

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

FORM 3

AMENDED REPORT

<b>APPLICATION FOR PERMIT TO DRILL</b>				<b>1. WELL NAME and NUMBER</b> S Wells Draw Fed S-4-9-16		
<b>2. TYPE OF WORK</b> DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>				<b>3. FIELD OR WILDCAT</b> MONUMENT BUTTE		
<b>4. TYPE OF WELL</b> Oil Well Coalbed Methane Well: NO				<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b> SOUTH WELLS DRAW (GR)		
<b>6. NAME OF OPERATOR</b> NEWFIELD PRODUCTION COMPANY				<b>7. OPERATOR PHONE</b> 435 646-4825		
<b>8. ADDRESS OF OPERATOR</b> Rt 3 Box 3630 , Myton, UT, 84052				<b>9. OPERATOR E-MAIL</b> mcrozier@newfield.com		
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> UTU-77338		<b>11. MINERAL OWNERSHIP</b> FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>		<b>12. SURFACE OWNERSHIP</b> FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>		
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b>				<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b>		
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b>				<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>		
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b>		<b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b> YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>		<b>19. SLANT</b> VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>		
<b>20. LOCATION OF WELL</b>	<b>FOOTAGES</b>	<b>QTR-QTR</b>	<b>SECTION</b>	<b>TOWNSHIP</b>	<b>RANGE</b>	<b>MERIDIAN</b>
LOCATION AT SURFACE	736 FSL 723 FEL	SESE	4	9.0 S	16.0 E	S
Top of Uppermost Producing Zone	1425 FSL 1365 FEL	NWSE	4	9.0 S	16.0 E	S
At Total Depth	1425 FSL 1365 FEL	NWSE	4	9.0 S	16.0 E	S
<b>21. COUNTY</b> DUCHESNE		<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 1215		<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 20		
		<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 1320		<b>26. PROPOSED DEPTH</b> MD: 6290 TVD: 6290		
<b>27. ELEVATION - GROUND LEVEL</b> 5740		<b>28. BOND NUMBER</b> WYB000493		<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> 43-7478		

**ATTACHMENTS**

**VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES**

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP

<b>NAME</b> Mandie Crozier	<b>TITLE</b> Regulatory Tech	<b>PHONE</b> 435 646-4825
<b>SIGNATURE</b>	<b>DATE</b> 06/23/2009	<b>EMAIL</b> mcrozier@newfield.com
<b>API NUMBER ASSIGNED</b> 43013500600000	<b>APPROVAL</b>  Permit Manager	

**Proposed Hole, Casing, and Cement**

<b>String</b>	<b>Hole Size</b>	<b>Casing Size</b>	<b>Top (MD)</b>	<b>Bottom (MD)</b>		
Prod	7.875	5.5	0	6290		
<b>Pipe</b>	<b>Grade</b>	<b>Length</b>	<b>Weight</b>			
	Grade J-55 LT&C	6290	15.5			

**Proposed Hole, Casing, and Cement**

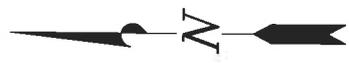
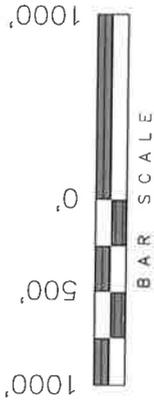
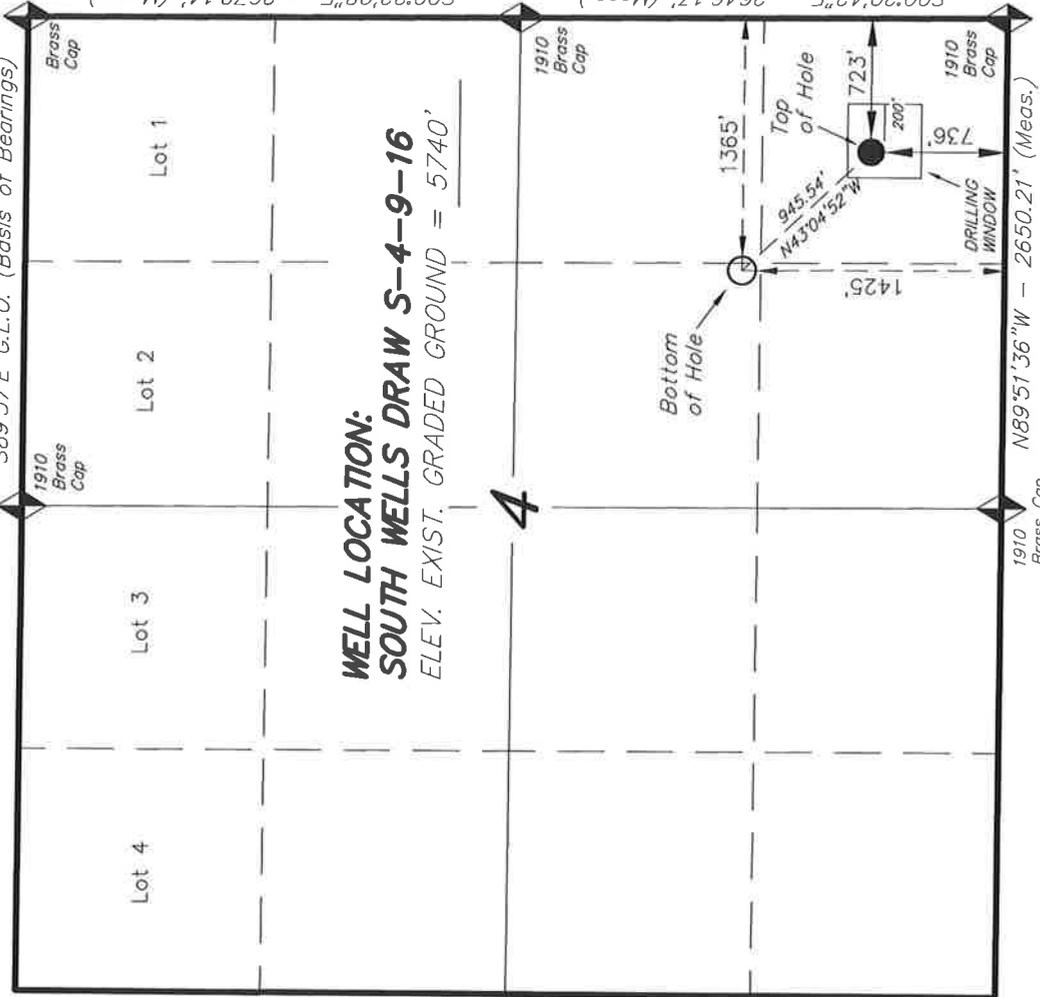
<b>String</b>	<b>Hole Size</b>	<b>Casing Size</b>	<b>Top (MD)</b>	<b>Bottom (MD)</b>		
Surf	12.25	8.625	0	290		
<b>Pipe</b>	<b>Grade</b>	<b>Length</b>	<b>Weight</b>			
	Grade J-55 ST&C	290	24.0			

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

# NEWFIELD PRODUCTION COMPANY

S89°57'E (G.L.O.) 2646.83' (Measured)  
 S89°57'E G.L.O. (Basis of Bearings)

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



S0°2'E - 80.16 (G.L.O.)

S0°12'E - 80.24 (G.L.O.)  
 S00°20'42"E - 2646.13' (Meas.)  
 S00°22'08"E - 2672.14' (Meas.)

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

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

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

DATE SURVEYED: 12-4-08	SURVEYED BY: T.H.
DATE DRAWN: 12-23-08	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

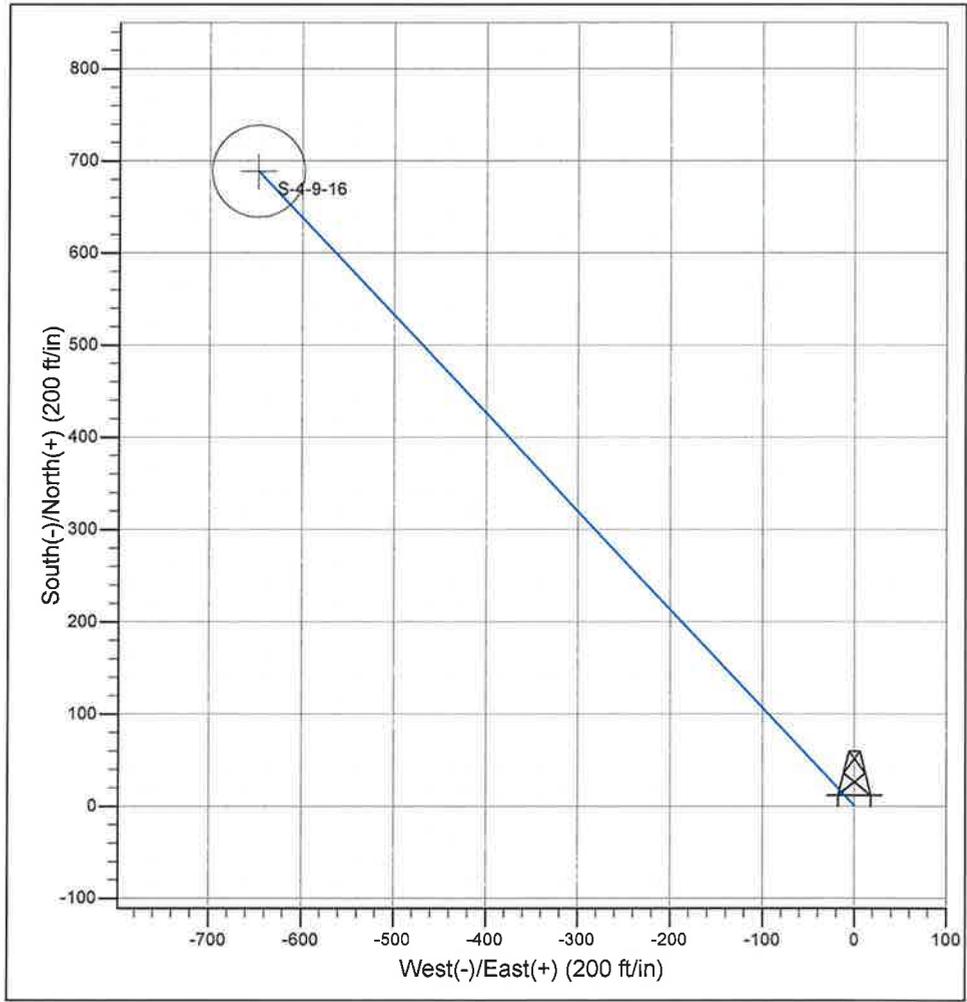
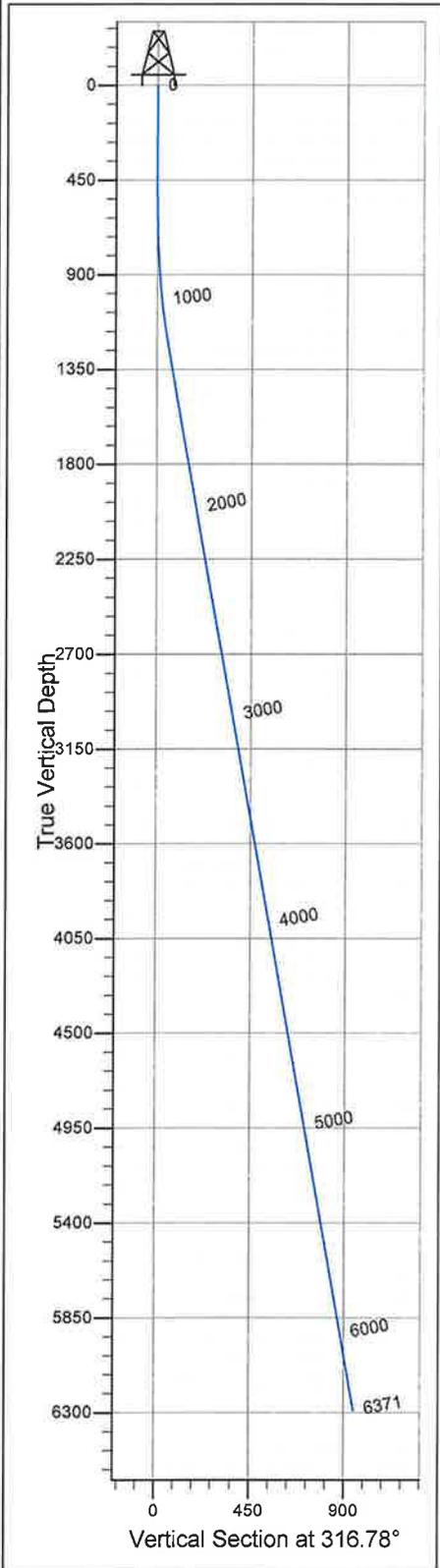
**SOUTH WELLS DRAW S-4-9-16**  
 (Surface Location) NAD 83  
 LATITUDE = 40° 03' 16.60"  
 LONGITUDE = 110° 07' 02.82"

◆ = SECTION CORNERS LOCATED  
 BASIS OF ELEV;  
 U.S.G.S. 7-1/2 min QUAD (MYTON SE)



# Newfield Production Company

**Project: Monument Butte**  
**Site: South Wells Draw S-4-9-16**  
**Well: South Wells Draw S-4-9-16**  
**Wellbore: Wellbore #1**  
**Design: Design #1**



SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target	
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0		
3	1267.5	10.01	316.78	1264.1	42.4	-39.8	1.50	316.78	58.2		
4	6371.1	10.01	316.78	6290.0	689.0	-647.6	0.00	0.00	945.5	S-4-9-16	

**PROJECT DETAILS: Monument Butte**

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

Azimuths to True North  
 Magnetic North: 11.63°

Magnetic Field  
 Strength: 52528.9snT  
 Dip Angle: 65.86°  
 Date: 1/27/2009  
 Model: IGRF200510

**Created by: Hans Wychgram**  
**Date: 01-27-2009**



**Newfield Production Company**  
Planning Report

<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well South Wells Draw S-4-9-16
<b>Company:</b>	Newfield Production Company	<b>TVD Reference:</b>	RKB @ 5752.0ft (NDSI #2)
<b>Project:</b>	Monument Butte	<b>MD Reference:</b>	RKB @ 5752.0ft (NDSI #2)
<b>Site:</b>	South Wells Draw S-4-9-16	<b>North Reference:</b>	True
<b>Well:</b>	South Wells Draw S-4-9-16	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

<b>Project</b>	Monument Butte		
<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 S-4-9-16				
<b>Site Position:</b>		<b>Northing:</b>	2,192,006.13 m	<b>Latitude:</b>	40° 3' 16.600 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	617,951.40 m	<b>Longitude:</b>	110° 7' 2.820 W
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	in	<b>Grid Convergence:</b>	0.89 °

<b>Well</b>	South Wells Draw S-4-9-16					
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>	2,192,006.13 m	<b>Latitude:</b>	40° 3' 16.600 N
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b>	617,951.40 m	<b>Longitude:</b>	110° 7' 2.820 W
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	5,740.0ft

<b>Wellbore</b>	Wellbore #1				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	1/27/2009	11.63	65.86	52,529

<b>Design</b>	Design #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0
<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	316.78

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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,267.5	10.01	316.78	1,264.1	42.4	-39.8	1.50	1.50	0.00	316.78	
6,371.1	10.01	316.78	6,290.0	689.0	-647.6	0.00	0.00	0.00	0.00	S-4-9-16



**Newfield Production Company**  
 Planning Report

<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well South Wells Draw S-4-9-16
<b>Company:</b>	Newfield Production Company	<b>TVD Reference:</b>	RKB @ 5752.0ft (NDSI #2)
<b>Project:</b>	Monument Butte	<b>MD Reference:</b>	RKB @ 5752.0ft (NDSI #2)
<b>Site:</b>	South Wells Draw S-4-9-16	<b>North Reference:</b>	True
<b>Well:</b>	South Wells Draw S-4-9-16	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

**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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	1.50	316.78	700.0	1.0	-0.9	1.3	1.50	1.50	0.00
800.0	3.00	316.78	799.9	3.8	-3.6	5.2	1.50	1.50	0.00
900.0	4.50	316.78	899.7	8.6	-8.1	11.8	1.50	1.50	0.00
1,000.0	6.00	316.78	999.3	15.2	-14.3	20.9	1.50	1.50	0.00
1,100.0	7.50	316.78	1,098.6	23.8	-22.4	32.7	1.50	1.50	0.00
1,200.0	9.00	316.78	1,197.5	34.3	-32.2	47.0	1.50	1.50	0.00
1,267.5	10.01	316.78	1,264.1	42.4	-39.8	58.2	1.50	1.50	0.00
1,300.0	10.01	316.78	1,296.1	46.5	-43.7	63.8	0.00	0.00	0.00
1,400.0	10.01	316.78	1,394.6	59.2	-55.6	81.2	0.00	0.00	0.00
1,500.0	10.01	316.78	1,493.1	71.8	-67.5	98.6	0.00	0.00	0.00
1,600.0	10.01	316.78	1,591.5	84.5	-79.4	116.0	0.00	0.00	0.00
1,700.0	10.01	316.78	1,690.0	97.2	-91.3	133.4	0.00	0.00	0.00
1,800.0	10.01	316.78	1,788.5	109.9	-103.2	150.8	0.00	0.00	0.00
1,900.0	10.01	316.78	1,887.0	122.5	-115.2	168.1	0.00	0.00	0.00
2,000.0	10.01	316.78	1,985.5	135.2	-127.1	185.5	0.00	0.00	0.00
2,100.0	10.01	316.78	2,083.9	147.9	-139.0	202.9	0.00	0.00	0.00
2,200.0	10.01	316.78	2,182.4	160.5	-150.9	220.3	0.00	0.00	0.00
2,300.0	10.01	316.78	2,280.9	173.2	-162.8	237.7	0.00	0.00	0.00
2,400.0	10.01	316.78	2,379.4	185.9	-174.7	255.1	0.00	0.00	0.00
2,500.0	10.01	316.78	2,477.8	198.5	-186.6	272.5	0.00	0.00	0.00
2,600.0	10.01	316.78	2,576.3	211.2	-198.5	289.9	0.00	0.00	0.00
2,700.0	10.01	316.78	2,674.8	223.9	-210.4	307.2	0.00	0.00	0.00
2,800.0	10.01	316.78	2,773.3	236.6	-222.3	324.6	0.00	0.00	0.00
2,900.0	10.01	316.78	2,871.7	249.2	-234.2	342.0	0.00	0.00	0.00
3,000.0	10.01	316.78	2,970.2	261.9	-246.1	359.4	0.00	0.00	0.00
3,100.0	10.01	316.78	3,068.7	274.6	-258.0	376.8	0.00	0.00	0.00
3,200.0	10.01	316.78	3,167.2	287.2	-270.0	394.2	0.00	0.00	0.00
3,300.0	10.01	316.78	3,265.7	299.9	-281.9	411.6	0.00	0.00	0.00
3,400.0	10.01	316.78	3,364.1	312.6	-293.8	429.0	0.00	0.00	0.00
3,500.0	10.01	316.78	3,462.6	325.2	-305.7	446.3	0.00	0.00	0.00
3,600.0	10.01	316.78	3,561.1	337.9	-317.6	463.7	0.00	0.00	0.00
3,700.0	10.01	316.78	3,659.6	350.6	-329.5	481.1	0.00	0.00	0.00
3,800.0	10.01	316.78	3,758.0	363.2	-341.4	498.5	0.00	0.00	0.00
3,900.0	10.01	316.78	3,856.5	375.9	-353.3	515.9	0.00	0.00	0.00
4,000.0	10.01	316.78	3,955.0	388.6	-365.2	533.3	0.00	0.00	0.00
4,100.0	10.01	316.78	4,053.5	401.3	-377.1	550.7	0.00	0.00	0.00
4,200.0	10.01	316.78	4,151.9	413.9	-389.0	568.0	0.00	0.00	0.00
4,300.0	10.01	316.78	4,250.4	426.6	-400.9	585.4	0.00	0.00	0.00
4,400.0	10.01	316.78	4,348.9	439.3	-412.8	602.8	0.00	0.00	0.00
4,500.0	10.01	316.78	4,447.4	451.9	-424.8	620.2	0.00	0.00	0.00
4,600.0	10.01	316.78	4,545.8	464.6	-436.7	637.6	0.00	0.00	0.00
4,700.0	10.01	316.78	4,644.3	477.3	-448.6	655.0	0.00	0.00	0.00
4,800.0	10.01	316.78	4,742.8	489.9	-460.5	672.4	0.00	0.00	0.00
4,900.0	10.01	316.78	4,841.3	502.6	-472.4	689.8	0.00	0.00	0.00
5,000.0	10.01	316.78	4,939.8	515.3	-484.3	707.1	0.00	0.00	0.00
5,100.0	10.01	316.78	5,038.2	528.0	-496.2	724.5	0.00	0.00	0.00
5,200.0	10.01	316.78	5,136.7	540.6	-508.1	741.9	0.00	0.00	0.00

**NEWFIELD**



**Newfield Production Company**  
**Planning Report**

<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well South Wells Draw S-4-9-16
<b>Company:</b>	Newfield Production Company	<b>TVD Reference:</b>	RKB @ 5752.0ft (NDSI #2)
<b>Project:</b>	Monument Butte	<b>MD Reference:</b>	RKB @ 5752.0ft (NDSI #2)
<b>Site:</b>	South Wells Draw S-4-9-16	<b>North Reference:</b>	True
<b>Well:</b>	South Wells Draw S-4-9-16	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

**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)
5,300.0	10.01	316.78	5,235.2	553.3	-520.0	759.3	0.00	0.00	0.00
5,400.0	10.01	316.78	5,333.7	566.0	-531.9	776.7	0.00	0.00	0.00
5,500.0	10.01	316.78	5,432.1	578.6	-543.8	794.1	0.00	0.00	0.00
5,600.0	10.01	316.78	5,530.6	591.3	-555.7	811.5	0.00	0.00	0.00
5,700.0	10.01	316.78	5,629.1	604.0	-567.6	828.9	0.00	0.00	0.00
5,800.0	10.01	316.78	5,727.6	616.6	-579.5	846.2	0.00	0.00	0.00
5,900.0	10.01	316.78	5,826.0	629.3	-591.5	863.6	0.00	0.00	0.00
6,000.0	10.01	316.78	5,924.5	642.0	-603.4	881.0	0.00	0.00	0.00
6,100.0	10.01	316.78	6,023.0	654.6	-615.3	898.4	0.00	0.00	0.00
6,200.0	10.01	316.78	6,121.5	667.3	-627.2	915.8	0.00	0.00	0.00
6,300.0	10.01	316.78	6,220.0	680.0	-639.1	933.2	0.00	0.00	0.00
6,371.1	10.01	316.78	6,290.0	689.0	-647.6	945.5	0.00	0.00	0.00

NEWFIELD PRODUCTION COMPANY  
SOUTH WELLS DRAW FEDERAL S-4-9-16  
AT SURFACE: SE/SE SECTION 4, 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' – 1675'  
Green River            1675'  
Wasatch                6290'  
Base of Moderately Saline Ground Water @ 1450'

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

Green River Formation 1675' – 6290' - 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.

# 2-M SYSTEM

Blowout Prevention Equipment Systems

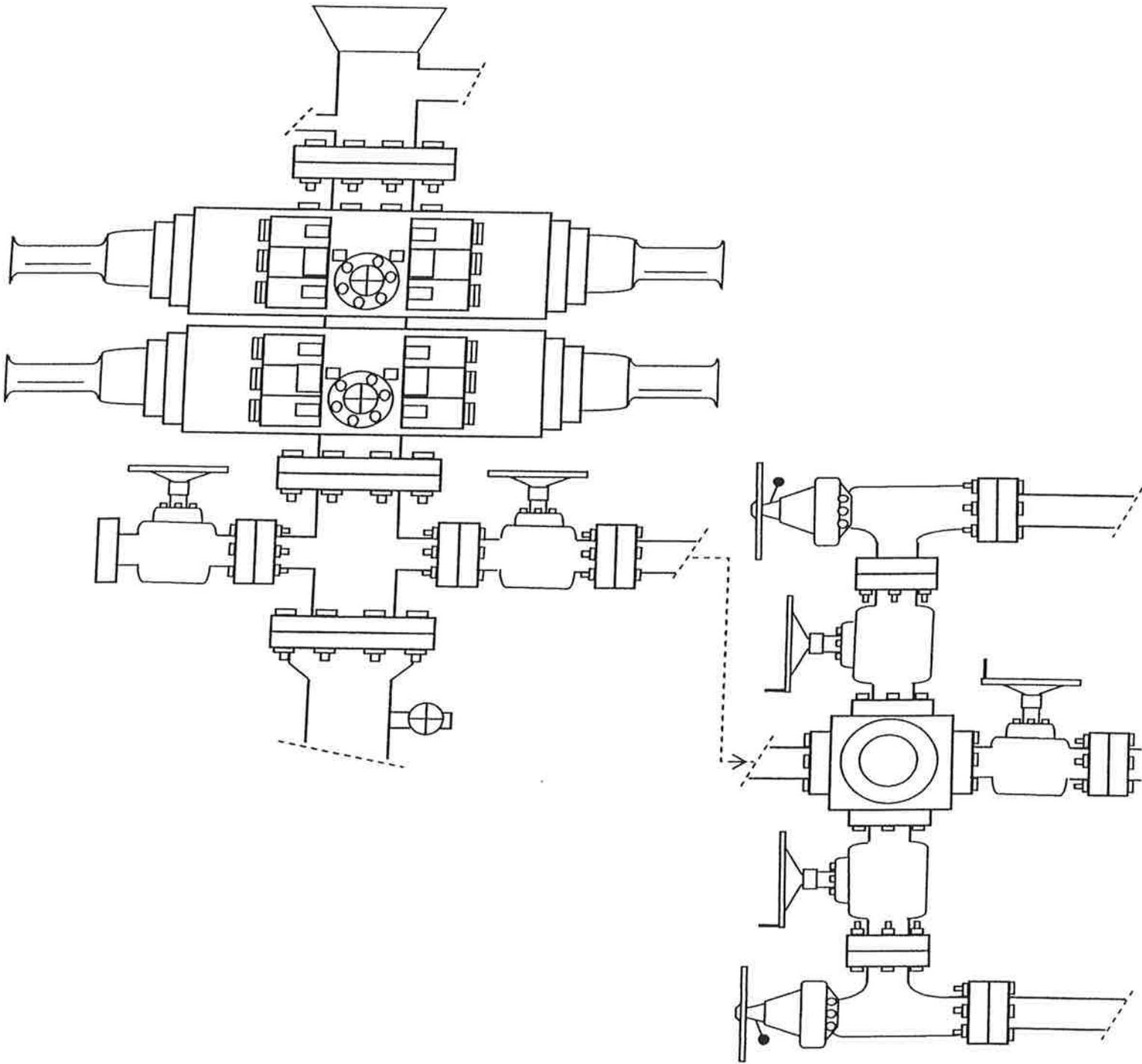
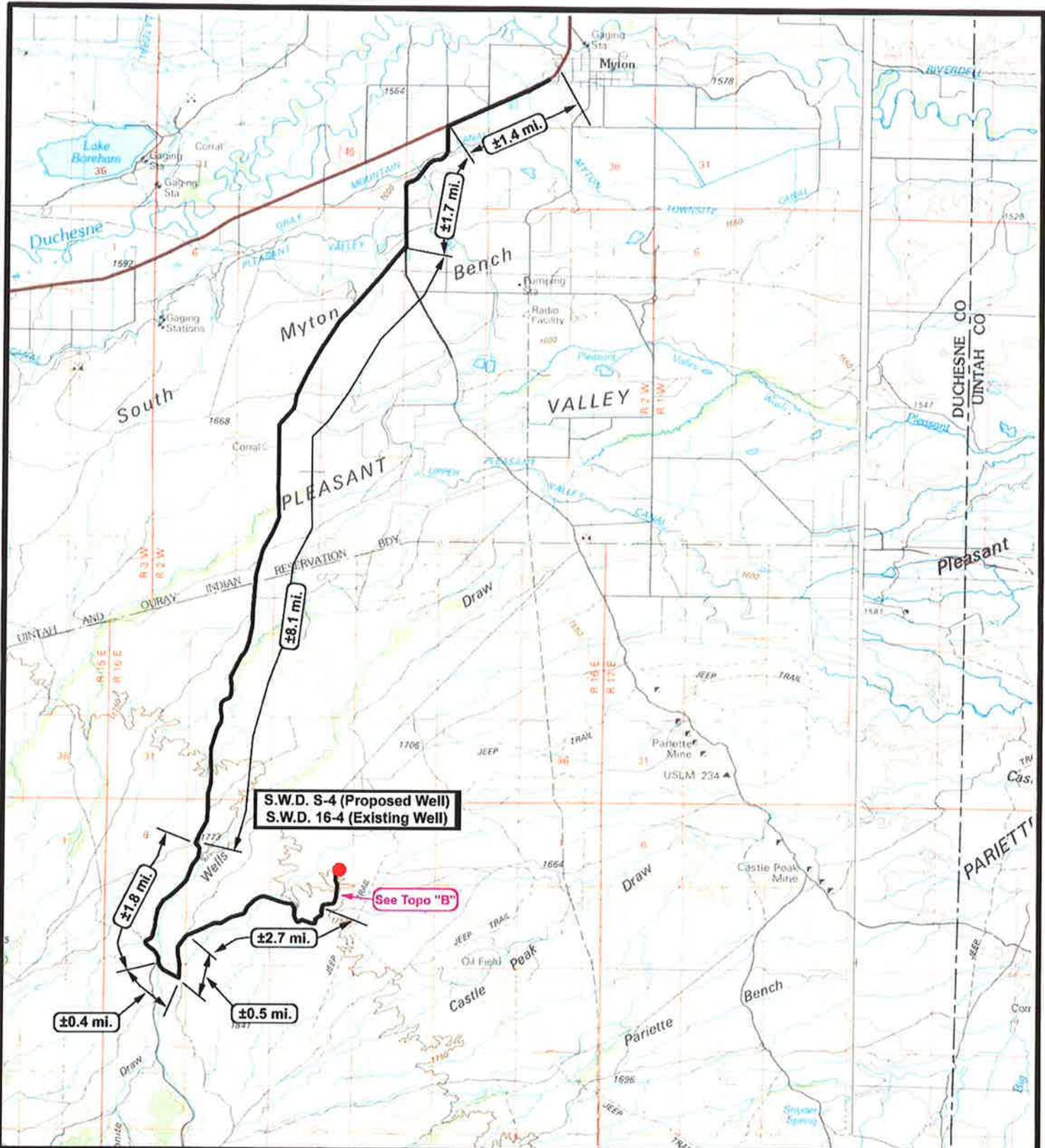


EXHIBIT C



**S.W.D. S-4 (Proposed Well)**  
**S.W.D. 16-4 (Existing Well)**

See Topo "B"

**NEWFIELD**  
Exploration Company

**South Wells Draw S-4-9-16 (Proposed Well)**  
**South Wells Draw 16-4-9-16 (Existing Well)**  
**Pad Location SESE SEC. 4, T9S, R16E, S.L.B.&M.**



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

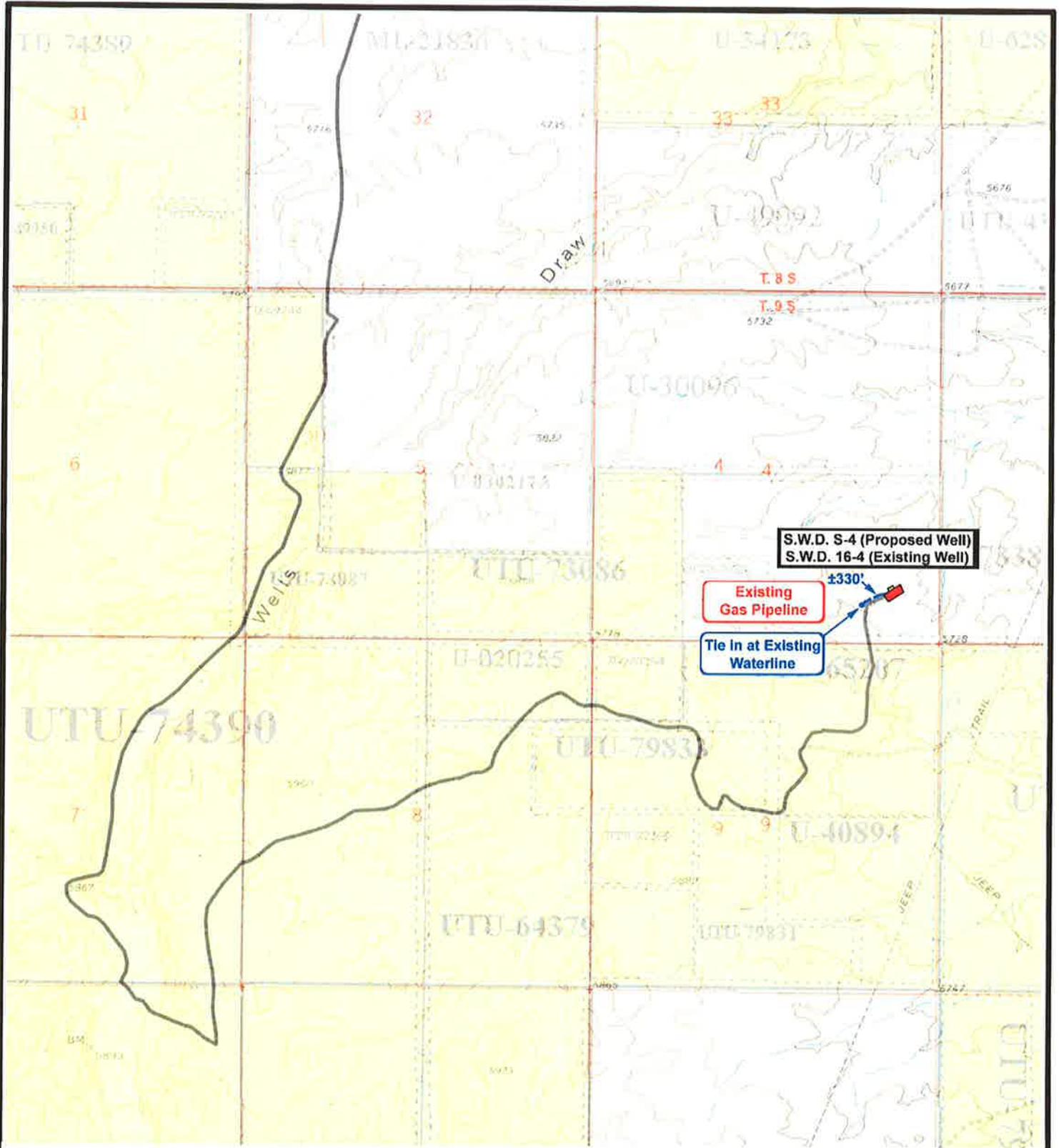
**SCALE: 1 = 100,000**  
**DRAWN BY: mw**  
**DATE: 12-30-2008**

**Legend**

Existing Road

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





 **NEWFIELD**  
Exploration Company

**South Wells Draw S-4-9-16 (Proposed Well)**  
**South Wells Draw 16-4-9-16 (Existing Well)**  
 Pad Location SESE SEC. 4, T9S, R16E, S.L.B.&M.



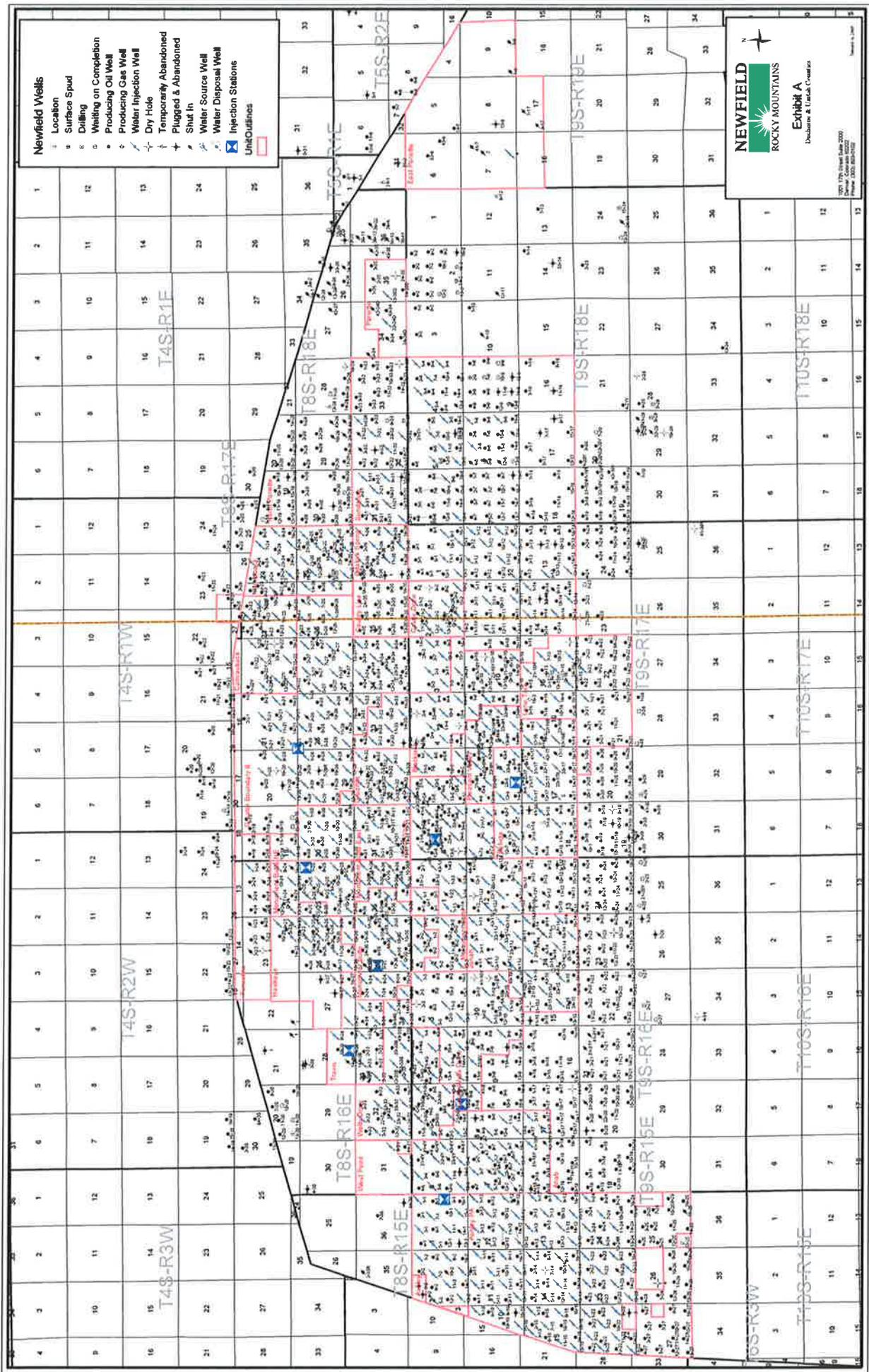
  
 Tri-State  
 Land Surveying Inc.  
 (435) 781-2501  
 180 North Vernal Ave. Vernal, Utah 84078

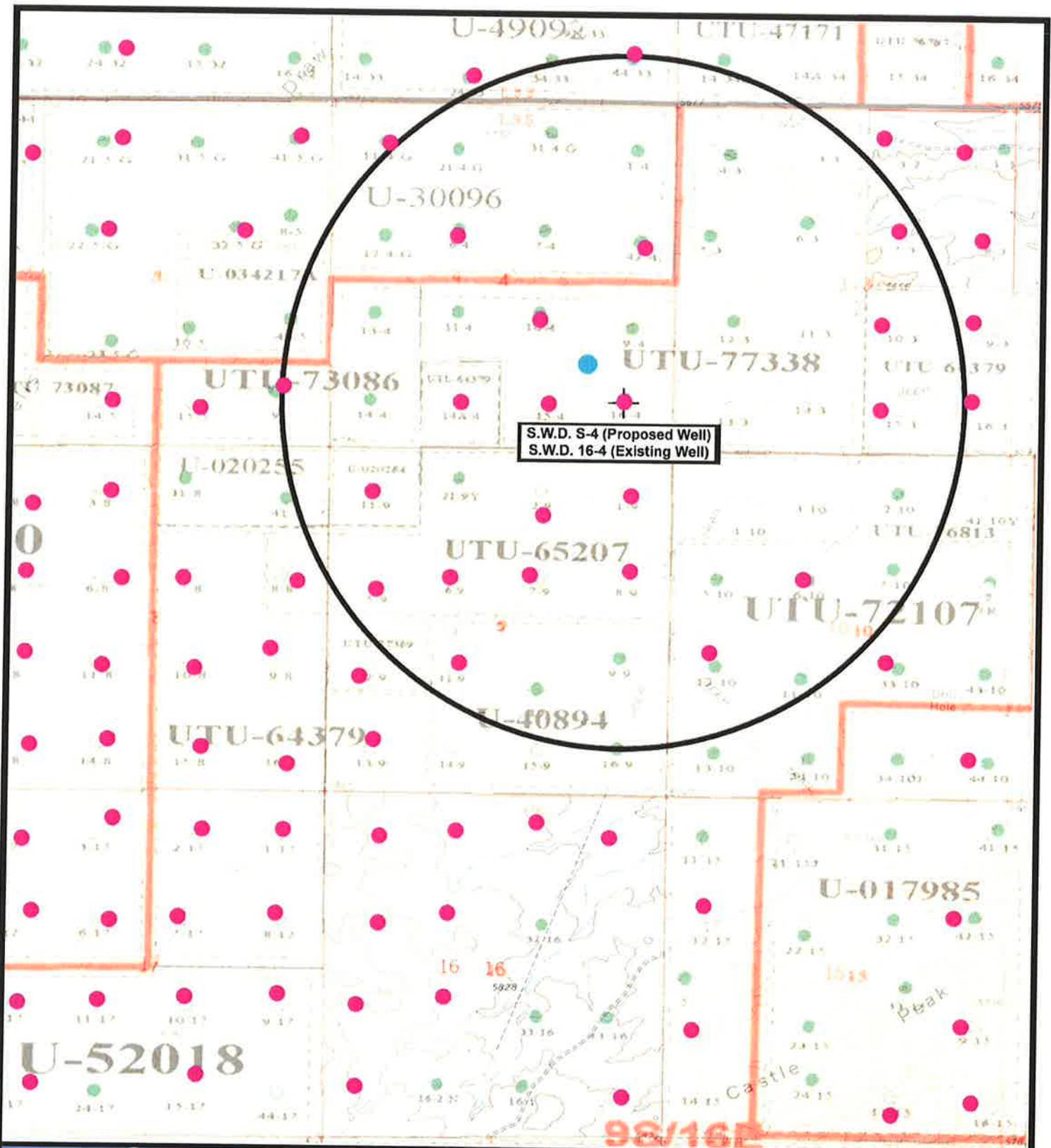
**SCALE: 1" = 2,000'**  
**DRAWN BY: mw**  
**DATE: 12-30-2008**

**Legend**

-  Roads
-  Proposed Gas Line
-  Proposed Water Line

**TOPOGRAPHIC MAP**  
**"C"**





S.W.D. S-4 (Proposed Well)  
S.W.D. 16-4 (Existing Well)



**NEWFIELD**  
Exploration Company

**South Wells Draw S-4-9-16 (Proposed Well)**  
**South Wells Draw 16-4-9-16 (Existing Well)**  
Pad Location SESE SEC. 4, T9S, R16E, S.L.B.&M.



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

SCALE: 1" = 2000'  
DRAWN BY: mw  
DATE: 12-30-2008

**Legend**

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

**Exhibit "B"**

**NEWFIELD PRODUCTION COMPANY  
SOUTH WELLS DRAW FEDERAL S-4-9-16  
AT SURFACE: SE/SE SECTION 4, 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 S-4-9-16 located in the SE 1/4 SE 1/4 Section 4, T9S, R16E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southwesterly - 11.6 miles  $\pm$  to it's junction with an existing dirt road to the southeast; proceed southeasterly - 0.4 miles  $\pm$  to it's junction with an existing road to the north; proceed in a northeasterly direction - 3.2 miles  $\pm$  to it's junction with the beginning of the access road to the existing South Wells Draw 16-4-9-16 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 South Wells Draw 16-4-9-16 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 South Wells Draw 16-4-9-16 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 S-4-9-16. 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 : 43-7478

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 S-4-9-16 will be drilled off of the existing South Wells Draw 16-4-9-16 well pad. No additional surface disturbance will be required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

Please refer to the Monument Butte Field SOP.

8. **ANCILLARY FACILITIES**

Please refer to the Monument Butte Field SOP.

9. **WELL SITE LAYOUT**

See attached Location Layout Diagram.

10. **PLANS FOR RESTORATION OF SURFACE**

Please refer to the Monument Butte Field SOP.

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

12. **OTHER ADDITIONAL INFORMATION**

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #09-018, 3/19/09. Paleontological Resource Survey prepared by, Wade E. Miller, 3/5/09. See attached report cover pages, Exhibit "D".

Newfield Production Company requests 330' of disturbed area be granted in Lease UTU-77338 to allow for construction of the proposed water lines. It is proposed that the disturbed area will temporarily be 50' wide to allow for construction of a buried 3" steel water injection line and a buried 3" poly water return line and 30' wide upon completion of the proposed water lines. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP. 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

**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), State of Utah approved surface disposal facilities, or Federally approved surface disposal facilities.

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

None for the proposed South Wells Draw Federal S-4-9-16.

**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 S-4-9-16 was on-sited on 2/18/09. The following were present; Brian Foote (Newfield Production ), Tim Eaton (Newfield Production ), James Herford (Bureau of Land Management ), and Christine Cimiluca (Bureau of Land Management). Weather conditions were clear and ground cover was 100% open.

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

Representative

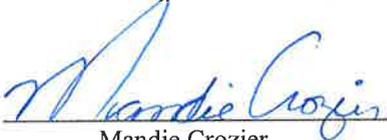
Name: Dave Allred  
Address: Route #3 Box 3630  
Myton, UT 84052  
Telephone: (435) 646-3721

Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #S-4-9-16 SE/SE Section 4, Township 9S, Range 16E: Lease UTU-77338 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.

\_\_\_\_\_  
6/23/09  
Date

  
Mandie Crozier  
Regulatory Specialist  
Newfield Production Company

# NEWFIELD PRODUCTION COMPANY

## WELL PAD INTERFERENCE PLAT

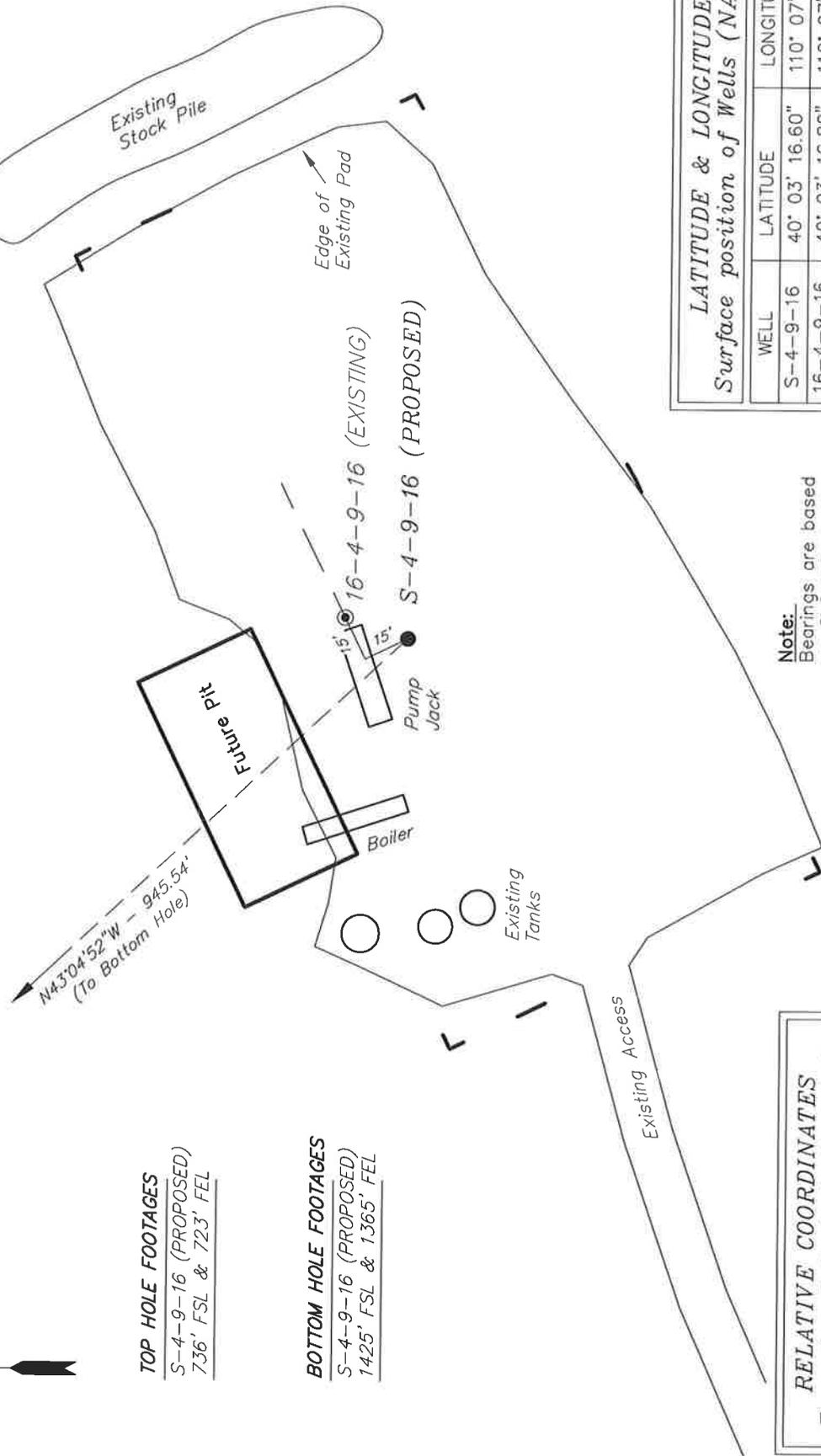
**SOUTH WELLS DRAW S-4-9-16 (Proposed Well)**  
**SOUTH WELLS DRAW 16-4-9-16 (Existing Well)**

Pad Location: SESE Section 4, T9S, R16E, S.L.B.&M.



**TOP HOLE FOOTAGES**  
 S-4-9-16 (PROPOSED)  
 736' FSL & 723' FEL

**BOTTOM HOLE FOOTAGES**  
 S-4-9-16 (PROPOSED)  
 1425' FSL & 1365' FEL



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

LATITUDE & LONGITUDE Surface position of Wells (NAD 83)		
WELL	LATITUDE	LONGITUDE
S-4-9-16	40° 03' 16.60"	110° 07' 02.82"
16-4-9-16	40° 03' 16.80"	110° 07' 02.73"

RELATIVE COORDINATES From top hole to bottom hole		
WELL	NORTH	EAST
S-4-9-16	691'	-646'

SURVEYED BY: T.H.	DATE SURVEYED: 12-04-08
DRAWN BY: F.T.M.	DATE DRAWN: 12-23-08
SCALE: 1" = 50'	REVISED:

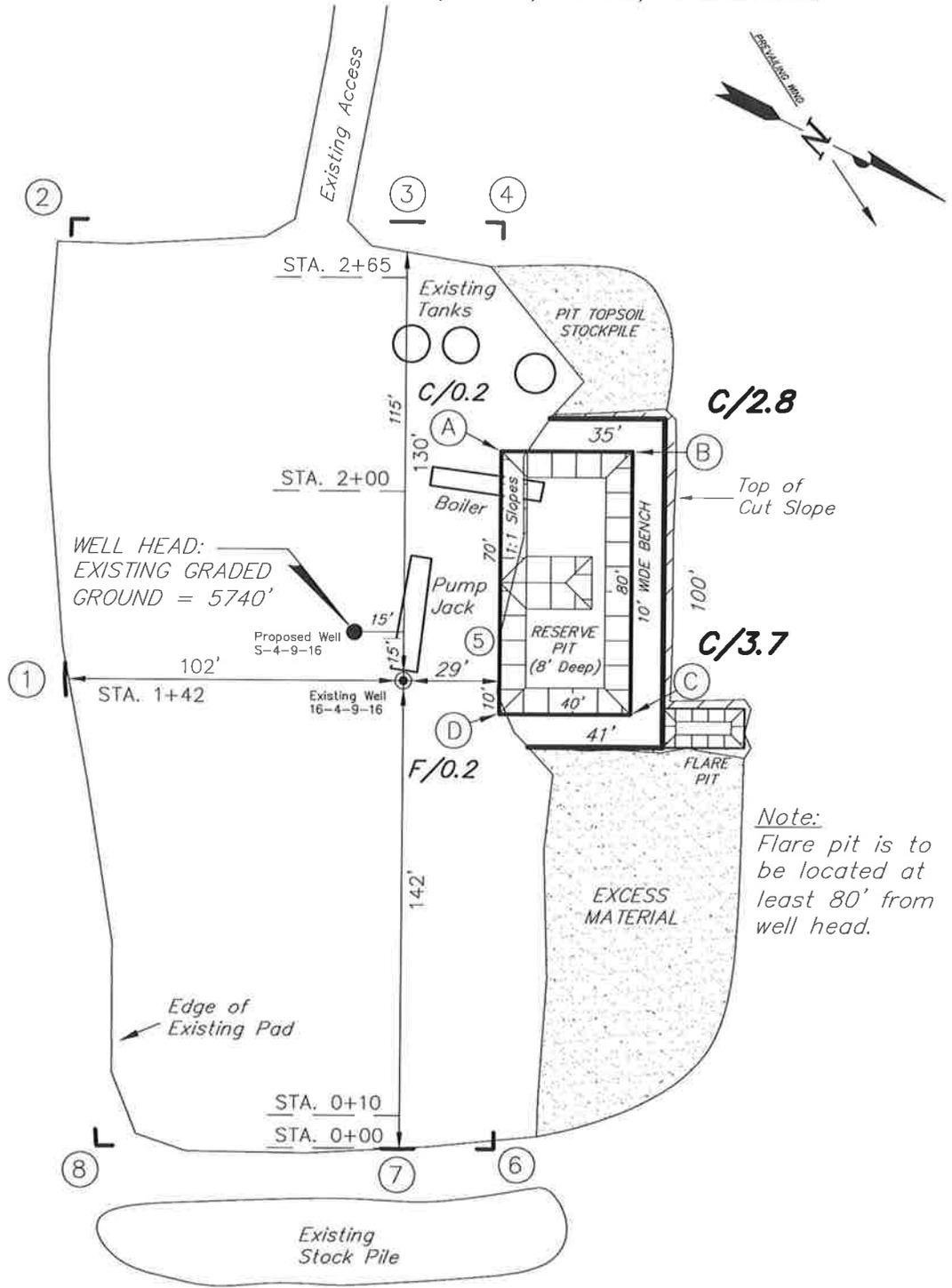
**Tri State**  
 Land Surveying, Inc.  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078  
 (435) 781-2501

# NEWFIELD PRODUCTION COMPANY

**SOUTH WELLS DRAW S-4-9-16 (Proposed Well)**

**SOUTH WELLS DRAW 16-4-9-16 (Existing Well)**

*Pad Location: SESE Section 4, T9S, R16E, S.L.B.&M.*



SURVEYED BY: T.H.	DATE SURVEYED: 12-04-08	
DRAWN BY: F.T.M.	DATE DRAWN: 12-23-08	
SCALE: 1" = 50'	REVISED:	

**Tri State**  
Land Surveying, Inc.

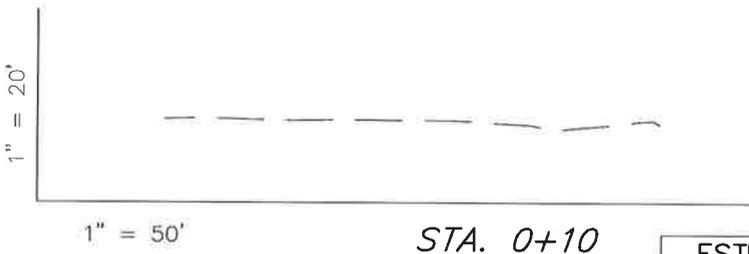
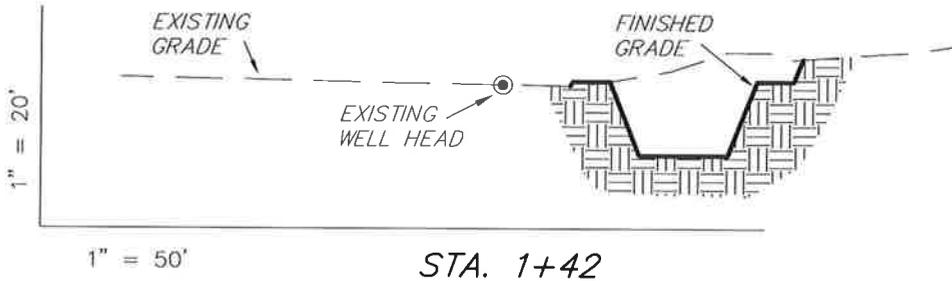
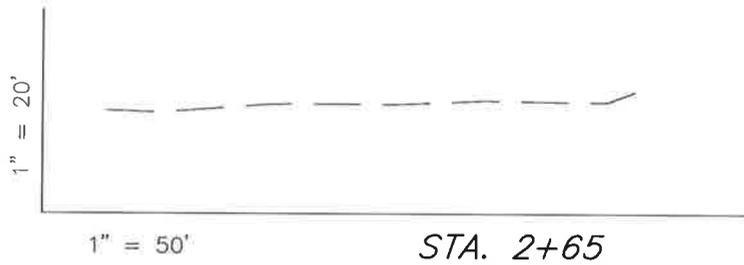
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

(435) 781-2501

# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS

SOUTH WELLS DRAW S-4-9-16 (Proposed Well)  
 SOUTH WELLS DRAW 16-4-9-16 (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	370	10	Topsoil is not included in Pad Cut	360
PIT	640	0		640
TOTALS	1,010	10	130	1,000

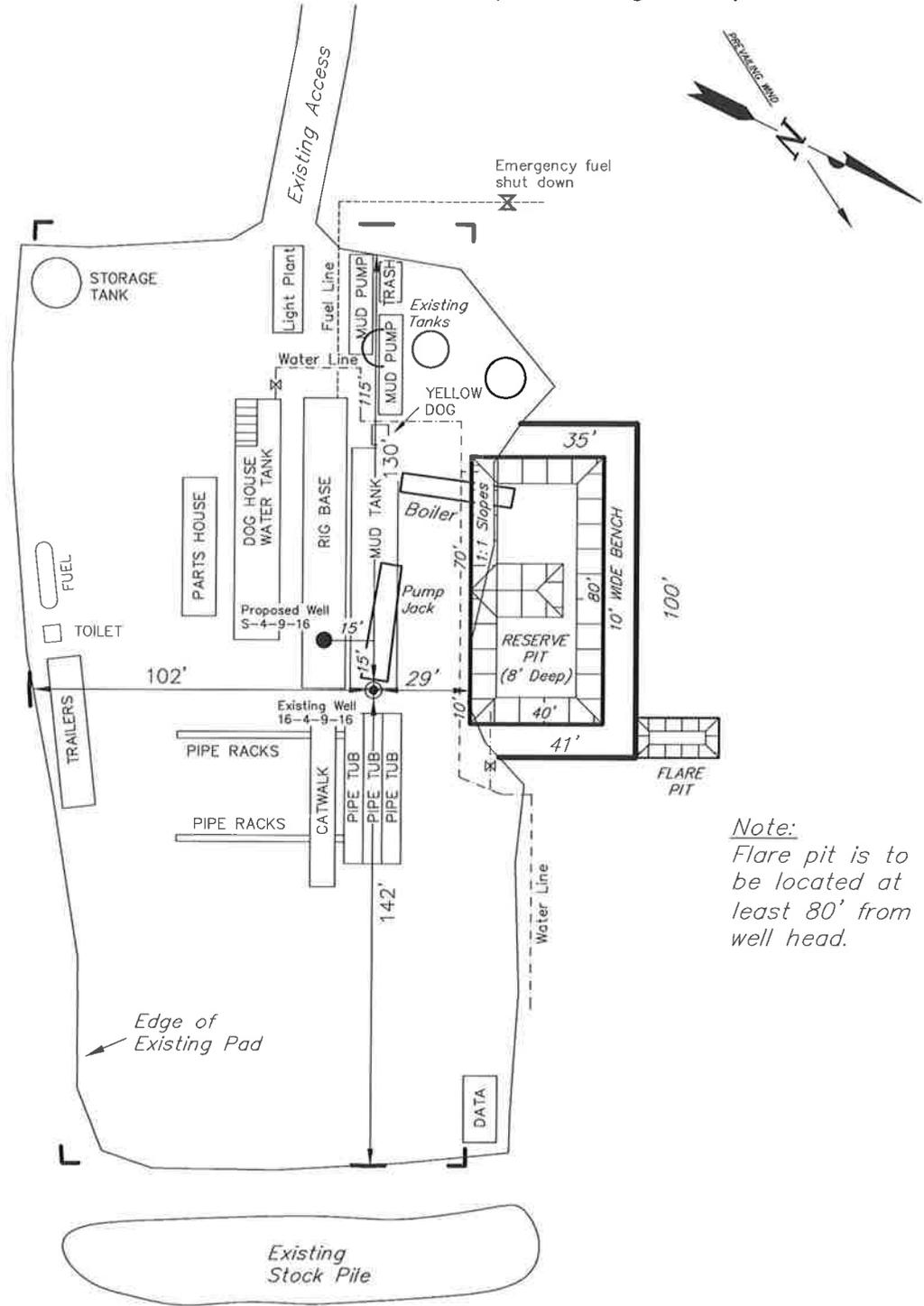
SURVEYED BY: T.H.	DATE SURVEYED: 12-04-08
DRAWN BY: F.T.M.	DATE DRAWN: 12-23-08
SCALE: 1" = 50'	REVISED:

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

# NEWFIELD PRODUCTION COMPANY

## TYPICAL RIG LAYOUT

SOUTH WELLS DRAW S-4-9-16 (Proposed Well)  
 SOUTH WELLS DRAW 16-4-9-16 (Existing Well)



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

SURVEYED BY: T.H.	DATE SURVEYED: 12-04-08
DRAWN BY: F.T.M.	DATE DRAWN: 12-23-08
SCALE: 1" = 50'	REVISED:

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

# Newfield Production Company Proposed Site Facility Diagram

South Wells Draw Federal S-4-9-16

From the 16-4-9-16 Location

SE/SE Sec. 4 T9S, R16E

Duchesne County, Utah

UTU-77338

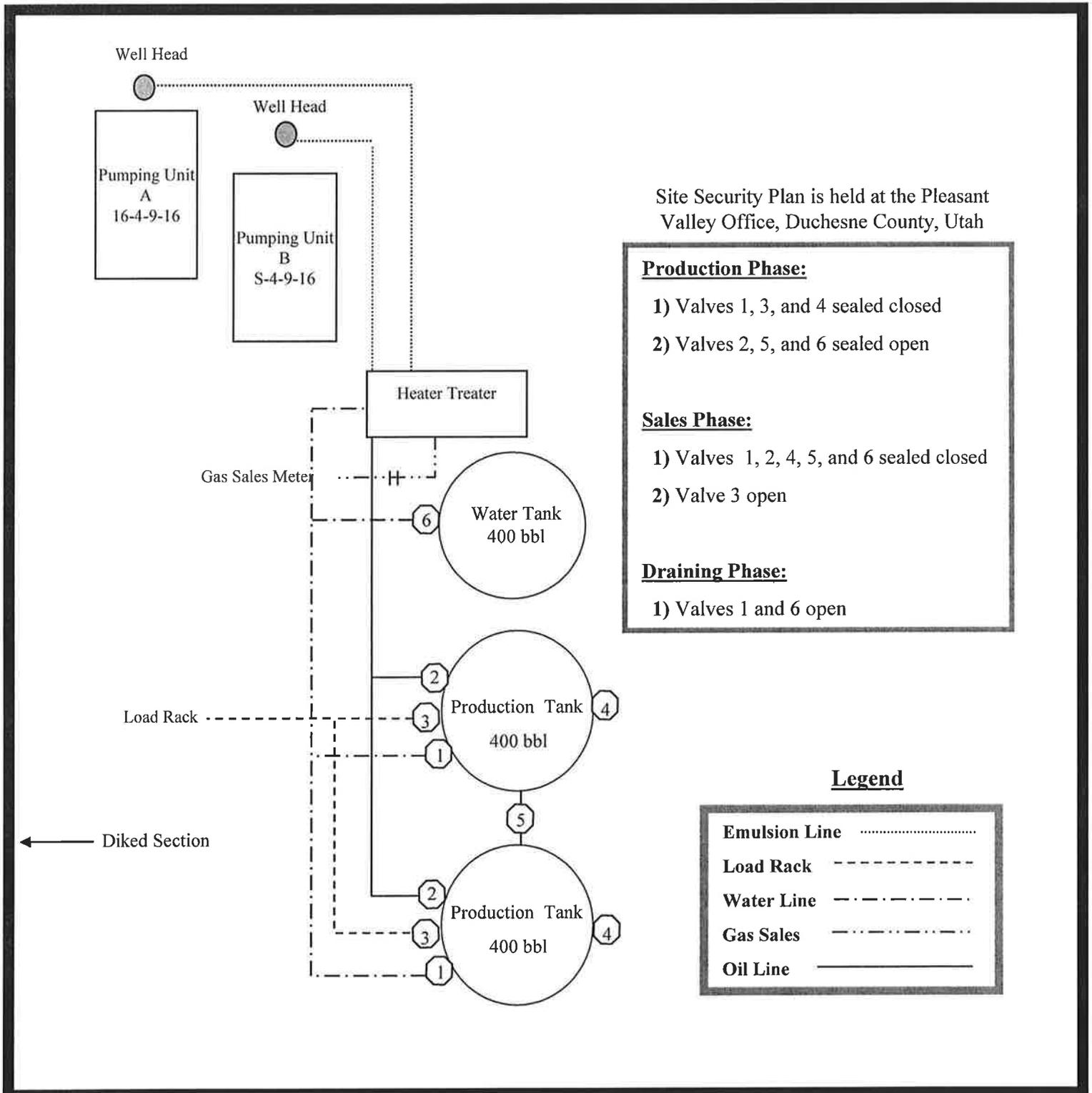


Exhibit "D"

1 of 2

CULTURAL RESOURCE INVENTORY OF  
NEWFIELD EXPLORATION'S PROPOSED  
PIPELINE: SOUTH WELLS DRAW 16-4-9-16 AND  
PROPOSED 40 ACRE PARCEL: STATE 12-8T-9-16  
(T9S, R16E, SECTIONS 4 AND 8)  
DUCHESNE COUNTY, UTAH

By:

Todd Seacat

Prepared For:

Bureau of Land Management  
Vernal Field Office

Prepared Under Contract With:

Newfield Exploration Company  
Rt. 3 Box 3630  
Myton, UT 54052

Submitted By:

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

MOAC Report No. 09-018

March 19, 2009

United State Department of Interior (FLPMA)  
Permit No. 08-UT-60122

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

State of Utah Antiquities Project (Survey)  
Permit No. U-09-MQ-0109b

**NEWFIELD EXPLORATION COMPANY**

**PALEONTOLOGICAL SURVEY OF PROPOSED  
PRODUCTION DEVELOPMENT AREAS,  
DUCHESNE & UINTAH COUNTIES, UTAH  
(Includes Water Pipeline Surveys)**

Section 36 [Entire Section, excluding SW 1/4, NE 1/4 & SE 1/4, SE 1/4 (7 & 16-36-8-15)];  
Section 25 [Entire Section]; Section 26 [SE 1/4, NE 1/4, & SE 1/4 ( 8, 9, 10 ,15 & 16-26-8-15)];  
Section 35 [NE 1/4, SE 1/4 & SW 1/4, NE 1/4 (1, 7 & 8-35-8-15), SE 1/4, NW 1/4 (6-35-8-15),  
NE 1/4 & SE 1/4, SW 1/4 (11 & 14-35-8-15), & SE 1/4 ( 9, 10, 15 & 16-35-8-15)]. NE 1/4 & SE  
1/4, Section 32, T 8 S, R 17 E (11 & 14-32-8-17); NE 1/4, SE 1/4, Section 6, T 9 S, R 19 E (43-  
6-9-19); NE 1/4, SE 1/4, Section 7, T 9 S, R 17 E (43-7-9-17); SE 1/4, SE 1/4, Section 4, T 9 S,  
R 16 E (16-4-9-16)

**REPORT OF SURVEY**

Prepared for:

**Newfield Exploration Company**

Prepared by:

Wade E. Miller  
Consulting Paleontologist  
March 5, 2009



# 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)

June 26, 2009

Memorandum

To: Assistant District Manager Minerals, Vernal District  
From: Michael Coulthard, Petroleum Engineer  
Subject: 2009 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 2009 within the South Wells Draw Unit, Duchesne County, Utah.

API#	WELL NAME	LOCATION
	(Proposed PZ GREEN RIVER)	
43-013-50060	S Wells Draw Fed	S-4-9-16 Sec 04 T09S R16E 0736 FSL 0723 FEL BHL Sec 04 T09S R16E 1425 FSL 1365 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:6-26-09



June 23, 2009

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 S-4-9-16**  
South Wells Draw Unit  
UTU-79641X  
Surface Hole: T9S R16E, Section 4: SESE  
736' FSL 723' FEL  
Bottom Hole: T9S R16E, Section 4  
1425' FSL 1365' FEL  
Duchesne County, Utah

Dear Ms. Mason;

Pursuant to the filing of Newfield Production Company's ("NPC") Application for Permit to Drill dated June 22, 2009, 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 Unit UTU-79641X. Newfield certifies that it is the South Wells Draw Unit Operator and all lands within 460 feet of the entire directional well bore are within the South Wells Draw Unit.

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

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

Sincerely,  
NEWFIELD PRODUCTION COMPANY

A handwritten signature in blue ink that reads "Roxann Eveland".

Roxann Eveland  
Land Associate

RECEIVED

JUN 29 2009

DIV. OF OIL, GAS & MINING

# WORKSHEET APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 6/23/2009

**API NO. ASSIGNED:** 43013500600000

**WELL NAME:** South Wells Draw Federal S-4-9-16

**OPERATOR:** NEWFIELD PRODUCTION COMPANY (N2695)

**PHONE NUMBER:** 435 646-4825

**CONTACT:** Mandie Crozier

**PROPOSED LOCATION:** SESE 4 090S 160E

**Permit Tech Review:**

**SURFACE:** 0736 FSL 0723 FEL

**Engineering Review:**

**BOTTOM:** 1425 FSL 1365 FEL

**Geology Review:**

**COUNTY:** DUCHESNE

**LATITUDE:** 40.05460

**LONGITUDE:** -110.11679

**UTM SURF EASTINGS:** 575333.00

**NORTHINGS:** 4433980.00

**FIELD NAME:** MONUMENT BUTTE

**LEASE TYPE:** 1 - Federal

**LEASE NUMBER:** UTU-77338

**PROPOSED PRODUCING FORMATION(S):** GREEN RIVER

**SURFACE OWNER:** 1 - Federal

**COALBED METHANE:** NO

**RECEIVED AND/OR REVIEWED:**

- PLAT**
- Bond:** FEDERAL - WYB000493
- Potash**
- Oil Shale 190-5**
- Oil Shale 190-3**
- Oil Shale 190-13**
- Water Permit:** 43-7478
- RDCC Review:**
- Fee Surface Agreement**
- Intent to Commingle**

**Commingle Approved**

**LOCATION AND SITING:**

- R649-2-3.**  
**Unit:** SOUTH WELLS DRAW (GR)
- R649-3-2. General**
- R649-3-3. Exception**
- Drilling Unit**  
**Board Cause No:** Cause 231-04  
**Effective Date:** 7/16/2001  
**Siting:** Suspends General Siting
- R649-3-11. Directional Drill**

**Comments:** Presite Completed

**Stipulations:** 4 - Federal Approval - dmason  
15 - Directional - dmason



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*

## Permit To Drill

\*\*\*\*\*

**Well Name:** S Wells Draw Fed S-4-9-16

**API Well Number:** 43013500600000

**Lease Number:** UTU-77338

**Surface Owner:** FEDERAL

**Approval Date:** 6/30/2009

**Issued to:**

NEWFIELD PRODUCTION COMPANY , Rt 3 Box 3630 , Myton, UT 84052

**Authority:**

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 231-04. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

**Duration:**

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

**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.

**Conditions of Approval:**

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

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.

**Notification Requirements:**

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

- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)  
OR

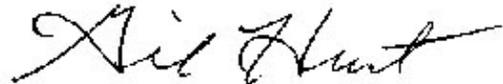
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <http://oilgas.ogm.utah.gov>

**Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

**Approved By:**

A handwritten signature in black ink, appearing to read "Gil Hunt". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Gil Hunt  
Associate Director, Oil & Gas

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

5. Lease Serial No.  
UTU-77338

6. If Indian, Allottee or Tribe Name  
NA

1a. Type of work:  DRILL  REENTER

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

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

8. Lease Name and Well No.  
South Wells Draw Federal S-4-9-16

2. Name of Operator Newfield Production Company

9. API Well No.  
43-013-50060

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

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

10. Field and Pool, or Exploratory  
Monument Butte

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*  
At surface SE/SE 736' FSL 723' FEL Sec. 4, T9S R16E  
At proposed prod. zone NW/SE 1425' FSL 1365' FEL Sec. 4, T9S R16E

11. Sec., T. R. M. or Blk. and Survey or Area  
Sec. 4, T9S R16E

14. Distance in miles and direction from nearest town or post office\*  
Approximately 16.6 miles southwest of Myton, UT

12. County or Parish Duchesne  
13. State UT

15. Distance from proposed\* location to nearest property or lease line, ft. Approx. 1215' f/lse, 1215' f/unit (Also to nearest drig. unit line, if any)

16. No. of acres in lease  
520.84

17. Spacing Unit dedicated to this well  
20 Acres

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

19. Proposed Depth  
6,290'

20. BLM/BIA Bond No. on file  
WYB000493

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
5740' GL

22. Approximate date work will start\*  
4th Qtr. 2009

23. Estimated duration  
(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, must 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 must 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 BLM.

25. Signature *Mandie Crozier* Name (Printed/Typed) Mandie Crozier Date 6/22/09

Title Regulatory Specialist

Approved by (Signature) *Stephanie J Howard* Name (Printed/Typed) Stephanie J Howard Date 10/7/09

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

Application approval 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.  
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.

(Continued on page 2)

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NOS 01-30-2009 JUN 30 2009 OCT 15 2009 AFMSS#09SX50529A BLM VERNAL, UT DIV. OF OIL, GAS & MINING

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

UDOGM



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

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



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

Company: Newfield Production Company      Location: SESE, Sec.4, T9S R16E  
Well No: South Wells Draw Federal S-4-9-16      Lease No: UTU-77338  
API No: 43-013-50060      Agreement: South Wells Draw

**OFFICE NUMBER:                    (435) 781-4400**

**OFFICE FAX NUMBER:            (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 was processed using a 390 CX tied to NEPA approved 08/24/05. Therefore, this permit is approved for a two (2) year period OR until lease expiration OR the well must be spud by 08/24/2010 (5 years from the NEPA approval date), whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

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

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

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO<sub>x</sub> per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO<sub>x</sub> per horsepower-hour.
- 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.
- This project will be implemented on or after August 31, 2009. If the well has not been spudded by August 31, 2014 the APD will expire and the operator is to cease all operations related to preparing to drill the well.

**Conditions of Approval:**

- All facilities must be painted Covert Green to blend in with the surrounding environment.
- Noxious and/or invasive weeds will be controlled along access roads, pipelines, well sites, and all other applicable facilities. An 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.

## **Reclamation**

### **Interim Reclamation:**

- Interim reclamation of the surface environment should take place after drilling and completion and well is put into production. At a minimum, this will include the stabilization of the soil surface during construction, recontouring of the unused pad area, and the reserve pit to the original contour to the extent possible, and the re-spreading of the top soil after recontouring takes place, up to the rig anchor points and any area not needed for production. The area will be reseeded using appropriate seeding methods, which includes, but is not limited to, the drill seeding method (see below). Any adjustments, due to site specific production concerns, to the reclamation COAs in this document can be submitted on Sundry form 3160-5.
- Topsoil storage areas will be identified with appropriate signage, so it is easily identifiable where the topsoil is on location.
- Topsoil will be segregated from the subsoil (without mixing them), stockpiled separately from other soil materials, and maintained for future use in rehabilitating the locations.
- After pipeline installation is complete, salvaged topsoil will be re-distributed evenly over disturbed surfaces.
- Topsoil piles stored beyond one growing season will be stabilized and seeded to prevent erosion.

### **Topsoil and Final Surface Preparations:**

- Following pipeline installation activities, all disturbed areas will be re-contoured back to the original contour or a contour that corresponds with the surrounding landform.
- Salvaged topsoil will be re-distributed evenly, and to pre-disturbance depths, over the surfaces to be revegetated.
- The soil surface will be prepared to provide a seedbed for re-establishment of desirable vegetation. Site preparation may include gouging, scarifying, dozer track-walking, mulching, or soil additives. The seedbed preparations will be determined by the appropriate surface managing agency (SMA) at the time of final reclamation.
- Soil compaction will be reduced to the anticipated root depth of the desired plant species (usually 18 to 24 inches in a cross hatch manner where practicable). Disking may be necessary to eliminate large soil clumps or clods.
- Methods such as hydro-mulching, straw mat application on steeper slopes, soil analysis to determine the need for fertilizer, seed-bed preparation, contour furrowing, watering, terracing, water barring, and the replacement of topsoil will be implemented as directed by the SMA.

### **Final Revegetation:**

- After pipeline installation is complete, all disturbed areas will be reseeded. The seed mixtures to be used will be similar to the vegetation of the surrounding areas and may consist of grasses, forbs, or shrubs. A recommended seed mixture is provided in the table below.
- The seeding contractor will provide all seed tags to the appropriate SMA prior to seeding efforts.
- Seeding will occur after August 15 and prior to winter freezing of the soil.

- Drill seeding will be used except in areas where topography or substrate composition (rock) precludes the use of the drill. If drill seeding is not possible, broadcast seeding will be implemented. If the broadcast method is used (such as on slopes of 40 percent or greater), the seed rates established for drill seeding will be doubled and seed will be immediately covered to prevent seed desiccation or predation by birds or rodents. The seeds could be covered in several ways including spreading and crimping straw over the seeded area, raking the area by hand, or dragging a chain or chain-linked fence over the seeded area.

**Monitoring:**

*Revegetation Success*

- Prior to any surface disturbance, vegetative monitoring locations and reference sites will be identified by Newfield and approved by the BLM Authorized Officer.
- Vegetation monitoring protocol will be developed by Newfield and approved by the BLM Authorized Officer prior to implementation of revegetation techniques and will be designed to monitor % basal vegetative cover.
- Revegetated areas will be inspected annually and monitored to document location and extent of areas with successful revegetation, and areas needing further reclamation. A reclamation report will be submitted to the Authorized Officer by March 31 of each year.
- On Federal lands, the reclamation objective will be a vegetation community that within 5 years is comprised of desired and/or seeded species, and where the basal vegetative cover is 75 percent of a similar undisturbed adjacent native vegetation community. If after 3 years basal cover is less than 30 percent, then additional seeding and reclamation efforts may be required.

**Seed mix (Interim and Final Reclamation):**

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

- 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.

**Final reclamation:**

- Once the location is plugged and abandoned, it shall be recontoured to match natural topography, topsoil shall be respread, and the entire location shall be seeded with a seed mix recommended by

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

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

**SITE SPECIFIC DOWNHOLE COAs:**

- Well location TD bottom footage hole location information on the completion form 3160-4 Well Completion or Recompletion Report and Log should match and be in agreement with the from the actual drilling directional survey well departure values for the TD bottom hole location.
- A copy of the as drilled directional survey shall be submitted to the BLM Vernal Field Office. Submit the MWD-GR survey from the directional/horizontal drilling operations, hard copy or electronically.
- Production casing cement shall be brought up and into the surface.
- Logging: A Gamma Ray well Log shall be run from the well Total Depth to the surface. A copy of the Gamma Ray well Log shall be submitted to the BLM Vernal Field Office.
- A copy of Newfield's Standard Operating Practices (SOP version: dated 4/18/08 and approved 5/12/08) shall be on location.

**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 ( $\frac{1}{4}$  $\frac{1}{4}$ , 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.

Spud  
BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# NDSI Rig #  
2 Submitted By Don Bastian Phone Number 435-  
823-6012

Well Name/Number SWD Fed-S-4-9-16  
Qtr/Qtr SE/SE Section 4 Township 9 S Range 16 E       
Lease Serial Number UTU- 77338  
API Number 43-013-50060

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 2/2/10      11:00 AM  PM

Casing – Please report time casing run starts, not cementing times.

- Surface Casing
- Intermediate Casing
- Production Casing
- Liner
- Other

Date/Time 2/2/10      4:00 AM  PM

BOPE

- Initial BOPE test at surface casing point
- BOPE test at intermediate casing point
- 30 day BOPE test
- Other

Date/Time \_\_\_\_\_ AM  PM

Remarks Spud With Ross Rig #29 @11:00 AM On 2/2/10 Run Csg  
On 2/2/10 @ 4:00 PM

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 area code)  
435.646.3721

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

Section 4 T9S R16E

5. Lease Serial No.

USA UTU-77338

6. If Indian, Allottee or Tribe Name.

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

GMBU

8. Well Name and No.

S WELLS DRW S-4-9-16

9. API Well No.

4301350060

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE, UT

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

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

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

On 2/2/10 MIRU Ross # 29. Spud well @ 9:00 AM. Drill 320' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24 # csgn. Set @ 318.74 KB. On 2/5/10 cement with 160 sks of class "G" w/ 2% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cf/ sk yeild. Returned 7 bbls cement to pit. WOC.

I hereby certify that the foregoing is true and correct (Printed/ Typed) Ryan Crum	Title Drilling Foreman
Signature 	Date 02/08/2010

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

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

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

(Instructions on page 2)

**RECEIVED**

**FEB 16 2010**

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





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

ADDRESS: RT. 3 BOX 3630  
MYTON, UT 84052

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
<del>A</del>	<del>99999</del>		<del>4301334237</del>	<del>UTE TRIBAL 4-19-4-2</del>	<del>NWNW</del>	<del>19</del>	<del>4S</del>	<del>2W</del>	<del>DUCHESNE</del>	<del>2/4/2010</del>	
WELL 1 COMMENTS: <i>Duplicate - 1st processed 1/14/10</i>											
<del>A</del>	<del>99999</del>		<del>43001334235</del>	<del>UTE TRIBAL 2-19-4-2</del>	<del>NWNE</del>	<del>19</del>	<del>4S</del>	<del>2W</del>	<del>DUCHESNE</del>	<del>2/4/2010</del>	
WELL 1 COMMENTS: <i>Duplicate - 1st processed 1/14/10</i>											
A	99999	17504	4301350160	UTE TRIBAL 7-26-4-3	SWNE	26	4S	3W	DUCHESNE	2/11/2010	2/18/10
<i>GRRV</i>											
B	99999	17400 ✓	4301350060	S WELLS DRAW S-4-9-16	SESE	4	9S	16E	DUCHESNE	2/8/2010	2/18/10
<i>GRRV</i> <i>BML = NWSE</i>											
A	99999	17505	4304739330	UTE TRIBAL 6-25-4-1	<del>NEW</del> SENW	25	4S	1W	UINTAH	2/11/2010	2/18/10
WELL 5 COMMENTS: <i>GRRV</i> <i>BML = SENW</i>											
B	99999	17400 ✓	4301334093	GILSONITE R-32-8-17	SWSE	32	8S	17E	DUCHESNE	2/11/2010	2/18/10
WELL 5 COMMENTS: <i>GRRV</i> <i>BML = NWSE</i>											

ACTION CODES (See instructions on back of form)

- A - 1 new entity for new well (single well only)
- B - 1 well to existing entity (group or unit well)
- C - from one existing entity to another existing entity
- D - well from one existing entity to a new entity
- E - other (explain in comments section)

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

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 FEB 16 2010

DIV. OF OIL, GAS & MINING

*Jentri Park*  
 Signature \_\_\_\_\_ Jentri Park  
 Production Clerk \_\_\_\_\_ 02/12/10  
 Date \_\_\_\_\_

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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
USA UTU-77338

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:  
GMBU

8. WELL NAME and NUMBER:  
S WELLS DRW S-4-9-16

9. API NUMBER:  
4301350060

10. FIELD AND POOL, OR WILDCAT:  
MONUMENT BUTTE

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

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

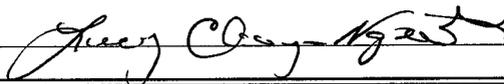
4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: COUNTY: DUCHESNE  
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: , 4, T9S, R16E STATE: UT

**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>03/09/2010</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 03-09-10, attached is a daily completion status report.

NAME (PLEASE PRINT) Lucy Chavez-Naupoto TITLE Administrative Assistant

SIGNATURE  DATE 03/22/2010

(This space for State use only)

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**MAR 29 2010**  
DIV. OF OIL, GAS & MINING

## Daily Activity Report

Format For Sundry

**S WELLS DRW S-4-9-16**

**1/1/2010 To 5/30/2010**

**3/1/2010 Day: 1**

**Completion**

Rigless on 3/1/2010 - Run CBL & shoot first stage. 151 BWTR. - 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 @ 6314' cement top @ 30'. Perforate stage #1. CP5 sds as shown in perforation report. 151 BWTR. SWIFN.

**Daily Cost:** \$0

**Cumulative Cost:** \$11,487

**3/4/2010 Day: 2**

**Completion**

Rigless on 3/4/2010 - Frac well. Flow well back. - Stage #5: RU WLT. RIH w/ frac plug & 5', 2' perf guns. Set plug @ 5045'. Perforate D1 sds @ 4960-65' & DS3 sds @ 4887-89' w/ 3 spf for total of 21 shots. RU BJ & open well w/ 1611 psi on casing. Perfs broke down @ 2402 psi back to 2206 psi w/ 3 bbls @ 3 bpm. ISIP was 1874 w/ .82FG. Pressure to low to leave shut down. Pump 30 gals of Techni Hib chemical @ 4% by volume. Frac w/ 19,810#'s of 20/40 sand in 319 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2668 @ ave rate of 30 bpm w/ 6 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2039 w/.85FG. 5 min was 1866. 10 min was 1771. 15 min was 1712. Leave pressure on well. 1779 bbls EWTR. - Stage #4: RU WLT. RIH w/ frac plug & 3' perf gun. Set plug @ 5210'. Perforate C sds @ 5115-18' w/ 3 spf for total of 9 shots. RU BJ & open well w/ 1678 psi on casing. Perfs broke down @ 2882 psi back to 2387 psi w/ 3 bbls @ 3 bpm. ISIP was 1988 w/ .83FG. Pressure to low to leave shut down. Pump 30 gals of Techni Hib chemical @ 4% by volume. Frac w/ 8973#'s of 20/40 sand in 235 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 3402 @ ave rate of 19 bpm w/ 6 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2274 w/.88FG. 5 min was 1779. 10 min was 1738. 15 min was 1707. Leave pressure on well. 1460 bbls EWTR. - Stage #3: RU WLT. RIH w/ frac plug & 7' perf gun. Set plug @ 5370'. Perforate B2 sds @ 5262-69' w/ 3 spf for total of 21 shots. RU BJ & open well w/ 1860 psi on casing. Perfs broke down @ 2067 psi back to 2000 psi w/ 3 bbls @ 3 bpm. Pressure to low to shut down. Pump 30 gals of Techni Hib chemical @ 4% by volume. Frac w/ 19,253#'s of 20/40 sand in 342 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2446 @ ave rate of 24 bpm w/ 6 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2004 w/.82FG. 5 min was 1789. 10 min was 1778. 15 min was 1767. Leave pressure on well. 1225 bbls EWTR. - Stage #2: RU Perforator LLC WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" (6K) composite flow through frac plug & 4' perf gun. Set plug @ 5530'. Perforate A3 sds @ 5424-28' w/ 3-1/8" Port Gun (11 gram, .36"EH, 120°, 16.82"pen) w/ 3 spf for total of 12 shots. RU BJ & open well w/ 1640 psi on casing. Perfs broke down @ 2251 psi back to 2206 psi w/ 3 bbls @ 3 bpm. ISIP was 1997 w/ .81FG. 1 min was 1850 psi. 4 min was 11646. Pump 30 gals of Techni Hib chemical @ 4% by volume. Frac w/ 9118#'s of 20/40 sand in 250 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 3447 @ ave rate of 24 bpm w/ 6 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2169 w/.84FG. 5 min was 1929. 10 min was 1896. 15 min was 1882. Leave pressure on well. 883 bbls EWTR. - Stage #1: RU BJ Services "Ram Head" frac flange. RU BJ & open well w/ 30 psi on casing. Perfs broke down @ 3128 psi back to 1533 psi w/ 3 bbls @ 3 bpm. ISIP was 1349 w/ .65FG. 1 min was 1162 psi. 4 min was 1057. Pump 6 bbls of 15% HCL acid. Pump 30 gals of Techni Hib chemical @ 4% by volume. Frac w/ 24,805#'s of 20/40 sand in 482 bbls of Lightning 17 frac fluid. Treatd @ ave pressure of 2503 @ ave rate of 37 bpm w/ 6 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 1927 w/.75FG. 5 min

was 1780. 10 min was 1742. 15 min was 1707. Leave pressure on well. 633 bbls EWTR. - Stage #6: RU WLT. RIH w/ frac plug & 10', 1' perf guns. Set plug @ 4570'. Perferate GB6 sds @ 4462-72', 4451-52' w/ 3 spf for total of 33 shots. RU BJ & open well w/ 1640 psi on casing. Perfs broke down @ 1804 psi back to 1723 psi w/ 3 bbls @ 3 bpm. Pressure to low to shut down. Pump 30 gals of Techni Hib chemical @ 4% by volume. Frac w/ 50,000#'s of 20/40 sand in 446 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2106 @ ave rate of 34 bpm w/ 8 ppg of sand. ISIP was 1906 w/.86FG. 5 min was 1794. 10 min was 1731. 15 min was 1686. RD BJ & WLT. Flow well back. Well flowed for 5 hours & turned to oil w/ 700 bbls rec'd. 1522 bbls EWTR.

**Daily Cost:** \$0

**Cumulative Cost:** \$99,281

**3/8/2010 Day: 3**

**Completion**

NC #3 on 3/8/2010 - MIRUSU. - OWU. 400 psi on csg & 350 psi on tbg. TIH w/ tbg to fill @ 6271'. RU RBS power swivel. Clean out fill to PBTD @ 6349'. CWC. RD power swivel. LD 3- jts 2 7/8. EOT @ 6255'. RU sandline to swab. IFL @ surface. Made 13 swab runs. FFL @ 1000'. Recovered 145 bbls fluid w/ 5% oil cut w/ no sand. RD sandline. TIH w/ 3- jts 2 7/8. Tag fill @ 6341'. (8' of fill). Clean out fill to PBTD @ 6349'. CWC. LD 4- jts 2 7/8. TOH w/ 198- jts 2 7/8, bit & bit sub. PU TIH w/ NC, 2- jts 2 7/8, SN, 1- jt 2 7/8, TA, 195- jts 2 7/8. RD rig floor. ND BOP. Set TA w/ 18000 tension. NU wellhead. X- over to rod eq. SDFD. - Talley, drift & TIH w/ 140- jts 2 7/8. Tag kill plg @ 4400'. RU RBS power swivel, & rig pump. Drill out kill plg. TIH w/ tbg to CBP @ 4600'. Drill out CBP. TIH w/ tbg to CBP @ 5045'. Drill out CBP. TIH w/ tbg to CBP @ 5210'. Drill out CBP. TIH w/ tbg to CBP @ 5370'. Drill out CBP. TIH w/ tbg to CBP @ 5530'. Drill out CBP. TIH w/ tbg to fill @ 6271'. TOH w/ 3- jts 2 7/8. EOT @ 6177'. SDFD. - RU Perforators to set kill plg @ 4400'. RD Perforators. MIRUSU. ND frac head & BOP. NU production head & BOP. RU rig floor. SDFD. - OWU. 400 psi on csg & 350 psi on tbg. TIH w/ tbg to fill @ 6271'. RU RBS power swivel. Clean out fill to PBTD @ 6349'. CWC. RD power swivel. LD 3- jts 2 7/8. EOT @ 6255'. RU sandline to swab. IFL @ surface. Made 13 swab runs. FFL @ 1000'. Recovered 145 bbls fluid w/ 5% oil cut w/ no sand. RD sandline. TIH w/ 3- jts 2 7/8. Tag fill @ 6341'. (8' of fill). Clean out fill to PBTD @ 6349'. CWC. LD 4- jts 2 7/8. TOH w/ 198- jts 2 7/8, bit & bit sub. PU TIH w/ NC, 2- jts 2 7/8, SN, 1- jt 2 7/8, TA, 195- jts 2 7/8. RD rig floor. ND BOP. Set TA w/ 18000 tension. NU wellhead. X- over to rod eq. SDFD. - Talley, drift & TIH w/ 140- jts 2 7/8. Tag kill plg @ 4400'. RU RBS power swivel, & rig pump. Drill out kill plg. TIH w/ tbg to CBP @ 4600'. Drill out CBP. TIH w/ tbg to CBP @ 5045'. Drill out CBP. TIH w/ tbg to CBP @ 5210'. Drill out CBP. TIH w/ tbg to CBP @ 5370'. Drill out CBP. TIH w/ tbg to CBP @ 5530'. Drill out CBP. TIH w/ tbg to fill @ 6271'. TOH w/ 3- jts 2 7/8. EOT @ 6177'. SDFD. - RU Perforators to set kill plg @ 4400'. RD Perforators. MIRUSU. ND frac head & BOP. NU production head & BOP. RU rig floor. SDFD. - OWU. 400 psi on csg & 350 psi on tbg. TIH w/ tbg to fill @ 6271'. RU RBS power swivel. Clean out fill to PBTD @ 6349'. CWC. RD power swivel. LD 3- jts 2 7/8. EOT @ 6255'. RU sandline to swab. IFL @ surface. Made 13 swab runs. FFL @ 1000'. Recovered 145 bbls fluid w/ 5% oil cut w/ no sand. RD sandline. TIH w/ 3- jts 2 7/8. Tag fill @ 6341'. (8' of fill). Clean out fill to PBTD @ 6349'. CWC. LD 4- jts 2 7/8. TOH w/ 198- jts 2 7/8, bit & bit sub. PU TIH w/ NC, 2- jts 2 7/8, SN, 1- jt 2 7/8, TA, 195- jts 2 7/8. RD rig floor. ND BOP. Set TA w/ 18000 tension. NU wellhead. X- over to rod eq. SDFD. - Talley, drift & TIH w/ 140- jts 2 7/8. Tag kill plg @ 4400'. RU RBS power swivel, & rig pump. Drill out kill plg. TIH w/ tbg to CBP @ 4600'. Drill out CBP. TIH w/ tbg to CBP @ 5045'. Drill out CBP. TIH w/ tbg to CBP @ 5210'. Drill out CBP. TIH w/ tbg to CBP @ 5370'. Drill out CBP. TIH w/ tbg to CBP @ 5530'. Drill out CBP. TIH w/ tbg to fill @ 6271'. TOH w/ 3- jts 2 7/8. EOT @ 6177'. SDFD. - RU Perforators to set kill plg @ 4400'. RD Perforators. MIRUSU. ND frac head & BOP. NU production head & BOP. RU rig floor. SDFD.

**Daily Cost:** \$0

**Cumulative Cost:** \$105,166

**3/9/2010 Day: 6****Completion**

NC #3 on 3/9/2010 - TIH w/ rods & PWOP. - Flush tbg w/ 30 bbls water @ 250°. PU TIH w/ 2 1/2 x 1 3/4 x 20 x 24 RHAC, 4- 1 1/2 wt bars, 241- 7/8 guided rods, 8', 6', 4', x 7/8 pony rods, 1 1/2 x 30' polish rod. RU pumping unit. W/ tbg full stroke test rod pump to 800 psi. Good test. RDMOSU. POP @ 4:00 W/ 144" SL @ 5 SPM FINAL REPORT!! **Finalized**

**Daily Cost:** \$0**Cumulative Cost:** \$216,930

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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**

5. Lease Serial No. **UTU-77338**

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No. **GMBU**

8. Lease Name and Well No. **S WELLS DRW S-4-9-16**

9. AFI Well No. **43-013-50060**

10. Field and Pool or Exploratory **MONUMENT BUTTE**

11. Sec., T., R., M., on Block and Survey or Area **SEC. 4, T9S, R16E**

12. County or Parish **DUCHESNE** 13. State **UT**

14. Date Spudded **02/02/2010** 15. Date T.D. Reached **02/15/2010** 16. Date Completed **03/09/2010**  
 D & A  Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\* **5740' GL 5752' KB**

18. Total Depth: MD **6383'** TVD **6254'** 19. Plug Back T.D.: MD **6349'** TVD **6233'** 20. Depth Bridge Plug Set: MD **TVD**

2. Name of Operator **NEWFIELD EXPLORATION COMPANY**

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

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
At surface **736' FSL & 723' FEL (SE/SE) SEC. 4, T9S, R16E (UTU-77338)**  
At top prod. interval reported below **1274' FSL & 1254' FEL (SE/SE) SEC. 4, T9S, R16E (UTU-77338)**  
At total depth **1556' FSL & 1512' FEL (NW/SE) SEC. 4, T9S, R16E (UTU-77338)**

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 Cement Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24#	0	319'		160 CLASS G			
7-7/8"	5-1/2" J-55	15.5#	0	6373'		300 PRIMLITE		30'	
						422 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@ 6233'	TA @ 6134'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Green River			6144-6170' CP5	.36"	3	24
B) Green River			5424-5428' A3	.36"	3	12
C) Green River			5262-5269' B2	.36"	3	21
D) Green River			5115-5118' C	.36"	3	9

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

Depth Interval	Amount and Type of Material
6144-6170'	Frac w/ 24805#'s 20/40 sand in 145 bbls of Lightning 17 fluid. (CP5)
5424-5428'	Frac w/ 9118#'s 20/40 sand in 59 bbls of Lightning 17 fluid. (A3)
5262-5269'	Frac w/ 19253#'s 20/40 sand in 115 bbls of Lightning 17 fluid. (B2)
5115-5118'	Frac w/ 8973#'s 20/40 sand in 59 bbls of Lightning 17 fluid. (C)

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
3-9-10	3-25-10	24	→	148	0	146			2-1/2" x 1-3/4" x 20' x 24' RHAC Pump
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	PRODUCING
			→						

28a. Production - Interval B

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

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**APR 20 2010**

\*(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	3881' 4103'
				GARDEN GULCH 2 POINT 3	4219' 4489'
				X MRKR Y MRKR	4758' 4792'
				DOUGALS CREEK MRK BI CARBONATE MRK	4917' 5164'
				B LIMESTON MRK CASTLE PEAK	5290' 5809'
				BASAL CARBONATE	6250'

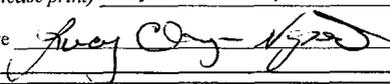
32. Additional remarks (include plugging procedure):

Stage 5: Green River Formation (D1 & DS3) 4887-4965', .36" 3/21 Frac w/ 19810#'s of 20/40 sand in 117bbls of Lightning 17 fluid  
 Stage 2: Green River Formation (GB6) 4451-4472', .36" 3/33 Frac w/ 50000#'s of 20/40 sand in 218 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: Drilling Daily Activity

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) Lucy Chavez-Naupoto Title Administrative Assistant  
 Signature  Date 04/08/2010

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.

**NEWFIELD**



# **NEWFIELD EXPLORATION**

**USGS Myton SW (UT)**

**SECTION 4**

**S-4-9-16**

**Wellbore #1**

**Design: Actual**

## **Standard Survey Report**

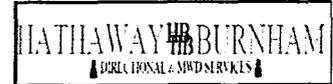
**29 March, 2010**

**HATHAWAY <sup>HB</sup> <sub>HB</sub> BURNHAM**  
**⌘ DIRECTIONAL & MWD SERVICES ⌘**



# HATHAWAY BURNHAM

## Survey Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 4  
**Well:** S-4-9-16  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well S-4-9-16  
**TVD Reference:** WELL @ 5752.0ft (NEWFIELD RIG)  
**MD Reference:** WELL @ 5752.0ft (NEWFIELD RIG)  
**North Reference:** True  
**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 4, SEC 4 T9S, R16E		
<b>Site Position:</b>		<b>Northing:</b>	7,193,502.00 ft
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,026,216.16 ft
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"
		<b>Latitude:</b>	40° 3' 35.508 N
		<b>Longitude:</b>	110° 7' 17.611 W
		<b>Grid Convergence:</b>	0.88 °

<b>Well</b>	S-4-9-16, SHL: LAT 40 03 16.60, LONG -110 07 02.82		
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b> 7,191,606.78 ft
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b> 2,027,395.56 ft
<b>Position Uncertainty</b>	0.0 ft	<b>Wellhead Elevation:</b>	5,752.0 ft
		<b>Ground Level:</b>	5,740.0 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	2009/12/31	11.51	65.84	52,441

<b>Design</b>	Actual			
<b>Audit Notes:</b>				
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b> 0.0
<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	316.92

<b>Survey Program</b>	<b>Date</b>	2010/03/29		
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
423.0	6,370.0	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
423.0	1.19	359.69	423.0	4.4	0.0	3.2	0.28	0.28	0.00
454.0	1.23	359.97	454.0	5.0	0.0	3.7	0.13	0.13	0.90
484.0	1.30	358.66	484.0	5.7	0.0	4.2	0.25	0.23	-4.37
515.0	1.50	347.60	514.9	6.5	-0.1	4.8	1.08	0.65	-35.68
545.0	1.80	342.60	544.9	7.3	-0.4	5.6	1.11	1.00	-16.67
576.0	2.10	332.30	575.9	8.3	-0.8	6.6	1.48	0.97	-33.23
607.0	2.60	327.30	606.9	9.4	-1.4	7.8	1.74	1.61	-16.13
637.0	3.20	322.90	636.9	10.6	-2.3	9.3	2.13	2.00	-14.67
668.0	3.80	323.10	667.8	12.1	-3.4	11.2	1.94	1.94	0.65
698.0	4.20	320.20	697.7	13.7	-4.7	13.3	1.49	1.33	-9.67
729.0	4.60	321.50	728.6	15.6	-6.2	15.6	1.33	1.29	4.19
759.0	5.00	320.00	758.5	17.5	-7.8	18.1	1.40	1.33	-5.00



# HATHAWAY BURNHAM

## Survey Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 4  
**Well:** S-4-9-16  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well S-4-9-16  
**TVD Reference:** WELL @ 5752.0ft (NEWFIELD RIG)  
**MD Reference:** WELL @ 5752.0ft (NEWFIELD RIG)  
**North Reference:** True  
**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)
790.0	5.20	317.70	789.4	19.6	-9.6	20.9	0.92	0.65	-7.42
821.0	5.50	317.30	820.3	21.7	-11.6	23.8	0.98	0.97	-1.29
851.0	6.00	315.90	850.1	23.9	-13.6	26.8	1.73	1.67	-4.67
882.0	6.50	312.20	880.9	26.3	-16.1	30.2	2.07	1.61	-11.94
913.0	7.00	310.50	911.7	28.7	-18.8	33.8	1.74	1.61	-5.48
945.0	7.30	307.30	943.5	31.2	-21.9	37.7	1.56	0.94	-10.00
977.0	7.80	308.50	975.2	33.7	-25.2	41.9	1.64	1.56	3.75
1,008.0	8.10	308.50	1,005.9	36.4	-28.6	46.1	0.97	0.97	0.00
1,040.0	8.60	309.30	1,037.6	39.3	-32.2	50.7	1.60	1.56	2.50
1,072.0	9.10	308.90	1,069.2	42.4	-36.0	55.6	1.57	1.56	-1.25
1,104.0	9.40	308.80	1,100.8	45.7	-40.0	60.7	0.94	0.94	-0.31
1,135.0	9.90	308.80	1,131.3	48.9	-44.1	65.8	1.61	1.61	0.00
1,166.0	10.30	309.90	1,161.8	52.4	-48.3	71.2	1.43	1.29	3.55
1,198.0	10.80	310.20	1,193.3	56.1	-52.8	77.0	1.57	1.56	0.94
1,230.0	11.30	310.80	1,224.7	60.1	-57.4	83.1	1.60	1.56	1.88
1,262.0	11.60	311.10	1,256.1	64.3	-62.2	89.5	0.96	0.94	0.94
1,294.0	11.91	312.01	1,287.4	68.6	-67.1	95.9	1.13	0.97	2.84
1,326.0	12.08	312.60	1,318.7	73.1	-72.0	102.6	0.66	0.53	1.84
1,357.0	12.05	313.22	1,349.0	77.5	-76.8	109.0	0.43	-0.10	2.00
1,452.0	12.30	316.10	1,441.9	91.6	-91.0	129.0	0.69	0.26	3.03
1,548.0	12.59	317.35	1,535.6	106.6	-105.2	149.7	0.41	0.30	1.30
1,643.0	12.37	317.46	1,628.4	121.8	-119.1	170.3	0.23	-0.23	0.12
1,738.0	12.02	316.07	1,721.2	136.4	-132.8	190.3	0.48	-0.37	-1.46
1,833.0	11.35	314.42	1,814.3	150.0	-146.4	209.6	0.79	-0.71	-1.74
1,927.0	11.84	316.36	1,906.3	163.5	-159.6	228.4	0.67	0.52	2.06
2,023.0	11.34	316.38	2,000.4	177.5	-172.9	247.7	0.52	-0.52	0.02
2,118.0	12.15	318.29	2,093.4	191.7	-186.0	267.1	0.95	0.85	2.01
2,213.0	12.55	319.02	2,186.2	206.9	-199.4	287.4	0.45	0.42	0.77
2,309.0	11.25	317.19	2,280.1	221.7	-212.7	307.2	1.41	-1.35	-1.91
2,404.0	11.58	316.95	2,373.3	235.5	-225.5	326.0	0.35	0.35	-0.25
2,497.0	11.80	314.20	2,464.3	248.9	-238.6	344.8	0.64	0.24	-2.96
2,592.0	10.90	308.80	2,557.5	261.3	-252.6	363.4	1.46	-0.95	-5.68
2,687.0	9.50	302.60	2,651.0	271.2	-266.2	379.9	1.87	-1.47	-6.53
2,784.0	9.20	299.80	2,746.7	279.3	-279.7	395.1	0.56	-0.31	-2.89
2,878.0	9.70	303.60	2,839.4	287.4	-292.8	409.9	0.85	0.53	4.04
2,973.0	12.60	305.30	2,932.6	297.9	-307.9	427.9	3.07	3.05	1.79
3,067.0	13.50	308.40	3,024.2	310.6	-324.9	448.8	1.21	0.96	3.30
3,162.0	12.80	310.20	3,116.7	324.3	-341.6	470.2	0.85	-0.74	1.89
3,258.0	12.40	314.50	3,210.4	338.4	-357.1	491.1	1.06	-0.42	4.48
3,353.0	12.20	314.10	3,303.2	352.5	-371.6	511.3	0.23	-0.21	-0.42
3,448.0	12.20	319.60	3,396.0	367.1	-385.3	531.3	1.22	0.00	5.79
3,543.0	12.50	318.50	3,488.9	382.5	-398.6	551.6	0.40	0.32	-1.16
3,638.0	12.37	318.31	3,581.6	397.8	-412.2	572.1	0.14	-0.14	-0.20
3,733.0	12.88	319.54	3,674.3	413.4	-425.8	592.8	0.61	0.54	1.29
3,829.0	11.34	317.74	3,768.2	428.6	-439.1	613.0	1.65	-1.60	-1.88
3,925.0	11.30	315.10	3,862.3	442.2	-452.1	631.8	0.54	-0.04	-2.75
4,020.0	11.93	319.19	3,955.4	456.2	-465.1	650.9	1.09	0.66	4.31
4,115.0	12.50	322.60	4,048.2	471.8	-477.8	670.9	0.97	0.60	3.59
4,210.0	13.54	320.40	4,140.8	488.6	-491.1	692.3	1.21	1.09	-2.32
4,305.0	13.10	320.70	4,233.2	505.5	-505.0	714.1	0.47	-0.46	0.32
4,398.0	12.40	321.00	4,323.9	521.4	-518.0	734.6	0.76	-0.75	0.32
4,494.0	12.80	322.00	4,417.6	537.8	↔ -531.0	755.5	0.47	0.42	1.04
4,589.0	11.70	320.20	4,510.5	553.5	-543.6	775.6	1.23	-1.16	-1.89
4,684.0	12.20	317.50	4,603.4	568.3	-556.6	795.2	0.79	0.53	-2.84



# HATHAWAY BURNHAM

## Survey Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 4  
**Well:** S-4-9-16  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well S-4-9-16  
**TVD Reference:** WELL @ 5752.0ft (NEWFIELD RIG)  
**MD Reference:** WELL @ 5752.0ft (NEWFIELD RIG)  
**North Reference:** True  
**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)
4,779.0	11.80	318.00	4,696.3	582.9	-569.9	815.0	0.44	-0.42	0.53
4,874.0	12.50	318.20	4,789.2	597.8	-583.2	835.0	0.74	0.74	0.21
4,970.0	13.20	317.90	4,882.8	613.6	-597.5	856.3	0.73	0.73	-0.31
5,065.0	13.07	316.31	4,975.3	629.5	-612.2	877.9	0.40	-0.14	-1.67
5,160.0	12.57	317.68	5,067.9	644.9	-626.6	899.0	0.62	-0.53	1.44
5,255.0	11.93	318.62	5,160.8	659.9	-640.0	919.1	0.71	-0.67	0.99
5,350.0	11.51	318.71	5,253.8	674.4	-652.8	938.4	0.44	-0.44	0.09
5,396.7	11.97	317.91	5,299.6	681.5	-659.1	947.9	1.04	0.98	-1.71
<b>S-4-9-16 TGT</b>									
5,445.0	12.44	317.15	5,346.7	689.0	-666.0	958.1	1.04	0.98	-1.58
5,540.0	11.50	312.60	5,439.7	702.9	-679.9	977.8	1.40	-0.99	-4.79
5,635.0	12.10	315.50	5,532.7	716.4	-693.9	997.2	0.89	0.63	3.05
5,729.0	12.30	315.80	5,624.5	730.6	-707.7	1,017.1	0.22	0.21	0.32
5,824.0	10.00	314.20	5,717.7	743.6	-720.7	1,035.4	2.44	-2.42	-1.68
5,919.0	11.00	317.30	5,811.1	756.0	-732.8	1,052.7	1.21	1.05	3.26
6,015.0	11.10	319.50	5,905.4	769.8	-745.0	1,071.1	0.45	0.10	2.29
6,110.0	11.10	319.00	5,998.6	783.7	-756.9	1,089.4	0.10	0.00	-0.53
6,205.0	12.00	319.30	6,091.7	798.0	-769.4	1,108.4	0.95	0.95	0.32
6,316.0	9.47	318.14	6,200.7	813.6	-783.0	1,129.0	2.29	-2.28	-1.05
6,370.0	9.30	318.00	6,254.0	820.2	-788.9	1,137.9	0.32	-0.31	-0.26

### Wellbore Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
S-4-9-16 TGT	0.00	0.00	5,300.0	690.6	-645.8	7,192,287.28	2,026,739.21	40° 3' 23.425 N	110° 7' 11.125 W
- hit/miss target									
- Shape									
- actual wellpath misses by 16.1ft at 5396.7ft MD (5299.6 TVD, 681.5 N, -659.1 E)									
- Circle (radius 75.0)									

Checked By: _____	Approved By: _____	Date: _____
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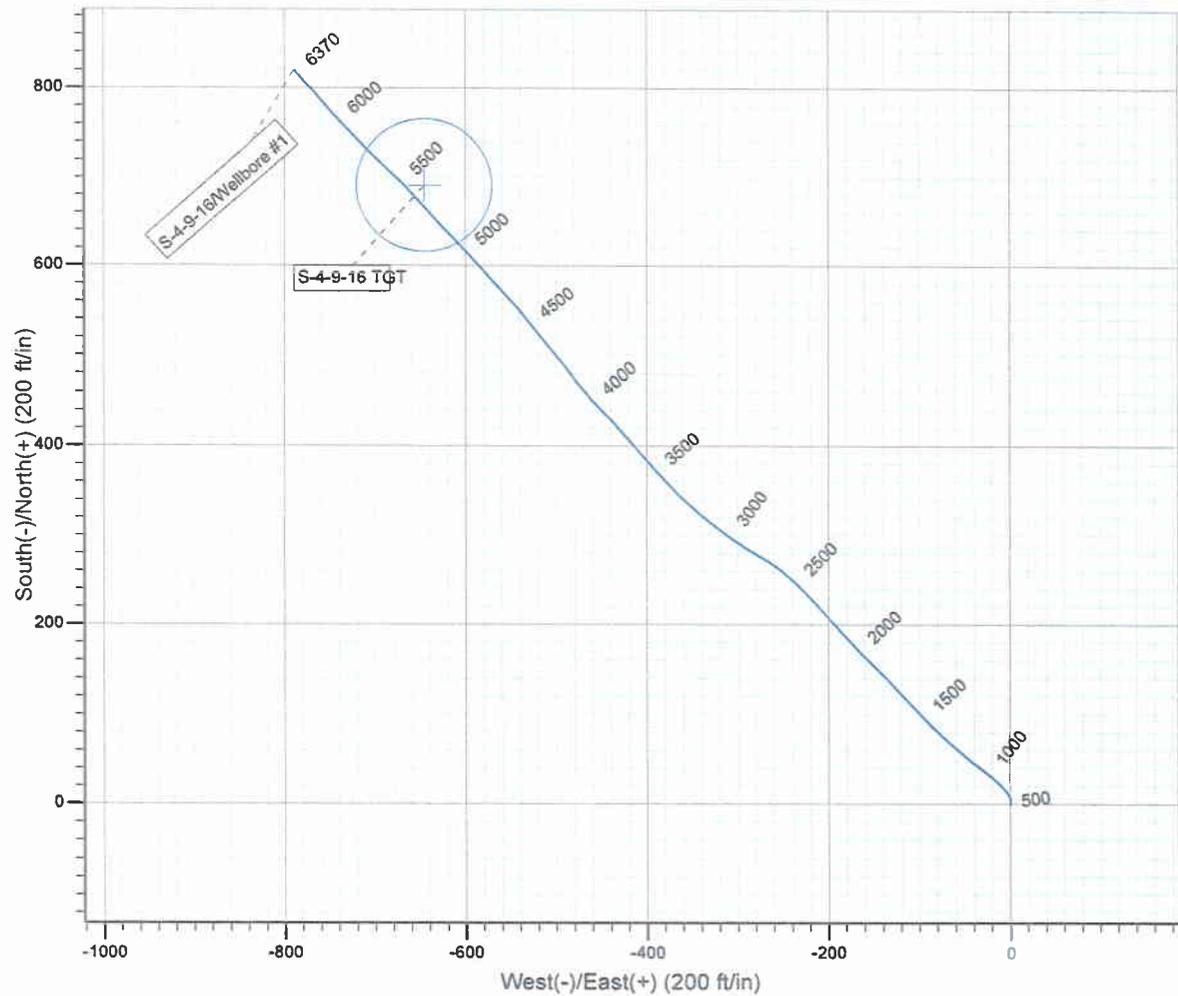
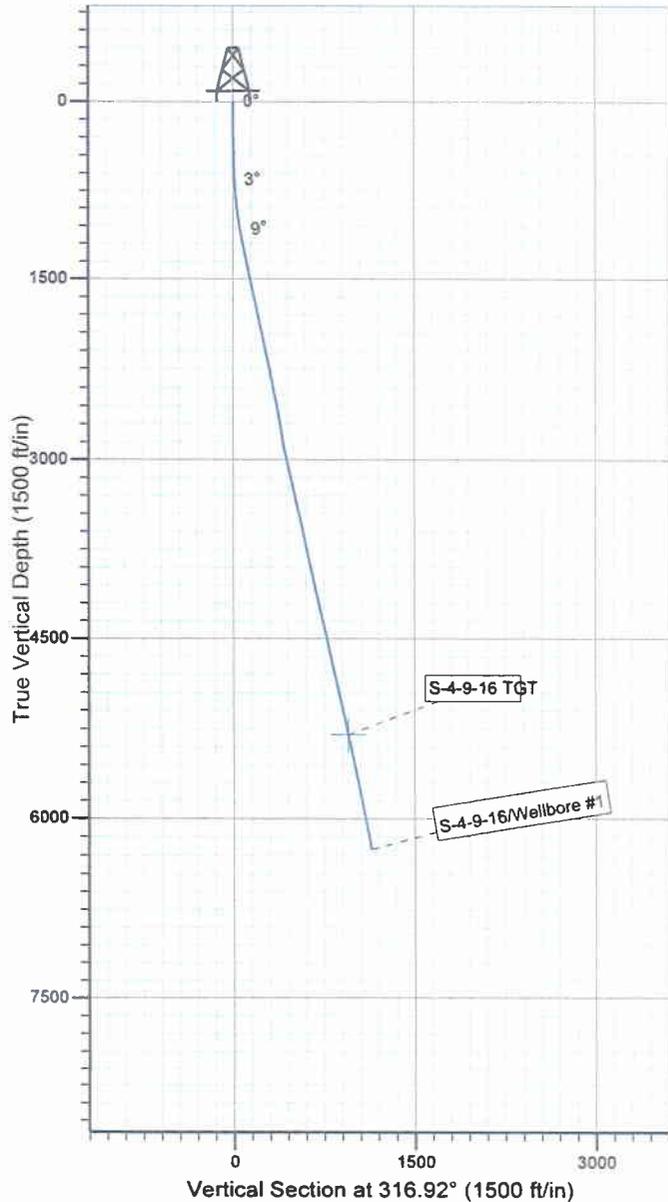
Project: USGS Myton SW (UT)  
 Site: SECTION 4  
 Well: S-4-9-16  
 Wellbore: Wellbore #1  
 SURVEY: Actual

FINAL SURVEY REPORT



Azimuths to True North  
 Magnetic North: 11.51°

Magnetic Field  
 Strength: 52441.4snT  
 Dip Angle: 65.84°  
 Date: 2009/12/31  
 Model: IGRF200510



Design: Actual (S-4-9-16/Wellbore #1)

Created By: *Tom Hudson* Date: 21:06, March 29 2010  
 THIS SURVEY IS CORRECT TO THE BEST OF MY  
 KNOWLEDGE AND IS SUPPORTED BY ACTUAL FIELD DATA.





















