



May 1, 2008

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 U-5-9-16**  
South Wells Draw Unit  
UTU-79641X  
Surface Hole: T9S R16E, Section 9: NWNW  
697' FNL 647' FWL  
Bottom Hole: T9S R16E, Section 5  
60' FSL 120' FEL  
Duchesne County, Utah

Dear Ms. Mason;

Pursuant to the filing of Newfield Production Company's ("NPC") Application for Permit to Drill dated April 22, 2008, 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,

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

Roxann Eveland  
Land Associate

**RECEIVED**  
**MAY 05 2008**  
**DIV. OF OIL, GAS & MINING**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.  
UTU-73086

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 U-5-9-16

9. API Well No.

10. Field and Pool, or Exploratory  
Monument Butte

11. Sec., T., R., M., or Blk. and Survey or Area  
Sec. 9, 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/4NW 697' FNL 647' FWL Sec. 9, T9S R16E  
At proposed prod. zone 60' FSL 120' FEL Sec. 5, T9S R16E

14. Distance in miles and direction from nearest town or post office\*  
Approximately 15.1 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. 60' f/lse, 1260' f/unit

16. No. of Acres in lease  
160.00

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. 1540'

19. Proposed Depth  
6230'

20. BLM/BIA Bond No. on file  
WYB000493

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
5758' GL

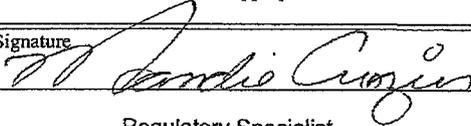
22. Approximate date work will start\*  
3rd Quarter 2008

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 4/22/08

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.

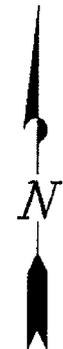
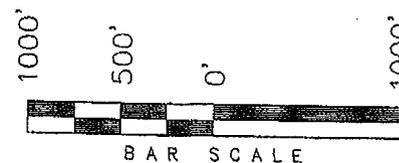
\*(Instructions on reverse)

RECEIVED  
MAY 05 2008  
DIV. OF OIL, GAS & MINING

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

NEWFIELD PRODUCTION COMPANY

WELL LOCATION, SOUTH WELLS DRAW U-5-9-16, LOCATED AS SHOWN IN THE NW 1/4 NW 1/4 OF SECTION 9, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



Note:

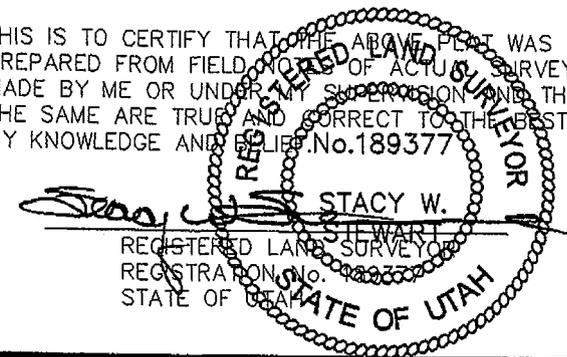
1. The bottom of hole bears N45°23'40"W 1079.25' from the Top of Hole.
2. The bottom of hole footages are 60' FSL & 120' FEL.

WELL LOCATION:

**SOUTH WELLS DRAW U-5-9-16**

ELEV. EXIST. GRADED GROUND = 5758'

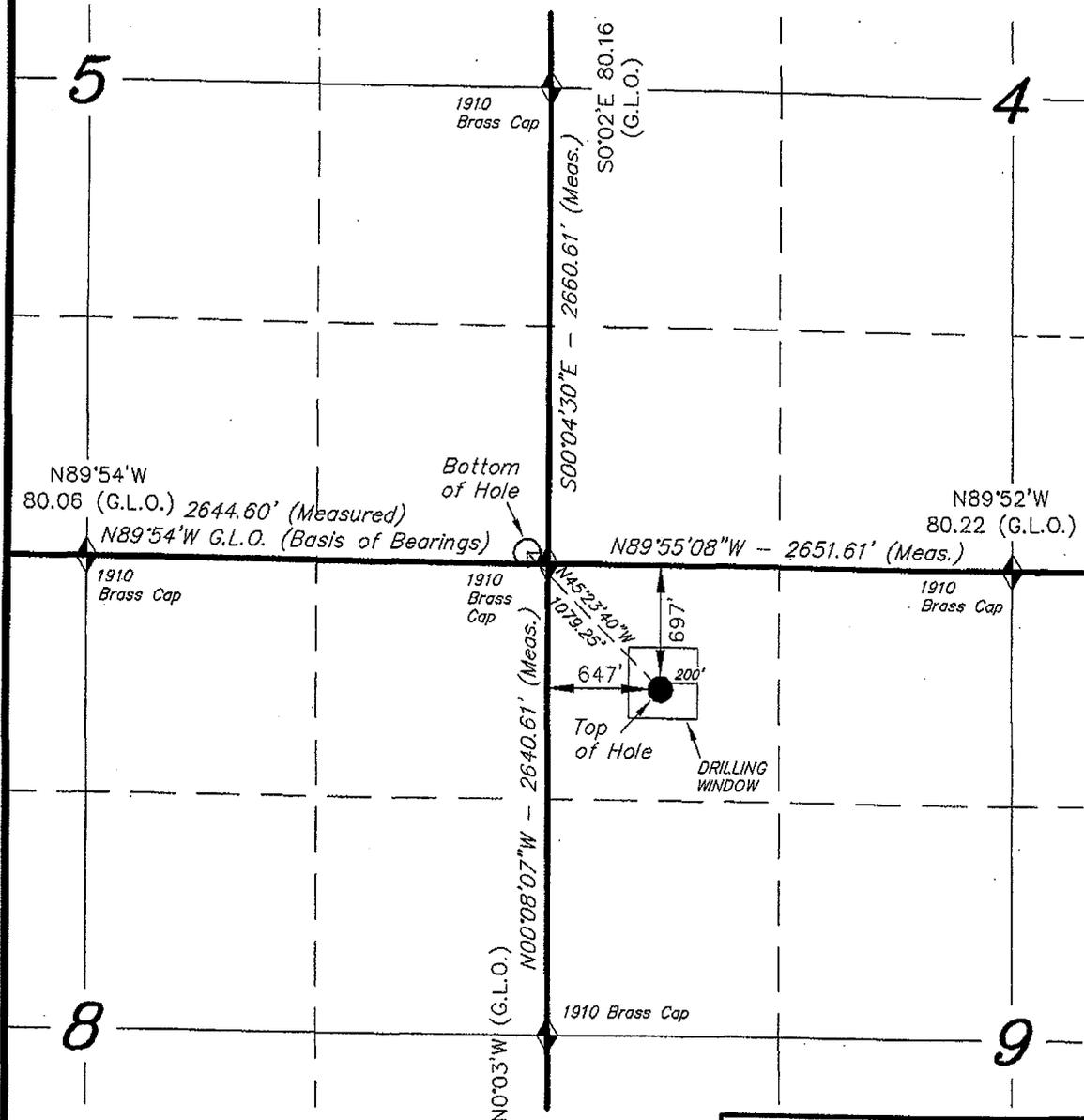
THIS IS TO CERTIFY THAT THE ABOVE PLAN WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. No.189377



TRI STATE LAND SURVEYING & CONSULTING

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

DATE SURVEYED: 02-07-08	SURVEYED BY: T.H.
DATE DRAWN: 02-16-08	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'



◆ = SECTION CORNERS LOCATED

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

**SOUTH WELLS DRAW U-5-9-16**  
(Surface Location) NAD 83  
LATITUDE = 40° 03' 02.57"  
LONGITUDE = 110° 07' 53.29"

# NEWFIELD



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

May 5, 2008

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

RE: Applications for Permit to Drill  
**South Wells Draw Fed. U-5-9-16**

Dear Diana:

Enclosed find an APD on the above referenced well. If you have any questions, feel free to give either Dave Allred or myself a call.

Sincerely,

Mandie Crozier  
Regulatory Specialist

mc  
enclosures

**RECEIVED**  
**MAY 06 2008**  
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-73086	
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 U-5-9-16	
9. API Well No. 43-013-33981	
1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER	10. Field and Pool, or Exploratory Monument Butte
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	11. Sec., T., R., M., or Blk. and Survey or Area Sec. 9, T9S R16E
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/NW 697' FNL 647' FWL Sec. 9, T9S R16E At proposed prod. zone <i>SE</i> 60' FSL 120' FEL Sec. 5, T9S R16E	
12. County or Parish Duchesne	
13. State UT	
14. Distance in miles and direction from nearest town or post office* Approximatley 15.1 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. 60' f/lse, 1260' f/unit	16. No. of Acres in lease 160.00
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. 1540'
19. Proposed Depth 6230'	20. BLM/BIA Bond No. on file WYB000493
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5758' GL	22. Approximate date work will start* 3rd Quarter 2008
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 4/22/08
Title Regulatory Specialist		
Approved by (Signature) <i>Bradley G. Hill</i>	Name (Printed/Typed) BRADLEY G. HILL	Date 05-08-08
Title ENVIRONMENTAL MANAGER		

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

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

\*(Instructions on reverse)

Sur f  
574138X  
4433535Y  
40.050693  
-110.130846

BHL  
573903X  
4433765Y  
40.052781  
-110.133580

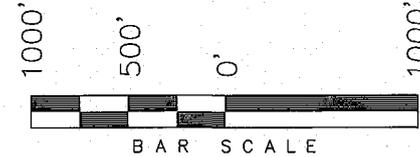
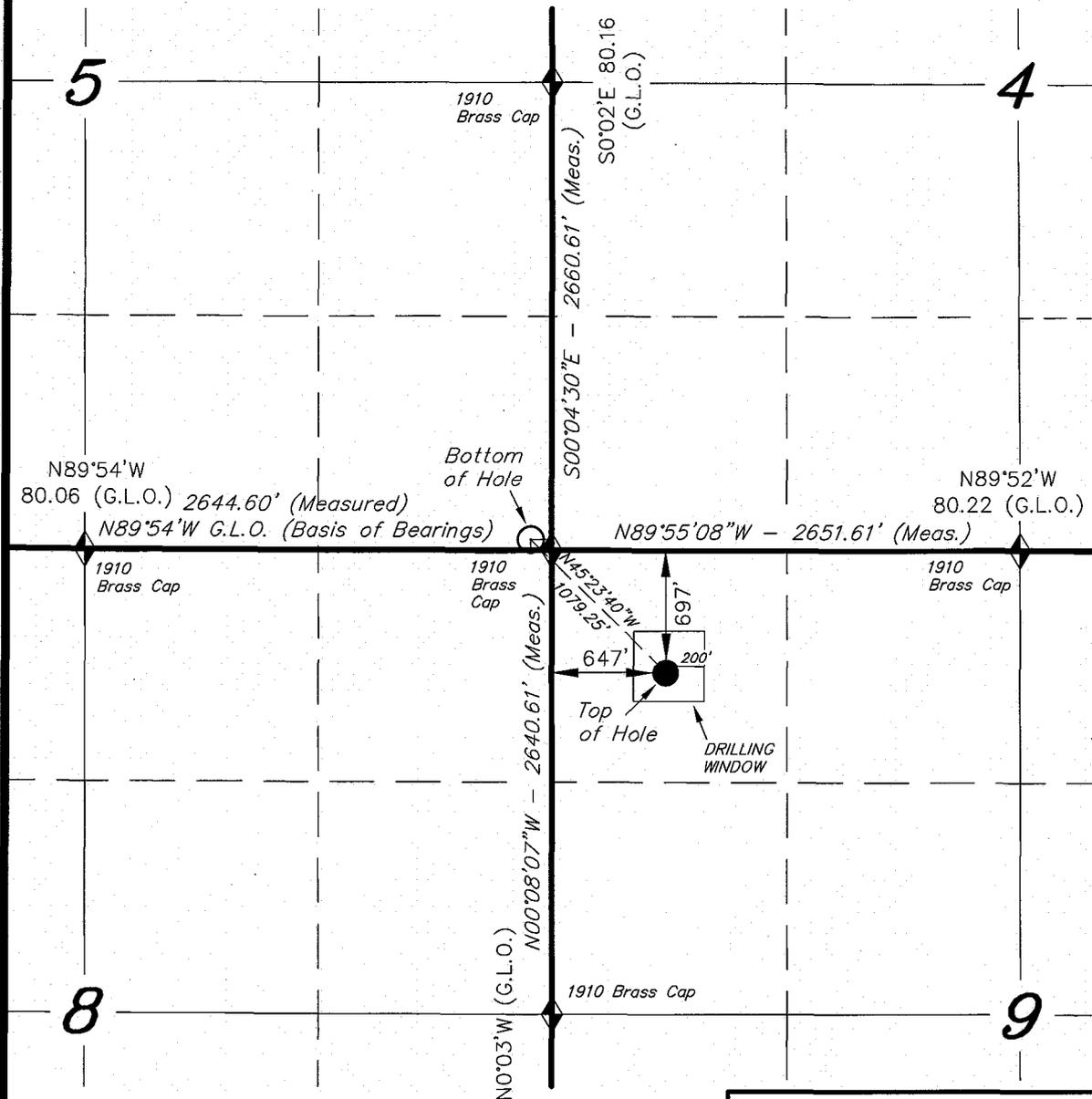
Federal Approval of this  
Action is Necessary

RECEIVED  
MAY 06 2008  
DIV. OF OIL, GAS & MINING

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

**NEWFIELD PRODUCTION COMPANY**

WELL LOCATION, SOUTH WELLS DRAW  
U-5-9-16, LOCATED AS SHOWN IN THE  
NW 1/4 NW 1/4 OF SECTION 9, T9S, R16E,  
S.L.B.&M. DUCHESNE COUNTY, UTAH.



**Note:**

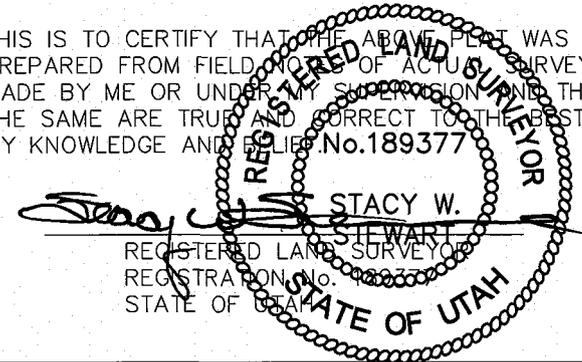
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BASIS OF ELEV;  
U.S.G.S. 7-1/2 min QUAD (MYTON SE)

**SOUTH WELLS DRAW U-5-9-16**  
 (Surface Location) NAD 83  
 LATITUDE = 40° 03' 02.57"  
 LONGITUDE = 110° 07' 53.29"

**TRI STATE LAND SURVEYING & CONSULTING**

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
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DATE SURVEYED: 02-07-08	SURVEYED BY: T.H.
DATE DRAWN: 02-16-08	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

NEWFIELD PRODUCTION COMPANY  
SOUTH WELLS DRAW FEDERAL U-5-9-16  
AT SURFACE: NW/NW SECTION 8, 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' – 1610'
Green River	1610'
Wasatch	6230'

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

Green River Formation 1610' – 6230' - 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 U-5-9-16  
AT SURFACE: NW/NW SECTION 9, 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 U-5-9-16 located in the NW 1/4 NW 1/4 Section 9, T9S, R16E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles ± to the junction of this highway and UT State Hwy 53; proceed southeasterly - 6.2 miles ± to it's junction with an existing road to the southwest; proceed southwesterly - 5.6 miles ± to it's junction with an existing road to the south; proceed southerly - 0.7 miles ± to it's junction with an existing road to the east; proceed northeasterly - 0.3 miles ± to the beginning of the access road to the existing Monument Federal 11-9-9-16 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 11-9-9-16 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 11-9-9-16 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 U-5-9-16. 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 U-5-9-16 will be drilled off of the existing Monument Federal 11-9-9-16 well pad. A small amount of surface disturbance will be required for construction of the pit.

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**

Newfield Production Company requests 490' of disturbed area be granted in Lease UTU-020254 to allow for construction of the proposed water line. 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. In the event that the proposed well is converted to a water injection well, a separate injection permit will be applied for through the proper agencies.

The Archaeological Resource Survey and Paleontological Resource Survey for the 490' of proposed water injection pipeline is attached. See attached report cover pages, **Exhibit "D"**.

**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 U-5-9-16

**Reserve Pit Liner**

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

**Location and Reserve Pit Reclamation**

Please refer to the Monument Butte Field SOP.

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

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

**Details of the On-Site Inspection**

The proposed South Wells Draw Federal U-5-9-16 was on-sited on 3/26/08. The following were present; Dave Allred (Newfield Production), Kevan Stevens (Newfield Production ), Michael Cutler (Bureau of Land Management), Brandon McDonald (Bureau of Land Management )and James Herford (Bureau of Land Management). Weather conditions were clear and ground cover was 100% open.

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

Representative

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

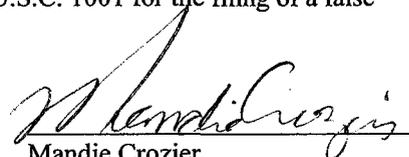
Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #U-5-9-16 NW/NW Section 9, Township 9S, Range 16E: Lease UTU-73086 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Federal Bond #WYB000493.

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

4/22/08

Date



Mandie Crozier  
Regulatory Specialist  
Newfield Production Company

Exhibit "D"

1 of 2

CULTURAL RESOURCE INVENTORY OF  
NEWFIELD EXPLORATION'S PROPOSED  
WATERLINE SOUTH WELLS DRAW U-5-9-16  
(T9S, R16E, SECTION 9)  
DUCHESNE COUNTY, UTAH

By:

Patricia Stavish

Prepared for:

Bureau of Land Management  
Vernal Field Office

Prepared Under Contract With:

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

Submitted By:

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

MOAC Report No. 08-085

April 21, 2008

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

State of Utah Antiquities Project (Survey)  
Permit No. U-08-MQ-0296b

**Paleontological Assessment for  
Newfield Exploration Co. Proposed  
South Wells Draw U-5-9-16 Pipeline**

**Myton SE Quadrangle  
Duchesne County, Utah**

Prepared for

**Newfield Production Co.  
and  
Bureau of Land Management**

Prepared by

**SWCA Environmental Consultants**

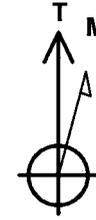
5/5/2008  
SWCA #UT08-14273-08



**Scientific Drilling**  
Rocky Mountain Operations

Project: Duchesne County, UT NAD83 UTC  
Site: South Wells Draw  
Well: South Wells Draw U-5-9-16  
Wellbore: OH  
Design: Plan #1

Newfield Exploration Co.

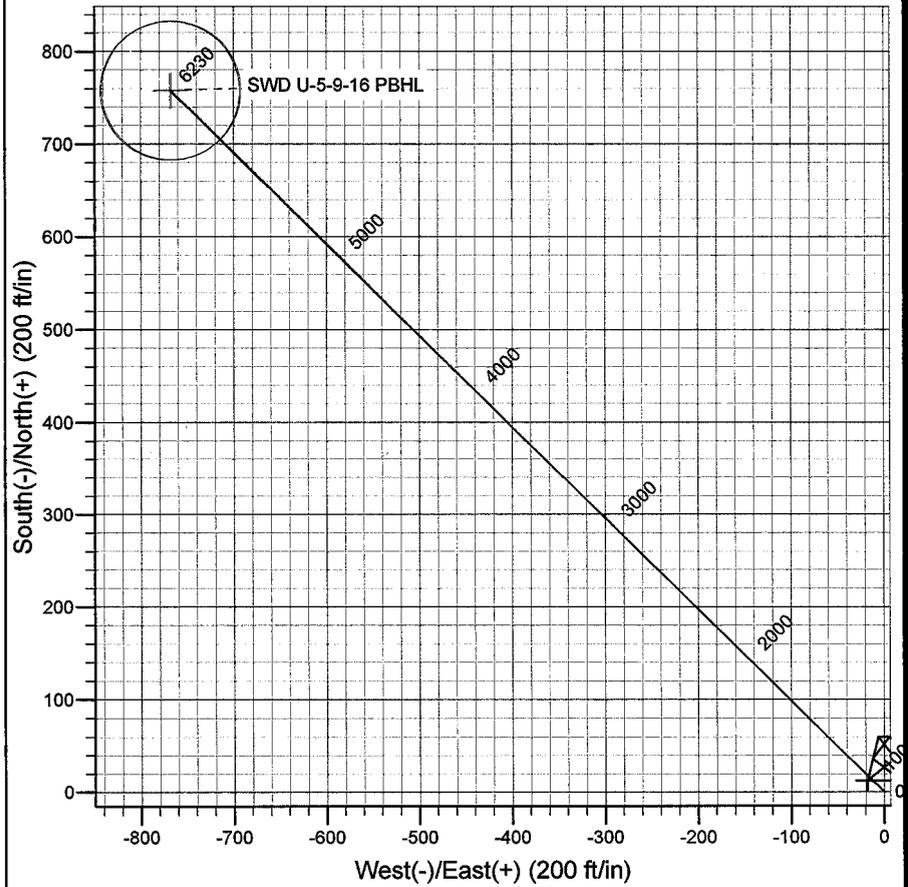
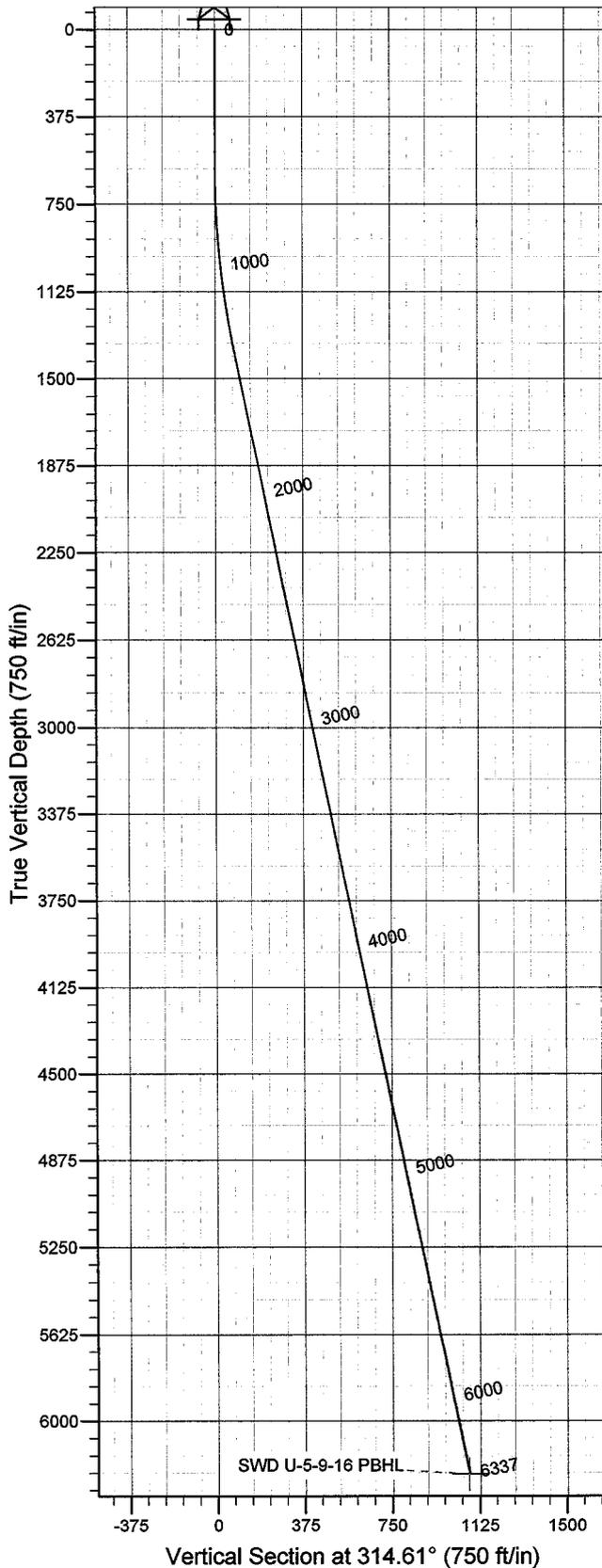


Azimuths to True North  
Magnetic North: 11.73°

Magnetic Field  
Strength: 52596.6snT  
Dip Angle: 65.87°  
Date: 2008-04-23  
Model: IGRF2005-10

WELL DETAILS: South Wells Draw U-5-9-16

GL 5758' & RKB 12' @ 5770.00ft 5758.00  
+N/-S 0.00 +E/-W 0.00 Northing 7190141.41 Easting 2023497.56 Latitude 40° 3' 2.570 N Longitude 110° 7' 53.290 W



Plan: Plan #1 (South Wells Draw U-5-9-16/OH)

Created By: Julie Cruse Date: 2008-04-23

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  
Location:  
System Datum: Mean Sea Level  
Local North: True

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
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	
1375.76	11.64	314.61	1370.44	55.13	-55.89	1.50	314.61	78.51	
6337.30	11.64	314.61	6230.00	757.93	-768.32	0.00	0.00	1079.25	SWD U-5-9-16 PBHL

# **Newfield Exploration Co.**

**Duchesne County, UT NAD83 UTC**

**South Wells Draw**

**South Wells Draw U-5-9-16**

**OH**

**Plan: Plan #1**

## **Standard Planning Report**

**23 April, 2008**

# Scientific Drilling

## Planning Report

**Database:** EDM 2003.16 Multi-User Db  
**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT NAD83 UTC  
**Site:** South Wells Draw  
**Well:** South Wells Draw U-5-9-16  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well South Wells Draw U-5-9-16  
**TVD Reference:** GL 5758' & RKB 12' @ 5770.00ft  
**MD Reference:** GL 5758' & RKB 12' @ 5770.00ft  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

<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,				
<b>Site Position:</b>		<b>Northing:</b>	7,190,273.05 ft	<b>Latitude:</b>	40° 3' 4.280 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,020,782.26 ft	<b>Longitude:</b>	110° 8' 28.180 W
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	in	<b>Grid Convergence:</b>	0.87 °

<b>Well</b>	South Wells Draw U-5-9-16, 697' FNL 647' FWL Sec 9 T9S R16E					
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b>	7,190,141.41 ft	<b>Latitude:</b>	40° 3' 2.570 N
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	2,023,497.56 ft	<b>Longitude:</b>	110° 7' 53.290 W
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	5,758.00 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</b>
	IGRF2005-10	2008-04-23	(°)	(°)	(nT)
			11.73	65.87	52,597

<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)</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Direction</b>
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	314.61

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	
1,375.76	11.64	314.61	1,370.44	55.13	-55.89	1.50	1.50	0.00	314.61	
6,337.30	11.64	314.61	6,230.00	757.93	-768.32	0.00	0.00	0.00	0.00	0.00 SWD U-5-9-16 PBHL

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**MD Reference:** GL 5758' & RKB 12' @ 5770.00ft  
**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
700.00	1.50	314.61	699.99	0.92	-0.93	1.31	1.50	1.50	0.00
800.00	3.00	314.61	799.91	3.68	-3.73	5.23	1.50	1.50	0.00
900.00	4.50	314.61	899.69	8.27	-8.38	11.77	1.50	1.50	0.00
1,000.00	6.00	314.61	999.27	14.70	-14.90	20.92	1.50	1.50	0.00
1,100.00	7.50	314.61	1,098.57	22.95	-23.26	32.68	1.50	1.50	0.00
1,200.00	9.00	314.61	1,197.54	33.03	-33.48	47.03	1.50	1.50	0.00
1,300.00	10.50	314.61	1,296.09	44.92	-45.53	63.96	1.50	1.50	0.00
1,375.76	11.64	314.61	1,370.44	55.13	-55.89	78.51	1.50	1.50	0.00
1,400.00	11.64	314.61	1,394.18	58.57	-59.37	83.39	0.00	0.00	0.00
1,500.00	11.64	314.61	1,492.12	72.73	-73.73	103.56	0.00	0.00	0.00
1,600.00	11.64	314.61	1,590.07	86.90	-88.09	123.73	0.00	0.00	0.00
1,700.00	11.64	314.61	1,688.01	101.06	-102.45	143.90	0.00	0.00	0.00
1,800.00	11.64	314.61	1,785.96	115.23	-116.81	164.07	0.00	0.00	0.00
1,900.00	11.64	314.61	1,883.90	129.39	-131.16	184.25	0.00	0.00	0.00
2,000.00	11.64	314.61	1,981.85	143.56	-145.52	204.42	0.00	0.00	0.00
2,100.00	11.64	314.61	2,079.79	157.72	-159.88	224.59	0.00	0.00	0.00
2,200.00	11.64	314.61	2,177.74	171.89	-174.24	244.76	0.00	0.00	0.00
2,300.00	11.64	314.61	2,275.68	186.05	-188.60	264.93	0.00	0.00	0.00
2,400.00	11.64	314.61	2,373.63	200.22	-202.96	285.10	0.00	0.00	0.00
2,500.00	11.64	314.61	2,471.57	214.38	-217.32	305.27	0.00	0.00	0.00
2,600.00	11.64	314.61	2,569.52	228.55	-231.68	325.44	0.00	0.00	0.00
2,700.00	11.64	314.61	2,667.46	242.71	-246.04	345.61	0.00	0.00	0.00
2,800.00	11.64	314.61	2,765.41	256.88	-260.40	365.78	0.00	0.00	0.00
2,900.00	11.64	314.61	2,863.35	271.04	-274.76	385.95	0.00	0.00	0.00
3,000.00	11.64	314.61	2,961.30	285.21	-289.12	406.12	0.00	0.00	0.00
3,100.00	11.64	314.61	3,059.24	299.37	-303.47	426.29	0.00	0.00	0.00
3,200.00	11.64	314.61	3,157.18	313.54	-317.83	446.46	0.00	0.00	0.00
3,300.00	11.64	314.61	3,255.13	327.70	-332.19	466.63	0.00	0.00	0.00
3,400.00	11.64	314.61	3,353.07	341.87	-346.55	486.80	0.00	0.00	0.00
3,500.00	11.64	314.61	3,451.02	356.03	-360.91	506.97	0.00	0.00	0.00
3,600.00	11.64	314.61	3,548.96	370.20	-375.27	527.14	0.00	0.00	0.00
3,700.00	11.64	314.61	3,646.91	384.36	-389.63	547.31	0.00	0.00	0.00
3,800.00	11.64	314.61	3,744.85	398.53	-403.99	567.48	0.00	0.00	0.00
3,900.00	11.64	314.61	3,842.80	412.69	-418.35	587.65	0.00	0.00	0.00
4,000.00	11.64	314.61	3,940.74	426.86	-432.71	607.82	0.00	0.00	0.00
4,100.00	11.64	314.61	4,038.69	441.02	-447.07	627.99	0.00	0.00	0.00
4,200.00	11.64	314.61	4,136.63	455.19	-461.42	648.16	0.00	0.00	0.00
4,300.00	11.64	314.61	4,234.58	469.35	-475.78	668.33	0.00	0.00	0.00
4,400.00	11.64	314.61	4,332.52	483.52	-490.14	688.50	0.00	0.00	0.00
4,500.00	11.64	314.61	4,430.47	497.68	-504.50	708.67	0.00	0.00	0.00
4,600.00	11.64	314.61	4,528.41	511.85	-518.86	728.84	0.00	0.00	0.00
4,700.00	11.64	314.61	4,626.36	526.01	-533.22	749.01	0.00	0.00	0.00
4,800.00	11.64	314.61	4,724.30	540.18	-547.58	769.18	0.00	0.00	0.00
4,900.00	11.64	314.61	4,822.25	554.34	-561.94	789.35	0.00	0.00	0.00
5,000.00	11.64	314.61	4,920.19	568.51	-576.30	809.52	0.00	0.00	0.00
5,100.00	11.64	314.61	5,018.13	582.67	-590.66	829.69	0.00	0.00	0.00
5,200.00	11.64	314.61	5,116.08	596.84	-605.02	849.86	0.00	0.00	0.00

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**Well:** South Wells Draw U-5-9-16  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well South Wells Draw U-5-9-16  
**TVD Reference:** GL 5758' & RKB 12' @ 5770.00ft  
**MD Reference:** GL 5758' & RKB 12' @ 5770.00ft  
**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)
5,300.00	11.64	314.61	5,214.02	611.00	-619.38	870.03	0.00	0.00	0.00
5,400.00	11.64	314.61	5,311.97	625.17	-633.73	890.20	0.00	0.00	0.00
5,500.00	11.64	314.61	5,409.91	639.33	-648.09	910.37	0.00	0.00	0.00
5,600.00	11.64	314.61	5,507.86	653.50	-662.45	930.54	0.00	0.00	0.00
5,700.00	11.64	314.61	5,605.80	667.66	-676.81	950.71	0.00	0.00	0.00
5,800.00	11.64	314.61	5,703.75	681.83	-691.17	970.88	0.00	0.00	0.00
5,900.00	11.64	314.61	5,801.69	695.99	-705.53	991.05	0.00	0.00	0.00
6,000.00	11.64	314.61	5,899.64	710.16	-719.89	1,011.22	0.00	0.00	0.00
6,100.00	11.64	314.61	5,997.58	724.32	-734.25	1,031.39	0.00	0.00	0.00
6,200.00	11.64	314.61	6,095.53	738.48	-748.61	1,051.56	0.00	0.00	0.00
6,300.00	11.64	314.61	6,193.47	752.65	-762.97	1,071.73	0.00	0.00	0.00
6,337.30	11.64	314.61	6,230.00	757.93	-768.32	1,079.25	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 U-5-9-16 PBHL	0.00	0.00	6,230.00	757.93	-768.32	7,190,887.49	2,022,717.73	40° 3' 10.061 N	110° 8' 3.171 W
- hit/miss target									
- Shape									
- plan hits target center									
- Circle (radius 75.00)									

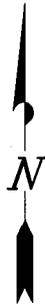
# NEWFIELD PRODUCTION COMPANY

## WELL PAD INTERFERENCE PLAT

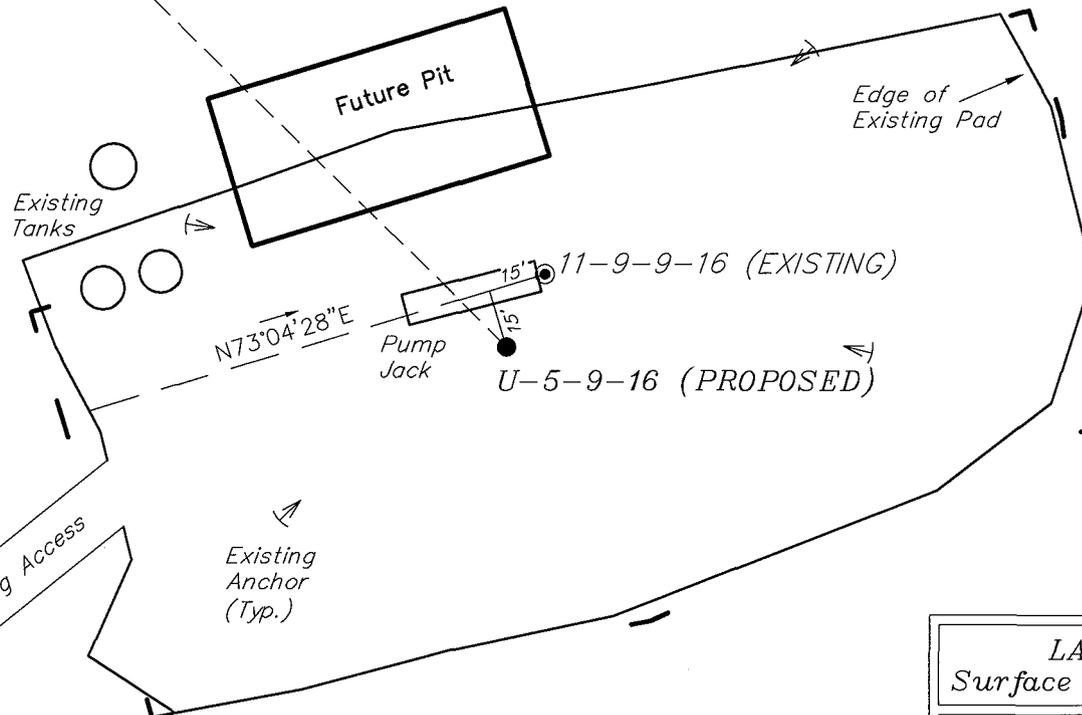
SOUTH WELLS DRAW U-5-9-16 (Proposed Well)

SOUTH WELLS DRAW 11-9-9-16 (Existing Well)

Pad Location: NWNW Section 9, T9S, R16E, S.L.B.&M.



N45°23'40"W - 1079.25'  
(To Bottom Hole)



### TOP HOLE FOOTAGES

U-5-9-16 (PROPOSED)  
697' FNL & 647' FWL

### BOTTOM HOLE FOOTAGES

U-5-9-16 (PROPOSED)  
60' FSL & 120' FEL

**Note:**  
Bearings are based  
on GLO Information.

### LATITUDE & LONGITUDE Surface position of Wells (NAD 83)

WELL	LATITUDE	LONGITUDE
U-5-9-16	40° 03' 02.57"	110° 07' 53.29"
11-9-9-16	40° 03' 02.75"	110° 07' 53.16"

### RELATIVE COORDINATES From top hole to bottom hole

WELL	NORTH	EAST
U-5-9-16	758'	-768'

SURVEYED BY: T.H.	DATE SURVEYED: 02-07-08
DRAWN BY: F.T.M.	DATE DRAWN: 02-16-08
SCALE: 1" = 50'	REVISED:

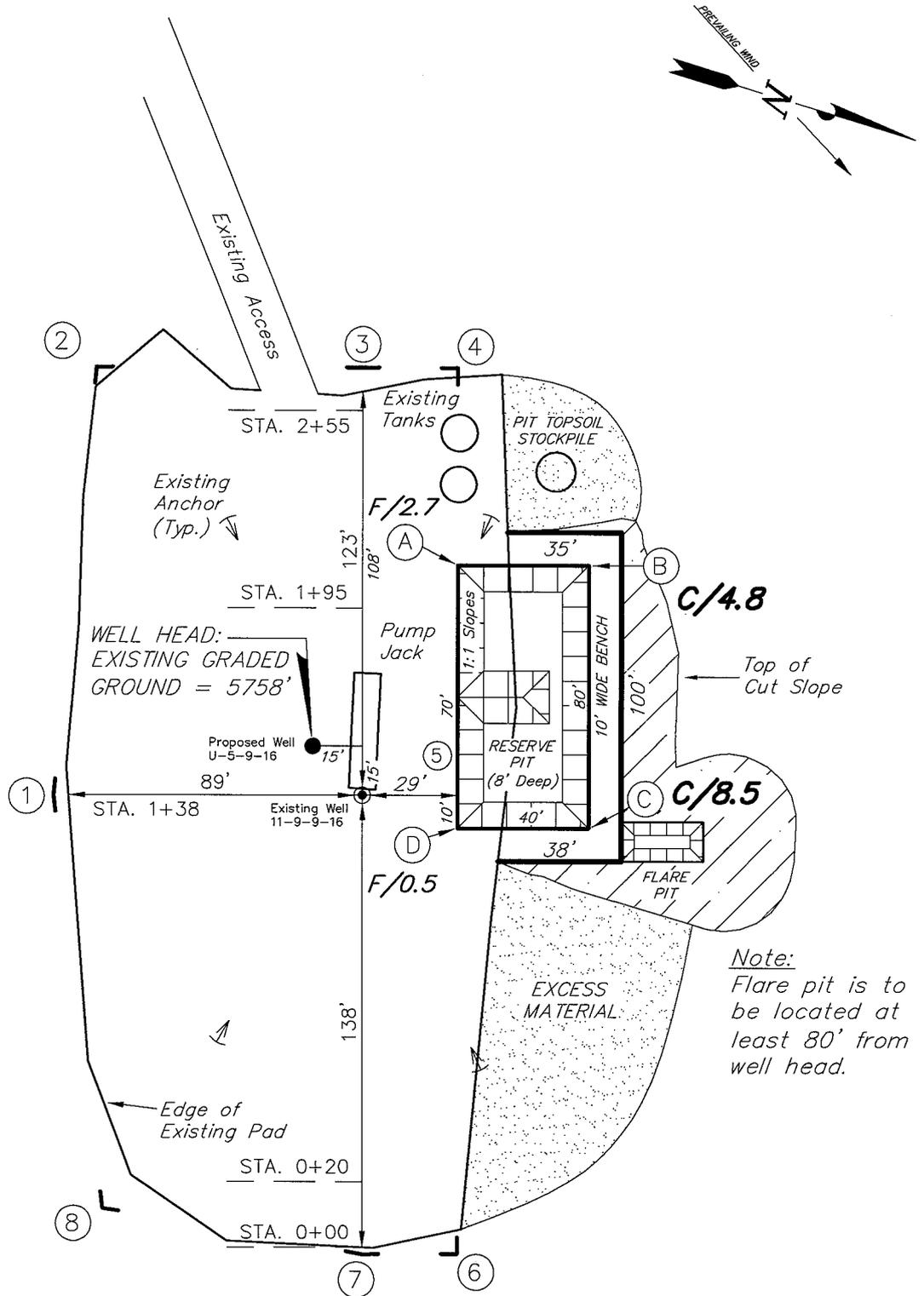
**Tri State** (435) 781-2501  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD PRODUCTION COMPANY

SOUTH WELLS DRAW U-5-9-16 (Proposed Well)

SOUTH WELLS DRAW 11-9-9-16 (Existing Well)

Pad Location: NWNW Section 9, T9S, R16E, S.L.B.&M.



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

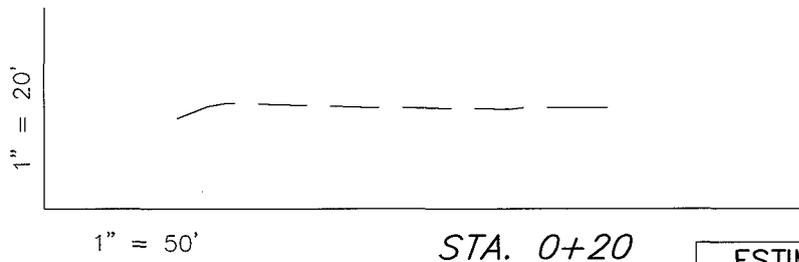
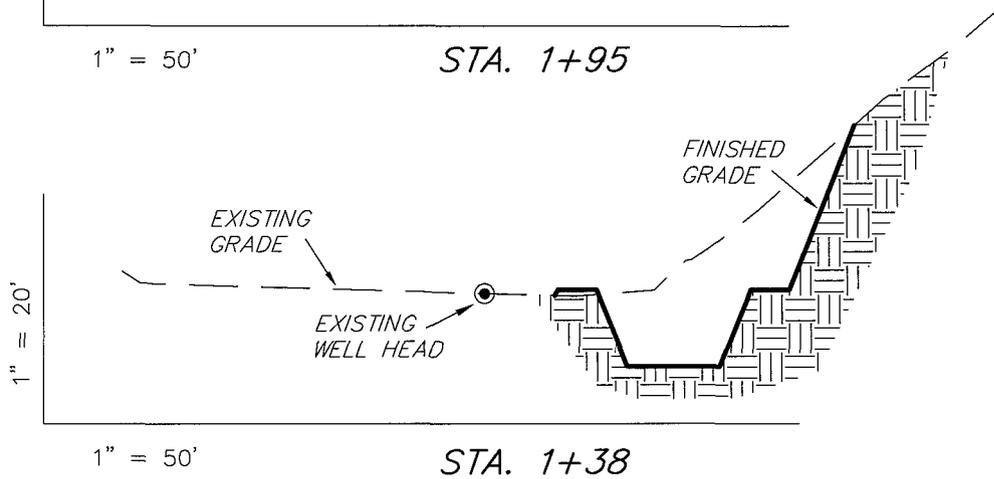
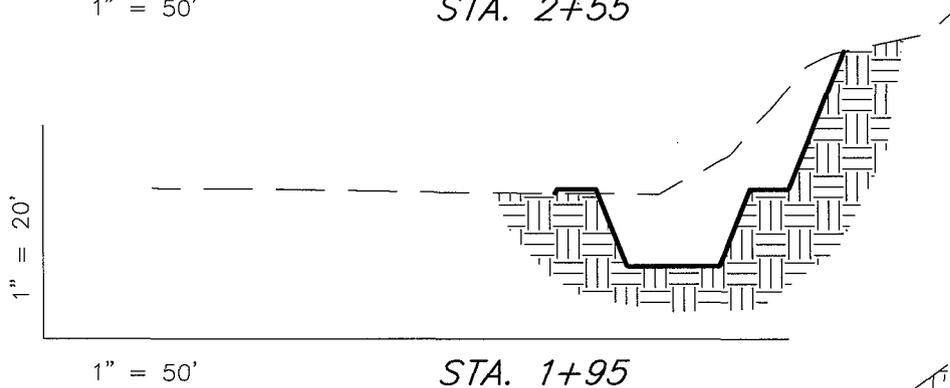
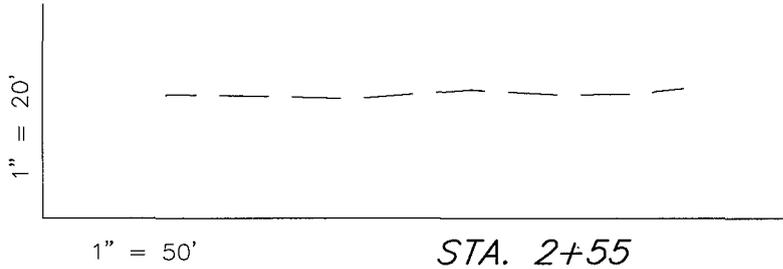
SURVEYED BY: T.H.	DATE SURVEYED: 02-07-08	<p style="text-align: right;">(435) 781-2501</p>
DRAWN BY: F.T.M.	DATE DRAWN: 02-18-08	
SCALE: 1" = 50'	REVISED:	
		180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS

SOUTH WELLS DRAW U-5-9-16 (Proposed Well)

SOUTH WELLS DRAW 11-9-9-16 (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	1,580	30	Topsoil is not included in Pad Cut	1,550
PIT	640	0		640
TOTALS	2,220	30	180	2,190

SURVEYED BY: T.H. DATE SURVEYED: 02-07-08  
DRAWN BY: F.T.M. DATE DRAWN: 02-18-08  
SCALE: 1" = 50' REVISED:

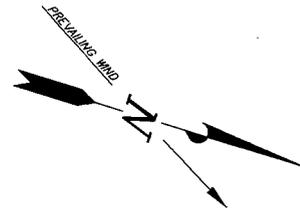
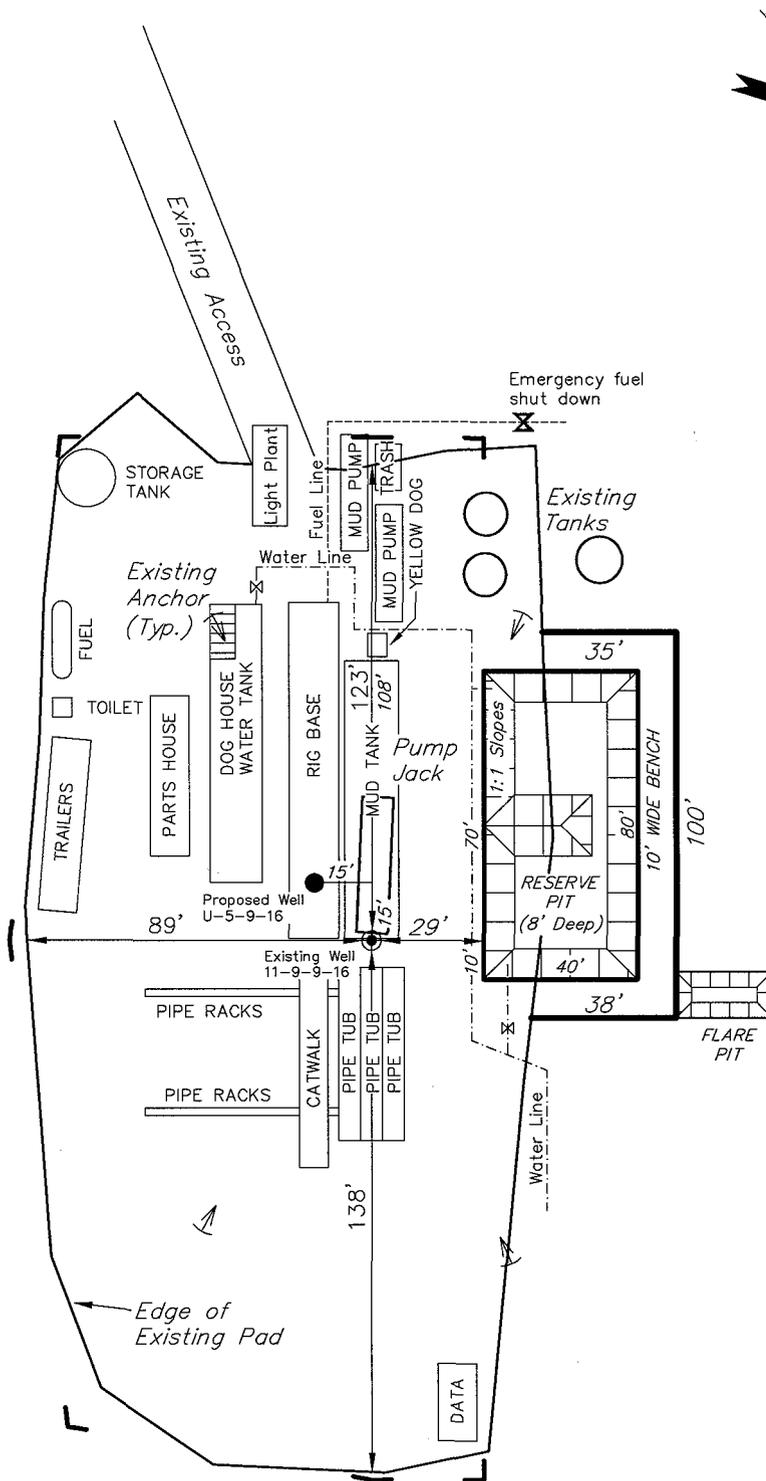
**Tri State** (435) 781-2501  
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180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD PRODUCTION COMPANY

## TYPICAL RIG LAYOUT

SOUTH WELLS DRAW U-5-9-16 (Proposed Well)

SOUTH WELLS DRAW 11-9-9-16 (Existing Well)



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

SURVEYED BY: T.H.	DATE SURVEYED: 02-07-08
DRAWN BY: F.T.M.	DATE DRAWN: 02-18-08
SCALE: 1" = 50'	REVISED:

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

# Lowfield Production Company Proposed Site Facility Diagram

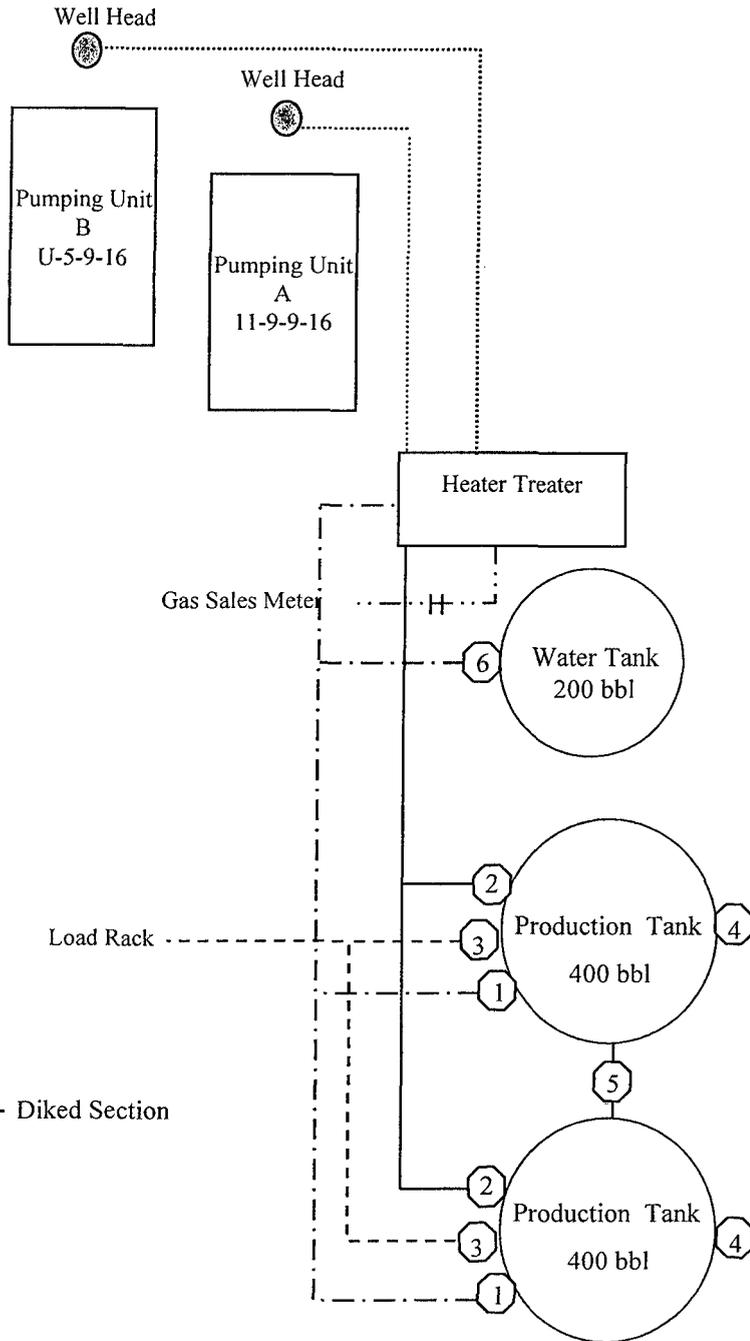
South Wells Draw Federal U-5-9-16

From the 11-9-9-16 Location

NW/NW Sec. 9 T9S, R16E

Duchesne County, Utah

UTU-73086



Site Security Plan is held at the Pleasant Valley Office, Duchesne County, Utah

**Production Phase:**

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

**Sales Phase:**

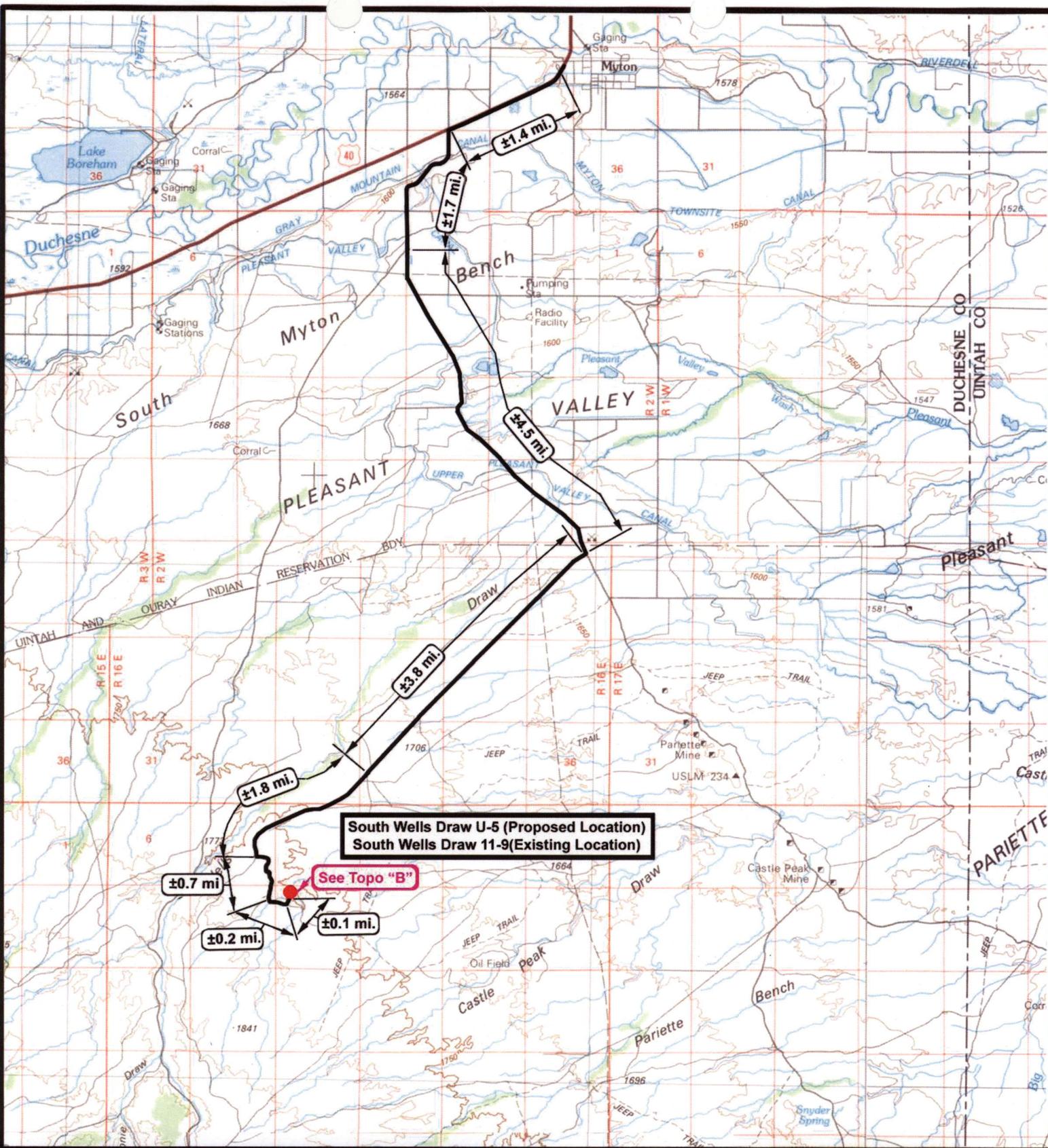
- 1) Valves 1, 2, 4, 5, and 6 sealed closed
- 2) Valve 3 open

**Draining Phase:**

- 1) Valves 1 and 6 open

**Legend**

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



South Wells Draw U-5 (Proposed Location)  
 South Wells Draw 11-9 (Existing Location)

See Topo "B"

**NEWFIELD**  
 Exploration Company

**South Wells Draw U-5-9-16 (Proposed Location)**  
**South Wells Draw 11-9-9-16 (Existing Location)**  
 Pad Location NWNW Sec. 9, T9S, R16E, S.L.B.&M.



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 Land Surveying Inc.  
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 180 North Vernal Ave. Vernal, Utah 84078

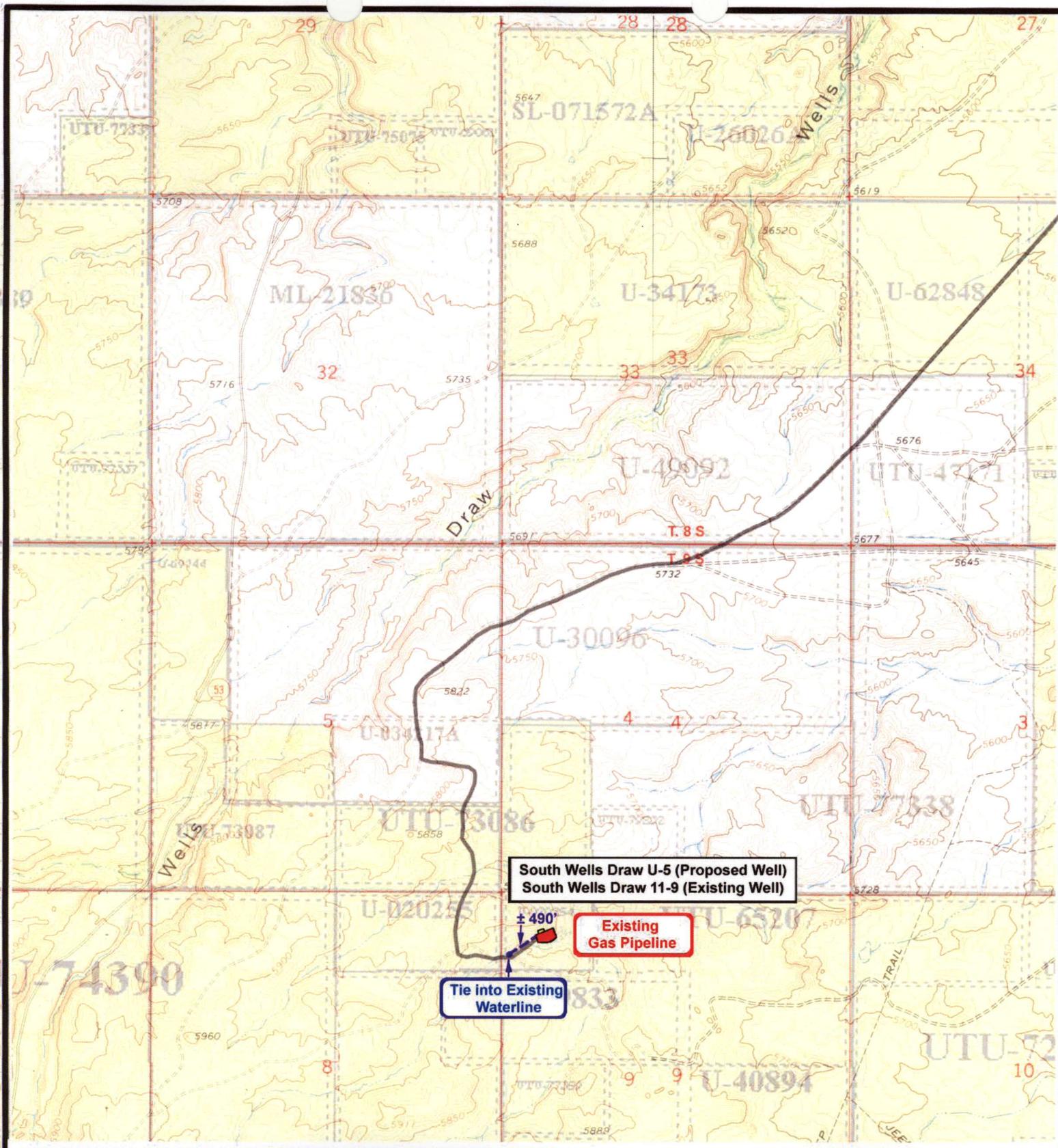
SCALE: 1:100,000  
 DRAWN BY: nc  
 DATE: 02-20-2008

**Legend**

Existing Road

TOPOGRAPHIC MAP  
**"A"**





South Wells Draw U-5 (Proposed Well)  
 South Wells Draw 11-9 (Existing Well)

Existing Gas Pipeline

Tie into Existing Waterline

± 490'

**NEWFIELD**  
Exploration Company

**South Wells Draw U-5-9-16 (Proposed Well)**  
**South Wells Draw 11-9-9-16 (Existing Well)**  
 Pad Location: NWNW SEC. 9, T9S, R16E, S.L.B.&M.



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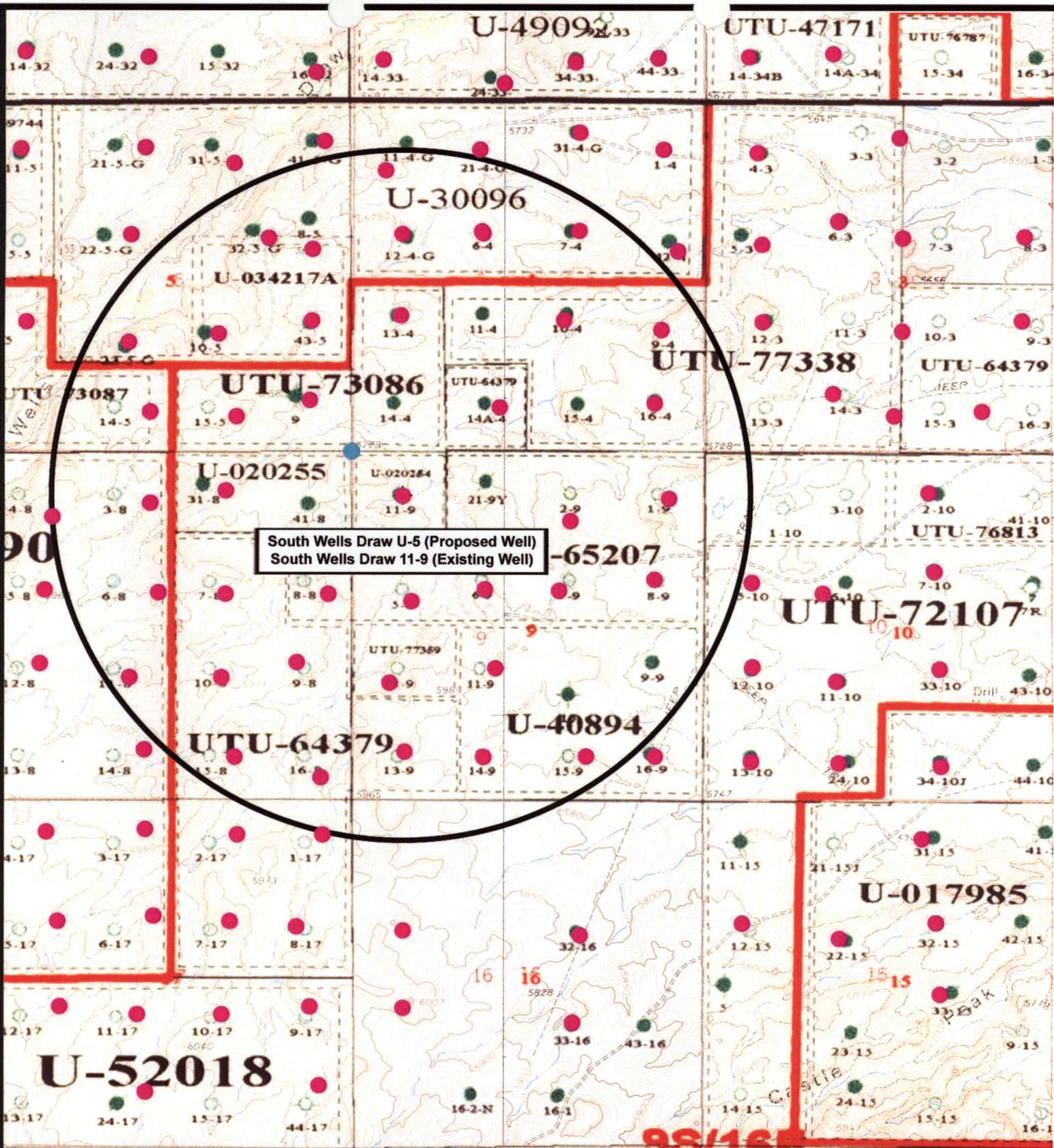
SCALE: 1" = 2,000'  
 DRAWN BY: nc  
 DATE: 02-20-2008

**Legend**

- Roads
- Proposed Water Line

TOPOGRAPHIC MAP  
**"C"**





**South Wells Draw U-5-9-16 (Proposed Well)**  
**South Wells Draw 11-9-9-16 (Existing Well)**  
 Pad Location: NWNW SEC. 9, T9S, R16E, S.L.B.&M.



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

SCALE: 1" = 2,000'  
 DRAWN BY: nc  
 DATE: 02-20-2008

**Legend**

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

**Exhibit "B"**

# 2-M SYSTEM

Blowout Prevention Equipment Systems

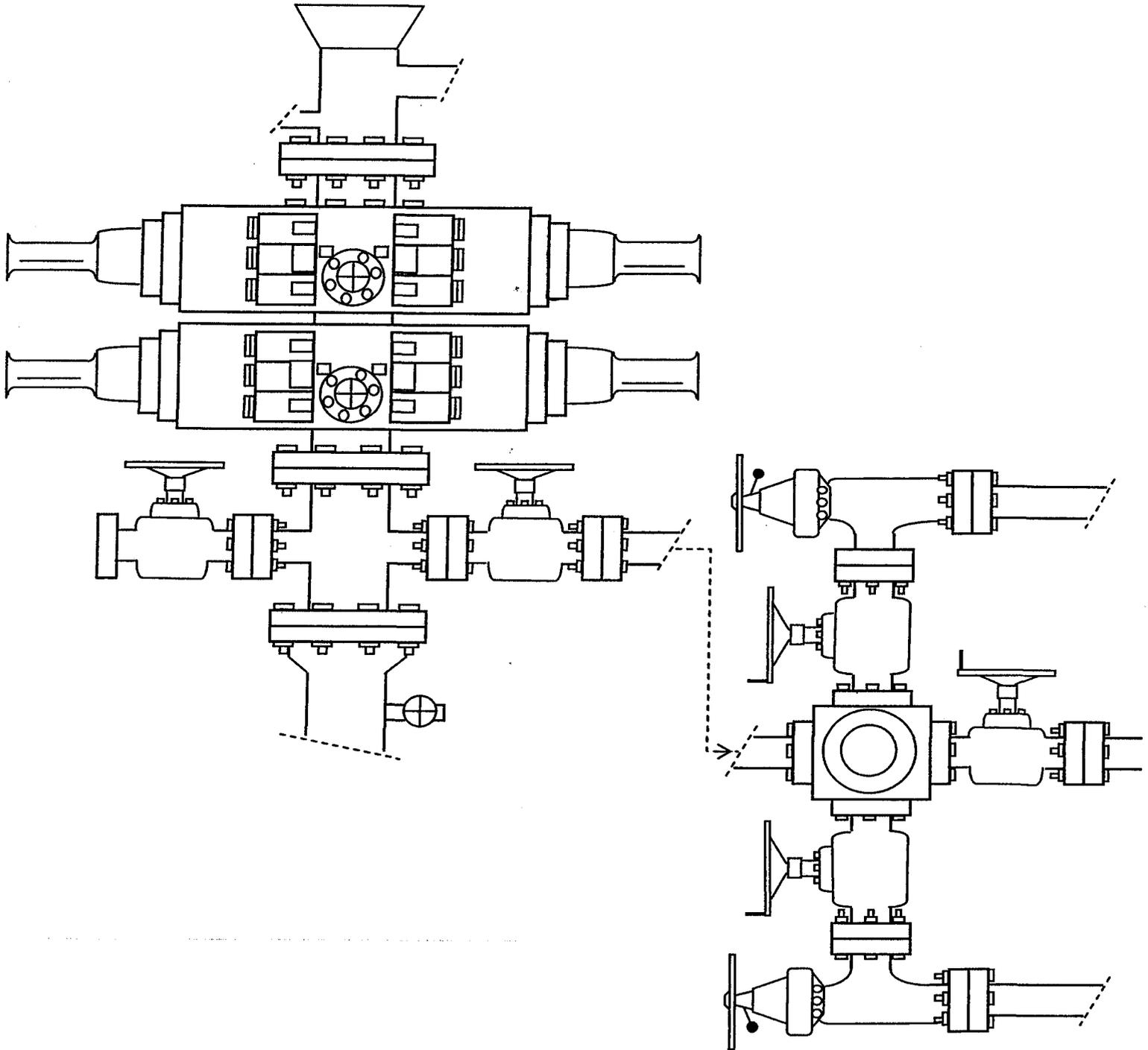


EXHIBIT C

**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 05/06/2008

API NO. ASSIGNED: 43-013-33981

WELL NAME: S WELLS DRAW FED U-5-9-16  
 OPERATOR: NEWFIELD PRODUCTION ( N2695 )  
 CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

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

*SE SE*

NWNW 09 090S 160E  
 SURFACE: 0697 FNL 0647 FWL  
 BOTTOM: 0060 FSL 0120 FEL *Sec 5*  
 COUNTY: DUCHESNE  
 LATITUDE: 40.05069 LONGITUDE: -110.1309  
 UTM SURF EASTINGS: 574138 NORTHINGS: 4433535  
 FIELD NAME: MONUMENT BUTTE ( 105 )

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: UTU-73086  
 SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. WYB000493 )
- 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:

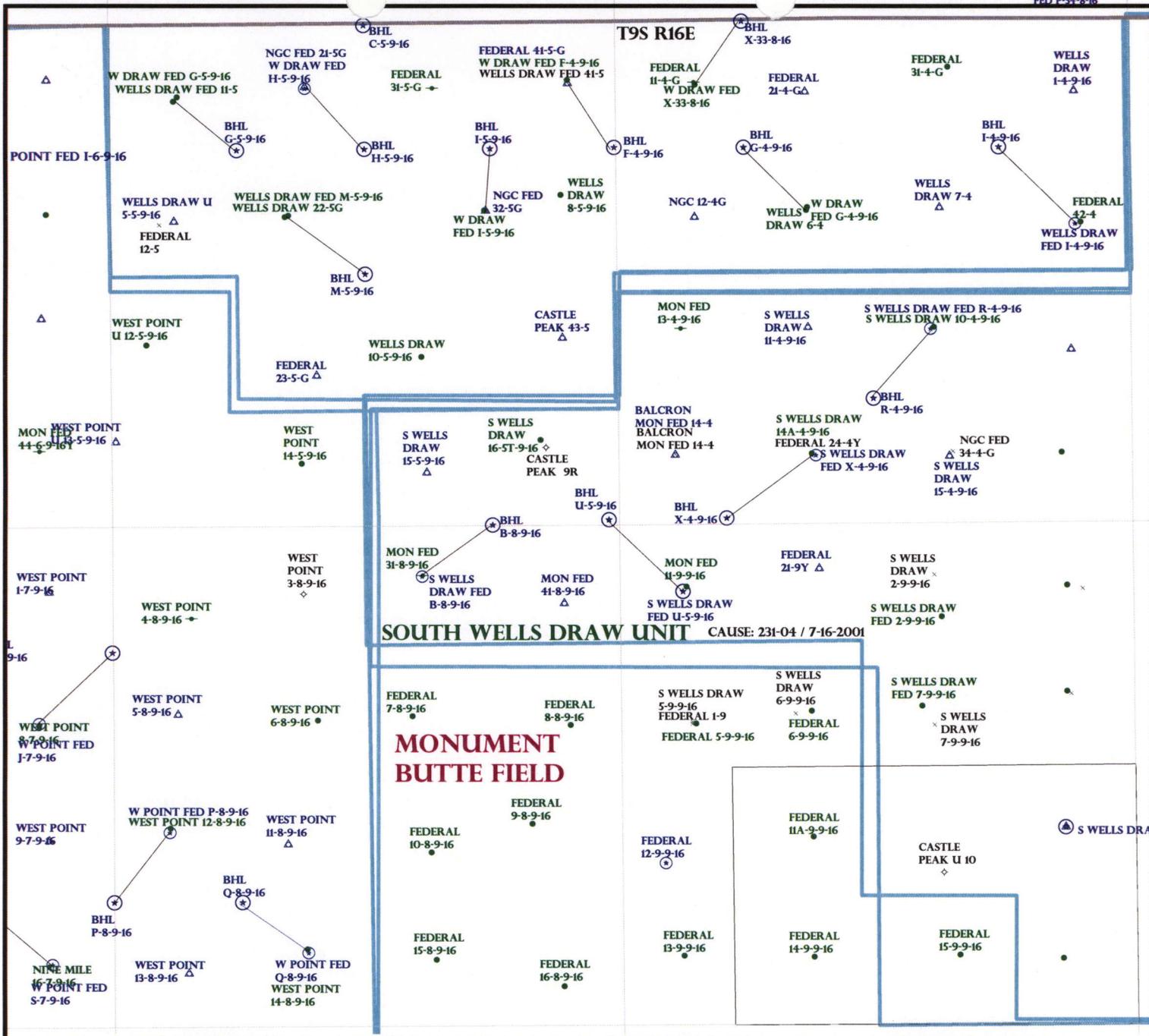
- R649-2-3.
- Unit: SOUTH WELLS DRAW (GR)
- R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit  
Board Cause No: 231-04  
Eff Date: 7-16-2006  
Siting: Suspends General Siting
- R649-3-11. Directional Drill

COMMENTS:

*See Separate file*

STIPULATIONS:

*1. Federal Approval*



OPERATOR: NEWFIELD PROD CO (N2695)

SEC: 9 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: 06-MAY-2008

# 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)

May 8, 2008

Memorandum

To: Assistant District Manager Minerals, Vernal District  
From: Michael Coulthard, Petroleum Engineer  
Subject: 2008 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 well is planned for calendar year 2008 within the South Wells Draw Unit, Duchesne County, Utah.

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

(Proposed PZ Green River)

43-013-33981	So Wells Draw Fed U-5-9-16	Sec 9 T09S R16E 0697 FNL 0647 FWL
		BHL Sec 5 T09S R16E 0060 FSL 0120 FEL

We have no objections to permitting the well 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:5-8-08



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

May 8, 2008

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

Re: South Wells Draw Federal U-5-9-16 Well, Surface Location 697' FNL, 647' FWL, NW NW, Sec. 9, T. 9 South, R. 16 East, Bottom Location 60' FSL, 120' FEL, SE SE, Sec. 5, 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 43-013-33981.

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 U-5-9-16  
**API Number:** 43-013-33981  
**Lease:** UTU-73086

**Surface Location:** NW NW      **Sec. 9**      **T. 9 South**      **R. 16 East**  
**Bottom Location:** SE SE      **Sec. 5**      **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

2008 MAY 6 PM 12 35

Form 3160-3  
(September 2001)

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR DEPT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT BUREAU OF LAND MGMT

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-73086
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 U-5-9-16
3b. Phone No. (include area code) (435) 646-3721		9. API Well No. 43 013 33981
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NW/NW 697' FNL 647' FWL Sec. 9, T9S R16E At proposed prod. zone 60' FSL 120' FEL Sec. 5, T9S R16E <b>SESE</b>		10. Field and Pool, or Exploratory Monument Butte
14. Distance in miles and direction from nearest town or post office* Approximatley 15.1 miles southwest of Myton, Utah		11. Sec., T., R., M., or Blk. and Survey or Area Sec. 9, T9S R16E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 60' f/lse, 1260' f/unit	16. No. of Acres in lease 160.00	12. County or Parish Duchesne
17. Spacing Unit dedicated to this well 20 Acres	13. State UT	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1540'	19. Proposed Depth 6230'	20. BLM/BIA Bond No. on file WYB000493
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5758' GL	22. Approximate date work will start* 3rd Quarter 2008	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 4/22/08
-------------------	--	-----------------

Title  
Regulatory Specialist

Approved by (Signature) 	Name (Printed/Typed) James Kevzka	Date AUG 08 2008
-----------------------------	--------------------------------------	---------------------

Title  
Assistant Field Manager  
Lands & Mineral Resources  
Office  
VERNAL FIELD OFFICE

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

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

NOS 03-21-2008  
AFMSS# 08PPO677A

RECEIVED  
AUG 12 2008  
DIV. OF OIL, GAS & MINING



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

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



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

<b>Company:</b>	<b>Newfield Production Company</b>	<b>Location:</b>	<b>NWNW, Sec 9, T9S, R16E</b>
<b>Well No:</b>	<b>South Wells Draw Federal U-5-9-16</b>	<b>Lease No:</b>	<b>UTU-73086</b>
<b>API No:</b>	<b>43-013-<del>39981</del> 33981</b>	<b>Agreement:</b>	<b>South Wells Draw Unit</b>

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

Fax: (435) 781-3420

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

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

**NOTIFICATION REQUIREMENTS**

Location Construction (Notify 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 COAs**

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

### **Specific Surface COAs**

#### 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 Eagle and/or its habitat from surface disturbing activities in accordance with Section 6 of the lease terms, Endangered Species Act, and 43 CFR 3101.1-2.

#### Comments:

- This project will be a Categorical Exclusion to the Castle Peak and Eight – Mile Flat Oil and Gas Expansion Project EIS (August 2005).
- No raptor nests are within a ½ mile of the Project Area.

### **Follow-up Actions and/or Recommendations:**

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

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

### **CONDITIONS OF APPROVAL:**

- Pipelines will be buried at all major drainage crossings. For all pipelines crossing streams and/or floodplains, consult "Hydraulic Considerations for Pipelines Crossing Stream Channels" Tech Note 423 (<ftp://ftp.blm.gov/pub/nstc/TechNotes/TechNote423.pdf>).
- All traffic related to this action will be restricted to approved routes. Cross-country vehicle travel will not be allowed.
- All pipelines (surface and buried) will be laid within one 50' wide construction ROW, on one side of the road, and will reduce down to a 30' wide permanent ROW on lease.
- A temporary road ROW will not be granted. The road ROW will be 30 foot for construction and will reduce to an 18 foot running surface.

- The access road will be crowned and ditched. Flat-bladed roads are not allowed. All roads will have an 18', crowned (2 to 3% minimum), running surface. All roads will have drainage ditches along both sides of road.
- No vehicle travel, construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support vehicles and/or construction equipment. If such equipment creates ruts in excess of three inches deep, the soil shall be deemed too wet to adequately support construction equipment.
- If additional erosion occurs during the life of this project, more culverts, low water crossings, berms, wing ditches or etc. will be needed to control the erosion.
- Low-water crossings will be appropriately constructed to avoid sedimentation of drainage ways and other water resources.
- Prevent fill and stock piles from entering drainages.
- To insure impermeability, the reserve pit will be lined with a 16 ml or greater liner and felt prior to spudding.
- The liner is to be cut 5 feet below ground surface or at the level of the cuttings, whichever is deeper, and the excess liner material is to be disposed of at an authorized disposal site.
- When the reserve pit contains fluids or toxic substances, the operator must ensure animals do not ingest or become entrapped in pit fluids.
- Any hydrocarbons in the reserve pit will be removed immediately upon well completion; in accordance with 43 CFR 3162.7-1. Pits must be free of oil and other liquid and solid wastes prior to filling.
- Monument Butte SOP, Section 9.2 - Pit Fencing Minimum Standards - will be strictly adhered to. To include 9.2.2.3 - Corner posts will be cemented and/or braced in such a manner as to keep fence tight at all times.
- The authorized officer may prohibit surface disturbing activities during severe winter conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
- The authorized officer may prohibit surface disturbing activities during wet or muddy conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
- All well facilities not regulated by OSHA will be painted Carlsbad Canyon.
- All boulders with a length or diameter greater than 3 feet, that are found showing at the surface, will be stockpiled for use during final reclamation.
- Notify the Authorized Officer 48 hours prior to surface disturbing activities.
- If Uinta Basin hookless cactus or other special status plants are found, construction will cease and the AO will be notified to determine the appropriate mitigation.
- Within 90 calendar days of the approval date for this Application for Permit to Drill (APD), the operator/lessee shall submit to the Authorized Officer (AO), on Sundry Notice Form 3160-5 (or referenced in approved SOP), a detailed Interim and Final Surface Reclamation Plan for surface

disturbance on well pads, access roads, and pipelines. If Reclamation Plan is acceptable, the AO will provide written approval or concurrence within 30 calendar days of receipt.

**Interim Reclamation:**

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

Seed mix:

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

- All pounds are pure live seed.
  - All seed and mulch will be certified weed free.
  - Rates are set for drill seeding; double rate if broadcasting.
  - Reseeding may be required if initial seeding is not successful.
- Noxious and/or invasive weeds will be controlled along access roads, pipelines, well sites, and all other applicable facilities. Any noxious and/or invasive weeds outbreak, directly attributed to the activities of the Operator, will be the responsibility of the Operator to control. On BLM administered land, a Pesticide Use Proposal (PUP) must be submitted and approved prior to the application of herbicides, pesticides, or other possibly hazardous chemicals.

**Final reclamation:**

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

## **DOWNHOLE CONDITIONS OF APPROVAL**

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

**Newfield Production Co. shall adhere to all referenced requirements in the SOP along with all Oil and Gas rules and requirements listed in the Code of Federal Regulations and all Federal Onshore Oil and Gas Orders. A complete angular deviation and directional survey report shall be submitted to the Vernal BLM field office within 30 days following the completion of the well.**

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

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

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

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

**OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (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.

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

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

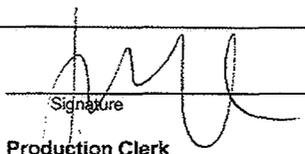
OPERATOR ACCT. NO. N2695

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	11880 ✓	4301334148	BELUGA STATE Q-16-9-17	NESW	16	9S	17E	DUCHESNE	3/26/2009	4/9/09
WELL 1 COMMENTS: GRRV BHL = NESW											
B	99999	13269 ✓	4301333981	SOUTH WELLS DRAW FED U-5-9-16	NWNW	9	9S	16E	DUCHESNE	3/25/2009	4/9/09
WELL 2 COMMENTS: GRRV BHL = Sec 5 SESE											
A	99999	17301	4301334062	MALNAR 13-20-4-1W	SWSW	20	4S	1W	DUCHESNE	3/30/2009	4/9/09
WELL 3 COMMENTS: GRRV											
B	99999	13269 ✓	4301333880	SOUTH WELLS DRAW FEDERAL X-4-9-16	SESW	4	9S	16E	DUCHESNE	4/1/2009	4/9/09
WELL 4 COMMENTS: GRRV BHL = SESW											
WELL 5 COMMENTS:											
WELL 6 COMMENTS:											

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

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 APR 01 2009

DIV. OF OIL, GAS & MINING

  
 Signature \_\_\_\_\_ Jentri Park  
 Production Clerk  
 Date 04/01/09  
 435-646-4843

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. USA UTU-73086
2. Name of Operator NEWFIELD PRODUCTION COMPANY		6. If Indian, Allottee or Tribe Name.
3a. Address    Route 3 Box 3630 Myton, UT 84052	3b. Phone    (include are code) 435.646.3721	7. If Unit or CA/Agreement, Name and/or S WELLS DRAW UNIT
4. Location of Well    (Footage, Sec., T., R., M., or Survey Description) 697 FNL 647 FWL NWNW Section 9/T9S R16E		8. Well Name and No. SOUTH WELLS DRAW FEDERAL U-5-9-16
		9. API Well No. 4301333981
		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 _____ Spud Notice
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	
	<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 recomplate in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 3/26/09 MIRU Ross # 21. Spud well @ 9:00 am. Drill 313' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24 # csgn. Set @ 323.86' KB. On 4/7/09 cement with 160 sks of class "G" w/ 3% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cf/sk yeild. Returned 5 bbls cement to pit. WOC.

I hereby certify that the foregoing is true and correct (Printed/ Typed) Jim Smith	Title Drilling Foreman
Signature	Date 04/13/2009

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

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

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)





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)  
697' FNL 647' FWL  
NWNW Section 9 T9S R16E

5. Lease Serial No.

USA UTU-73086

6. If Indian, Allottee or Tribe Name.

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

8. Well Name and No.  
SOUTH WELLS DRAW FEDERAL U-5-9-16

9. API Well No.  
4301333981

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

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

Jim Smith

Signature

Title

Drilling Foreman

Date

04/13/2009

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

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

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Title

Date

Office

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**RECEIVED**

(Instructions on page 2)

**APR 20 2009**

DIV. OF OIL, GAS & MINING





UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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

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

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
NEWFIELD PRODUCTION COMPANY

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

3b. Phone (include are code)  
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
697' FNL 647' FWL  
NWNW Section 5 T9S R16E

5. Lease Serial No.

USA UTU-73086

6. If Indian, Allottee or Tribe Name.

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

S WELLS DRAW UNIT

8. Well Name and No.

SOUTH WELLS DRAW FEDERAL U-5-9-16

9. API Well No.

4301333981

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	Weekly Status Report
	<input type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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

On 5/3/09 MIRU NDSI Rig # 1. Set all equipment. Pressure test Kelly, TIW, Choke manifold, & Bop's to 2,000 psi. Test 8.625 csgn to 1,500 psi. Vernal BLM field, & Roosevelt DOGM office was notified of test. PU BHA and tag cement @ 280'. Drill out cement & shoe. Drill a 7.875 hole with fresh water to a depth of 6295'. 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, 153 jt's of 5.5 J-55, 15.5# csgn. Set @ 6286.08' / KB. Cement with 300 sks cement mixed @ 11.0 ppg & 3.54 yld. The 400 sks cement mixed @ 14.4 ppg & 1.24 yld. Returned 40 bbls of cement to reserve pit. Nipple down Bop's. Drop slips @ 98,000 #'s tension. Release rig @ 12:00 am 5/10/09.

I hereby certify that the foregoing is true and correct (Printed/ Typed) Don Bastian	Title Drilling Foreman
Signature <i>Don Bastian</i>	Date 05/11/2009

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

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

**RECEIVED**  
MAY 19 2009

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

(Instructions on page 2)

DIV. OF OIL, GAS & MINING





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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
USA UTU-73086

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER

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

8. WELL NAME and NUMBER: U-59-14  
SOUTH WELLS DRAW FEDERAL

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:  
4301333981

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: 697' FNL 647' FWL

COUNTY: DUCHESNE

OTR/OTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNW, <sup>9</sup>/<sub>7</sub>, T9S, R16E

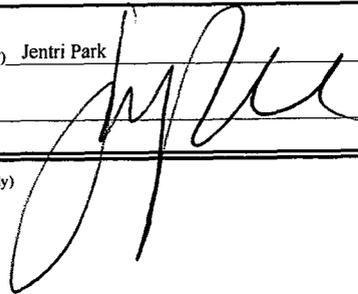
STATE: UT

**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>07/23/2009</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 06/04/09, attached is a daily completion status report.

NAME (PLEASE PRINT) Jentri Park TITLE Production Clerk

SIGNATURE  DATE 07/23/2009

(This space for State use only)

**RECEIVED**  
**JUL 30 2009**  
DIV. OF OIL, GAS & MINING

**Daily Activity Report**

Format For Sundry

**S WELLS DRW U-5-9-16****4/1/2009 To 8/30/2009****5/21/2009 Day: 1****Completion**

Rigless on 5/21/2009 - (5-22-09) CBL & shot 1st stage. 148 BWTR. - (5-22-09) 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 @ 6218' & cement top @ 32'. Perforate stage #1. CP2 sds @ 5884- 91' w/ 3 1/8" slick guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 28 shots. 148 BWTR. SIFN.

**Daily Cost:** \$0**Cumulative Cost:** \$10,834**5/28/2009 Day: 2****Completion**

Rigless on 5/28/2009 - (5-28-09) MIRU Bj Services & Perforators LLC WLT, Crane & lubricator. Frac stage 1 & 2. - (5-28-09) Stage #1, CP2 sands. RU BJ Services. 0 psi on well. Broke down @ 3765 psi @ 2.6 BPM w/4.1 bbls of wtr. ISIP 1359 psi, FG .67. 1 min 976 psi, 4 min 630 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Frac CP2 sds w/ 19,931#'s of 20/40 sand in 340 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2090 psi @ ave rate of 27.4 BPM. Pumped 504 gals of 15% HCL in flush for Stage #2. ISID 1904 psi, 5 min 1699 psi, 10 min 1628 psi, 15 min 1576 psi. Leave pressure on well. 488 BWTR. - Stage #2, CP1 sands. RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 8' perf gun. Set plug @ 5850'. Perforate CP1 sds @ 5812-20' w/ 3-1/8" Slick Guns w/ 4 spf for total of 32 shots. RU BJ Services. 1300 psi on well. Broke down @ 3172 psi @ 3.3 BPM w/ 1.9 bbls of wtr. ISIP 1714 psi, 1 min 1636 psi, 4 min 1595 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Frac CP1 sds w/ 24,805#'s of 20/40 sand in 377 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2075 psi @ ave rate of 27.3 BPM. Pumped 504 gals of 15% HCL in flush for Stage #3. ISID 2121 psi, 5 min 1834 psi, 10 min 1711 psi, 15 min 1658 psi. Leave pressure on well. 865 BWTR.

**Daily Cost:** \$0**Cumulative Cost:** \$14,526**5/29/2009 Day: 3****Completion**

Rigless on 5/29/2009 - (5-29-09) Frac remaining 4 stages. Flowback well. - Stage #4, B2 sands. RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 8' perf gun. Set plug @ 5280'. Perforate B2 sds @ 5212-20', 5344- 58' w/ 3-1/8" Slick Guns w/ 4 spf for total of 32 shots. RU BJ Services. 1515 psi on well. Broke down @ 2512 psi @ 3 BPM w/ 1.3 bbls of wtr. ISIP 1835 psi, 1 min 1640 psi, 4 min 1601 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Frac B2 sds w/ 24,698#'s of 20/40 sand in 364 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2143 psi @ ave rate of 26.2 BPM. Pumped 504 gals of 15% HCL in flush for Stage #5. ISID 2058 psi, 5 min 1896 psi, 10 min 1843 psi, 15 min 1803 psi. Leave pressure on well. 1822 BWTR. - (5-29-09) Stage #3, A1 sands. RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug, 7' & 14' perf gun. Set plug @ 5440'. Perforate A1 sds @ 5363-70', 5344- 58' w/ 3-1/8" Slick Guns w/ 4 spf for total of 84 shots. RU BJ Services. 925 psi on well. Broke down @ 2191 psi @ 4.0 BPM w/ 1.3 bbls of wtr. No ISIP, 1 min or 4 min due to low pressure. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Frac A1 sds w/ 71,697#'s of 20/40 sand in 620 bbls of Lightning 17 fluid. Treated w/

ave pressure of 1755 psi @ ave rate of 26.3 BPM. Pumped 504 gals of 15% HCL in flush for Stage #4. ISID 2278 psi, 5 min 2120 psi, 10 min 2021 psi, 15 min 1933 psi. Leave pressure on well. 1485 BWTR. - Stage #6, D1 & DS3 sands. RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug, 6' & 18 perf gun. Set plug @ 4970'. Perforate D1 sds @ 4910-16', DS3 sds @ 4850- 68' w/ 3-1/8" Slick Guns w/ 4 spf for total of 96 shots. RU BJ Services. 1670 psi on well. Broke down @ 2514 psi @ 3.5 BPM w/ 1 bbl of wtr. ISIP 1845 psi, 1 min 1768 psi, 4 min 1702 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Frac D1 & DS3 sds w/ 97,338#'s of 20/40 sand in 745 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1991 psi @ ave rate of 26.2 BPM. ISID 2205 psi, 5 min 2118 psi, 10 min 2067 psi, 15 min 2013 psi. Begin flowback on 20/64 choke @ 3 BPM. Flowed for 6 hrs & died. Rec 983 BTF. SIWFN w/ 1161 BWTR. - Stage #5, D3 sands. RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 6' perf gun. Set plug @ 5090'. Perforate D3 sds @ 5022-28' w/ 3-1/8" Slick Guns w/ 4 spf for total of 24 shots. RU BJ Services. 1630 psi on well. Broke down @ 3826 psi @ 3 BPM w/ 5.4 bbls of wtr. ISIP 1934 psi, 1 min 1818 psi, 4 min 1771 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Frac D3 sds w/ 25,367#'s of 20/40 sand in 322 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2126 psi @ ave rate of 26 BPM. Pumped 504 gals of 15% HCL in flush for Stage #6. ISID 2005 psi, 5 min 1806 psi, 10 min 1785 psi, 15 min 1772 psi. Leave pressure on well. 2144 BWTR.

**Daily Cost:** \$0

**Cumulative Cost:** \$150,248

#### 6/2/2009 Day: 4

#### Completion

Nabors #1111 on 6/2/2009 - (6-1-09) MIRU Nabors 1111. Set kill plug @ 4800'. Change out BOP & WH. Talley, PU & TIH w/ 136 jts of tbg. - RU Perforators WLT, mast & lubricator. 350 psi on well. RIH w/ Weatherford 5 1/2" composite solid kill plug. Set plug @ 4800'. Bleed off pressure. ND Cameron BOP & 5M WH. NU 3M WH & Schaffer BOP. Talley, PU & RIH w/ 4 3/4" bit, bit sub & 136 jts of 2 7/8" tbg. SIWFN w/ 1161 BWTR. - (6-2-09) Continue to PU & RIH w/ tbg. Tagged sand @ 4790'. RU pumpline & power swivel. Circulate well & drill out plugs. Kill plug @ 4800' (Drill out in 70 mins). Tagged sand @ 4840', Plug @ 4970' (Drilled out in 55 mins). Tagged sand @ 5010', Plug @ 5090' (Drilled out in 52 mins). Tagged sand @ 5240', Plug @ 5280' (Drilled up in 54 mins). Tagged sand @ 5400', Plug @ 5440' (Drilled out in 48 mins). Tagged sand @ 5835', Plug @ 5850' (Drilled up in 50 mins). Tagged fill @ 6154'. C/O to PBDT @ 6244'. Circulate well clean. RD power swivel. SIWFN. - (6-2-09) Continue to PU & RIH w/ tbg. Tagged sand @ 4790'. RU pumpline & power swivel. Circulate well & drill out plugs. Kill plug @ 4800' (Drill out in 70 mins). Tagged sand @ 4840', Plug @ 4970' (Drilled out in 55 mins). Tagged sand @ 5010', Plug @ 5090' (Drilled out in 52 mins). Tagged sand @ 5240', Plug @ 5280' (Drilled up in 54 mins). Tagged sand @ 5400', Plug @ 5440' (Drilled out in 48 mins). Tagged sand @ 5835', Plug @ 5850' (Drilled up in 50 mins). Tagged fill @ 6154'. C/O to PBDT @ 6244'. Circulate well clean. RD power swivel. SIWFN. - RU Perforators WLT, mast & lubricator. 350 psi on well. RIH w/ Weatherford 5 1/2" composite solid kill plug. Set plug @ 4800'. Bleed off pressure. ND Cameron BOP & 5M WH. NU 3M WH & Schaffer BOP. Talley, PU & RIH w/ 4 3/4" bit, bit sub & 136 jts of 2 7/8" tbg. SIWFN w/ 1161 BWTR. - Road rig to location, Spot in & level up rig. - Road rig to location, Spot in & level up rig. - (6-1-09) Tbg board support line was broke. Move rig ahead. Replace tbg board line. - (6-1-09) Tbg board support line was broke. Move rig ahead. Replace tbg board line.

**Daily Cost:** \$0

**Cumulative Cost:** \$159,898

#### 6/3/2009 Day: 6

#### Completion

Nabors #1111 on 6/3/2009 - Swab & flow well. Trip for production tbg. Land tbg. - 50 psi on tbg, 150 psi on csg. RU swab equipment. IFL @ surface, Made 6 runs. Well begin flowing.

Flowed for 4 hrs. Recovered 229 BTF. RD swab equipment. Pumped 60 bbls of wtr down tbg. TIH w/ tbg. Tagged sand @ 6238'. C/O to PBD @ 6244'. LD extra tbg. TOH w/ tbg. TIH w/ production tbg as follows: NC, 2-jts, SN, 1 jt, 5 1/2" TA, 188- jts of tbg. ND BOP. Set TA @ 5876' w/ 18,000#'s, SN @ 5910', EOT @ 5975'. NU WH. SIWFN w/ 992 BWTR.

**Daily Cost:** \$0

**Cumulative Cost:** \$174,958

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**6/5/2009 Day: 7**

**Completion**

Nabors #1111 on 6/5/2009 - PU Rods. POP (6-4-09) @ 2:55 PM @ 4 SPM w/ 120" SL 1054 BWTR. - Pump 60 bbls of wtr down tbg. PU & RIH w/ "A" grade rod string as follows: CDI: 2 1/2" X 1 3/4" X 24' RHAC, 4- 1 1/2" wt bars, 231- 7 /8" guide rod (8 per), 2' X 7/8" pony, 1 1/2" X 30'. Fill tbg w/ 2 BW. Hang head, Space out rods. Pressure test to 800 psi. RDMO. POP @ 2:55 PM (6-4-09) 4 SPM w/ 120" SL. 1054 BWTR. FINAL REPORT!!! **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$216,998

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**Pertinent Files: Go to File List**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

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

5. Lease Serial No.  
UTU-73086

6. If Indian, Allottee or Tribe Name  
NA

7. Unit or CA Agreement Name and No.  
SOUTH WELLS DRAW

2. Name of Operator  
NEWFIELD EXPLORATION COMPANY

8. Lease Name and Well No.  
SWD FEDERAL U-5-9-16

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

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

9. AFI Well No.  
43-013-33981

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

10. Field and Pool or Exploratory  
MONUMENT BUTTE

At surface <sup>697</sup> 670' FNL & 647' FWL (NW/NW) SEC. <sup>9</sup> 8, T9S, R16E

11. Sec., T., R., M., on Block and Survey or Area  
SEC. 8, T8S, R16E

At top prod. interval reported below BHL: 60' FSL & 120' FEL (SE/SE)

12. County or Parish  
DUCHESNE

13. State  
UT

At total depth 6295' <sup>0176 FSL 0241 FEL SESE S-9 T09S R16E</sup>

14. Date Spudded  
03/26/2009

15. Date T.D. Reached  
05/09/2009

17. Elevations (DF, RKB, RT, GL)\*  
5758' GL 5770' KB

18. Total Depth: MD 6295'  
TVD 6140'

19. Plug Back T.D.: MD 6244'  
TVD 6096'

20. Depth Bridge Plug Set: MD  
TVD

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

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

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24#		324'		160 CLASS G			
7-7/8"	5-1/2" J-55	15.5#		6286'		300 PRIMLITE		32'	
						400 50/50 POZ			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8"	EOT@ 5975'	TA @5876'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GREEN RIVER			(CP2) 5884-5891'	.49"	4	28
B) GREEN RIVER			(CP1) 5812-5820'	.49"	4	32
C) GREEN RIVER			(A1) 5363-70, 5344-58'	.49"	4	84
D) GREEN RIVER			(B2) 5212-20'	.49"	4	32

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

Depth Interval	Amount and Type of Material
5884-5891'	Frac CP2 sds w/ 19,931#'s of 20/40 sand in 340 bbls of Lightning 17 fluid.
5812-5820'	Frac CP1 sds w/ 24,805#'s of 20/40 sand in 377 bbls of Lightning 17 fluid.
5344-5370'	Frac A1 sds w/ 71,697#'s of 20/40 sand in 620 bbls of Lightning 17 fluid.
5121-5220'	Frac B2 sds w/ 24,698#'s of 20/40 sand in 364 bbls of Lightning 17 fluid

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
06/04/09	06/28/09	24	→	74	53	4			CDI: 2 1/2" X 1 3/4" X 24' RHAC
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	PRODUCING
			→						

28a. Production - Interval B

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

RECEIVED  
JUL 14 2009

DIV. OF OIL, GAS & MINING

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

28b. Production - Interval C

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

28c. Production - Interval D

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

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

USED FOR FUEL

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GARDEN GULCH MRK GARDEN GULCH 1	3837' 4059'
				GARDEN GULCH 2 POINT 3	4177' 4441'
				X MRKR Y MRKR	4713' 4751'
				DOUGALS CREEK MRK BI CARBONATE MRK	4875' 5119'
				B LIMESTON MRK CASTLE PEAK	5235' 5769'
				BASAL CARBONATE TOTAL DEPTH (LOGGERS)	6221' 6281'

32. Additional remarks (include plugging procedure):

STAGE 5: Perforate D3 sds @ 5022-28' w/ 3-1/8" Slick Guns w/ 4 spf for total of 24 shots. Frac D3 sds w/ 25,367#s of 20/40 sand in 322 bbls of Lightning 17 fluid.

STAGE 6: Perforate D1 sds @ 4910-16', DS3 sds @ 4850- 68' w/ 3-1/8" Slick Guns w/ 4 spf for total of 96 shots. Frac D1 & DS3 sds w/ 97,338#s of 20/40 sand in 745 bbls of Lightning 17 fluid.

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

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

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

Name (please print) Tammi Lee Title Production Clerk  
 Signature *Tammi Lee* Date 07/01/2009

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



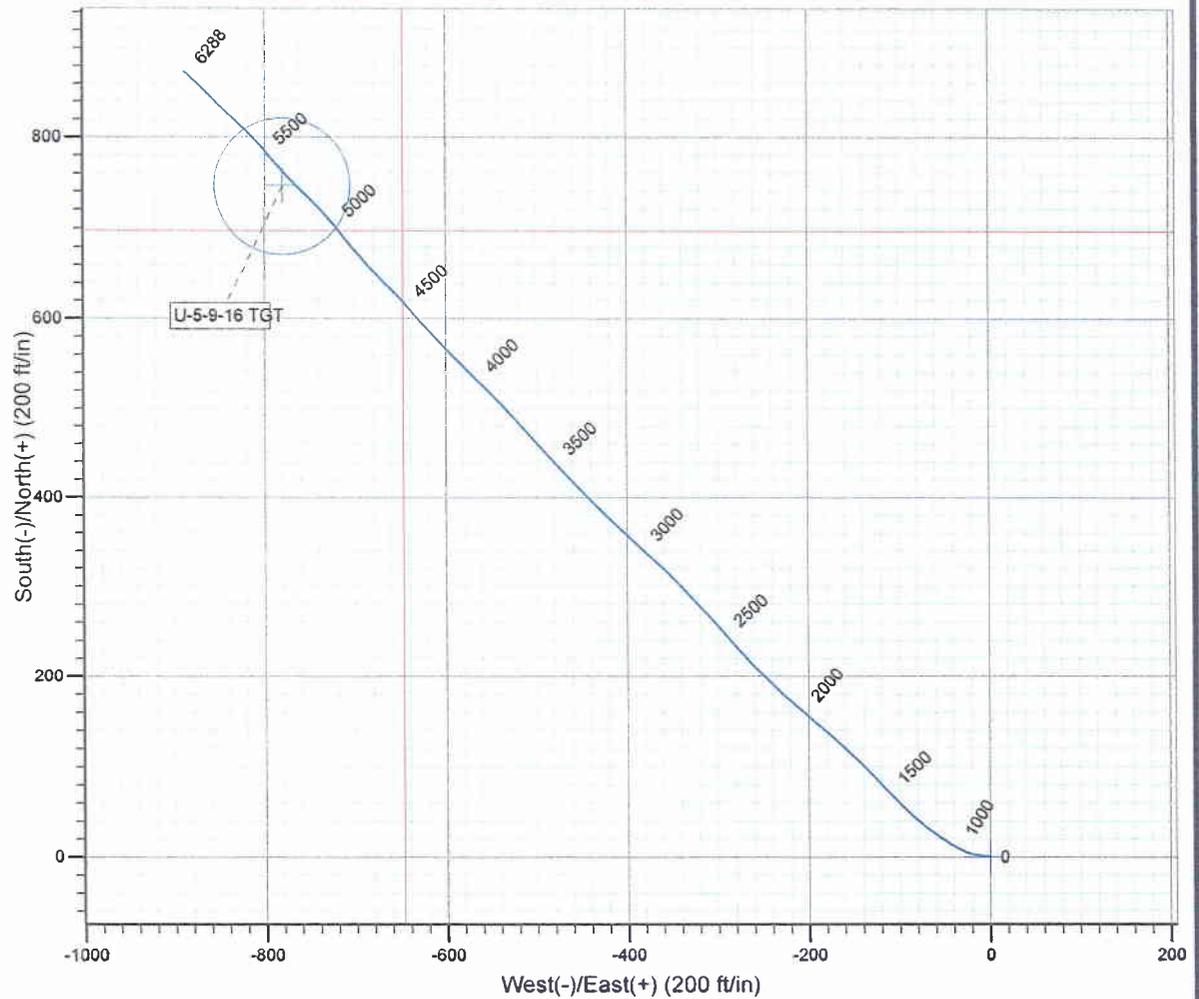
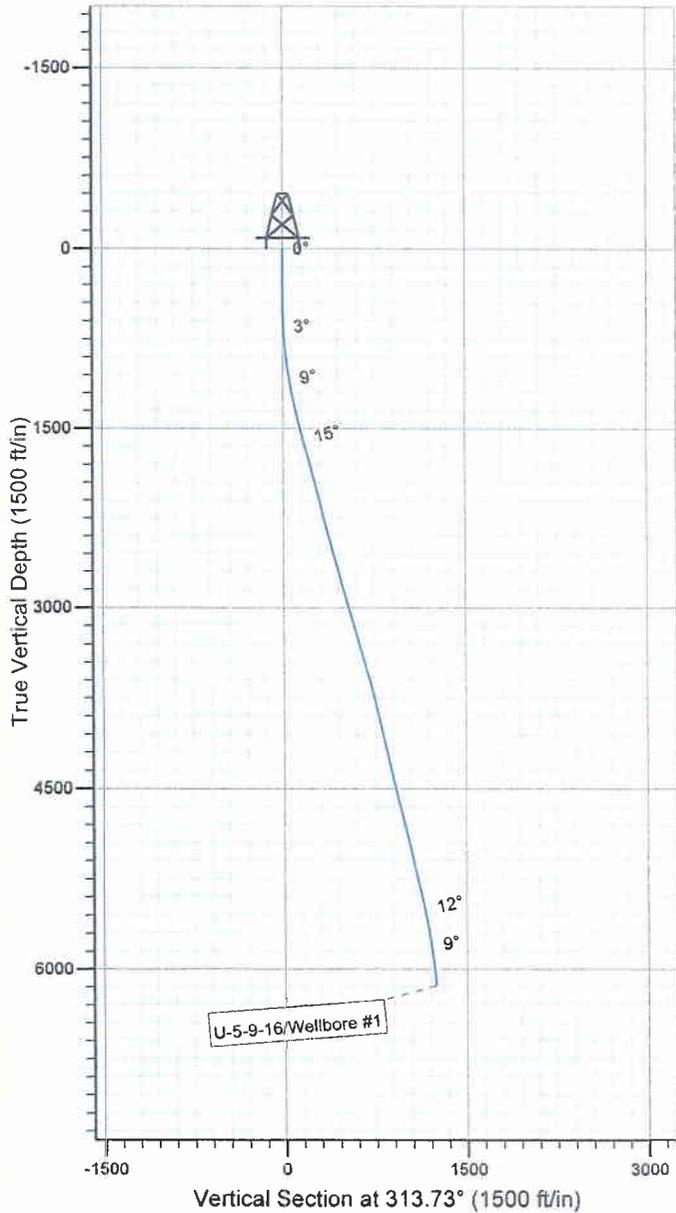
Project: USGS Myton SW (UT)  
 Site: SECTION 5  
 Well: U-5-9-16  
 Wellbore: Wellbore #1  
 SURVEY: Wellbore #1

FINAL SURVEY REPORT



Azimuths to Grid North  
 True North:  $-0.88^\circ$   
 Magnetic North:  $10.74^\circ$

Magnetic Field  
 Strength: 52511.9nT  
 Dip Angle:  $65.85^\circ$   
 Date: 2009/03/17  
 Model: IGRF200510



Design: Wellbore #1 (U-5-9-16/Wellbore #1)

Created By: *Tom Hudson* Date: 8:37, May 11 2009

THIS SURVEY IS CORRECT TO THE BEST OF MY  
 KNOWLEDGE AND IS SUPPORTED BY ACTUAL FIELD  
 DATA.

**NEWFIELD**



# **NEWFIELD EXPLORATION**

**USGS Myton SW (UT)**

**SECTION 5**

**U-5-9-16**

**Wellbore #1**

**Survey: Survey #1**

## **Standard Survey Report**

**11 May, 2009**

**HATHAWAY HB BURNHAM**  
DIRECTIONAL & MWD SERVICES



# HATHAWAY BURNHAM

## Survey Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 5  
**Well:** U-5-9-16  
**Wellbore:** Wellbore #1  
**Design:** Wellbore #1

**Local Co-ordinate Reference:** Well U-5-9-16  
**TVD Reference:** U-5-9-16 @ 5770.0ft (RIG #1)  
**MD Reference:** U-5-9-16 @ 5770.0ft (RIG #1)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

<b>Project</b>	USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA		
<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		Using geodetic scale factor

<b>Site</b>	SECTION 5, SEC 5 T8S, R16E				
<b>Site Position:</b>		<b>Northing:</b>	7,198,917.07 ft	<b>Latitude:</b>	40° 4' 30.000 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,019,727.79 ft	<b>Longitude:</b>	110° 8' 40.000 W
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"	<b>Grid Convergence:</b>	0.87 °

<b>Well</b>	U-5-9-16, SHL LAT: 40 03 02.57 , LONG: -110 04 53.29 SEC 9					
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>	7,190,127.01 ft	<b>Latitude:</b>	40° 3' 2.570 N
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b>	2,023,493.51 ft	<b>Longitude:</b>	110° 7' 53.290 W
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	0.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF200510	2009/03/17	11.62	65.85	52,512

<b>Design</b>	Wellbore #1				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.0	0.0	0.0	313.73	

<b>Survey Program</b>	Date 2009/05/11				
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
363.0	6,288.0	Survey #1 (Wellbore #1)	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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
<b>U-5-9-16 SECTION LINES</b>										
363.0	0.26	104.89	363.0	-0.2	0.8	-0.7	0.07	0.07	0.00	
394.0	0.15	128.93	394.0	-0.3	0.9	-0.8	0.44	-0.35	77.55	
425.0	0.13	245.76	425.0	-0.3	0.9	-0.9	0.77	-0.06	376.87	
456.0	0.46	282.19	456.0	-0.3	0.7	-0.7	1.17	1.06	117.52	
486.0	0.94	294.69	486.0	-0.2	0.4	-0.4	1.67	1.60	41.67	
517.0	1.41	291.77	517.0	0.1	-0.2	0.2	1.53	1.52	-9.42	
548.0	1.76	285.27	548.0	0.4	-1.0	1.0	1.27	1.13	-20.97	
578.0	2.26	281.99	578.0	0.6	-2.0	1.9	1.71	1.67	-10.93	
609.0	2.77	278.15	608.9	0.8	-3.4	3.0	1.73	1.65	-12.39	
640.0	3.41	274.61	639.9	1.0	-5.0	4.3	2.15	2.06	-11.42	
670.0	3.81	275.71	669.8	1.2	-6.9	5.8	1.35	1.33	3.67	



Company: NEWFIELD EXPLORATION  
 Project: USGS Myton SW (UT)  
 Site: SECTION 5  
 Well: U-5-9-16  
 Wellbore: Wellbore #1  
 Design: Wellbore #1

Local Co-ordinate Reference: Well U-5-9-16  
 TVD Reference: U-5-9-16 @ 5770.0ft (RIG #1)  
 MD Reference: U-5-9-16 @ 5770.0ft (RIG #1)  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Database: EDM 2003.21 Single 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)
701.0	4.15	279.25	700.7	1.5	-9.0	7.5	1.35	1.10	11.42
732.0	4.58	277.34	731.7	1.8	-11.4	9.5	1.46	1.39	-6.16
762.0	5.05	278.04	761.6	2.1	-13.9	11.5	1.58	1.57	2.33
793.0	5.65	279.62	792.4	2.6	-16.7	13.9	1.99	1.94	5.10
824.0	6.06	282.06	823.3	3.2	-19.8	16.5	1.55	1.32	7.87
854.0	6.56	286.36	853.1	4.0	-23.0	19.4	2.29	1.67	14.33
885.0	6.90	291.80	883.9	5.2	-26.4	22.7	2.33	1.10	17.55
916.0	7.17	295.19	914.6	6.7	-29.9	26.3	1.60	0.87	10.94
948.0	7.60	297.86	946.4	8.5	-33.6	30.2	1.72	1.34	8.34
980.0	8.04	300.27	978.1	10.7	-37.4	34.4	1.71	1.38	7.53
1,011.0	8.28	302.03	1,008.8	12.9	-41.2	38.7	1.12	0.77	5.68
1,042.0	8.66	302.53	1,039.4	15.4	-45.0	43.2	1.25	1.23	1.61
1,074.0	9.25	303.02	1,071.0	18.1	-49.2	48.1	1.86	1.84	1.53
1,105.0	9.98	303.88	1,101.6	20.9	-53.5	53.2	2.40	2.35	2.77
1,137.0	10.52	305.61	1,133.1	24.2	-58.2	58.8	1.94	1.69	5.41
1,168.0	10.90	306.82	1,163.5	27.6	-62.9	64.5	1.42	1.23	3.90
1,198.0	11.29	307.44	1,193.0	31.1	-67.5	70.2	1.36	1.30	2.07
1,230.0	11.54	309.33	1,224.3	35.0	-72.4	76.5	1.41	0.78	5.91
1,262.0	11.73	310.38	1,255.7	39.1	-77.4	83.0	0.89	0.59	3.28
1,292.0	12.00	311.60	1,285.0	43.2	-82.0	89.1	1.23	0.90	4.07
1,323.0	12.22	312.67	1,315.4	47.5	-86.9	95.6	1.01	0.71	3.45
1,355.0	12.39	313.83	1,346.6	52.2	-91.8	102.5	0.94	0.53	3.63
1,386.0	12.74	314.49	1,376.9	56.9	-96.7	109.2	1.22	1.13	2.13
1,417.0	13.12	315.66	1,407.1	61.8	-101.6	116.1	1.49	1.23	3.77
1,449.0	13.56	316.20	1,438.2	67.1	-106.7	123.5	1.43	1.38	1.69
1,480.0	13.95	316.45	1,468.3	72.5	-111.8	130.9	1.27	1.26	0.81
1,511.0	14.28	316.49	1,498.4	77.9	-117.0	138.4	1.06	1.06	0.13
1,542.0	14.68	316.45	1,528.4	83.6	-122.3	146.2	1.29	1.29	-0.13
1,636.0	15.49	315.33	1,619.2	101.1	-139.4	170.6	0.92	0.86	-1.19
1,730.0	15.64	312.32	1,709.7	118.6	-157.6	195.8	0.87	0.16	-3.20
1,824.0	15.07	310.89	1,800.4	135.1	-176.2	220.7	0.73	-0.61	-1.52
1,918.0	14.61	310.43	1,891.2	150.8	-194.4	244.7	0.51	-0.49	-0.49
2,013.0	13.82	310.95	1,983.3	166.0	-212.1	268.0	0.84	-0.83	0.55
2,107.0	14.00	312.54	2,074.6	181.1	-229.0	290.6	0.45	0.19	1.69
2,201.0	13.48	315.65	2,165.9	196.6	-245.0	312.9	0.96	-0.55	3.31
2,293.0	13.40	316.62	2,255.4	212.0	-259.8	334.3	0.26	-0.09	1.05
2,387.0	15.40	318.73	2,346.4	229.3	-275.5	357.6	2.20	2.13	2.24
2,480.0	14.85	317.52	2,436.2	247.4	-291.7	381.8	0.68	-0.59	-1.30
2,574.0	15.40	317.57	2,526.9	265.5	-308.3	406.3	0.59	0.59	0.05
2,667.0	14.52	317.19	2,616.8	283.1	-324.5	430.2	0.95	-0.95	-0.41
2,760.0	14.50	317.35	2,706.8	300.2	-340.4	453.5	0.05	-0.02	0.17
2,854.0	15.54	314.05	2,797.6	317.7	-357.4	477.8	1.43	1.11	-3.51
2,948.0	16.33	313.04	2,888.0	335.4	-376.1	503.6	0.89	0.84	-1.07
3,041.0	15.78	313.41	2,977.4	353.0	-394.8	529.4	0.60	-0.59	0.40
3,135.0	16.02	314.32	3,067.8	370.9	-413.4	555.1	0.37	0.26	0.97
3,229.0	15.25	314.36	3,158.3	388.6	-431.5	580.4	0.82	-0.82	0.04
3,323.0	16.58	317.44	3,248.7	407.1	-449.4	606.2	1.68	1.41	3.28
3,417.0	16.15	317.28	3,338.9	426.6	-467.4	632.6	0.46	-0.46	-0.17
3,511.0	15.80	315.79	3,429.2	445.4	-485.2	658.5	0.57	-0.37	-1.59
3,604.0	15.80	318.62	3,518.7	464.0	-502.4	683.7	0.83	0.00	3.04
3,698.0	15.71	319.30	3,609.2	483.2	-519.1	709.1	0.22	-0.10	0.72
3,791.0	14.19	317.22	3,699.1	501.1	-535.1	733.0	1.73	-1.63	-2.24
3,885.0	13.01	314.56	3,790.4	517.0	-550.4	755.1	1.42	-1.26	-2.83
3,979.0	13.33	314.89	3,881.9	532.1	-565.7	776.5	0.35	0.34	0.35

Company: NEWFIELD EXPLORATION  
 Project: USGS Myton SW (UT)  
 Site: SECTION 5  
 Well: U-5-9-16  
 Wellbore: Wellbore #1  
 Design: Wellbore #1

Local Co-ordinate Reference: Well U-5-9-16  
 TVD Reference: U-5-9-16 @ 5770.0ft (RIG #1)  
 MD Reference: U-5-9-16 @ 5770.0ft (RIG #1)  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Database: EDM 2003.21 Single 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)
4,073.0	12.48	315.00	3,973.6	546.9	-580.5	797.5	0.90	-0.90	0.12
4,166.0	13.32	315.41	4,064.2	561.6	-595.1	818.3	0.91	0.90	0.44
4,260.0	14.57	317.27	4,155.4	578.0	-610.8	840.9	1.41	1.33	1.98
4,354.0	13.56	319.81	4,246.6	595.1	-625.9	863.7	1.26	-1.07	2.70
4,448.0	12.79	318.47	4,338.2	611.3	-639.9	885.0	0.88	-0.82	-1.43
4,541.0	12.68	315.90	4,428.9	626.4	-653.8	905.5	0.62	-0.12	-2.76
4,635.0	13.71	315.46	4,520.4	641.7	-668.8	926.9	1.10	1.10	-0.47
4,729.0	13.27	316.49	4,611.8	657.5	-684.1	948.8	0.53	-0.47	1.10
4,822.0	13.71	320.07	4,702.2	673.7	-698.5	970.4	1.01	0.47	3.85
4,916.0	14.72	321.35	4,793.3	691.6	-713.1	993.3	1.13	1.07	1.36
5,010.0	13.71	316.89	4,884.5	709.0	-728.2	1,016.3	1.58	-1.07	-4.74
5,104.0	12.79	315.57	4,976.0	724.6	-743.1	1,037.8	1.03	-0.98	-1.40
5,197.0	12.41	314.34	5,066.7	738.9	-757.4	1,058.1	0.50	-0.41	-1.32
5,291.0	12.44	316.25	5,158.5	753.3	-771.6	1,078.3	0.44	0.03	2.03
5,331.5	12.73	317.35	5,198.0	759.7	-777.7	1,087.1	0.93	0.72	2.72
<b>U-5-9-16 TGT</b>									
5,385.0	13.12	318.73	5,250.2	768.6	-785.7	1,099.1	0.93	0.73	2.58
5,479.0	12.81	319.28	5,341.8	784.5	-799.5	1,120.1	0.35	-0.33	0.59
5,572.0	12.52	315.94	5,432.5	799.6	-813.3	1,140.4	0.85	-0.31	-3.59
5,666.0	11.32	315.41	5,524.5	813.5	-826.8	1,159.8	1.28	-1.28	-0.56
5,759.0	9.98	310.82	5,615.9	825.3	-839.3	1,177.0	1.70	-1.44	-4.94
5,853.0	9.42	316.25	5,708.6	836.1	-850.8	1,192.8	1.14	-0.60	5.78
5,947.0	8.83	316.69	5,801.4	846.9	-861.1	1,207.7	0.63	-0.63	0.47
6,040.0	7.25	315.77	5,893.5	856.3	-870.1	1,220.7	1.70	-1.70	-0.99
6,134.0	6.07	314.62	5,986.8	864.1	-877.7	1,231.6	1.26	-1.26	-1.22
6,233.0	4.79	309.31	6,085.4	870.4	-884.7	1,240.9	1.39	-1.29	-5.36
6,288.0	4.50	308.84	6,140.2	873.2	-888.1	1,245.4	0.53	-0.53	-0.85

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
U-5-9-16 TGT	0.00	0.00	5,200.0	746.1	-779.8	7,190,872.99	2,022,713.78	40° 3' 10.059 N	110° 8' 3.170 W
- hit/miss target									
- Shape									
- survey misses by 14.0ft at 5331.5ft MD (5198.0 TVD, 759.7 N, -777.7 E)									
- Circle (radius 75.0)									

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

H HEADER INFORMATION -----  
H COMPANY : NEWFIELD EXPLORATION  
H FIELD : USGS Myton SW (UT)  
H SITE : SECTION 5  
H WELL : U-5-9-16  
H WELLPATH: Wellbore #1  
H DEPTHUNT: ft  
H SURVDATE: 5/11/2009  
H DECLINATION CORR.

H = 10.74 TO GRIDH-----

H WELL INFORMATION  
H WELL EW MAP : 2023494  
H WELL NS MAP : 7190127  
H DATUM ELEVN : 5770  
H VSECT ANGLE : 313.73  
H VSECT NORTH : 0  
H VSECT EAST : 0

H-----  
H SURVEY TYPE INFORMATION  
H 363 - 6288 SURVEY #1 : MWD  
H-----

H	SURVEY	LIST	TVD	NS	EW	VS	DLS
MD	INC	AZI					
	0	0	0	0	0	0	0
	363	0.26	104.89	363	-0.21	0.8	-0.72
	394	0.15	128.93	394	-0.26	0.9	-0.82
	425	0.13	245.76	425	-0.3	0.9	-0.85
	456	0.46	282.19	456	-0.28	0.74	-0.73
	486	0.94	294.69	486	-0.16	0.4	-0.4
	517	1.41	291.77	516.99	0.09	-0.19	0.2
	548	1.76	285.27	547.98	0.36	-1	0.97
	578	2.26	281.99	577.96	0.6	-2.02	1.88
	609	2.77	278.15	608.93	0.84	-3.36	3.01
	640	3.41	274.61	639.88	1.02	-5.02	4.33
	670	3.81	275.71	669.82	1.19	-6.9	5.81
	701	4.15	279.25	700.75	1.47	-9.03	7.54
	732	4.58	277.34	731.66	1.81	-11.37	9.47
	762	5.05	278.04	761.55	2.15	-13.86	11.5
	793	5.65	279.62	792.42	2.59	-16.72	13.87
	824	6.06	282.06	823.26	3.19	-19.83	16.53
	854	6.56	286.36	853.07	4	-23.02	19.4
	885	6.9	291.8	883.86	5.19	-26.45	22.7
	916	7.17	295.19	914.63	6.71	-29.93	26.26
	948	7.6	297.86	946.36	8.55	-33.6	30.19
	980	8.04	300.27	978.07	10.66	-37.41	34.4
	1011	8.28	302.03	1008.75	12.94	-41.17	38.7
	1042	8.66	302.53	1039.41	15.38	-45.03	43.17

1074	9.25	303.02	1071.02	18.08	-49.22	48.06	1.86
1105	9.98	303.88	1101.59	20.93	-53.54	53.16	2.4
1137	10.52	305.61	1133.08	24.18	-58.22	58.78	1.94
1168	10.9	306.82	1163.54	27.58	-62.86	64.49	1.42
1198	11.29	307.44	1192.98	31.07	-67.47	70.23	1.36
1230	11.54	309.33	1224.34	35	-72.43	76.53	1.41
1262	11.73	310.38	1255.69	39.14	-77.38	82.97	0.89
1292	12	311.6	1285.04	43.18	-82.04	89.13	1.23
1323	12.22	312.67	1315.35	47.55	-86.86	95.63	1.01
1355	12.39	313.83	1346.62	52.22	-91.83	102.45	0.94
1386	12.74	314.49	1376.88	56.92	-96.66	109.19	1.22
1417	13.12	315.66	1407.09	61.83	-101.56	116.13	1.49
1449	13.56	316.2	1438.23	67.14	-106.7	123.51	1.43
1480	13.95	316.45	1468.34	72.47	-111.79	130.87	1.27
1511	14.28	316.49	1498.4	77.95	-116.99	138.42	1.06
1542	14.68	316.45	1528.42	83.57	-122.33	146.16	1.29
1636	15.49	315.33	1619.18	101.13	-139.36	170.61	0.92
1730	15.64	312.32	1709.73	118.58	-157.56	195.82	0.87
1824	15.07	310.89	1800.38	135.12	-176.16	220.7	0.73
1918	14.61	310.43	1891.24	150.8	-194.43	244.74	0.51
2013	13.82	310.95	1983.33	166.01	-212.12	268.03	0.84
2107	14	312.54	2074.58	181.06	-228.97	290.61	0.45
2201	13.48	315.65	2165.89	196.58	-245.01	312.93	0.96
2293	13.4	316.62	2255.37	211.99	-259.83	334.29	0.26
2387	15.4	318.73	2346.41	229.29	-275.54	357.61	2.2
2480	14.85	317.52	2436.19	247.36	-291.74	381.8	0.68
2574	15.4	317.57	2526.93	265.46	-308.29	406.27	0.59
2667	14.52	317.19	2616.78	283.13	-324.55	430.23	0.95
2760	14.5	317.35	2706.81	300.24	-340.36	453.49	0.05
2854	15.54	314.05	2797.6	317.65	-357.38	477.83	1.43
2948	16.33	313.04	2887.99	335.43	-376.09	503.63	0.89
3041	15.78	313.41	2977.36	353.04	-394.83	529.35	0.6
3135	16.02	314.32	3067.76	370.89	-413.4	555.1	0.37
3229	15.25	314.36	3158.29	388.59	-431.52	580.44	0.82
3323	16.58	317.44	3248.68	407.12	-449.43	606.18	1.68
3417	16.15	317.28	3338.87	426.6	-467.37	632.61	0.46
3511	15.8	315.79	3429.24	445.38	-485.16	658.45	0.57
3604	15.8	318.62	3518.73	463.95	-502.36	683.72	0.83
3698	15.71	319.3	3609.2	483.2	-519.12	709.14	0.22
3791	14.19	317.22	3699.05	501.12	-535.07	733.05	1.73
3885	13.01	314.56	3790.41	517	-550.43	755.13	1.42
3979	13.33	314.89	3881.94	532.07	-565.65	776.54	0.35
4073	12.48	315	3973.57	546.9	-580.51	797.53	0.9
4166	13.32	315.41	4064.22	561.64	-595.14	818.28	0.91
4260	14.57	317.27	4155.45	578.03	-610.76	840.91	1.41
4354	13.56	319.81	4246.63	595.14	-625.9	863.67	1.26
4448	12.79	318.47	4338.15	611.34	-639.91	885	0.88

4541	12.68	315.9	4428.87	626.38	-653.83	905.46	0.62
4635	13.71	315.46	4520.38	641.73	-668.83	926.9	1.1
4729	13.27	316.49	4611.79	657.49	-684.07	948.81	0.53
4822	13.71	320.07	4702.23	673.69	-698.49	970.43	1.01
4916	14.72	321.35	4793.35	691.55	-713.1	993.34	1.13
5010	13.71	316.89	4884.47	709.01	-728.17	1016.3	1.58
5104	12.79	315.57	4975.97	724.58	-743.07	1037.82	1.03
5197	12.41	314.34	5066.73	738.91	-757.42	1058.1	0.5
5291	12.44	316.25	5158.53	753.29	-771.65	1078.31	0.44
5385	13.12	318.73	5250.2	768.62	-785.69	1099.06	0.93
5479	12.81	319.28	5341.8	784.54	-799.52	1120.06	0.35
5572	12.52	315.94	5432.54	799.59	-813.26	1140.39	0.85
5666	11.32	315.41	5524.51	813.49	-826.82	1159.8	1.28
5759	9.98	310.82	5615.91	825.25	-839.33	1176.97	1.7
5853	9.42	316.25	5708.57	836.14	-850.81	1192.79	1.14
5947	8.83	316.69	5801.38	846.94	-861.08	1207.68	0.63
6040	7.25	315.77	5893.46	856.34	-870.07	1220.67	1.7
6134	6.07	314.62	5986.82	864.08	-877.75	1231.57	1.26
6233	4.79	309.31	6085.38	870.38	-884.67	1240.93	1.39
6288	4.5	308.84	6140.2	873.19	-888.13	1245.37	0.53