
Please refer to the Monument Butte Field SOP.
9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:  
The anticipated maximum bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered.
10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:  
Please refer to the Monument Butte Field SOP.

**NEWFIELD PRODUCTION COMPANY  
SOUTH WELLS DRAW FEDERAL #L-10-9-16  
AT SURFACE: NW/SE SECTION 10, T9S, R16E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**MULTI-POINT SURFACE USE & OPERATIONS PLAN**

**1. EXISTING ROADS**

See attached Topographic Map "A"

To reach Newfield Production Company well location site South Wells Draw Federal #L-10-9-16 located in the NW 1/4 SE 1/4 Section 10, T9S, R16E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southwesterly - 11.7 miles  $\pm$  to its junction with an existing dirt road to the northeast; proceed northeasterly - 4.9 miles  $\pm$  to its junction with an existing road to the southwest; proceed southwesterly - 1.5 miles  $\pm$  to its junction with an existing road to the northwest; proceed northwesterly - 0.4 miles  $\pm$  to the existing Monument Federal 33-10-9-16 well location.

**2. PLANNED ACCESS ROAD**

There is no proposed access road for this location. The proposed well will be drilled directionally off of the existing Monument Federal 33-10-9-16 well pad. See attached **Topographic Map "B"**.

**3. LOCATION OF EXISTING WELLS**

Refer to Exhibit "B".

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

The proposed well will be drilled directionally off of the Monument Federal 33-10-9-16 well pad. There will be a pumping unit and a short flow line added to the tank battery for the proposed South Wells Draw Federal L-10-9-16. All permanent surface equipment will be painted Carlsbad Canyon.

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

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

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

Johnson Water District  
Water Right: 43-10136

Neil Moon Pond  
Water Right: 43-11787

Maurice Harvey Pond  
Water Right: 47-1358

Newfield Collector Well

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

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

6. **SOURCE OF CONSTRUCTION MATERIALS**

The proposed South Wells Draw Federal L-10-9-16 will be drilled off of the existing Monument Federal 33-10-9-16 well pad. No additional surface disturbance will be required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

Please refer to the Monument Butte Field SOP.

8. **ANCILLARY FACILITIES**

Please refer to the Monument Butte Field SOP.

9. **WELL SITE LAYOUT**

See attached Location Layout Diagram.

10. **PLANS FOR RESTORATION OF SURFACE**

Please refer to the Monument Butte Field SOP.

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

12. **OTHER ADDITIONAL INFORMATION**

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #07-286, 8/3/07. Paleontological Resource Survey prepared by, SWCA, August 2007. See attached report cover pages, Exhibit "D".

Newfield Production Company requests 1600' of disturbed area be granted in Lease UTU-72107 to allow for construction of the proposed water lines. It is proposed that the disturbed area will temporarily be 50' wide to allow for construction of a buried 3" steel water injection line and a buried 3" poly water return line and 30' wide upon completion of the proposed water lines. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

**Water Disposal**

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

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

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

None For the Proposed South Wells Draw Federal L-10-9-16.

**Reserve Pit Liner**

A 16 mil liner with felt is required. Please refer to the Monument Butte Field SOP.

**Location and Reserve Pit Reclamation**

Please refer to the Monument Butte Field SOP.

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

Kochia Low		6 lbs/acre
Crested Wheatgrass	<i>Agropyron Cristatum</i>	6 lbs/acre

**Details of the On-Site Inspection**

The proposed South Wells Draw Federal L-10-9-16 was on-sited on 7/25/07. The following were present; Dave Allred (Newfield Production), Chuck MacDonald (Bureau of Land Management), and Brandon McDonald (Bureau of Land Management).. Weather conditions were clear and ground cover was 100% open.

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

Representative

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

Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #L-10-9-16 NW/SE Section 10, Township 9S, Range 16E: Lease UTU-72107 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 US Specialty Insurance #B001832.

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

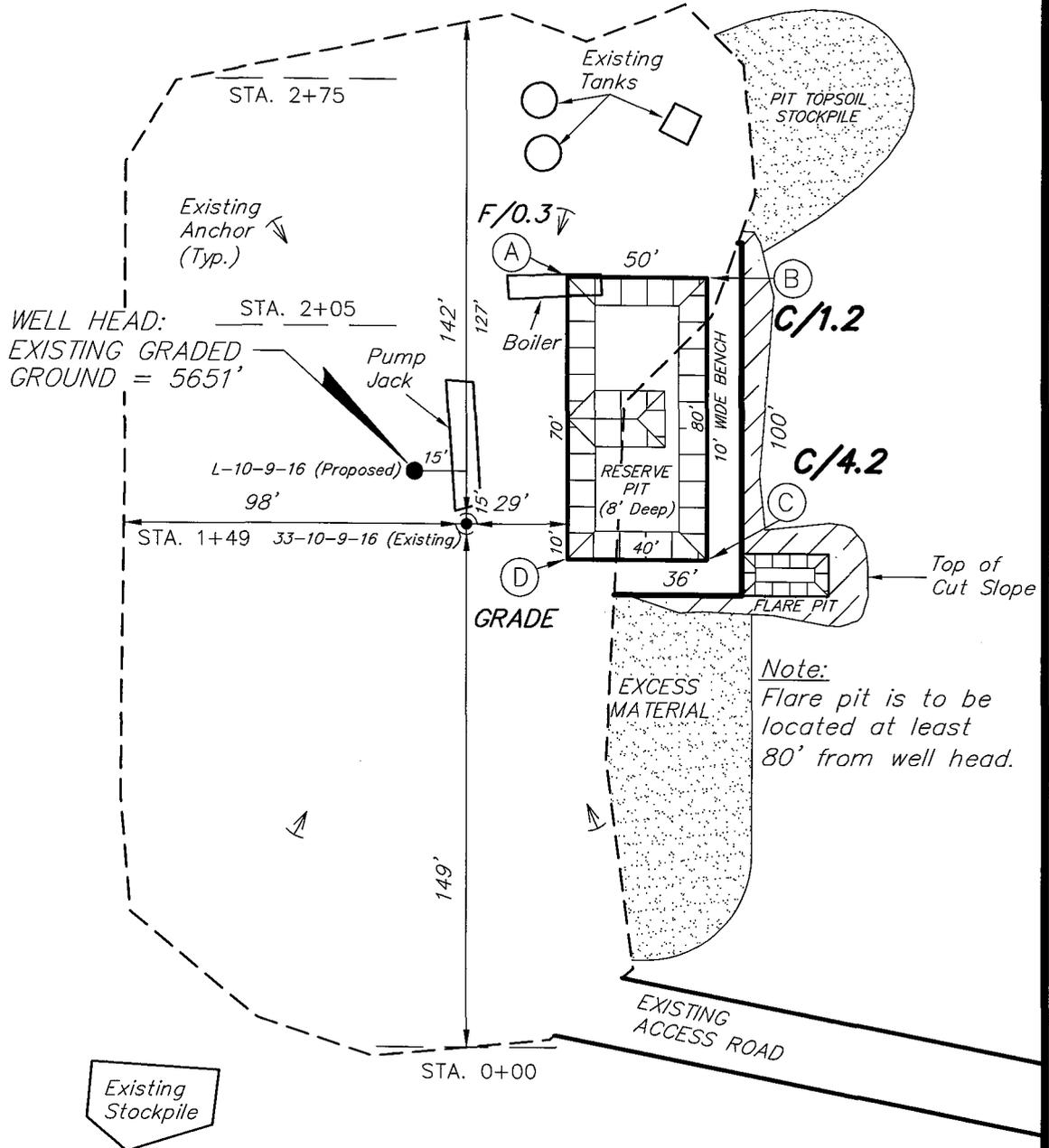
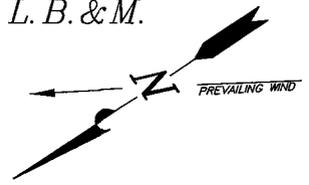
8/17/07  
 \_\_\_\_\_  
 Date

  
 Mandie Crozier  
 Regulatory Specialist  
 Newfield Production Company

# NEWFIELD PRODUCTION COMPANY

SOUTH WELLS DRAW L-10-9-16 (Proposed Well)  
 SOUTH WELLS DRAW 33-10-9-16 (Existing Well)

Pad Location: NWSE Section 10, T9S, R16E, S.L.B.&M.



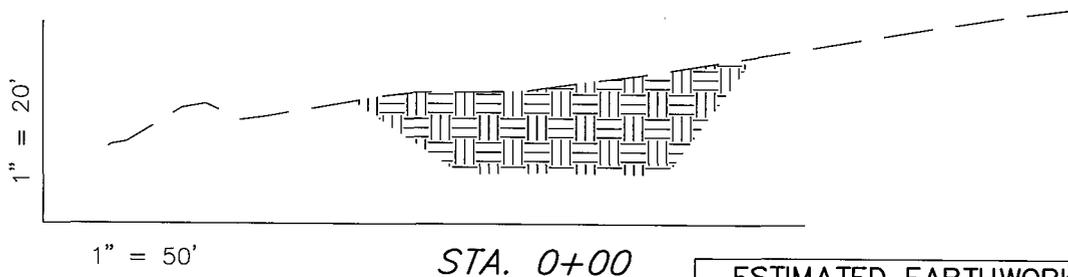
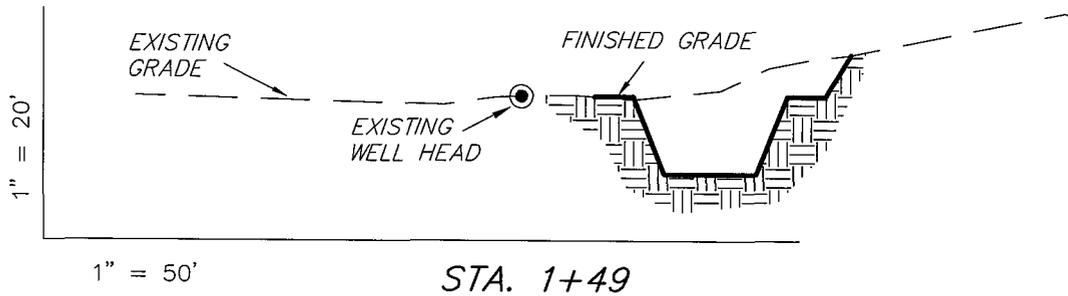
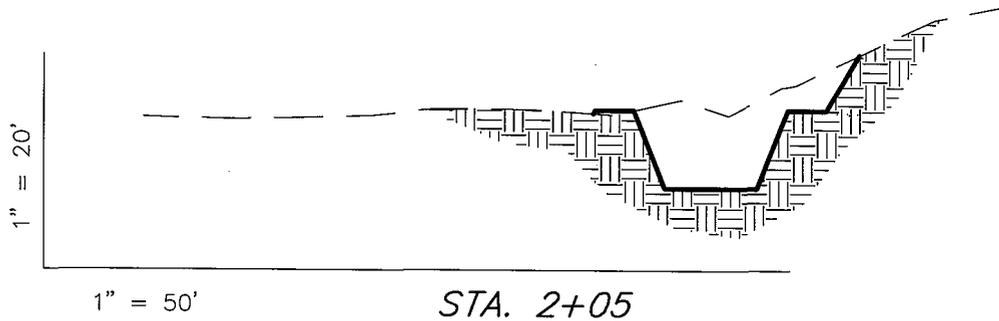
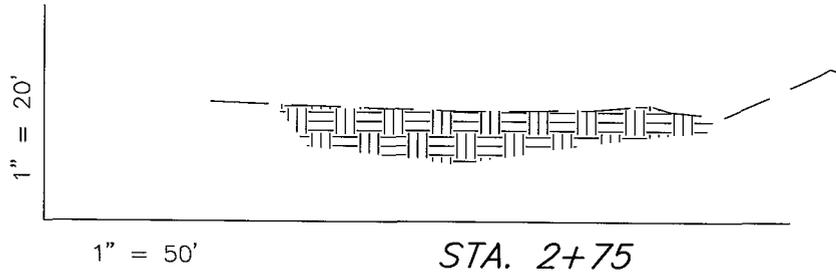
*Note:*  
 Flare pit is to be located at least 80' from well head.

SURVEYED BY: T.H.	SCALE: 1" = 50'	<p style="text-align: right; font-size: small;">(435) 781-2501                  180 NORTH VERNAL AVE. VERNAL, UTAH 84078</p>
DRAWN BY: T.C.J.	DATE: 07-03-07	

# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS

SOUTH WELLS DRAW L-10-9-16 (Proposed Well)  
 SOUTH WELLS DRAW 33-10-9-16 (Existing Well)



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

ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)				
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	400	30	Topsoil is not included in Pad Cut	370
PIT	640	0		640
TOTALS	1,040	30	150	1,010

SURVEYED BY: T.H.

SCALE: 1" = 50'

DRAWN BY: T.C.J.

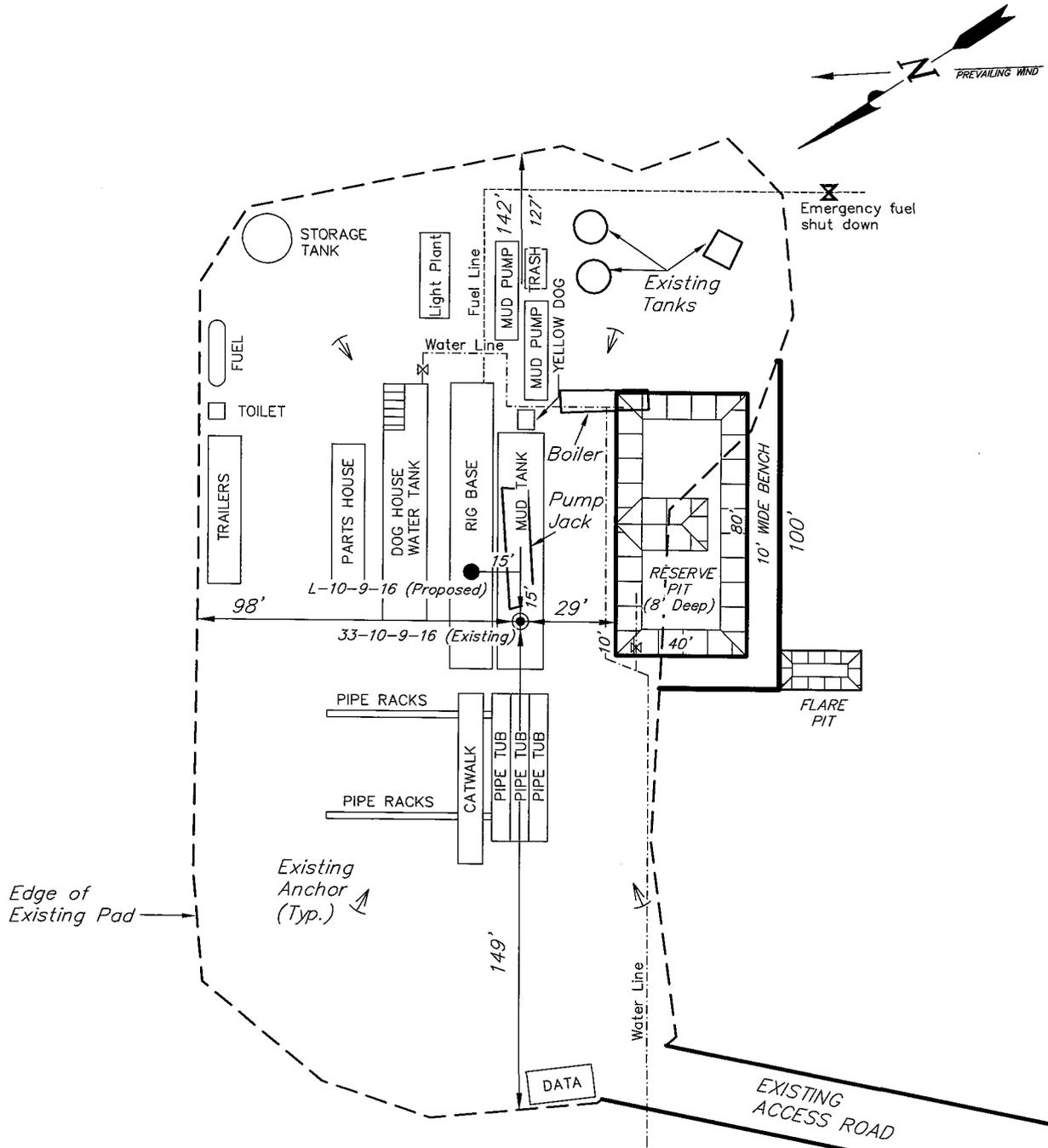
DATE: 07-03-07

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

# NEWFIELD PRODUCTION COMPANY

## TYPICAL RIG LAYOUT

SOUTH WELLS DRAW L-10-9-16 (Proposed Well)  
 SOUTH WELLS DRAW 33-10-9-16 (Existing Well)



REVISED:

SURVEYED BY: T.H.

SCALE: 1" = 50'

DRAWN BY: T.C.J.

DATE: 07-03-07

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

# NEWFIELD PRODUCTION COMPANY

## WELL PAD INTERFERENCE PLAT

SOUTH WELLS DRAW L-10-9-16 (Proposed Well)

SOUTH WELLS DRAW 33-10-9-16 (Existing Well)

Pad Location: NWSE Section 10, T9S, R16E, S.L.B.&M.



**Note:**

Bearings are based on G.P.S. observations.

RELATIVE COORDINATES From top hole to bottom hole		
WELL	NORTH	EAST
L-10 PROPOSED	664'	641'

**TOP HOLE FOOTAGES**

L-10-9-16 (PROPOSED)  
1975' FSL & 1960' FEL

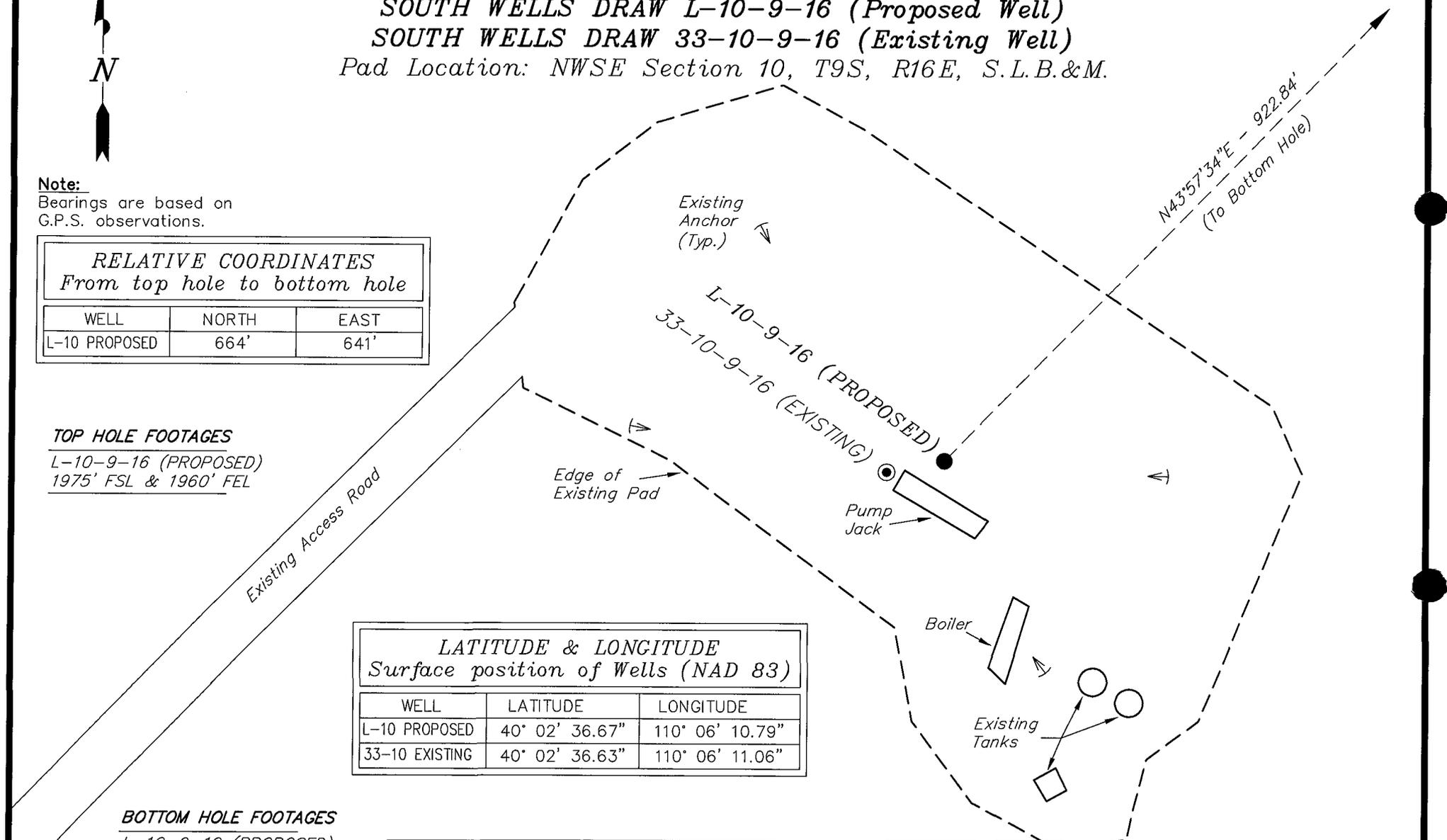
LATITUDE & LONGITUDE Surface position of Wells (NAD 83)		
WELL	LATITUDE	LONGITUDE
L-10 PROPOSED	40° 02' 36.67"	110° 06' 10.79"
33-10 EXISTING	40° 02' 36.63"	110° 06' 11.06"

**BOTTOM HOLE FOOTAGES**

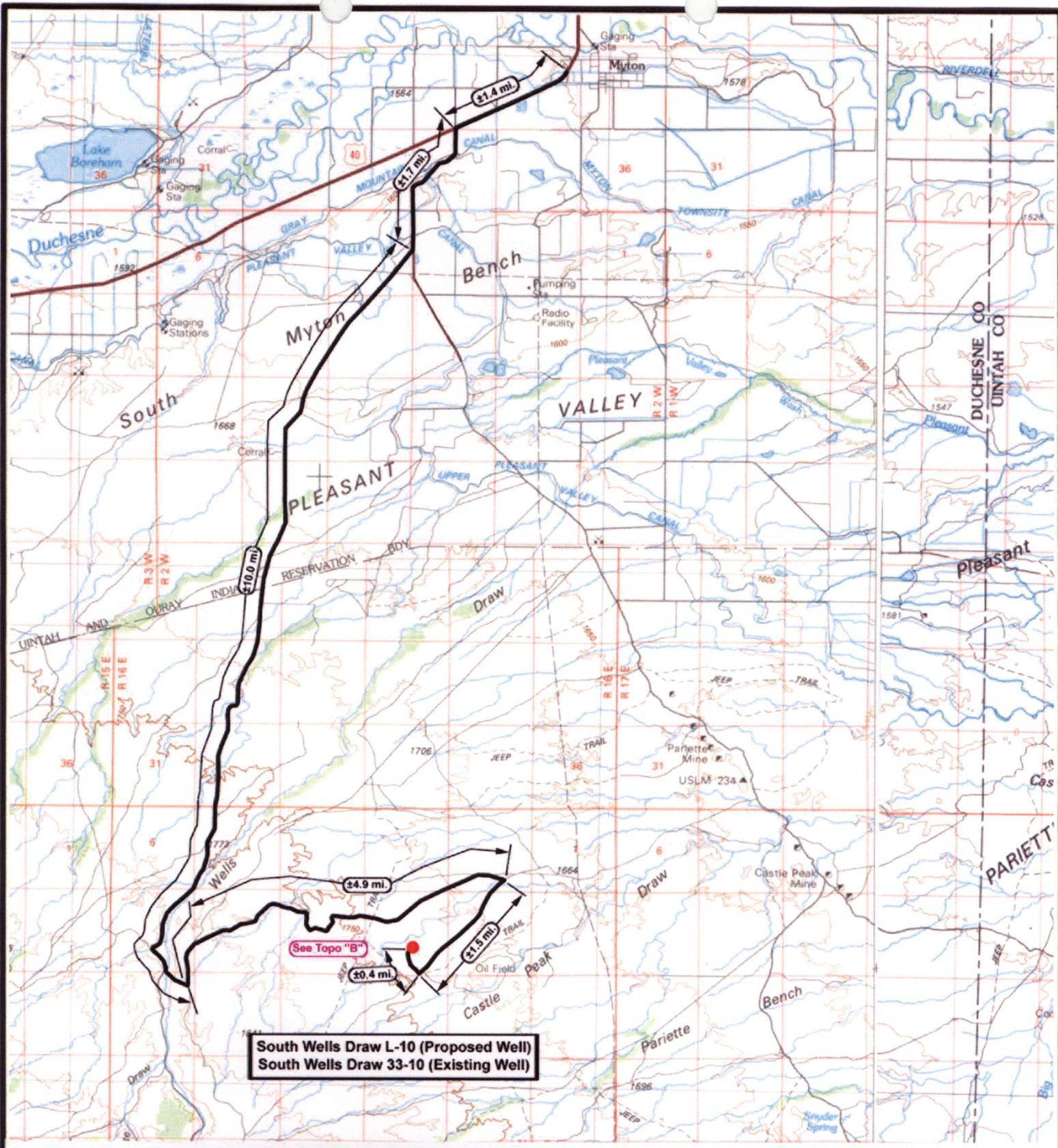
L-10-9-16 (PROPOSED)  
2639' FSL & 1319' FEL

SURVEYED BY: T.H.	DATE SURVEYED: 06-15-07
DRAWN BY: T.C.J.	DATE DRAWN: 07-03-07
SCALE: 1" = 50'	REVISED:

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







South Wells Draw L-10 (Proposed Well)  
 South Wells Draw 33-10 (Existing Well)

**NEWFIELD**  
 Exploration Company

**South Wells Draw L-10-9-16 (Proposed Well)**  
**South Well Draw 33-10-9-16 (Existing Well)**  
 Pad Location: NWSE SEC. 10, T9S, R16E, S.L.B.&M.



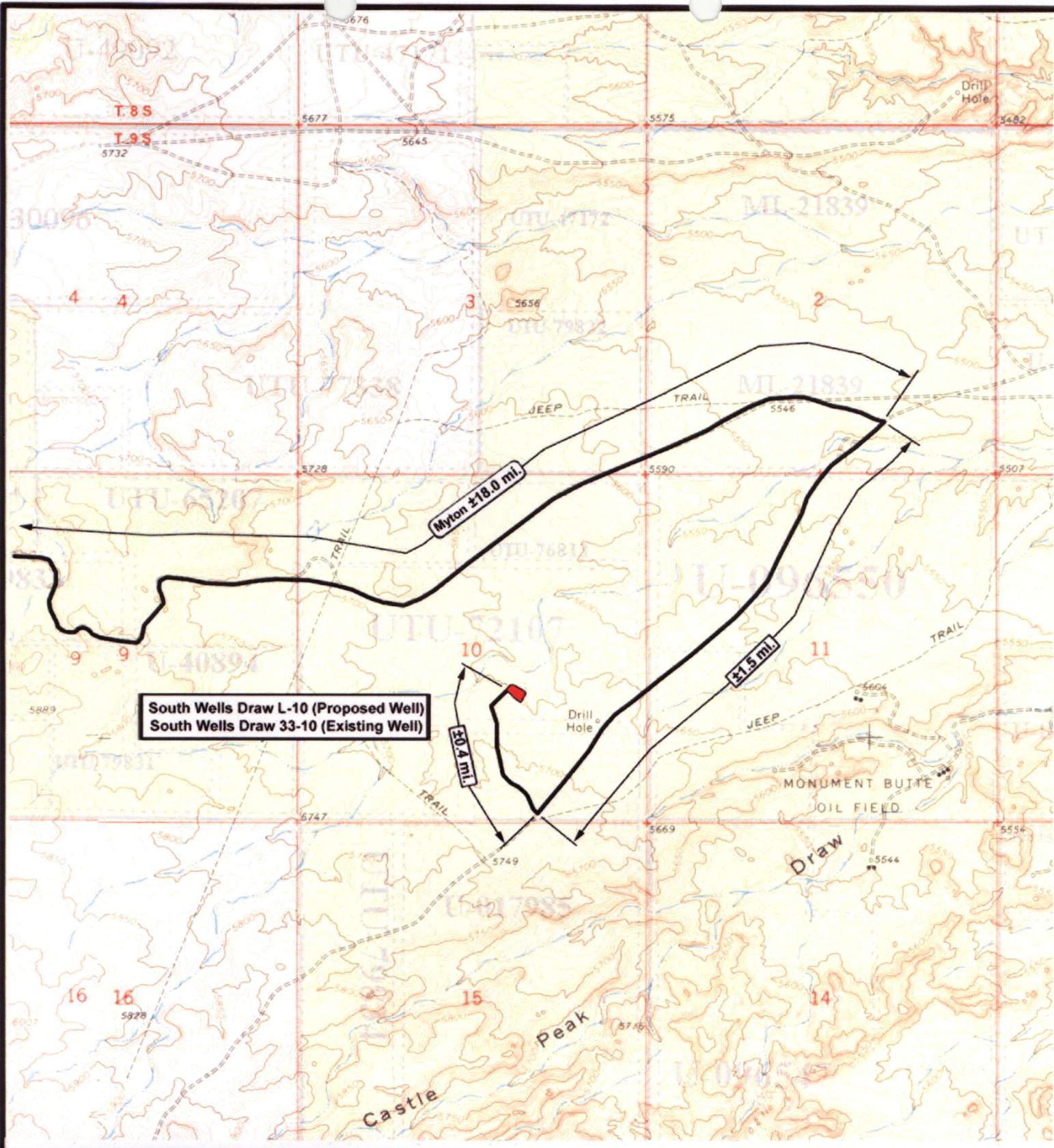
**Tri-State**  
 Land Surveying Inc.  
 (435) 781-2501  
 180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1 = 100,000  
 DRAWN BY: mw  
 DATE: 07-13-2007

**Legend**

Existing Road

TOPOGRAPHIC MAP  
**"A"**



**South Wells Draw L-10 (Proposed Well)**  
**South Wells Draw 33-10 (Existing Well)**



**South Wells Draw L-10-9-16 (Proposed Well)**  
**South Well Draw 33-10-9-16 (Existing Well)**  
 Pad Location: NWSE SEC. 10, T9S, R16E, S.L.B.&M.



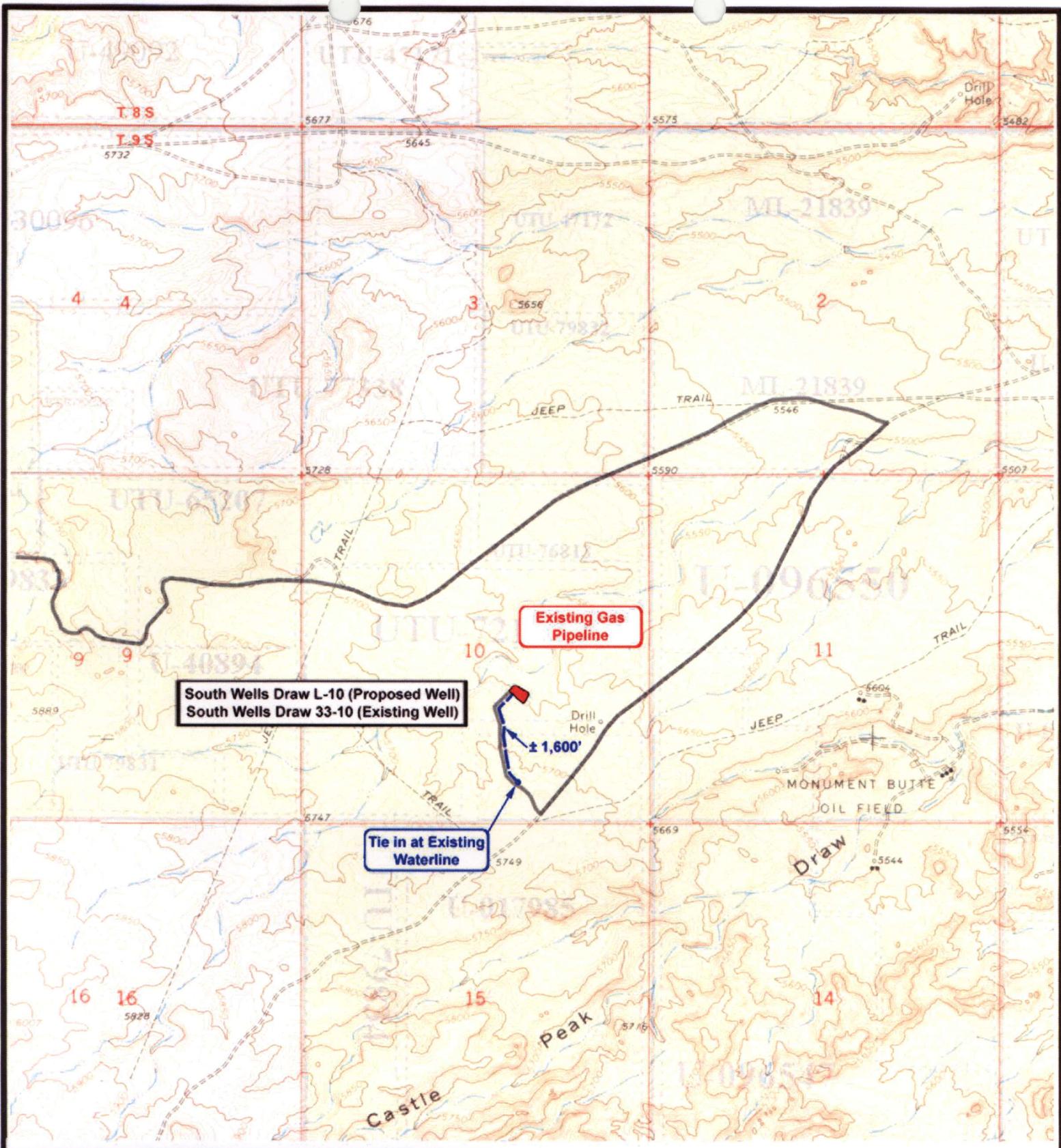
**Tri-State**  
*Land Surveying Inc.*  
 (435) 781-2501  
 180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2000'  
 DRAWN BY: mw  
 DATE: 07-13-2007

**Legend**

Existing Road

TOPOGRAPHIC MAP  
**"B"**



**NEWFIELD**  
Exploration Company

**South Wells Draw L-10-9-16 (Proposed Well)**  
**South Well Draw 33-10-9-16 (Existing Well)**  
Pad Location: NWSE SEC. 10, T9S, R16E, S.L.B.&M.



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

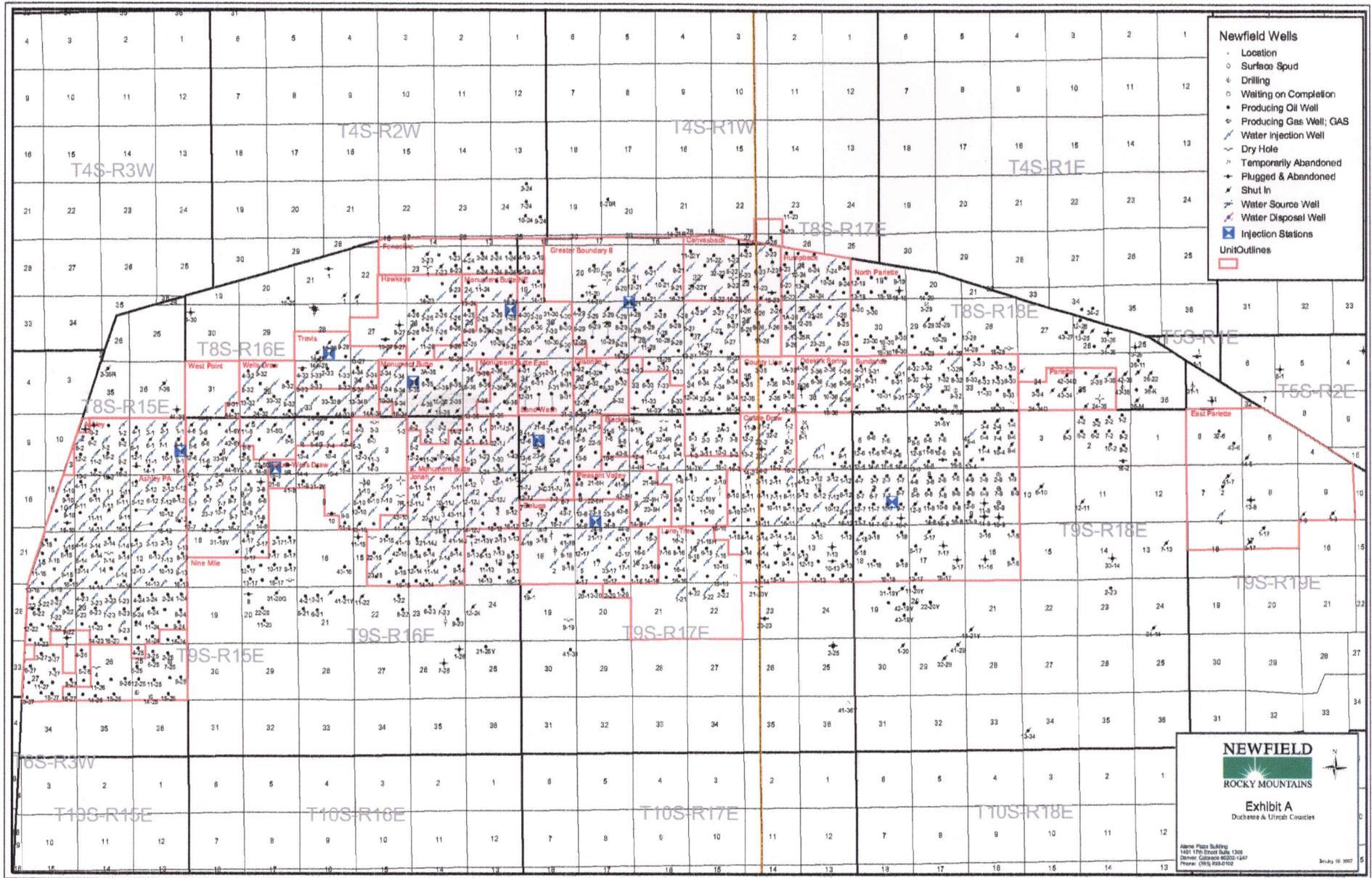
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DRAWN BY: mw  
DATE: 07-13-2007

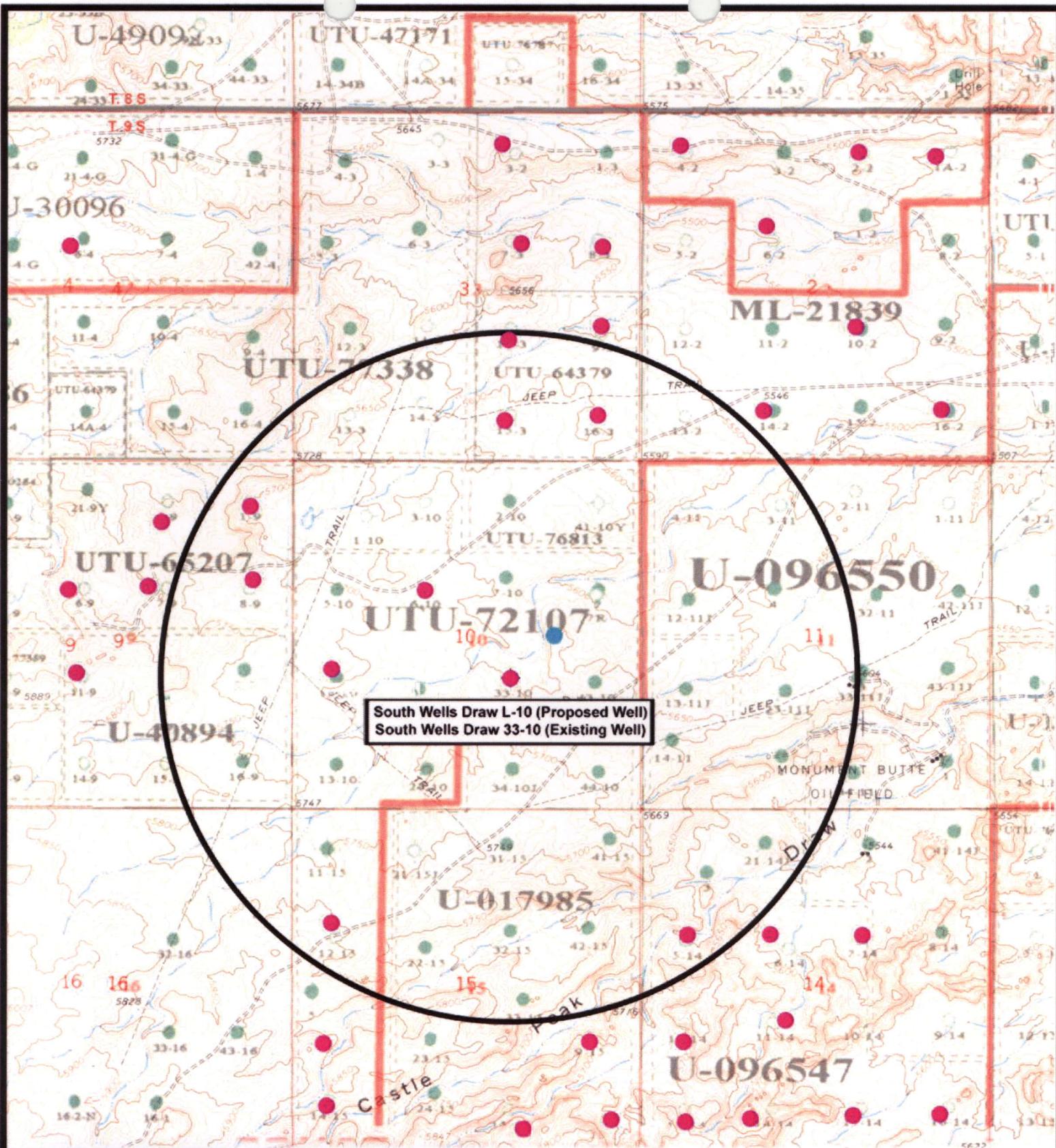
**Legend**

- Roads
- Proposed Water Line

**TOPOGRAPHIC MAP**

**"C"**





South Wells Draw L-10 (Proposed Well)  
 South Wells Draw 33-10 (Existing Well)



**NEWFIELD**  
 Exploration Company

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**South Wells Draw L-10-9-16 (Proposed Well)**  
**South Well Draw 33-10-9-16 (Existing Well)**  
 Pad Location: NWSE SEC. 10, T9S, R16E, S.L.B.&M.




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

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SCALE: 1" = 2,000'  
 DRAWN BY: mw  
 DATE: 07-13-2007

**Legend**

- Pad Location
- Bottom Hole Location
- One-Mile Radius

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**Exhibit "B"**

# 2-M SYSTEM

Blowout Prevention Equipment Systems

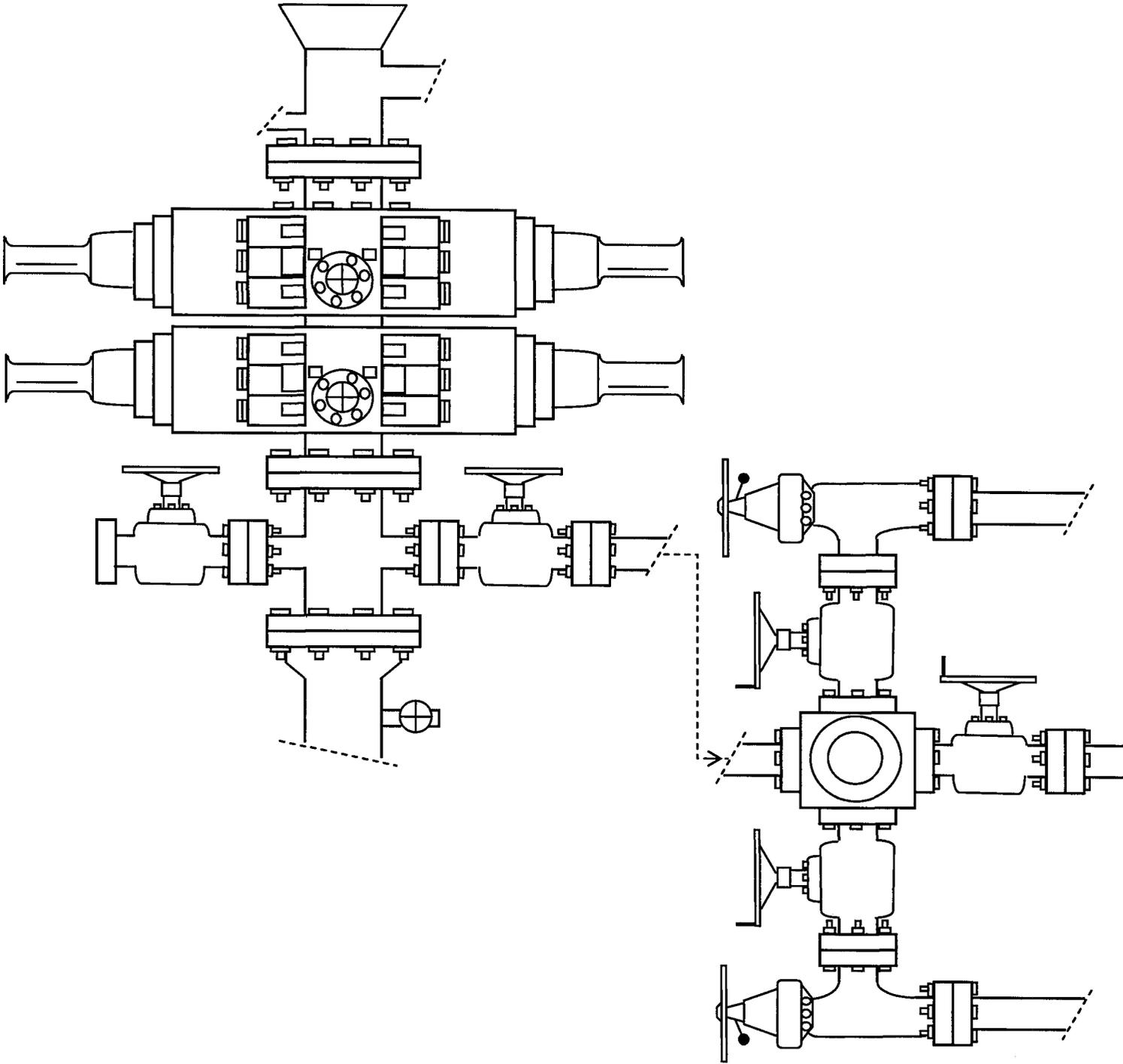


EXHIBIT C

CULTURAL RESOURCE INVENTORY OF  
NEWFIELD EXPLORATION'S 12 PROPOSED  
WATERLINES: AU J-1, AU S-12, GB II G-28  
HAWKEYE G-26, MB NE 1-25, SW L-31  
SWD B-8, SWD L-10, SWD M-10  
SWD N-10, SWD R-4 AND WD C-5  
DUCHESNE COUNTY, UTAH

Exhibit "D"

1 of 2

By:

Jacki A. Montgomery

Prepared For:

Bureau of Land Management  
Vernal Field Office  
and  
State of Utah  
School and Institutional  
Trust Lands Administration

Prepared Under Contract With:

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

Prepared By:

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

MOAC Report No. 07-286

August 3, 2007

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

State of Utah Antiquities Project (Survey)  
Permit No. U-07-MQ-0931bs

**Paleontological Assessment for  
Newfield Exploration Co. Twelve  
Proposed Water Pipelines:**

**Monument Butte NE I-25-8-16**

**Hawkeye G-26-8-16**

**Greater Boundary II G-28-8-17**

**Sand Wash L-31-8-17**

**Ashley J-1-9-15, Nine Mile S-12-9-15**

**Wells Draw C-5-9-16**

**South Wells Draw R-4-9-16, B-8-9-16,  
L-10-9-16, M-10-9-16, N-10-9-16**

**Myton SE and Myton SW Quadrangles  
Duchesne County, Utah**

Prepared for

**Newfield Exploration Co.**

and

**Bureau of Land Management**

Prepared by

**SWCA Environmental Consultants**

August 16, 2007

SWCA Report #UT07-09610-022



**Scientific Drilling**  
Rocky Mountain Operations

Project: Duchesne County, UT  
Site: South Wells Draw L-10-9-16  
Well: South Wells Draw L-10-9-16  
Wellbore: OH  
Design: Plan #1

**Newfield Exploration Co.**

**NEWFIELD**



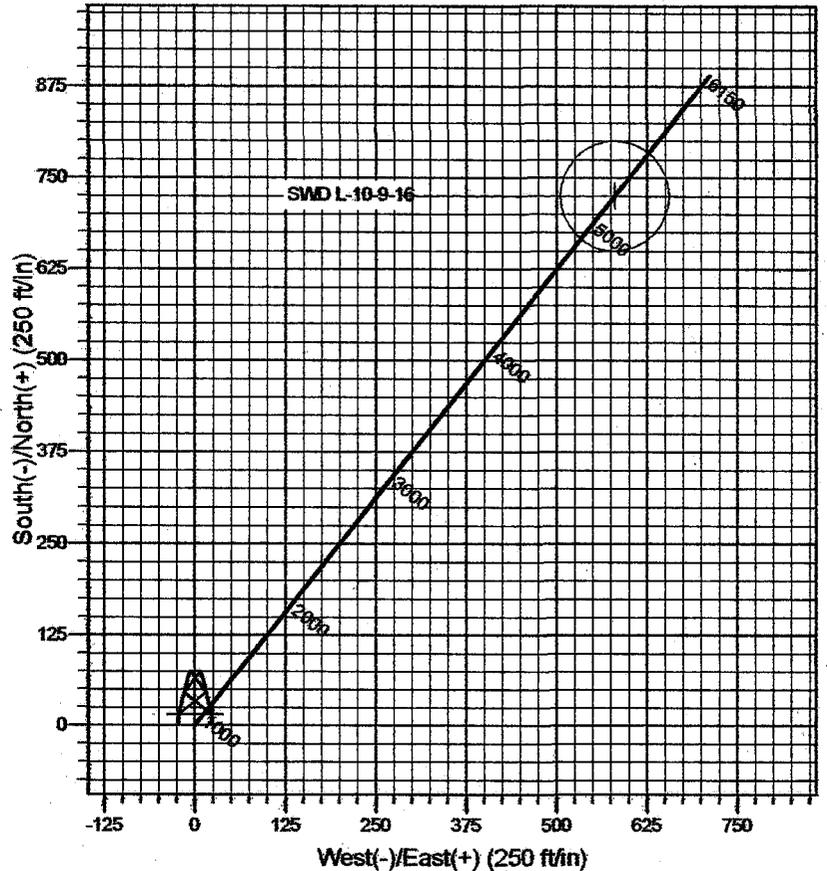
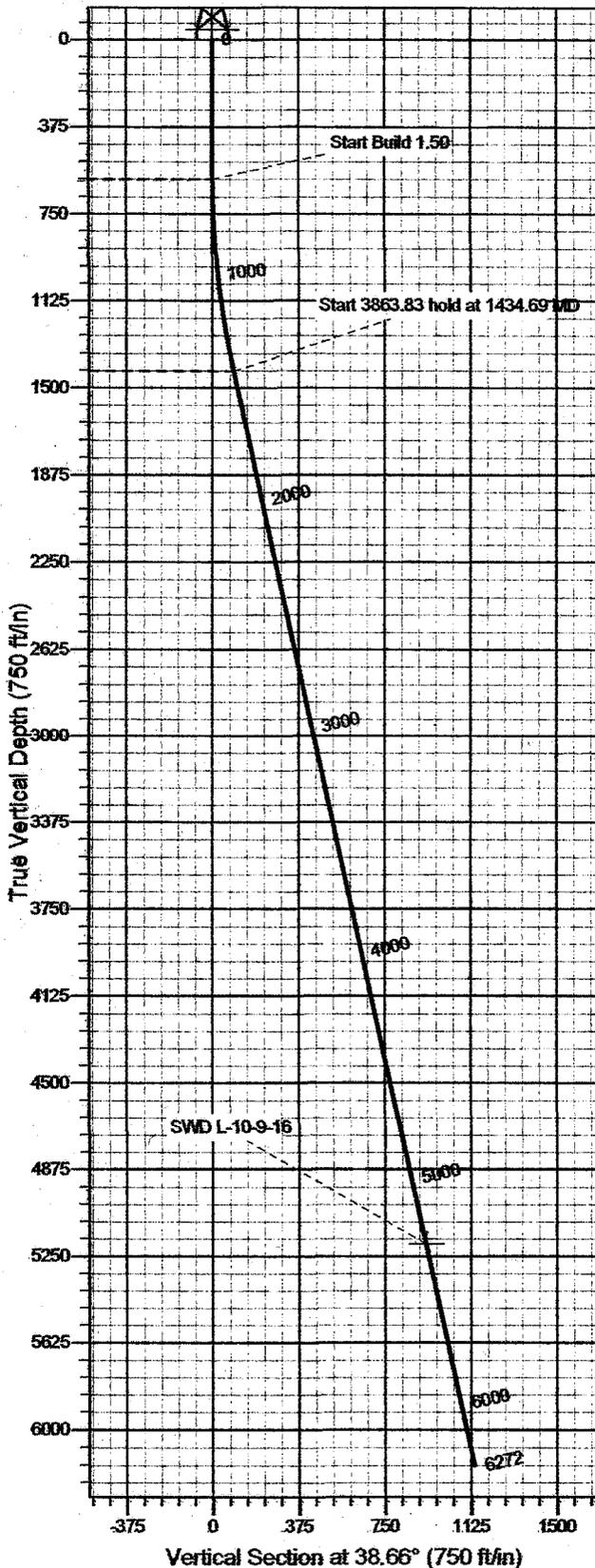
WELL DETAILS: South Wells Draw L-10-9-16

GL 5651' & RBK 12' @ 5663.00ft (NDSI 2) 5651.00 Slot  
+N/-S +E/-W Northing Easting Latitude Longitude  
0.00 0.00 7187644.32 2031507.76 40° 2' 36.670 N 110° 6' 10.790 W



Azimuths to True North  
Magnetic North: 11.81°

Magnetic Field  
Strength: 52664.2nT  
Dip Angle: 65.89°  
Date: 2007-08-10  
Model: IGRF2005-10



FORMATION TOP DETAILS

Plan: Plan #1 (South Wells Draw L-10-9-16/OH)

Created By: Rex Hall Date: 2007-08-10

PROJECT DETAILS: Duchesne County, UT

Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: Utah Central Zone

System Datum: Mean Sea Level  
Local North: True

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	
3	1434.69	12.52	38.66	1428.06	70.93	56.74	1.50	38.66	90.84	
4	5298.51	12.52	38.66	5200.00	725.00	580.00	0.00	0.00	928.46	SWD L-10-9-16
5	56271.65	12.52	38.66	6150.00	889.74	711.79	0.00	0.00	1139.42	

# **Newfield Exploration Co.**

**Duchesne County, UT**

**South Wells Draw L-10-9-16**

**South Wells Draw L-10-9-16**

**OH**

**Plan: Plan #1**

## **Standard Planning Report**

**10 August, 2007**

# Scientific Drilling

## Planning Report

**Database:** MultiUserEDM  
**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT  
**Site:** South Wells Draw L-10-9-16  
**Well:** South Wells Draw L-10-9-16  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well South Wells Draw L-10-9-16  
**TVD Reference:** GL 5651' & RBK 12' @ 5663.00ft (NDS1 2)  
**MD Reference:** GL 5651' & RBK 12' @ 5663.00ft (NDS1 2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

<b>Project</b>	Duchesne County, UT		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Utah Central Zone		

<b>Site</b>	South Wells Draw L-10-9-16, Sec 10 T9S R16E				
<b>Site Position:</b>		<b>Northing:</b>	7,187,644.32 ft	<b>Latitude:</b>	40° 2' 36.670 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,031,507.76 ft	<b>Longitude:</b>	110° 6' 10.790 W
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	in	<b>Grid Convergence:</b>	0.89 °

<b>Well</b>	South Wells Draw L-10-9-16, 1975' FSL & 1960 FEL					
<b>Well Position</b>	<b>+N-S</b>	0.00 ft	<b>Northing:</b>	7,187,644.32 ft	<b>Latitude:</b>	40° 2' 36.670 N
	<b>+E-W</b>	0.00 ft	<b>Easting:</b>	2,031,507.76 ft	<b>Longitude:</b>	110° 6' 10.790 W
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	5,651.00 ft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2005-10	2007-08-10	11.81	65.89	52,664

<b>Design</b>	Plan #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N-S (ft)</b>	<b>+E-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	38.66

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,434.69	12.52	38.66	1,428.06	70.93	56.74	1.50	1.50	0.00	38.66	
5,298.51	12.52	38.66	5,200.00	725.00	580.00	0.00	0.00	0.00	0.00	SWD L-10-9-16
6,271.65	12.52	38.66	6,150.00	889.74	711.79	0.00	0.00	0.00	0.00	

# Scientific Drilling

## Planning Report

**Database:** MultiUserEDM  
**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT  
**Site:** South Wells Draw L-10-9-16  
**Well:** South Wells Draw L-10-9-16  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well South Wells Draw L-10-9-16  
**TVD Reference:** GL 5651' & RBK 12' @ 5663.00ft (NDS1 2)  
**MD Reference:** GL 5651' & RBK 12' @ 5663.00ft (NDS1 2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

### Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Start Build 1.50</b>									
700.00	1.50	38.66	699.99	1.02	0.82	1.31	1.50	1.50	0.00
800.00	3.00	38.66	799.91	4.09	3.27	5.23	1.50	1.50	0.00
900.00	4.50	38.66	899.69	9.19	7.36	11.77	1.50	1.50	0.00
1,000.00	6.00	38.66	999.27	16.34	13.07	20.92	1.50	1.50	0.00
1,100.00	7.50	38.66	1,098.57	25.52	20.41	32.68	1.50	1.50	0.00
1,200.00	9.00	38.66	1,197.54	36.72	29.38	47.03	1.50	1.50	0.00
1,300.00	10.50	38.66	1,296.09	49.95	39.96	63.96	1.50	1.50	0.00
1,400.00	12.00	38.66	1,394.16	65.18	52.14	83.47	1.50	1.50	0.00
1,434.69	12.52	38.66	1,428.06	70.93	56.74	90.84	1.50	1.50	0.00
<b>Start 3863.83 hold at 1434.69 MD</b>									
1,500.00	12.52	38.66	1,491.82	81.99	65.59	104.99	0.00	0.00	0.00
1,600.00	12.52	38.66	1,589.44	98.92	79.13	126.67	0.00	0.00	0.00
1,700.00	12.52	38.66	1,687.06	115.84	92.67	148.35	0.00	0.00	0.00
1,800.00	12.52	38.66	1,784.69	132.77	106.22	170.03	0.00	0.00	0.00
1,900.00	12.52	38.66	1,882.31	149.70	119.76	191.71	0.00	0.00	0.00
2,000.00	12.52	38.66	1,979.93	166.63	133.30	213.39	0.00	0.00	0.00
2,100.00	12.52	38.66	2,077.55	183.56	146.84	235.07	0.00	0.00	0.00
2,200.00	12.52	38.66	2,175.17	200.48	160.39	256.74	0.00	0.00	0.00
2,300.00	12.52	38.66	2,272.80	217.41	173.93	278.42	0.00	0.00	0.00
2,400.00	12.52	38.66	2,370.42	234.34	187.47	300.10	0.00	0.00	0.00
2,500.00	12.52	38.66	2,468.04	251.27	201.01	321.78	0.00	0.00	0.00
2,600.00	12.52	38.66	2,565.66	268.20	214.56	343.46	0.00	0.00	0.00
2,700.00	12.52	38.66	2,663.28	285.12	228.10	365.14	0.00	0.00	0.00
2,800.00	12.52	38.66	2,760.90	302.05	241.64	386.82	0.00	0.00	0.00
2,900.00	12.52	38.66	2,858.53	318.98	255.18	408.49	0.00	0.00	0.00
3,000.00	12.52	38.66	2,956.15	335.91	268.73	430.17	0.00	0.00	0.00
3,100.00	12.52	38.66	3,053.77	352.84	282.27	451.85	0.00	0.00	0.00
3,200.00	12.52	38.66	3,151.39	369.77	295.81	473.53	0.00	0.00	0.00
3,300.00	12.52	38.66	3,249.01	386.69	309.35	495.21	0.00	0.00	0.00
3,400.00	12.52	38.66	3,346.64	403.62	322.90	516.89	0.00	0.00	0.00
3,500.00	12.52	38.66	3,444.26	420.55	336.44	538.57	0.00	0.00	0.00
3,600.00	12.52	38.66	3,541.88	437.48	349.98	560.24	0.00	0.00	0.00
3,700.00	12.52	38.66	3,639.50	454.41	363.52	581.92	0.00	0.00	0.00
3,800.00	12.52	38.66	3,737.12	471.33	377.07	603.60	0.00	0.00	0.00
3,900.00	12.52	38.66	3,834.75	488.26	390.61	625.28	0.00	0.00	0.00
4,000.00	12.52	38.66	3,932.37	505.19	404.15	646.96	0.00	0.00	0.00
4,100.00	12.52	38.66	4,029.99	522.12	417.69	668.64	0.00	0.00	0.00
4,200.00	12.52	38.66	4,127.61	539.05	431.23	690.32	0.00	0.00	0.00
4,300.00	12.52	38.66	4,225.23	555.97	444.78	711.99	0.00	0.00	0.00
4,400.00	12.52	38.66	4,322.86	572.90	458.32	733.67	0.00	0.00	0.00
4,500.00	12.52	38.66	4,420.48	589.83	471.86	755.35	0.00	0.00	0.00
4,600.00	12.52	38.66	4,518.10	606.76	485.40	777.03	0.00	0.00	0.00
4,700.00	12.52	38.66	4,615.72	623.69	498.95	798.71	0.00	0.00	0.00
4,800.00	12.52	38.66	4,713.34	640.62	512.49	820.39	0.00	0.00	0.00
4,900.00	12.52	38.66	4,810.97	657.54	526.03	842.06	0.00	0.00	0.00

# Scientific Drilling

## Planning Report

**Database:** MultiUserEDM  
**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT  
**Site:** South Wells Draw L-10-9-16  
**Well:** South Wells Draw L-10-9-16  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well South Wells Draw L-10-9-16  
**TVD Reference:** GL 5651' & RBK 12' @ 5663.00ft (NDSI 2)  
**MD Reference:** GL 5651' & RBK 12' @ 5663.00ft (NDSI 2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

### Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,000.00	12.52	38.66	4,908.59	674.47	539.57	863.74	0.00	0.00	0.00
5,100.00	12.52	38.66	5,006.21	691.40	553.12	885.42	0.00	0.00	0.00
5,200.00	12.52	38.66	5,103.83	708.33	566.66	907.10	0.00	0.00	0.00
5,298.51	12.52	38.66	5,200.00	725.00	580.00	928.46	0.00	0.00	0.00
<b>SWD L-10-9-16</b>									
5,300.00	12.52	38.66	5,201.45	725.26	580.20	928.78	0.00	0.00	0.00
5,400.00	12.52	38.66	5,299.08	742.18	593.74	950.46	0.00	0.00	0.00
5,500.00	12.52	38.66	5,396.70	759.11	607.29	972.14	0.00	0.00	0.00
5,600.00	12.52	38.66	5,494.32	776.04	620.83	993.81	0.00	0.00	0.00
5,700.00	12.52	38.66	5,591.94	792.97	634.37	1,015.49	0.00	0.00	0.00
5,800.00	12.52	38.66	5,689.56	809.90	647.91	1,037.17	0.00	0.00	0.00
5,900.00	12.52	38.66	5,787.18	826.82	661.46	1,058.85	0.00	0.00	0.00
6,000.00	12.52	38.66	5,884.81	843.75	675.00	1,080.53	0.00	0.00	0.00
6,100.00	12.52	38.66	5,982.43	860.68	688.54	1,102.21	0.00	0.00	0.00
6,200.00	12.52	38.66	6,080.05	877.61	702.08	1,123.89	0.00	0.00	0.00
6,271.65	12.52	38.66	6,150.00	889.74	711.79	1,139.42	0.00	0.00	0.00

### Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N-S (ft)	+E-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
SWD L-10-9-16	0.00	0.00	5,200.00	725.00	580.00	7,188,378.29	2,032,076.37	40° 2' 43.835 N	110° 6' 3.332 W
- hit/miss target									
- Shape									
- plan hits target									
- Circle (radius 75.00)									

### Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Comment
600.00	600.00	0.00	0.00	Start Build 1.50
1,434.69	1,428.06	70.93	56.74	Start 3863.83 hold at 1434.69 MD

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 08/24/2007

API NO. ASSIGNED: 43-013-33765

WELL NAME: S WELLS DRAW FED L-10-9-16  
 OPERATOR: NEWFIELD PRODUCTION ( N2695 )  
 CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

NWSE 10 090S 160E  
 SURFACE: 1975 FSL 1960 FEL  
 BOTTOM: 2639 FSL 1319 FEL  
 COUNTY: DUCHESNE  
 LATITUDE: 40.04348 LONGITUDE: -110.1024  
 UTM SURF EASTINGS: 576574 NORTHINGS: 4432759  
 FIELD NAME: MONUMENT BUTTE ( 105 )

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

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: UTU-72107  
 SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

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

LOCATION AND SITING:

- R649-2-3.
- Unit: SOUTH WELLS DRAW (GR)
- R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit  
Board Cause No: 231-04  
Eff Date: 7-16-2001  
Siting: Suspend Plan & Siting
- R649-3-11. Directional Drill

COMMENTS: Sop, Separate file

STIPULATIONS: 1. Federal Approval

S WELLS DRAW  
FED 15-3-9-16 ●

T9S R16E

CASTLE PEAK 1-10  
◇  
CASTLE PEAK  
FED 1-10X

S WELLS DRAW  
2-10-9-16 ●

FEDERAL  
41-10Y ◇

**MONUMENT BUTTE FIELD**  
**SOUTH WELLS DRAW UNIT**  
CAUSE: 231-04 / 7-16-2001

S WELLS DRAW  
5-10-9-16 △

S WELLS DRAW  
6-10-9-16 ●

S WELLS DRAW  
7-10-9-16 △

CASTLE  
PEAK U 7  
◇  
CASTLE  
PEAK 7 R

S WELLS DRAW  
12-10-9-16 →

S WELLS DRAW  
11-10-9-16 △

BHL  
L-10-9-16

MON FED  
43-10-9-16  
△

MON FED  
33-10-9-16  
S WELLS DRAW  
FED L-10-9-16

S WELLS DRAW  
13-10-9-16 →

CASTLE PK  
FED 24-10A

MON FED  
34-10J △

CASTLE PK  
FED 44-10

MON FED  
14-11J △

CASTLE PK  
FED 11-15  
◇

MONUMENT  
FED 21-15J

CASTLE PK  
FED 31-15

MON △  
FED 41-15

OPERATOR: NEWFIELD PROD CO (N2695)

SEC: 4,8 T.9S R. 16E

FIELD: MONUMENT BUTTE (105)

COUNTY: DUCHESNE

CAUSE: 231-04 / 7-16-2001

- 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: 31-AUGUST-2007



August 23, 2007

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

RE: Directional Drilling  
**South Wells Draw Federal L-10-9-16**  
South Wells Draw Unit  
UTU-79641X  
Surface Hole: T9S R16E, Section 10: NW/4SE/4  
1975' FSL 1960' FEL  
Bottom Hole: T9S R16E, Section 5: NW/4SE/4  
2639' FSL 1319' FEL  
Duchesne County, Utah

Dear Ms. Mason;

Pursuant to the filing of Newfield Production Company's ("NPC") Application for Permit to Drill dated July 31, 2007, a copy of which is attached, for the above referenced well, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

The surface hole location and bottom hole location of this well are both within the boundaries of the South Wells Draw Federal Unit UTU-79641X. Newfield certifies that it is the South Wells Draw Unit Operator and all lands within 460 feet of the entire directional well bore are within the South Wells Draw Unit.

NPC is permitting this well as a directional well in order to minimize surface disturbance. By directionally drilling from the referenced surface location, NPC will be able to utilize the existing roads and pipelines in this area.

NPC hereby requests our application for permit to drill be granted pursuant to R649-3-11. If you have any questions or require further information, please do not hesitate to contact the undersigned at 303-382-4444 or by email at [reveland@newfield.com](mailto:reveland@newfield.com). Your consideration of this matter is greatly appreciated.

Sincerely,  
NEWFIELD PRODUCTION COMPANY

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

Roxann Eveland  
Land Associate

RECEIVED  
AUG 27 2007

DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

5. Lease Serial No.  
**UTU-72107**

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

7. If Unit or CA Agreement, Name and No.  
**South Wells Draw Unit**

8. Lease Name and Well No.  
**South Wells Draw Federal L-10-9-16**

9. API Well No.

10. Field and Pool, or Exploratory  
**Monument Butte**

11. Sec., T., R., M., or Blk. and Survey or Area  
**Sec. 10, T9S R16E**

12. County or Parish  
**Duchesne**

13. State  
**UT**

1a. Type of Work:  DRILL  REENTER

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

2. Name of Operator  
**Newfield Production Company**

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

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

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)  
At surface **NW/SE 1975' FSL 1960' FEL**  
At proposed prod. zone **NW/SE 2639' FSL 1319' FEL**

14. Distance in miles and direction from nearest town or post office\*  
**Approximatley 19.9 miles southwest of Myton, Utah**

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) **Approx. 1319' //lse, 1319' //unit**

16. No. of Acres in lease  
**400.00**

17. Spacing Unit dedicated to this well  
**20 Acres**

18. Distance from proposed location\* to nearest well, drilling, completed, applied for, on this lease, ft. **Approx. 1320'**

19. Proposed Depth  
**6150'**

20. BLM/BIA Bond No. on file  
**UTB000192**

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
**5651' GL**

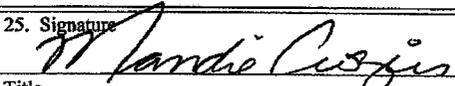
22. Approximate date work will start\*  
**4th Quarter 2007**

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

24. Attachments

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

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

25. Signature  Name (Printed/Typed) **Mandie Crozier** Date **8/17/07**

Title **Regulatory Specialist**

Approved by (Signature) \_\_\_\_\_ Name (Printed/Typed) \_\_\_\_\_ Date \_\_\_\_\_

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

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

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

\*(Instructions on reverse)

RECEIVED  
AUG 27 2007  
DIV. OF OIL, GAS & MINING

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

September 4, 2007

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2007 Plan of Development South Wells Draw Unit,  
Duchesne County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2007 within the South Wells Draw Unit, Duchesne County, Utah.

API#	WELL NAME	LOCATION
------	-----------	----------

(Proposed PZ Green River)

43-013-33763	S Wells Draw Fed R-4-9-16	Sec 04 T09S R16E 2053 FSL 2051 FEL BHL Sec 04 T09S R16E 1325 FSL 2650 FEL
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43-013-33764	S Wells Draw Fed B-8-9-16	Sec 08 T09S R16E 0527 FNL 2066 FEL BHL Sec 08 T09S R16E 0000 FNL 1322 FEL
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43-013-33765	S Wells Draw Fed L-10-9-16	Sec 10 T09S R16E 1975 FSL 1960 FEL BHL Sec 10 T09S R16E 2639 FSL 1319 FEL
--------------	----------------------------	--

We have no objections to permitting the wells so long as the unit operator receives an exception to the locating and siting requirements of the State of Utah (R649-3-2).

/s/ Michael L. Coulthard

bcc: File - South Wells Draw Unit  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron

MCoulthard:mc:9-4-07



JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil Gas and Mining

JOHN R. BAZA  
Division Director

September 5, 2007

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

Re: South Wells Draw Federal L-10-9-16 Well, Surface Location 1975' FSL, 1960' FEL, NW SE, Sec. 10, T. 9 South, R. 16 East, Bottom Location 2639' FSL, 1319' FEL, NW SE, Sec. 10, 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 43-013-33765.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

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



Operator: Newfield Production Company  
Well Name & Number South Wells Draw Federal L-10-9-16  
API Number: 43-013-33765  
Lease: UTU-72107

Surface Location: NW SE      Sec. 10      T. 9 South      R. 16 East  
Bottom Location: NW SE      Sec. 10      T. 9 South      R. 16 East

### Conditions of Approval

#### 1. General

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

#### 2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284

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

- Contact Dustin Doucet at (801) 538-5281    (801) 733-0983 home

#### 3. Reporting Requirements

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

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.
5. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

RECEIVED  
VERNAL FIELD OFFICE

2007 AUG 23 AM 11:31

Form 3160-3  
(September 2001)

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-72107
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator Newfield Production Company		7. If Unit or CA Agreement, Name and No. South Wells Draw Unit
3a. Address Route #3 Box 3630, Myton UT 84052		8. Lease Name and Well No. South Wells Draw Federal L-10-9-16
3b. Phone No. (include area code) (435) 646-3721		9. API Well No. 43-013-33765
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NW/SE 1975' FSL 1960' FEL At proposed prod. zone NW/SE 2639' FSL 1319' FEL		10. Field and Pool, or Exploratory Monument Butte
14. Distance in miles and direction from nearest town or post office* Approximatley 19.9 miles southwest of Myton, Utah		11. Sec., T., R., M., or Blk. and Survey or Area Sec. 10, T9S R16E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 1319' f/lease, 1319' f/unit	16. No. of Acres in lease 400.00	12. County or Parish Duchesne
17. Spacing Unit dedicated to this well 20 Acres	18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1320'	13. State UT
19. Proposed Depth 6150'	20. BLM/BIA Bond No. on file UTB000192	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5651' GL	22. Approximate date work will start* 4th Quarter 2007	23. Estimated duration Approximately seven (7) days from spud to rig release.

24. Attachments

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

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

25. Signature <i>Mandie Crozier</i>	Name (Printed/Typed) Mandie Crozier	Date 8/17/07
Title Regulatory Specialist		

Approved by (Signature) <i>Jerry Kewela</i>	Name (Printed/Typed) JERRY KEWELA	Date 8-27-2007
Title Assistant Field Manager Lands & Mineral Resources		
<b>VERNAL FIELD OFFICE</b>		

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

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

\*(Instructions on reverse)

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED  
RECEIVED

DEC 05 2007

DIV. OF OIL, GAS & MINING

NO 7/20/07  
07PP2502A



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

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



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

**Company:** Newfield Production Company  
**Well No:** S. Wells Draw Federal L-10-9-16  
**API No:** 43-013-33765

**Location:** NWSE, Sec 10, T9S, R16E  
**Lease No:** UTU-72107  
**Agreement:** South Wells Draw Unit

<b>Title</b>	<b>Name</b>	<b>Office Phone Number</b>	<b>Cell Phone Number</b>
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	James Ashley	(435) 781-4470	(435) 828-7874
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
NRS/Enviro Scientist:	Paul Buhler	(435) 781-4475	(435) 828-4029
NRS/Enviro Scientist:	Karl Wright	(435) 781-4484	(435) 828-7381
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	
NRS/Enviro Scientist:		(435) 781-4476	
NRS/Enviro Scientist:	Chuck MacDonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Jannice Cutler	(435) 781-3400	(435) 828-3544
NRS/Enviro Scientist:	Michael Cutler	(435) 781-3401	(435) 828-3546
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Darren Williams	(435) 781-4447	
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545

Fax: (435) 781-3420

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

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

**NOTIFICATION REQUIREMENTS**

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

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

**General Surface Stipulations:**

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

**Specific Surface Stipulations:**

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

**CONDITIONS OF APPROVAL:**

- All traffic related to this action will be restricted to approved routes. Cross-country vehicle travel will not be allowed.
- No vehicle travel, construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support vehicles and/or construction equipment. If such equipment creates ruts in excess of three inches deep, the soil shall be deemed too wet to adequately support construction equipment.
- The access road will be crowned and ditched. Flat-bladed roads are not allowed. All roads will have an 18', crowned (2 to 3% minimum), running surface. All roads will have drainage ditches along both sides of road.
- If additional erosion occurs during the life of this project, more culverts, low water crossings, berms, wing ditches or etc. will be needed to control the erosion.
- Low-water crossings will be appropriately constructed to avoid sedimentation of drainage ways and other water resources.
- Pipelines will be buried at all major drainage crossings.
- Prevent fill and stock piles from entering drainages.
- The reserve pit will be lined with a 16 ml or greater liner and felt prior to spudding.

- The liner is to be cut 5 feet below ground surface or at the level of the cuttings, whichever is deeper, and the excess liner material is to be disposed of at an authorized disposal site.
- When the reserve pit contains fluids or toxic substances, the operator must ensure animals do not ingest or become entrapped in pit fluids.
- Any hydrocarbons in the reserve pit will be removed **immediately** upon well completion; in accordance with 43 CFR 3162.7-1. Pits must be free of oil and other liquid and solid wastes prior to filling.
- Monument Butte SOP, Section 9.2 - Pit Fencing Minimum Standards - will be strictly adhered to. To include 9.2.2.3 - Corner posts will be cemented and/or braced in such a manner as to keep fence tight at all times.
- If Uinta Basin hookless cactus or other special status plants are found, construction will cease and the AO will be notified to determine the appropriate mitigation.

- Reclamation:

Interim seed mix:

Bottlebrush Squirreltail grass	<i>Elymus elymoides</i>	5 lbs/acre
Hy-crest Crested Wheatgrass	<i>Agropyron cristatum</i>	5 lbs/acre
Shadscale saltbush	<i>Atriplex confertifolia</i>	0.5 lbs/acre
Gardner's saltbush	<i>Atriplex gardneri</i>	0.5 lbs/acre
Forage Kochia	<i>Kochia prostrata</i>	0.25 lbs/acre

Final reclamation seed mix:

Bottlebrush Squirreltail grass	<i>Elymus elymoides</i>	5 lbs/acre
Hy-crest Crested Wheatgrass	<i>Agropyron cristatum</i>	5 lbs/acre
Shadscale saltbush	<i>Atriplex confertifolia</i>	0.5 lbs/acre
Gardner's saltbush	<i>Atriplex gardneri</i>	0.5 lbs/acre
Forage Kochia	<i>Kochia prostrata</i>	0.25 lbs/acre

- All pounds are in pure live seed.
  - All seed and mulch will be certified weed free.
  - Drill seeding is the preferred method.
  - Rates are set for drill seeding; double the rate if broadcasting.
  - If broadcasting seed: The seed will be walked into the soil with a dozer immediately after the seeding is completed, or covered by soil using a drag chain.
  - Reseeding may be required if initial seeding is not successful.
- Noxious and/or invasive weeds will be controlled along access roads, pipelines, well sites, and all other applicable facilities. Any noxious and/or invasive weeds outbreak, directly attributed to the activities of the Operator, will be the responsibility of the Operator to control. On BLM administered land, a Pesticide Use Proposal (PUP) must be submitted and approved prior to the application of herbicides, pesticides, or other possibly hazardous chemicals.
- The topsoil from the reserve pit shall be stripped and piled separately near the reserve pit. When the reserve pit is closed, it shall be recontoured and the topsoil respread, and the area shall be seeded in the same manner as the location topsoil.
- Once the location is plugged and abandoned, it shall be recontoured to natural topology, topsoil shall be respread, and the entire location shall be seeded with a seed mix recommended by the

AO (see above). Seed application will follow all guidelines in the interim seed mix bullet statement above. If reclamation seeding should take place using the broadcast method, the seed at a minimum will be walked into the soil with a dozer immediately after the seeding is completed.

- The authorized officer may prohibit surface disturbing activities during severe winter conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
- The authorized officer may prohibit surface disturbing activities during wet or muddy conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
- All well facilities not regulated by OSHA will be painted Carlsbad Canyon.
- All boulders with a length or diameter greater than 3 feet, that are found showing at the surface, will be stockpiled for use during final reclamation.
- Notify the Authorized Officer 48 hours prior to surface disturbing activities.

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

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

- None

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

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

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.

- Chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

**OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be

filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

# DIVISION OF OIL, GAS AND MINING

## **SPUDDING INFORMATION**

Name of Company: NEWFIELD PRODUCTION COMPANY

Well Name: S WELLS DRAW FED L-10-9-16

Api No: 43-013-33765 Lease Type: FEDERAL

Section 10 Township 09S Range 16E County DUCHESNE

Drilling Contractor ROSS DRILLING RIG # 21

## **SPUDDED:**

Date 08/06/08

Time 8:30 AM

How DRY

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

Reported by SEAN STEVENS

Telephone # (435) 823-1162

Date 08/06/08 Signed CHD

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION				SPUD DATE	EFFECTIVE DATE	
					QQ	SC	TP	RG			COUNTY
B	99999	12277 ✓	4301333883	PLEASANT VALLEY FEDERAL G-8-9-17	SWNW	8	9S	17E	DUCHESNE	7/31/2008	8/14/08
WELL 1 COMMENTS: <i>GRRU</i> <i>BHL = SWNW</i>											
A	99999	17021	4304739659	UTE TRIBAL 12-5-6-2E <i>12-6-5-2E</i>	NWSW	5	6S	2E	UINTAH	8/1/2008	8/14/08
WELL 2 COMMENTS: <i>GRRU</i> <i>6 5S</i>											
B	99999	13269	4301333779	SOUTH WELLS DRAW FEDERAL N-10-9-16	NWSW	10	9S	16E	DUCHESNE	8/2/2008	8/14/08
WELL 3 COMMENTS: <i>GRRU</i> <i>BHL = NWSW</i>											
B	99999	12277 ✓	4301333896	PLEASANT VALLEY FEDERAL M-9-9-17	SWNE	9	9S	17E	DUCHESNE	8/4/2008	8/14/08
WELL 4 COMMENTS: <i>GRRU</i> <i>BHL = SENW.</i>											
A	99999	17022	4304739949	UTE TRIBAL 4-1-5-1E	NWNW	1	5S	1E	DUCHESNE	8/4/2008	8/14/08
WELL 5 COMMENTS: <i>GRRU</i> <i>1</i> <i>UINTAH</i>											
B	99999	13269	4301333765	SOUTH WELLS DRAW FEDERAL L-10-9-16	NWSE	10	9S	16E	DUCHESNE	8/6/2008	8/14/08
WELL 6 COMMENTS: <i>GRRU</i> <i>BHL = NWSE</i>											

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

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

*Jentri park*  
 Signature  
 Production Clerk  
 Date 08/07/08

DIV. OF OIL, GAS & MINING

AUG 07 2008

RECEIVED

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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

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

1. Type of Well  
 Oil Well    Gas Well    Other

2. Name of Operator  
 NEWFIELD PRODUCTION COMPANY

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

3b. Phone    (include are code)  
                   435.646.3721

4. Location of Well    (Footage, Sec., T., R., M., or Survey Description)  
 1975 FSL 1960 FEL  
 Section 10 T9S R16E

5. Lease Serial No.  
 USA UTU-72107

6. If Indian, Allottee or Tribe Name.

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

8. Well Name and No.  
 SOUTH WELLS DRAW FEDERAL L-10-9-16

9. API Well No.  
 4301333765

10. Field and Pool, or Exploratory Area  
 MONUMENT BUTTE

11. County or Parish, State  
 DUCHESNE, UT

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

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

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

On 8/6/08 MIRU Ross Rig # 21. Spud well @ 8:30 AM. Drill 320' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24 # csngn. Set @ 325.98 KB On 12-27-04 cement with 160 sks of class "G" w/ 2% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cfl sk yeild. Returned 6 bbls cement to pit. WOC.

I hereby certify that the foregoing is true and correct (Printed/ Typed) Alvin Nielsen	Title Drilling Foreman
Signature <i>Alvin Nielsen</i>	Date 08/08/2008

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

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

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

(Instructions on page 2)

**RECEIVED**  
**AUG 13 2008**

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8 CASING SET AT 325.98

LAST CASING 8 5/8" SET AT 325.98'  
 DATUM 12' KB  
 DATUM TO CUT OFF CASING \_\_\_\_\_  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER 320' LOGGER \_\_\_\_\_  
 HOLE SIZE 12 1/4

OPERATOR Newfield Production Company  
 WELL South Wells Draw Fed L-10-9-16  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # Ross Rig # 21

LOG OF CASING STRING:							
PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		Shoe Joint 44.77'					
		WHI - 92 csg head			8rd	A	0.95
7	8 5/8"	Maverick ST&C csg	24#	J-55	8rd	A	314.13
		<b>GUIDE</b> shoe			8rd	A	0.9
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			315.98
TOTAL LENGTH OF STRING		315.98	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>325.98</b>
TOTAL		314.13	7	} COMPARE			
TOTAL CSG. DEL. (W/O THRDS)		314.13	7				
TIMING		1ST STAGE					
BEGIN RUN CSG.	Spud	8/6/2008	9:00 AM	GOOD CIRC THRU JOB <u>YES</u>			
CSG. IN HOLE		8/6/2008	12:30 PM	Bbls CMT CIRC TO SURFACE <u>6</u>			
BEGIN CIRC		8/8/2008	11:56 AM	RECIPROCATED PIPE FOR <u>N/A</u>			
BEGIN PUMP CMT		8/8/2008	12:06 PM				
BEGIN DSPL. CMT		8/8/2008	12:17 PM	BUMPED PLUG TO <u>400</u> PSI			
PLUG DOWN		8/8/2008	12:20 PM				
CEMENT USED		CEMENT COMPANY- <b>B. J.</b>					
STAGE	# SX	CEMENT TYPE & ADDITIVES					
1	160	Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield					
CENTRALIZER & SCRATCHER PLACEMENT			SHOW MAKE & SPACING				
Centralizers - Middle first, top second & third for 3							

COMPANY REPRESENTATIVE Alvin Nielsen DATE 8/8/2008

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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

5. Lease Serial No. **ufu 72107**

South Wells Draw Federal L-10-9-16

6. If Indian, Allottee or Tribe Name.

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

7. If Unit or CA/Agreement, Name and/or  
S WELLS DRAW UNIT

1. Type of Well  
 Oil Well  Gas Well  Other

8. Well Name and No.  
SOUTH WELLS DRAW FEDERAL L-10-9-16

2. Name of Operator  
NEWFIELD PRODUCTION COMPANY

9. API Well No.  
4301333765

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

3b. Phone (include are code)  
435.646.3721

10. Field and Pool, or Exploratory Area  
MONUMENT BUTTE

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

Section 10 T9S R16E

11. County or Parish, State

DUCHESNE, UT

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

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

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

On 8/14/08 MIRU NDSI Rig # 2. 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 @ 281'. Drill out cement & shoe. Drill a 7.875 hole with fresh water to a depth of 6,245' & a TVD of 6132'. 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, 146 jt's of 5.5 J-55, 15.5# csgn. Set @ 6231.97' / KB. Cement with 325 sks cement mixed @ 11.0 ppg & 3.49 yld. Then 450 sks cement mixed @ 14.4 ppg & 1.24 yld. With 67 bbls cement returned to pit. Nipple down Bop's. Drop slips @98,000 #'s tension. Release rig 12:30 AM 8/22/08.

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

Alvin Nielsen

Signature



Title

Drilling Foreman

Date

08/22/2008

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

Approved by

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

Title

Office

Date

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

(Instructions on page 2)

**RECEIVED**

AUG 25 2008

DIV. OF OIL, GAS & MINING

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

\_\_\_\_\_ **5 1/2"** CASING SET AT \_\_\_\_\_ **6231.97**

Flt cflr @ 6190.19

LAST CASING 8 5/8" SET # 325.98

OPERATOR Newfield Production Company

DATUM 12' KB

WELL SWD Fed L-10-9-16

DATUM TO CUT OFF CASING 12'

FIELD/PROSPECT Monument Butte

DATUM TO BRADENHEAD FLANGE \_\_\_\_\_

CONTRACTOR & RIG # NDSI # 2

TD DRILLER 6245' Loggers 6235'

TVD= 6132'

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> 3984 (6.48)					
<b>146</b>	<b>5 1/2"</b>	ETC LT & C casing	<b>15.5#</b>	<b>J-55</b>	<b>8rd</b>	<b>A</b>	6176.19
		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>	42.53
		<b>GUIDE</b> shoe			<b>8rd</b>	<b>A</b>	0.65
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			6233.97
TOTAL LENGTH OF STRING		6204.34	147	LESS CUT OFF PIECE			14
LESS NON CSG. ITEMS		15.25		PLUS DATUM TO T/CUT OFF CSG			12
PLUS FULL JTS. LEFT OUT		297.53	7	CASING SET DEPTH			<b>6231.97</b>
TOTAL		<b>6486.62</b>	154	} COMPARE			
TOTAL CSG. DEL. (W/O THRDS)		6486.62	154				
TIMING		1ST STAGE	2nd STAGE				
BEGIN RUN CSG.		8/21/2008	11:00 AM	GOOD CIRC THRU JOB			YES
CSG. IN HOLE		8/21/2008	5:00 PM	Bbls CMT CIRC TO SURFACE			67
BEGIN CIRC		8/21/2008	5:00 PM	RECIPROCATED PIPE FOR			THRUSTROKE NA
BEGIN PUMP CMT		8/21/2008	6:16 PM	DID BACK PRES. VALVE HOLD ?			Yes
BEGIN DSPL. CMT		8/21/2008	7:18 PM	BUMPED PLUG TO			2260 PSI
PLUG DOWN		<b>8/21/2008</b>	<b>7:40 PM</b>				

CEMENT USED		CEMENT COMPANY- <b>B. J.</b>
STAGE	# SX	CEMENT TYPE & ADDITIVES
<b>1</b>	<b>325</b>	Premlite 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>450</b>	50/50 poz W/ 2% Gel + 3% KCL, .5%EC1, 1/4# sk C.F. 2% gel. 3% SM mixed @ 14.4 ppg W/ 1.24 YLD

CENTRALIZER & SCRATCHER PLACEMENT SHOW MAKE & SPACING

Centralizers - Middle first, top second & third. Then every third collar for a total of 20.

COMPANY REPRESENTATIVE Alvin Nielsen DATE 8/21/2008

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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
FEE

**SUNDRY NOTICES AND REPORTS ON WELLS**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

7. UNIT or CA AGREEMENT NAME:  
S WELLS DRAW UNIT

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER

8. WELL NAME and NUMBER: L-109-16  
SOUTH WELLS DRAW FEDERAL

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:  
4301333765

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

10. FIELD AND POOL, OR WILDCAT:  
MONUMENT BUTTE

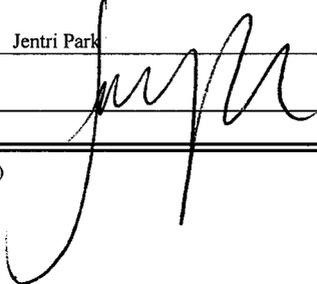
4. LOCATION OF WELL:  
FOOTAGES AT SURFACE:  
OTR/OTR SECTION. TOWNSHIP. RANGE. MERIDIAN: , 10, T9S, R16E

COUNTY: DUCHESNE  
STATE: UT

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: <u>09/24/2008</u>	<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 09-12-08, attached is a daily completion status report.

NAME (PLEASE PRINT) Jentri Park TITLE Production Clerk  
SIGNATURE  DATE 09/24/2008

(This space for State use only)

**RECEIVED**  
**OCT 02 2008**  
DIV. OF OIL, GAS & MINING

**Daily Activity Report**

Format For Sundry

**S WELLS DRW L-10-9-16****7/1/2008 To 11/30/2008****8/30/2008 Day: 1****Completion**

Rigless on 8/29/2008 - 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 @ 6129' cement top @ 34'. Perforate stage #1. A1 sds @ 5286- 94' w/ 3 1/8" slick guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 32 shots. 146 BWTR. SIFN.

**9/9/2008 Day: 2****Completion**

Rigless on 9/8/2008 - Stage #1 A1 sds. RU BJ Services. 1740 psi on well. Frac A1 sds w/ 29,513#'s of 20/40 sand in 402 bbls of Lightning 17 fluid. Broke @ 2954 psi. Treated w/ ave pressure of 2489 psi w/ ave rate of 23.1 BPM. ISIP 2421 psi. Leave pressure on well. 548 BWTR. Stage #2 B2 sds. RU The Perforators, llc WLT, crane & Lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 12' perf gun. Set plug @ 5170'. Perforate B2 sds @ 5124-36' w/ 3-1/8" Slick Guns (.49"EH, 19 gram, 120°) w/ 4 spf for total of 48 shots. RU BJ Services. 2120 psi on well. Frac B2 sds w/ 45,017#'s of 20/40 sand in 445 bbls of Lightning 17 fluid. Broke @ 2825 psi. Treated w/ ave pressure of 2450 psi w/ ave rate of 23.1 BPM. ISIP 2437 psi. Leave pressure on well. 993 BWTR. Stage #3 C sds. RU The Perforators, llc WLT, crane & Lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 8' perf gun. Set plug @ 5040'. Perforate C sds @ 4978-86' w/ 3-1/8" Slick Guns (.49"EH, 19 gram, 120°) w/ 4 spf for total of 32 shots. RU BJ Services. 2047 psi on well. Frac C sds w/ 35,060#'s of 20/40 sand in 433 bbls of Lightning 17 fluid. Broke @ 3424 psi. Treated w/ ave pressure of 2729 psi w/ ave rate of 22.6 BPM. ISIP 2441 psi. Leave pressure on well. 1426 BWTR. Stage #4, D1 sds. RU The Perforators, llc WLT, crane & Lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 10' perf gun. Set plug @ 4850'. Perforate D1 sds @ 4794-4804 w/ 3-1/8" Slick Guns (.49"EH, 19 gram, 120°) w/ 4 spf for total of 40 shots. RU BJ Services. 2062 psi on well. Frac D1 sds w/ 25,061#'s of 20/40 sand in 347 bbls of Lightning 17 fluid. Broke @ 3793 psi. Treated w/ ave pressure of 2586 psi w/ ave rate of 23.1 BPM. ISIP 2360 psi. Leave pressure on well. 1773 BWTR. Stage #5, GB6 sds. RU The Perforators, llc WLT, crane & Lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 12' perf gun. Set plug @ 4400'. Perforate GB6 sds @ 4288-4300' w/ 3-1/8" Slick Guns (.49"EH, 19 gram, 120°) w/ 4 spf for total of 48 shots. RU BJ Services. 2083 psi on well. Frac GB6 sds w/ 40,996#'s of 20/40 sand in 393 bbls of Lightning 17 fluid. Broke @ 4200 psi. Treated w/ ave pressure of 1993 psi w/ ave rate of 22.6 BPM. ISIP 2053 psi. Leave pressure on well. 2166 BWTR. Stage #6, GG2 sds. RU The Perforators, llc WLT, crane & Lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 16' perf gun. Set plug @ 4170'. Perforate GG2 sds @ 4116-30' w/ 3-1/8" Slick Guns (.49"EH, 19 gram, 120°) w/ 4 spf for total of 56 shots. RU BJ Services. 1847 psi on well. Frac GG2 sds w/ 26,166#'s of 20/40 sand in 343 bbls of Lightning 17 fluid. Broke @ 4123 psi. Treated w/ ave pressure of 1950 psi w/ ave rate of 23.1 BPM. ISIP 1825 psi. Open well to pit for immediate flowback @ approx. 3 bpm. Flowed well for 9 hrs. Recovered 1000 bbls. Well was not bringing much fluid for last 2 hrs, alot of gas. SWIFN.

**9/11/2008 Day: 3****Completion**

Western #4 on 9/10/2008 - MIRU Western #4. RU The Perforators. Set Composite kill plug @ 4100'. RD wireline truck. Bleed off well. ND Cameron BOP & 5m frac head. NU 3m production head & Schafer BOP. RIH w/ 4 3/4" chomp bit, bit sub & new 2 7/8" tbg. from pipe rack (tallying & drifting). Tag CBP @ 4100'. RU powerswivel & pump. DU CBP in 10 min. Cont. RIH w/ tbg. Tag CBP @ 4170'. DU CBP in 22 min. Cont. RIH w/ tbg. Tag CBP @ 4400'. DU CBP in 25 min. Cont. RIH w/ tbg. Tag CBP @ 4850'. DU CBP in 17 min. SWIFN.

---

9/12/2008 Day: 4

Completion

Western #4 on 9/11/2008 - Bleed off well. Cont. RIH w/ tbg. Tag CBP @ 5040'. DU CBP in 27 min. Cont. RIH w/ tbg. Tag sand @ 5150'. C/O to CBP @ 5170'. DU CBP in 22 min. Cont. RIH w/ tbg. Tag sand @ 6033'. C/O to PBDT @ 6188'. Circulate well clean. Pull up to 6124'. RIH w/ swab. SFL @ surface. Made 2 runs & well started flowing. Flow well for 4 hrs. Recovered 190 bbls. No show of sand. Ending oil cut @ approx. 15%. RU pump to tbg. Pump 40 bbls water down tbg. RIH w/ tbg. Tag PBDT @ 6188'. Pull up to 5357'. SWIFN.

---

9/13/2008 Day: 5

Completion

Western #4 on 9/12/2008 - Bleed off well. Kill well w/ 190 bbls 10# brine water. Cont. POOH w/ tbg. LD BHA. RIH w/ 2 7/8" notched collar, 2 jts 2 7/8" tbg., PSN, 2 jts 2 7/8" tbg., 5 1/2" TAC, 170 jts 2 7/8" tbg. ND BOP. Set TAC @ 5234' w/ 16,000# tension. NU wellhead. X-over for rods. Flush tbg. w/ 60 bbls water. RIH w/ CDI 2 1/2" x 1 3/4" x 20' x 20.5 RHAC rod pump, shear coupler, 4- 1 1/2" weight bars, 207- 7/8" guided rods (8 guides per rod), 1- 8', 6', 2' x 7/8" pony subs, 1 1/2" x 26' polished rod. Seat pump. RU pumping unit. Hang off rods. Stroke test to 800 psi. Good pump action. RD. Put well on production @ 5:00 p.m. 122" stroke length, 5 spm. Final Report.

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Pertinent Files: Go to File List

(See other instructions on reverse side)

OMB NO. 1004-0137

Expires: February 28, 1995

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

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

5. LEASE DESIGNATION AND SERIAL NO.

UTU-72107

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NA

1a. TYPE OF WORK

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

7. UNIT AGREEMENT NAME

SOUTH WELLS DRAW

1b. TYPE OF WELL

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

8. FARM OR LEASE NAME, WELL NO.

SOUTH WELLS DRAW FEDERAL L-10-9-16

2. NAME OF OPERATOR

Newfield Exploration Company

9. WELL NO.

43-013-33765

3. ADDRESS AND TELEPHONE NO.

1401 17th St. Suite 1000 Denver, CO 80202

10. FIELD AND POOL OR WILDCAT

Monument Butte

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

At Surface 1979' FSL & 1960' FEL (NW/SE) Sec. 10, T9S, R16E  
At top prod. Interval reported below

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

Sec. 10, T9S, R16E

At total depth

2442 fm 1291 fel

*per HSM review*

14. API NO. 43-013-33765 DATE ISSUED 9/5/07

12. COUNTY OR PARISH

Duchesne

13. STATE

UT

15. DATE SPUDDED 8/6/08

16. DATE T.D. REACHED 8/20/08

17. DATE COMPL. (Ready to prod.) 9/12/08

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 5651' GL

5663' KB

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

6245' 6233

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

6188' 6076

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 4116-5294'

25. WAS DIRECTIONAL SURVEY MADE

Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

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

27. WAS WELL CORED

No

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

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8-5/8" - J-55	24#	325.98'	12-1/4"	To surface with 160 sx Class "G" crmt	
5-1/2" - J-55	15.5#	6231.97'	7-7/8"	325 sx Premlite II and 450 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 @ 5362'	TA @ 5235'

31. PERFORATION RECORD (Interval, size and number)

INTERVAL	SIZE	SPF/NUMBER	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
(A1) 5286-5294'	.49"	4/32	5286-5294'	Frac w/ 29513# 20/40 sand in 402 bbls fluid
(B2) 5124-5136'	.49"	4/48	5124-5136'	Frac w/ 45017# 20/40 sand in 445 bbls fluid
(C) 4978-4986'	.49"	4/32	4978-4986'	Frac w/ 35060# 20/40 sand in 433 bbls fluid
(D1) 4794-4804'	.49"	4/40	4794-4986'	Frac w/ 25061# 20/40 sand in 347 bbls fluid
(GB6) 4288-4300'	.49"	4/48	4288-4300'	Frac w/ 40996# 20/40 sand in 393 bbls fluid
(GG2) 4116-4130'	.49"	4/56	4116-4130'	Frac w/ 26166# 20/40 sand in 343 bbls fluid

33.\* PRODUCTION

DATE FIRST PRODUCTION 9/12/08	PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump) 2-1/2" x 1-3/4" x 20' x 20.5' RHAC Rod Pump	WELL STATUS (Producing or shut-in) PRODUCING					
DATE OF TEST 9/23/08	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL--BBL. 92	GAS--MCF. 44	WATER--BBL. 62	GAS-OIL RATIO 478
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

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 Tammi Lee

TITLE Production Clerk

**RECEIVED**

10/14/2008

Tammi Lee

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

OCT 16 2008

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
			<p style="text-align: center;">Well Name</p> <p><b>SOUTH WELLS DRAW FEDERAL L-10-9-16</b></p>	3734'
				4062'
				4062'
				4320'
				4609'
				4646'
				4720'
				5414'
				5140'
				5646'
				6097'
				6235'



**Scientific  
Drilling**

## Directional Survey Certification

7327 West Barton Road  
Casper, WY 82604  
(307)-472-6621 Fax (307) 472-5439

<b>Operator</b>	<u>Newfield Exploration Co.</u>
<b>Well Name &amp; No.</b>	<u>South Wells Draw L-10-9-16</u>
<b>County &amp; State</b>	<u>Duchesne County, UT</u>
<b>SDI Job No.</b>	<u>42DEF0808671</u>
<b>Rig</b>	<u>NDSI 2</u>

I, Julie Cruse, having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 354 feet to a measured depth of 6245 feet is true and correct as determined from all available records.

Julie Cruse  
Signature

22-Sep-08  
Date

**Julie Cruse**  
Rockies Region Engineer  
Scientific Drilling - Rocky Mountain District



**Scientific Drilling**  
Rocky Mountain Operations

Project: Duchesne County, UT NAD83 UTC

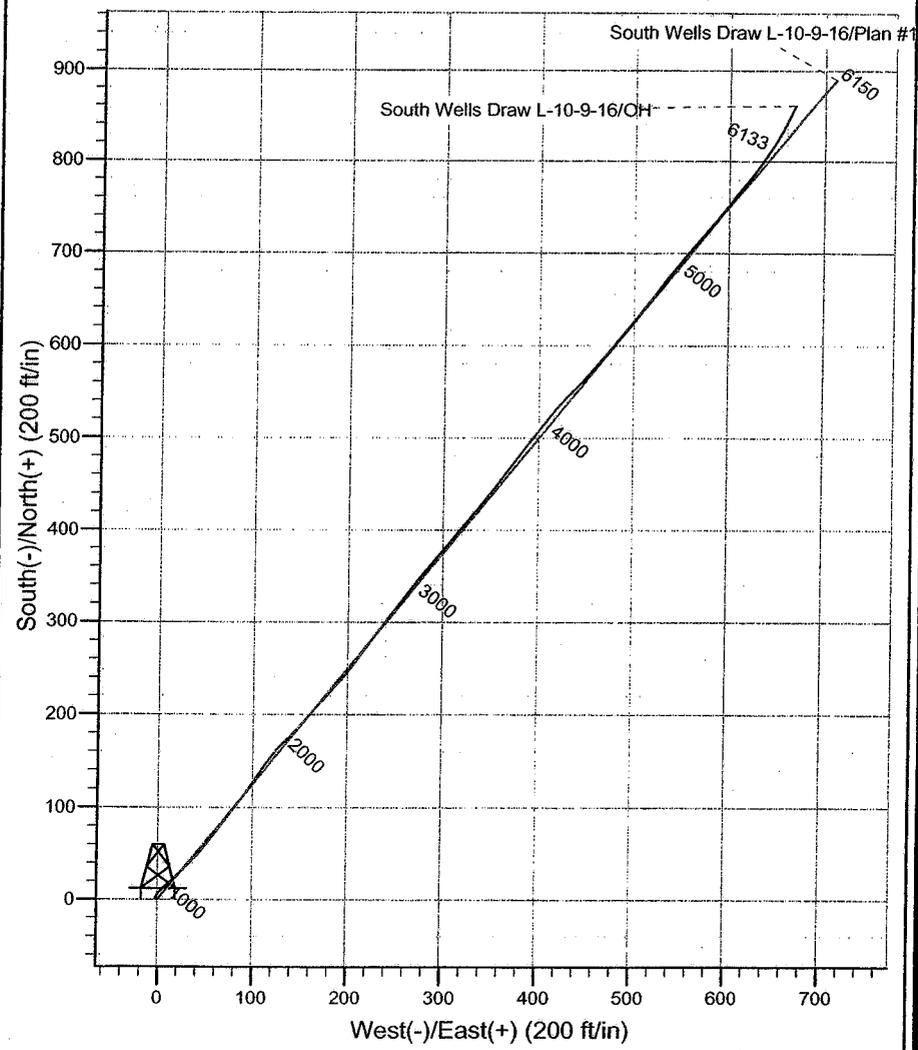
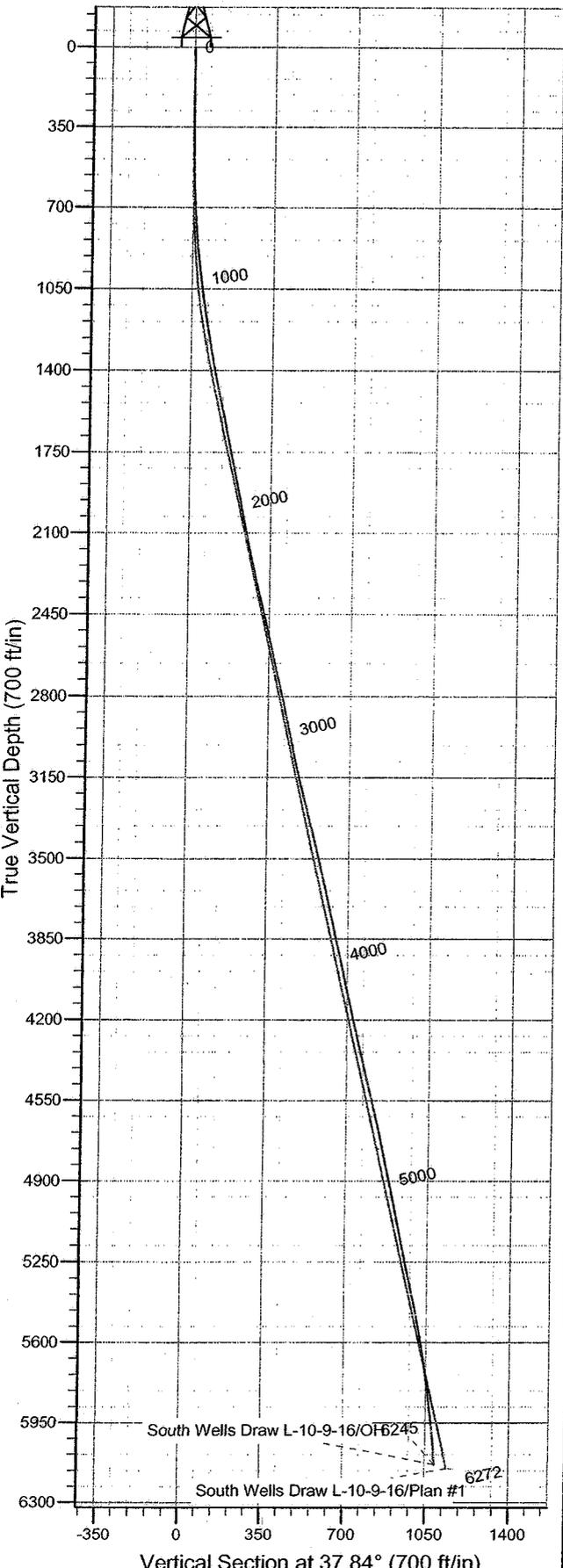
Site: South Wells Draw L-10-9-16

Well: South Wells Draw L-10-9-16

Wellbore: OH

Design: OH

**Newfield Exploration Co.**



**WELL DETAILS: South Wells Draw L-10-9-16**

Ground Level: GL 5651' & RBK 12' @ 5663.00ft (NDSI 2)						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	7187644.32	2031507.76	40° 2' 36.670 N	110° 6' 10.790 W	

**REFERENCE INFORMATION**

Co-ordinate (N/E) Reference: Well South Wells Draw L-10-9-16, True North  
 Vertical (TVD) Reference: GL 5651' & RBK 12' @ 5663.00ft (NDSI 2)  
 Section (VS) Reference: Slot - (0.00N, 0.00E)  
 Measured Depth Reference: GL 5651' & RBK 12' @ 5663.00ft (NDSI 2)  
 Calculation Method: Minimum Curvature  
 Local North: True  
 Location: Sec 10 T9S R16E

**PROJECT DETAILS: Duchesne County, UT NAD83 UTC**

Geodetic System: US State Plane 1983  
 Datum: North American Datum 1983  
 Ellipsoid: GRS 1980  
 Zone: Utah Central Zone

Design: OH (South Wells Draw L-10-9-16/OH)

Created By: Laura Turner Date: 2008-09-16

# **Newfield Exploration Co.**

**Duchesne County, UT NAD83 UTC**

**South Wells Draw L-10-9-16**

**South Wells Draw L-10-9-16**

**OH**

**Design: OH**

## **Standard Survey Report**

**16 September, 2008**

# Scientific Drilling

## Survey Report

<b>Company:</b> Newfield Exploration Co.	<b>Local Co-ordinate Reference:</b> Well South Wells Draw L-10-9-16	
<b>Project:</b> Duchesne County, UT NAD83 UTC	<b>TVD Reference:</b> GL 5651' & RBK 12' @ 5663.00ft (NDSI 2)	
<b>Site:</b> South Wells Draw L-10-9-16	<b>MD Reference:</b> GL 5651' & RBK 12' @ 5663.00ft (NDSI 2)	
<b>Well:</b> South Wells Draw L-10-9-16	<b>North Reference:</b> True	
<b>Wellbore:</b> OH	<b>Survey Calculation Method:</b> Minimum Curvature	
<b>Design:</b> OH	<b>Database:</b> EDM 2003.16 Multi User Db	

<b>Project</b>	Duchesne County, UT NAD83 UTC		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Utah Central Zone		

<b>Site</b>	South Wells Draw L-10-9-16, Sec 10 T9S R16E				
<b>Site Position:</b>		<b>Northing:</b>	7,187,644.32 ft	<b>Latitude:</b>	40° 2' 36.670 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,031,507.76 ft	<b>Longitude:</b>	110° 6' 10.790 W
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	in	<b>Grid Convergence:</b>	0.89 °

<b>Well</b>	South Wells Draw L-10-9-16, 1975' FSL & 1960 FEL					
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b>	7,187,644.32 ft	<b>Latitude:</b>	40° 2' 36.670 N
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	2,031,507.76 ft	<b>Longitude:</b>	110° 6' 10.790 W
<b>Position Uncertainty</b>	0.00 ft		<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	5,651.00 ft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2005-10	2008-08-11	11.68	65.86	52,569

<b>Design</b>	OH				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	37.84	

<b>Survey Program</b>	<b>Date</b>	2008-09-16			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
354.00	6,245.00	Survey #1 (OH)	MWD	MWD - Standard	

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
354.00	0.64	286.35	353.99	0.56	-1.90	-0.72	0.18	0.18	0.00	
<b>First MWD Survey</b>										
385.00	0.56	310.28	384.99	0.70	-2.18	-0.78	0.84	-0.26	77.19	
415.00	0.55	328.96	414.99	0.92	-2.36	-0.72	0.60	-0.03	62.27	
446.00	0.59	22.81	445.99	1.20	-2.38	-0.52	1.67	0.13	173.71	
477.00	1.00	17.54	476.99	1.60	-2.24	-0.11	1.34	1.32	-17.00	
508.00	1.26	16.47	507.98	2.19	-2.06	0.46	0.84	0.84	-3.45	
538.00	1.54	20.19	537.97	2.88	-1.83	1.15	0.98	0.93	12.40	
569.00	1.78	26.92	568.96	3.70	-1.46	2.02	1.00	0.77	21.71	
600.00	2.04	33.31	599.94	4.59	-0.94	3.05	1.08	0.84	20.61	
630.00	2.49	36.99	629.92	5.56	-0.26	4.23	1.58	1.50	12.27	
661.00	3.07	39.96	660.88	6.73	0.68	5.73	1.93	1.87	9.58	

# Scientific Drilling

## Survey Report

**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT NAD83 UTC  
**Site:** South Wells Draw L-10-9-16  
**Well:** South Wells Draw L-10-9-16  
**Wellbore:** OH  
**Design:** OH

**Local Co-ordinate Reference:** Well South Wells Draw L-10-9-16  
**TVD Reference:** GL 5651' & RBK 12' @ 5663.00ft (NDSI 2)  
**MD Reference:** GL 5651' & RBK 12' @ 5663.00ft (NDSI 2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.16 Multi User Db

### Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
692.00	3.32	40.91	691.83	8.05	1.80	7.46	0.82	0.81	3.06
722.00	4.07	43.46	721.77	9.48	3.10	9.39	2.56	2.50	8.50
753.00	4.47	43.26	752.68	11.15	4.69	11.68	1.29	1.29	-0.65
784.00	4.63	44.81	783.59	12.92	6.40	14.13	0.65	0.52	5.00
815.00	5.03	46.06	814.48	14.75	8.26	16.72	1.33	1.29	4.03
845.00	5.57	45.43	844.35	16.69	10.24	19.46	1.81	1.80	-2.10
876.00	6.26	43.86	875.18	18.96	12.48	22.63	2.29	2.23	-5.06
907.00	6.47	45.87	905.99	21.40	14.91	26.04	0.99	0.68	6.48
938.00	6.60	45.16	936.79	23.87	17.43	29.54	0.49	0.42	-2.29
970.00	6.85	46.98	968.57	26.47	20.13	33.25	1.03	0.78	5.69
1,002.00	7.32	44.40	1,000.32	29.23	22.95	37.16	1.77	1.47	-8.06
1,034.00	7.67	45.70	1,032.05	32.17	25.90	41.30	1.22	1.09	4.06
1,065.00	8.34	44.67	1,062.75	35.22	28.96	45.58	2.21	2.16	-3.32
1,097.00	8.67	42.71	1,094.40	38.64	32.23	50.29	1.37	1.03	-6.12
1,129.00	8.53	43.48	1,126.04	42.13	35.50	55.05	0.57	-0.44	2.41
1,160.00	8.73	43.02	1,156.69	45.52	38.69	59.68	0.68	0.65	-1.48
1,192.00	9.28	40.41	1,188.29	49.26	42.02	64.68	2.14	1.72	-8.16
1,224.00	9.53	38.53	1,219.86	53.30	45.34	69.91	1.24	0.78	-5.87
1,255.00	9.83	39.35	1,250.42	57.35	48.62	75.12	1.07	0.97	2.65
1,287.00	9.98	37.50	1,281.94	61.67	52.04	80.62	1.10	0.47	-5.78
1,319.00	10.20	37.65	1,313.45	66.11	55.45	86.23	0.69	0.69	0.47
1,350.00	10.53	36.77	1,343.94	70.55	58.83	91.80	1.18	1.06	-2.84
1,381.00	11.17	36.31	1,374.39	75.24	62.30	97.64	2.08	2.06	-1.48
1,413.00	11.50	36.59	1,405.76	80.30	66.04	103.92	1.05	1.03	0.87
1,445.00	11.51	36.30	1,437.12	85.43	69.83	110.31	0.18	0.03	-0.91
1,477.00	11.75	37.61	1,468.46	90.59	73.71	116.76	1.12	0.75	4.09
1,508.00	12.18	36.48	1,498.79	95.72	77.58	123.18	1.58	1.39	-3.65
1,540.00	12.65	35.85	1,530.04	101.27	81.64	130.06	1.53	1.47	-1.97
1,572.00	12.63	36.63	1,561.27	106.92	85.78	137.06	0.54	-0.06	2.44
1,603.00	12.29	35.84	1,591.54	112.31	89.73	143.74	1.23	-1.10	-2.55
1,635.00	11.98	33.76	1,622.82	117.84	93.57	150.46	1.67	-0.97	-6.50
1,667.00	11.78	33.77	1,654.14	123.31	97.23	157.03	0.63	-0.62	0.03
1,762.00	11.52	33.87	1,747.18	139.25	107.91	176.17	0.27	-0.27	0.11
1,857.00	11.74	36.99	1,840.23	154.85	119.01	195.29	0.70	0.23	3.28
1,952.00	10.79	45.21	1,933.40	168.83	131.14	213.78	1.96	-1.00	8.65
2,047.00	10.94	43.07	2,026.70	181.68	143.60	231.57	0.45	0.16	-2.25
2,143.00	11.62	40.99	2,120.85	195.63	156.17	250.30	0.83	0.71	-2.17
2,238.00	12.83	41.00	2,213.69	210.82	169.36	270.39	1.27	1.27	0.01
2,333.00	13.37	42.05	2,306.22	226.93	183.64	291.87	0.62	0.57	1.11
2,428.00	13.35	38.74	2,398.65	243.65	197.86	313.79	0.81	-0.02	-3.48
2,523.00	13.19	34.64	2,491.11	261.12	210.88	335.58	1.00	-0.17	-4.32
2,618.00	12.77	34.24	2,583.69	278.72	222.95	356.88	0.45	-0.44	-0.42
2,713.00	13.50	37.50	2,676.20	296.19	235.61	378.45	1.09	0.77	3.43
2,808.00	13.33	36.26	2,768.61	313.82	248.84	400.48	0.35	-0.18	-1.31
2,903.00	12.32	38.01	2,861.24	330.64	261.56	421.57	1.14	-1.06	1.84
2,998.00	12.48	39.51	2,954.02	346.54	274.33	441.96	0.38	0.17	1.58
3,093.00	12.57	38.17	3,046.76	362.59	287.25	462.56	0.32	0.09	-1.41
3,188.00	13.03	38.76	3,139.40	379.07	300.34	483.61	0.50	0.48	0.62
3,283.00	14.41	38.33	3,231.69	396.69	314.38	506.14	1.46	1.45	-0.45
3,378.00	13.40	38.07	3,323.90	414.63	328.50	528.97	1.07	-1.06	-0.27
3,473.00	14.05	39.69	3,416.19	432.17	342.65	551.50	0.79	0.68	1.71
3,569.00	13.95	36.74	3,509.34	450.41	357.01	574.72	0.75	-0.10	-3.07
3,664.00	12.32	34.74	3,601.85	467.92	369.64	596.29	1.78	-1.72	-2.11
3,759.00	12.35	37.32	3,694.66	484.33	381.58	616.57	0.58	0.03	2.72

# Scientific Drilling

## Survey Report

**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT NAD83 UTC  
**Site:** South Wells Draw L-10-9-16  
**Well:** South Wells Draw L-10-9-16  
**Wellbore:** OH  
**Design:** OH

**Local Co-ordinate Reference:** Well South Wells Draw L-10-9-16  
**TVD Reference:** GL 5651' & RBK 12' @ 5663.00ft (NDSI 2)  
**MD Reference:** GL 5651' & RBK 12' @ 5663.00ft (NDSI 2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.16 Multi User Db

### Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,854.00	12.01	38.03	3,787.52	500.19	393.82	636.61	0.39	-0.36	0.75
3,949.00	11.71	37.29	3,880.49	515.65	405.75	656.13	0.35	-0.32	-0.78
4,044.00	11.93	38.77	3,973.48	530.97	417.74	675.59	0.39	0.23	1.56
4,139.00	12.92	44.71	4,066.26	546.18	431.37	695.95	1.70	1.04	6.25
4,235.00	12.21	41.89	4,159.96	561.36	445.69	716.74	0.98	-0.74	-2.94
4,330.00	13.19	41.28	4,252.63	576.98	459.55	737.58	1.04	1.03	-0.64
4,425.00	12.59	38.68	4,345.24	593.21	473.17	758.75	0.88	-0.63	-2.74
4,500.00	12.95	37.86	4,418.38	606.23	483.44	775.33	0.54	0.48	-1.09
4,596.00	13.91	39.33	4,511.76	623.65	497.36	797.62	1.06	1.00	1.53
4,691.00	13.63	38.65	4,604.03	641.22	511.58	820.23	0.34	-0.29	-0.72
4,786.00	11.93	35.12	4,696.67	658.00	524.23	841.23	1.97	-1.79	-3.72
4,881.00	11.34	37.50	4,789.72	673.44	535.56	860.38	0.80	-0.62	2.51
4,976.00	11.78	38.11	4,882.79	688.48	547.23	879.41	0.48	0.46	0.64
5,071.00	11.98	40.80	4,975.76	703.57	559.66	898.96	0.62	0.21	2.83
5,166.00	10.84	40.32	5,068.88	717.85	571.88	917.73	1.20	-1.20	-0.51
5,261.00	11.45	39.50	5,162.09	731.93	583.66	936.08	0.66	0.64	-0.86
5,296.52	11.76	38.92	5,196.88	737.47	588.18	943.22	0.93	0.87	-1.63
<b>SWD L-10-9-16</b>									
5,356.00	12.28	38.02	5,255.06	747.17	595.88	955.61	0.93	0.88	-1.52
5,452.00	12.00	35.87	5,348.91	763.30	608.02	975.79	0.55	-0.29	-2.24
5,547.00	12.25	38.35	5,441.79	779.21	620.06	995.74	0.61	0.26	2.61
5,642.00	9.84	34.66	5,535.03	793.79	630.93	1,013.92	2.64	-2.54	-3.88
5,737.00	8.92	32.14	5,628.76	806.70	639.46	1,029.36	1.06	-0.97	-2.65
5,832.00	7.72	32.06	5,722.75	818.35	646.77	1,043.04	1.26	-1.26	-0.08
5,928.00	7.58	28.74	5,817.90	829.36	653.24	1,055.70	0.48	-0.15	-3.46
6,022.00	6.99	25.50	5,911.14	839.96	658.68	1,067.41	0.76	-0.63	-3.45
6,117.00	6.17	26.98	6,005.52	849.73	663.48	1,078.07	0.88	-0.86	1.56
6,194.00	5.05	23.64	6,082.15	856.52	666.72	1,085.42	1.51	-1.45	-4.34
6,245.00	5.05	23.64	6,132.95	860.63	668.52	1,089.78	0.00	0.00	0.00

### Projection to TD

### Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
SWD L-10-9-16	0.00	0.00	5,200.00	725.00	580.00	7,188,378.29	2,032,076.37	40° 2' 43.835 N	110° 6' 3.332 W
- hit/miss target									
- Shape									
- actual wellpath misses target center by 15.23ft at 5296.52ft MD (5196.88 TVD, 737.47 N, 588.18 E)									
- Circle (radius 75.00)									

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_