

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

FORM 3

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL				1. WELL NAME and NUMBER South Monument Butte State L-2-9-16		
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>				3. FIELD OR WILDCAT MONUMENT BUTTE		
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO				5. UNIT or COMMUNITIZATION AGREEMENT NAME GMBU (GRRV)		
6. NAME OF OPERATOR NEWFIELD PRODUCTION COMPANY				7. OPERATOR PHONE 435 646-4825		
8. ADDRESS OF OPERATOR Rt 3 Box 3630 , Myton, UT, 84052				9. OPERATOR E-MAIL mcrozier@newfield.com		
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) ML-21839		11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>		12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>		
13. NAME OF SURFACE OWNER (if box 12 = 'fee')				14. SURFACE OWNER PHONE (if box 12 = 'fee')		
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')				16. SURFACE OWNER E-MAIL (if box 12 = 'fee')		
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')		18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>		19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>		
20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	2087 FNL 444 FEL	SENE	2	9.0 S	16.0 E	S
Top of Uppermost Producing Zone	2475 FNL 897 FEL	SENE	2	9.0 S	16.0 E	S
At Total Depth	2635 FSL 1131 FEL	NESE	2	9.0 S	16.0 E	S
21. COUNTY DUCHESNE		22. DISTANCE TO NEAREST LEASE LINE (Feet) 1131		23. NUMBER OF ACRES IN DRILLING UNIT 20		
		25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 995		26. PROPOSED DEPTH MD: 6325 TVD: 6325		
27. ELEVATION - GROUND LEVEL 5453		28. BOND NUMBER B001834		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 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

NAME Mandie Crozier	TITLE Regulatory Tech	PHONE 435 646-4825
SIGNATURE	DATE 12/01/2009	EMAIL mcrozier@newfield.com
API NUMBER ASSIGNED 43013501990000	APPROVAL  Permit Manager	

Proposed Hole, Casing, and Cement

String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	5.5	0	6325		
Pipe	Grade	Length	Weight			
	Grade J-55 LT&C	6325	15.5			

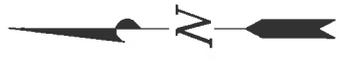
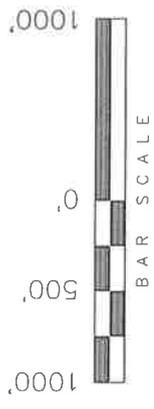
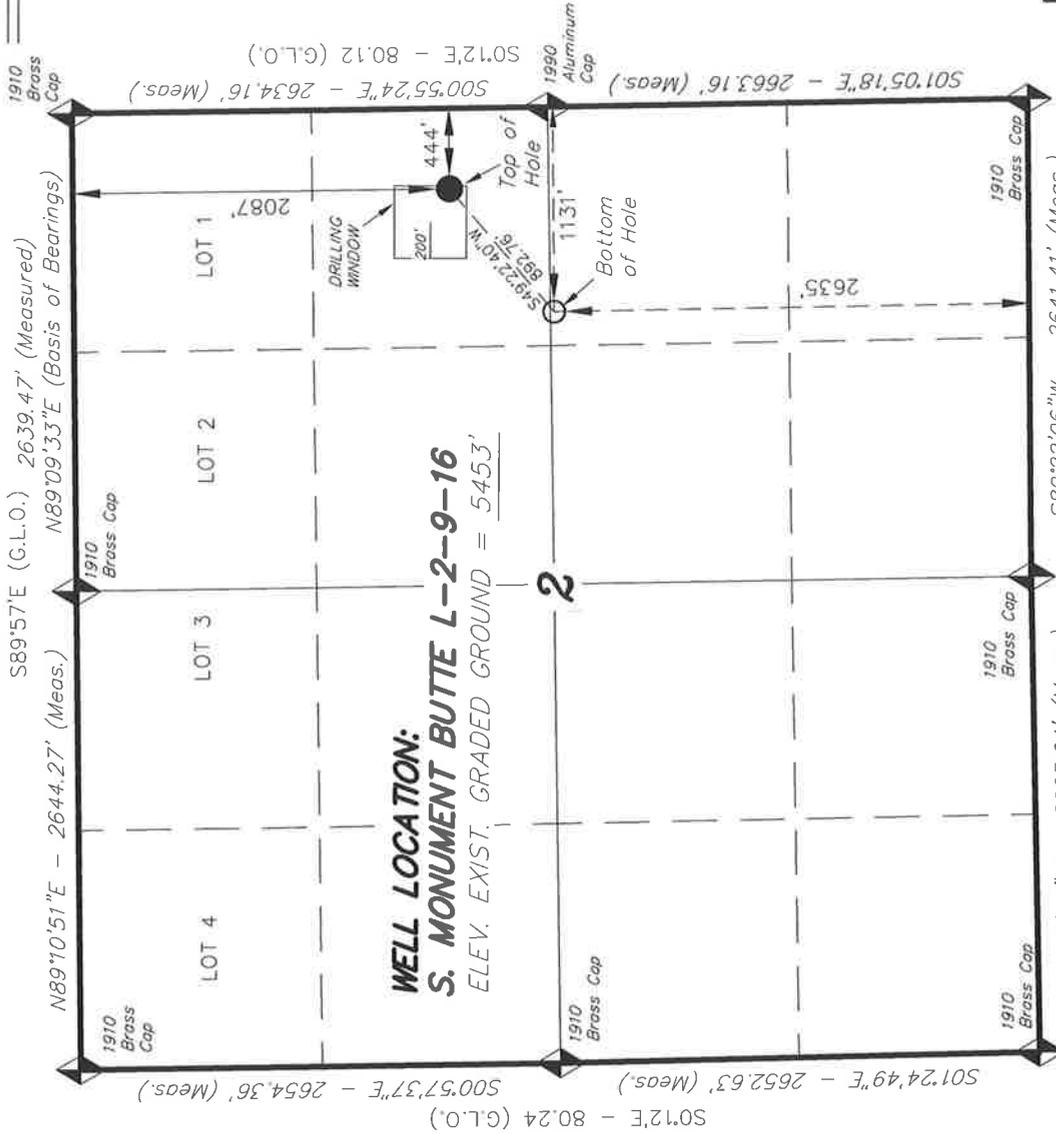
Proposed Hole, Casing, and Cement

String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	12.25	8.625	0	700		
Pipe	Grade	Length	Weight			
	Grade J-55 ST&C	700	24.0			

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

NEWFIELD PRODUCTION COMPANY

WELL LOCATION, S. MONUMENT BUTTE L-2-9-16, LOCATED AS SHOWN IN THE SE 1/4 NE 1/4 OF SECTION 2, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



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

REGISTERED LAND SURVEYOR
 REG. NO. 189377
 STACY W.
 STATE OF UTAH

TRI STATE LAND SURVEYING & CONSULTING	
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078 (435) 781-2501	
DATE SURVEYED: 09-09-09	SURVEYED BY: T.P.
DATE DRAWN: 10-06-09	DRAWN BY: M.W.
REVISED: 11-12-09 F.T.M.	SCALE: 1" = 1000'

S. MONUMENT BUTTE L-2-9-16
 (Surface Location) NAD 83
 LATITUDE = 40° 03' 41.08"
 LONGITUDE = 110° 04' 43.70"

◆ = SECTION CORNERS LOCATED

BASIS OF ELEV; Elevations are base on LOCATION: an N.G.S. OPUS Correction.
 LAT. 40°04'09.56" LONG. 110°00'43.28"
 (Tristate Aluminum Cap) Elev. 5281.57'

NEWFIELD PRODUCTION COMPANY
SOUTH MONUMENT BUTTE STATE L-2-9-16
AT SURFACE: SE/NE SECTION 2, T9S, R16E
DUCHESNE COUNTY, UTAH

TEN POINT DRILLING PROGRAM

1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

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

Uinta	0 – 1545'
Green River	1545'
Wasatch	6325'

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

Green River Formation 1545' – 6325' – Oil

Fresh water may be encountered in the Uinta Formation, but would not be expected below about 700'. All water shows and water bearing geologic units shall be reported to the geologic and engineering staff of the Vernal Office prior to running the next string of casing or before plugging orders are requested. All water shows must be reported within one (1) business day after being encountered.

All usable (<10,000 PPM TDS) water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by depth and adequately protected. This information shall be reported to the Vernal Office.

Detected water flows shall be sampled, analyzed, and reported to the geologic & engineering staff of the Vernal Office. The office may request additional water samples for further analysis. Usage of the State of Utah form *Report of Water Encountered* is acceptable, but not required.

The following information is requested for water shows and samples where applicable:

Location & Sampled Interval	Date Sampled
Flow Rate	Temperature
Hardness	pH
Water Classification (State of Utah)	Dissolved Calcium (Ca) (mg/l)
Dissolved Iron (Fe) (ug/l)	Dissolved Sodium (Na) (mg/l)
Dissolved Magnesium (Mg) (mg/l)	Dissolved Carbonate (CO ₃) (mg/l)
Dissolved Bicarbonate (NaHCO ₃) (mg/l)	Dissolved Chloride (Cl) (mg/l)
Dissolved Sulfate (SO ₄) (mg/l)	Dissolved Total Solids (TDS) (mg/l)

4. **PROPOSED CASING PROGRAM**

a. **Casing Design: So. Monument Butte State L-2-9-16**

Size	Interval		Weight	Grade	Coupling	Design Factors		
	Top	Bottom				Burst	Collapse	Tension
Surface casing 8-5/8"	0'	700'	24.0	J-55	STC	2,950 7.51	1,370 6.15	244,000 14.52
Prod casing 5-1/2"	0'	6,325'	15.5	J-55	LTC	4,810 2.39	4,040 2.01	217,000 2.21

Assumptions:

- 1) Surface casing max anticipated surface press (MASP) = Frac gradient – gas gradient
- 2) Prod casing MASP (production mode) = Pore pressure – gas gradient
- 3) All collapse calculations assume fully evacuated casing w/ gas gradient
- 4) All tension calculations assume air weight

Frac gradient at surface casing shoe = 13.0 ppg
 Pore pressure at surface casing shoe = 8.33 ppg
 Pore pressure at prod casing shoe = 8.33 ppg
 Gas gradient = 0.115 psi/ft

All casing shall be new or, if used, inspected and tested. Used casing shall meet or exceed API standards for new casing.

All casing strings shall have a minimum of 1 (one) centralizer on each of the bottom three (3) joints.

b. **Cementing Design: So. Monument Butte State L-2-9-16**

Job	Fill	Description	Sacks	OH Excess*	Weight (ppg)	Yield (ft ³ /sk)
			ft ³			
Surface casing	700'	Class G w/ 2% CaCl	321	30%	15.8	1.17
			376			
Prod casing Lead	4,325'	Prem Lite II w/ 10% gel + 3% KCl	299 974	30%	11.0	3.26
Prod casing Tail	2,000'	50/50 Poz w/ 2% gel + 3% KCl	363 451	30%	14.3	1.24

- *Actual volume pumped will be 15% over the caliper log
- Compressive strength of lead cement: 1800 psi @ 24 hours, 2250 psi @ 72 hours
 - Compressive strength of tail cement: 2500 psi @ 24 hours

Hole Sizes: A 12-1/4" hole will be drilled for the 8-5/8" surface casing. A 7-7/8" hole will be drilled for the 5-1/2" production casing.

Waiting On Cement: A minimum of four (4) hours shall elapse prior to attempting any pressure testing of the BOP equipment which would subject the surface casing cement to pressure, and a minimum of six (6) hours shall elapse before drilling out of the wiper plug, cement, or shoe is begun. WOC time shall be recorded in the Driller's Log. Compressive Strength shall be a minimum of 500 psi prior to drilling out.

The 8-5/8" surface casing shall in all cases be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if

the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.

The production casing cementing program shall be conducted as approved to protect and/or isolate all usable water zones, potentially productive zones, lost circulation zones, abnormally pressured zones, and any prospectively valuable deposits of minerals.

As a minimum, usable water zones shall be isolated and/or protected by having a cement top for the production casing at least 200 feet above the base of the usable water. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

Top plugs shall be used to reduce contamination of cement by displacement fluid. A bottom plug or other acceptable technique, such as a suitable preflush fluid, inner string cement method, etc., shall be utilized to help isolate the cement from contamination by the mud being displaced ahead of the cement slurry.

All casing strings below the conductor shall be pressure tested to 0.22 psi per foot of casing string length or to 1500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield. If pressure declines more than 10% in 30 minutes, corrective action shall be taken.

Setting of each string of casing showing the size, grade, weight of casing set, depth, amounts and type of cement used, whether cement circulated or the top of the cement behind the casing, depth of the cementing tools used, casing test method and results, and the date of the work done. Spud date will be shown on the first reports submitted.

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

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

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

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

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

From surface to ±700 feet will be drilled with an air/mist system. From about 700 feet to TD, a fresh water system will be utilized. Clay inhibition and hole stability will be achieved with a KCl substitute additive. This additive will be identified in the APD and reviewed to determine if the reserve pit shall be lined. This fresh water system will typically contain Total Dissolved Solids (TDS) of less than 3000 PPM. Anticipated mud weight is 8.4 lbs/gal. If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite.

No chromate additives will be used in the mud system on Federal and/or Indian lands without prior BLM approval to ensure adequate protection of fresh aquifers.

No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of this well.

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

Newfield Production will **visually** monitor pit levels and flow from the well during drilling operations.

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

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

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

The logging program will consist of a Dual Induction, Gamma Ray and Caliper log from TD to base of surface casing @ 700' +/-, and a Compensated Neutron-Formation Density Log from TD to 3500' +/- . A cement bond log will be run from PBTB to cement top. No drill stem testing or coring is planned for this well.

9. **ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

No abnormal temperatures or pressures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated bottomhole pressure will approximately equal total depth in feet multiplied by a 0.433 psi/foot gradient.

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

It is anticipated that the drilling operations will commence the first quarter of 2010, and take approximately seven (7) days from spud to rig release.

2-M SYSTEM

Blowout Prevention Equipment Systems

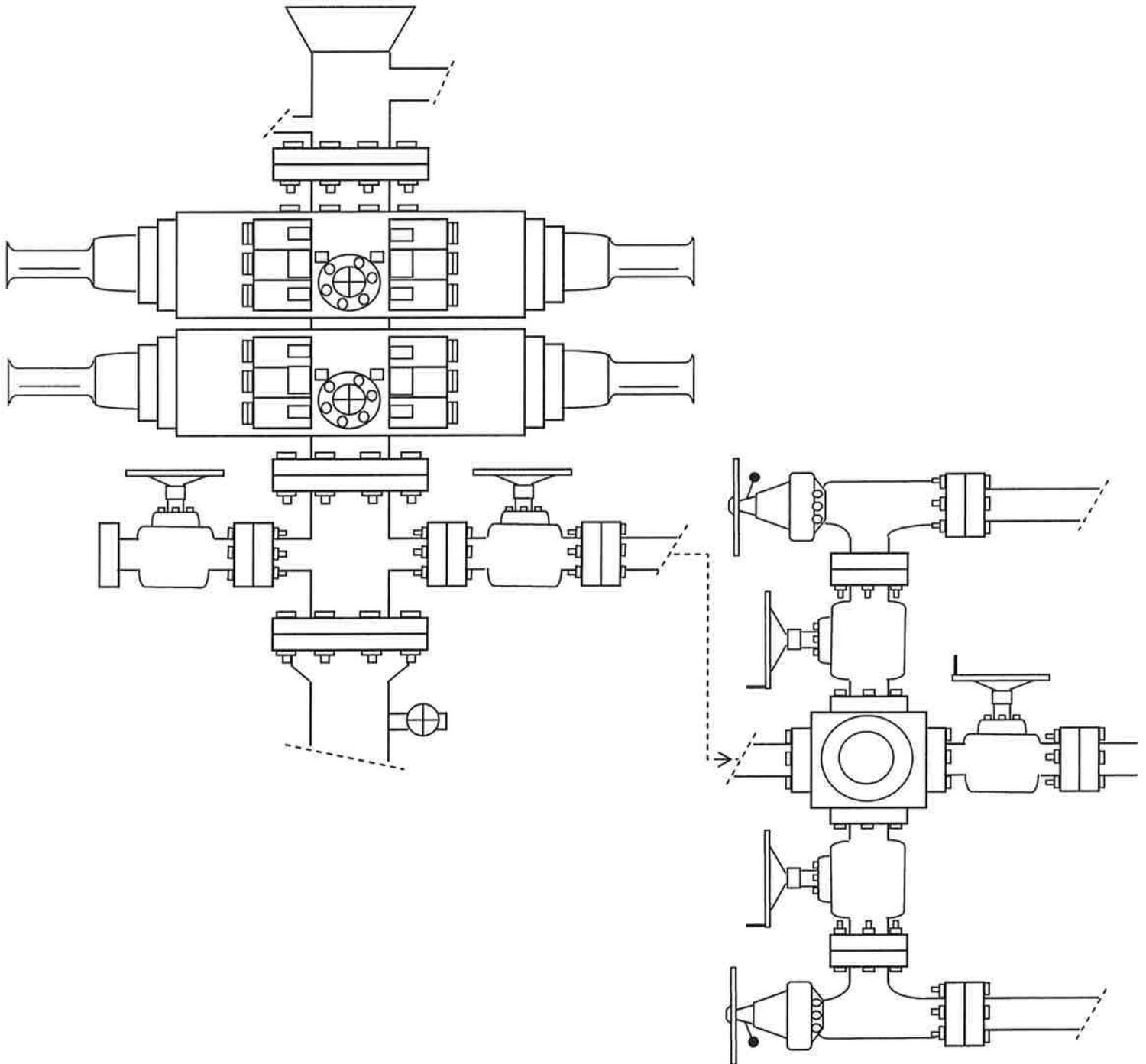


EXHIBIT C



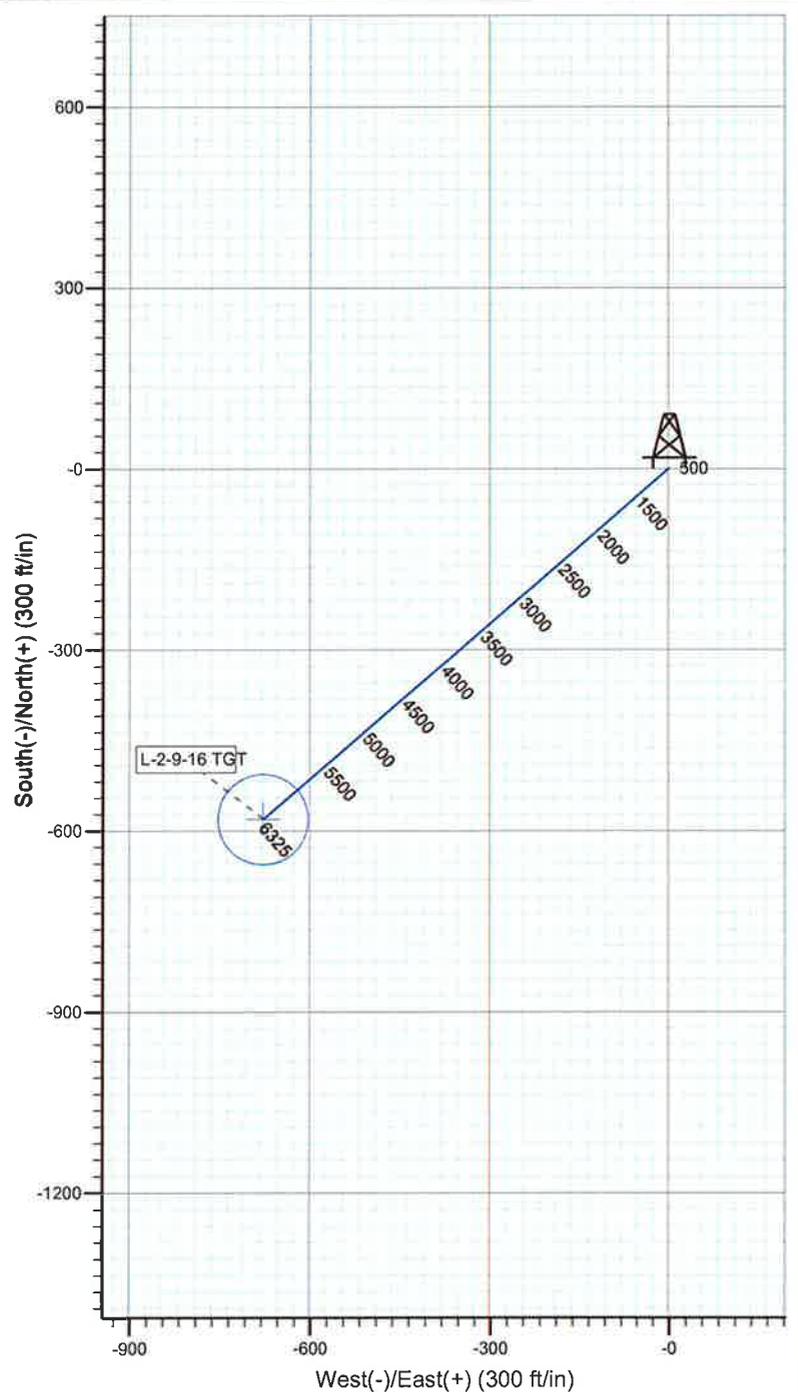
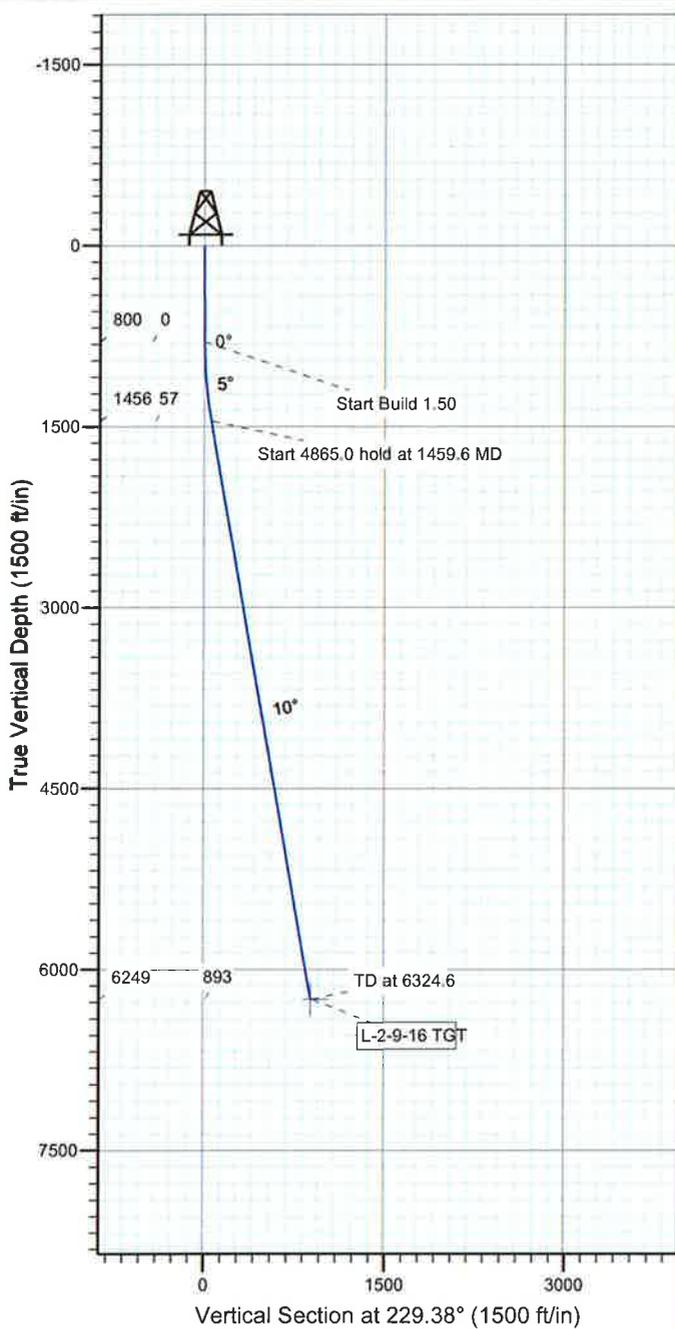
Project: USGS Myton SW (UT)
 Site: SECTION 2 9S 16E
 Well: L-2-9-16
 Wellbore: Wellbore #1
 Design: Design #1



Azimuths to True North
 Magnetic North: 11.51°

Magnetic Field
 Strength: 52467.4snT
 Dip Angle: 65.85°
 Date: 11/5/2009
 Model: IGRF200510

KOP @ 800'
 DOGLEG RATE 1.5 DEG/100
 TARGET RADIUS IS 75'



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
L-2-9-16 TGT	6249.0	-581.2	-677.6	Circle (Radius: 75.0)

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	800.0	0.00	0.00	800.0	0.0	0.0	0.00	0.00	0.0	
3	1459.6	9.89	229.38	1456.3	-37.0	-43.1	1.50	229.38	56.8	
4	6324.6	9.89	229.38	6249.0	-581.2	-677.6	0.00	0.00	892.8	L-2-9-16 TGT

NEWFIELD



NEWFIELD EXPLORATION

USGS Myton SW (UT)

SECTION 2 9S 16E

L-2-9-16

Wellbore #1

Plan: Design #1

Standard Planning Report

25 February, 2010



HATHAWAYBURNHAM Planning Report

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well L-2-9-16
Company:	NEWFIELD EXPLORATION	TVD Reference:	L-2-9-16 @ 5465.0ft (Original Well Elev)
Project:	USGS Myton SW (UT)	MD Reference:	L-2-9-16 @ 5465.0ft (Original Well Elev)
Site:	SECTION 2 9S 16E	North Reference:	True
Well:	L-2-9-16	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		Using geodetic scale factor

Site	SECTION 2 9S 16E, SEC 2 9S 16E				
Site Position:	Northing:	7,193,600.00ft	Latitude:	40° 3' 34.952 N	
From:	Map	Easting:	2,036,100.00ft	Longitude:	110° 5' 10.480 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.91 °

Well	L-2-9-16, SHL LAT: 40 03 41.08, LONG: -110 04 43.70					
Well Position	+N/-S	620.0 ft	Northing:	7,194,252.93 ft	Latitude:	40° 3' 41.080 N
	+E/-W	2,082.3 ft	Easting:	2,038,171.98 ft	Longitude:	110° 4' 43.700 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	5,465.0 ft	Ground Level:	5,453.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	11/5/2009	11.51	65.86	52,467

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	229.38

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	
800.0	0.00	0.00	800.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,459.6	9.89	229.38	1,456.3	-37.0	-43.1	1.50	1.50	0.00	229.38	
6,324.6	9.89	229.38	6,249.0	-581.2	-677.6	0.00	0.00	0.00	0.00	L-2-9-16 TGT



HATHAWAYBURNHAM

Planning Report

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well L-2-9-16
Company:	NEWFIELD EXPLORATION	TVD Reference:	L-2-9-16 @ 5465.0ft (Original Well Elev)
Project:	USGS Myton SW (UT)	MD Reference:	L-2-9-16 @ 5465.0ft (Original Well Elev)
Site:	SECTION 2 9S 16E	North Reference:	True
Well:	L-2-9-16	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	1.50	229.38	900.0	-0.9	-1.0	1.3	1.50	1.50	0.00
1,000.0	3.00	229.38	999.9	-3.4	-4.0	5.2	1.50	1.50	0.00
1,100.0	4.50	229.38	1,099.7	-7.7	-8.9	11.8	1.50	1.50	0.00
1,200.0	6.00	229.38	1,199.3	-13.6	-15.9	20.9	1.50	1.50	0.00
1,300.0	7.50	229.38	1,298.6	-21.3	-24.8	32.7	1.50	1.50	0.00
1,400.0	9.00	229.38	1,397.5	-30.6	-35.7	47.0	1.50	1.50	0.00
1,459.6	9.89	229.38	1,456.3	-37.0	-43.1	56.8	1.50	1.50	0.00
1,500.0	9.89	229.38	1,496.1	-41.5	-48.4	63.8	0.00	0.00	0.00
1,600.0	9.89	229.38	1,594.6	-52.7	-61.4	80.9	0.00	0.00	0.00
1,700.0	9.89	229.38	1,693.2	-63.9	-74.5	98.1	0.00	0.00	0.00
1,800.0	9.89	229.38	1,791.7	-75.1	-87.5	115.3	0.00	0.00	0.00
1,900.0	9.89	229.38	1,890.2	-86.3	-100.6	132.5	0.00	0.00	0.00
2,000.0	9.89	229.38	1,988.7	-97.4	-113.6	149.7	0.00	0.00	0.00
2,100.0	9.89	229.38	2,087.2	-108.6	-126.6	166.8	0.00	0.00	0.00
2,200.0	9.89	229.38	2,185.7	-119.8	-139.7	184.0	0.00	0.00	0.00
2,300.0	9.89	229.38	2,284.2	-131.0	-152.7	201.2	0.00	0.00	0.00
2,400.0	9.89	229.38	2,382.7	-142.2	-165.8	218.4	0.00	0.00	0.00
2,500.0	9.89	229.38	2,481.3	-153.4	-178.8	235.6	0.00	0.00	0.00
2,600.0	9.89	229.38	2,579.8	-164.6	-191.9	252.8	0.00	0.00	0.00
2,700.0	9.89	229.38	2,678.3	-175.7	-204.9	269.9	0.00	0.00	0.00
2,800.0	9.89	229.38	2,776.8	-186.9	-217.9	287.1	0.00	0.00	0.00
2,900.0	9.89	229.38	2,875.3	-198.1	-231.0	304.3	0.00	0.00	0.00
3,000.0	9.89	229.38	2,973.8	-209.3	-244.0	321.5	0.00	0.00	0.00
3,100.0	9.89	229.38	3,072.3	-220.5	-257.1	338.7	0.00	0.00	0.00
3,200.0	9.89	229.38	3,170.8	-231.7	-270.1	355.9	0.00	0.00	0.00
3,300.0	9.89	229.38	3,269.4	-242.9	-283.2	373.0	0.00	0.00	0.00
3,400.0	9.89	229.38	3,367.9	-254.1	-296.2	390.2	0.00	0.00	0.00
3,500.0	9.89	229.38	3,466.4	-265.2	-309.2	407.4	0.00	0.00	0.00
3,600.0	9.89	229.38	3,564.9	-276.4	-322.3	424.6	0.00	0.00	0.00
3,700.0	9.89	229.38	3,663.4	-287.6	-335.3	441.8	0.00	0.00	0.00
3,800.0	9.89	229.38	3,761.9	-298.8	-348.4	459.0	0.00	0.00	0.00
3,900.0	9.89	229.38	3,860.4	-310.0	-361.4	476.1	0.00	0.00	0.00
4,000.0	9.89	229.38	3,958.9	-321.2	-374.5	493.3	0.00	0.00	0.00
4,100.0	9.89	229.38	4,057.5	-332.4	-387.5	510.5	0.00	0.00	0.00
4,200.0	9.89	229.38	4,156.0	-343.5	-400.5	527.7	0.00	0.00	0.00
4,300.0	9.89	229.38	4,254.5	-354.7	-413.6	544.9	0.00	0.00	0.00
4,400.0	9.89	229.38	4,353.0	-365.9	-426.6	562.1	0.00	0.00	0.00
4,500.0	9.89	229.38	4,451.5	-377.1	-439.7	579.2	0.00	0.00	0.00
4,600.0	9.89	229.38	4,550.0	-388.3	-452.7	596.4	0.00	0.00	0.00
4,700.0	9.89	229.38	4,648.5	-399.5	-465.8	613.6	0.00	0.00	0.00
4,800.0	9.89	229.38	4,747.0	-410.7	-478.8	630.8	0.00	0.00	0.00
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5,000.0	9.89	229.38	4,944.1	-433.0	-504.9	665.1	0.00	0.00	0.00
5,100.0	9.89	229.38	5,042.6	-444.2	-517.9	682.3	0.00	0.00	0.00
5,200.0	9.89	229.38	5,141.1	-455.4	-531.0	699.5	0.00	0.00	0.00



HATHAWAYBURNHAM

Planning Report

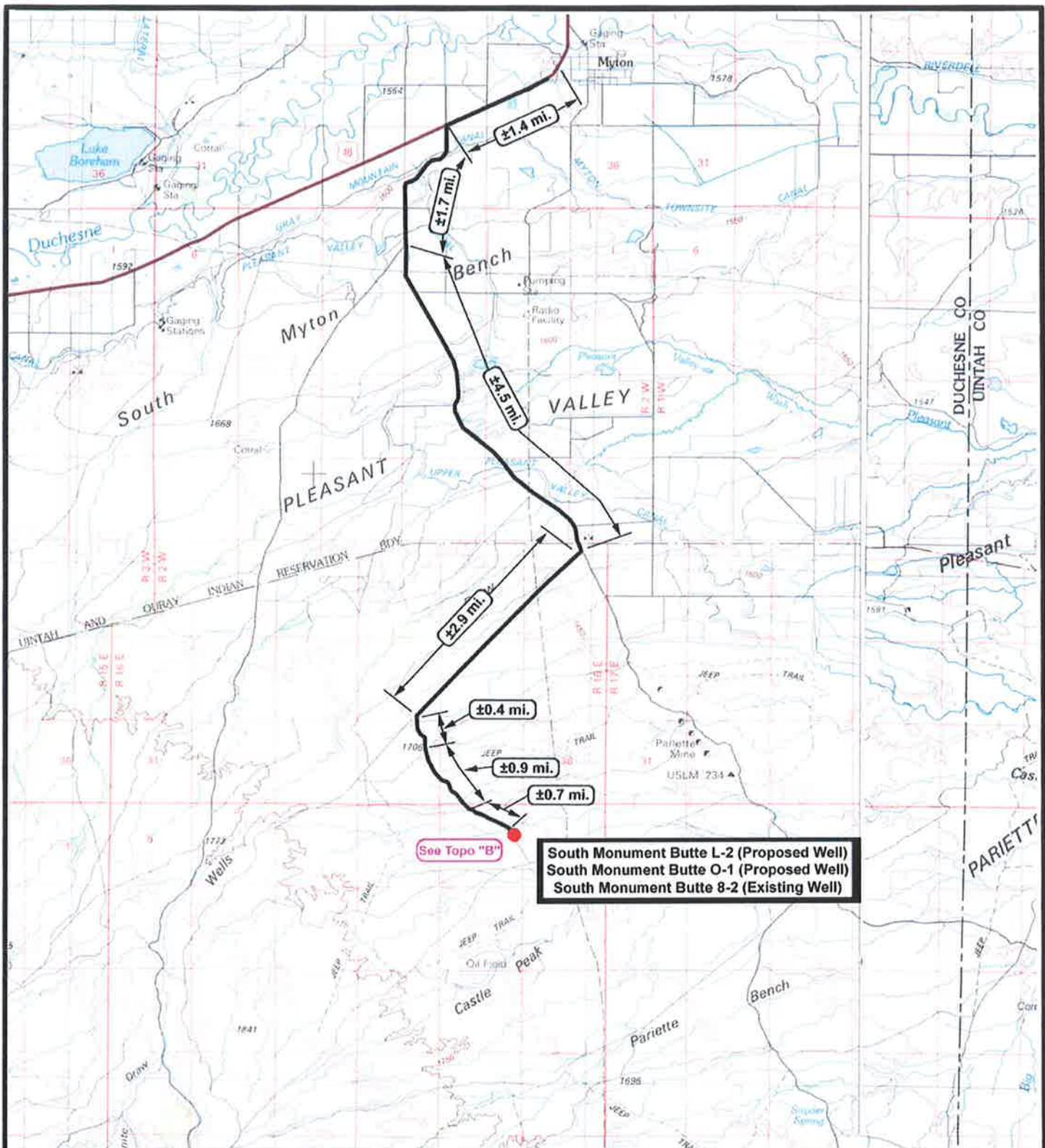
Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well L-2-9-16
Company:	NEWFIELD EXPLORATION	TVD Reference:	L-2-9-16 @ 5465.0ft (Original Well Elev)
Project:	USGS Myton SW (UT)	MD Reference:	L-2-9-16 @ 5465.0ft (Original Well Elev)
Site:	SECTION 2 9S 16E	North Reference:	True
Well:	L-2-9-16	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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	9.89	229.38	5,239.6	-466.6	-544.0	716.7	0.00	0.00	0.00
5,400.0	9.89	229.38	5,338.1	-477.8	-557.0	733.9	0.00	0.00	0.00
5,500.0	9.89	229.38	5,436.6	-489.0	-570.1	751.1	0.00	0.00	0.00
5,600.0	9.89	229.38	5,535.1	-500.2	-583.1	768.2	0.00	0.00	0.00
5,700.0	9.89	229.38	5,633.7	-511.3	-596.2	785.4	0.00	0.00	0.00
5,800.0	9.89	229.38	5,732.2	-522.5	-609.2	802.6	0.00	0.00	0.00
5,900.0	9.89	229.38	5,830.7	-533.7	-622.3	819.8	0.00	0.00	0.00
6,000.0	9.89	229.38	5,929.2	-544.9	-635.3	837.0	0.00	0.00	0.00
6,100.0	9.89	229.38	6,027.7	-556.1	-648.3	854.2	0.00	0.00	0.00
6,200.0	9.89	229.38	6,126.2	-567.3	-661.4	871.3	0.00	0.00	0.00
6,300.0	9.89	229.38	6,224.7	-578.5	-674.4	888.5	0.00	0.00	0.00
6,324.6	9.89	229.38	6,249.0	-581.2	-677.6	892.8	0.00	0.00	0.00

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
L-2-9-16 TGT	0.00	0.00	6,249.0	-581.2	-677.6	7,193,661.08	2,037,503.72	40° 3' 35.336 N	110° 4' 52.415 W
- hit/miss target									
- plan hits target									
- Circle (radius 75.0)									



NEWFIELD
Exploration Company

South Monument Butte L-2-9-16 (Proposed Well)
South Monument Butte O-1-9-16 (Proposed Well)
South Monument Butte 8-2-9-16 (Existing Well)
Pad Location SENE SEC. 2, T9S, R16E, S.L.B.&M.



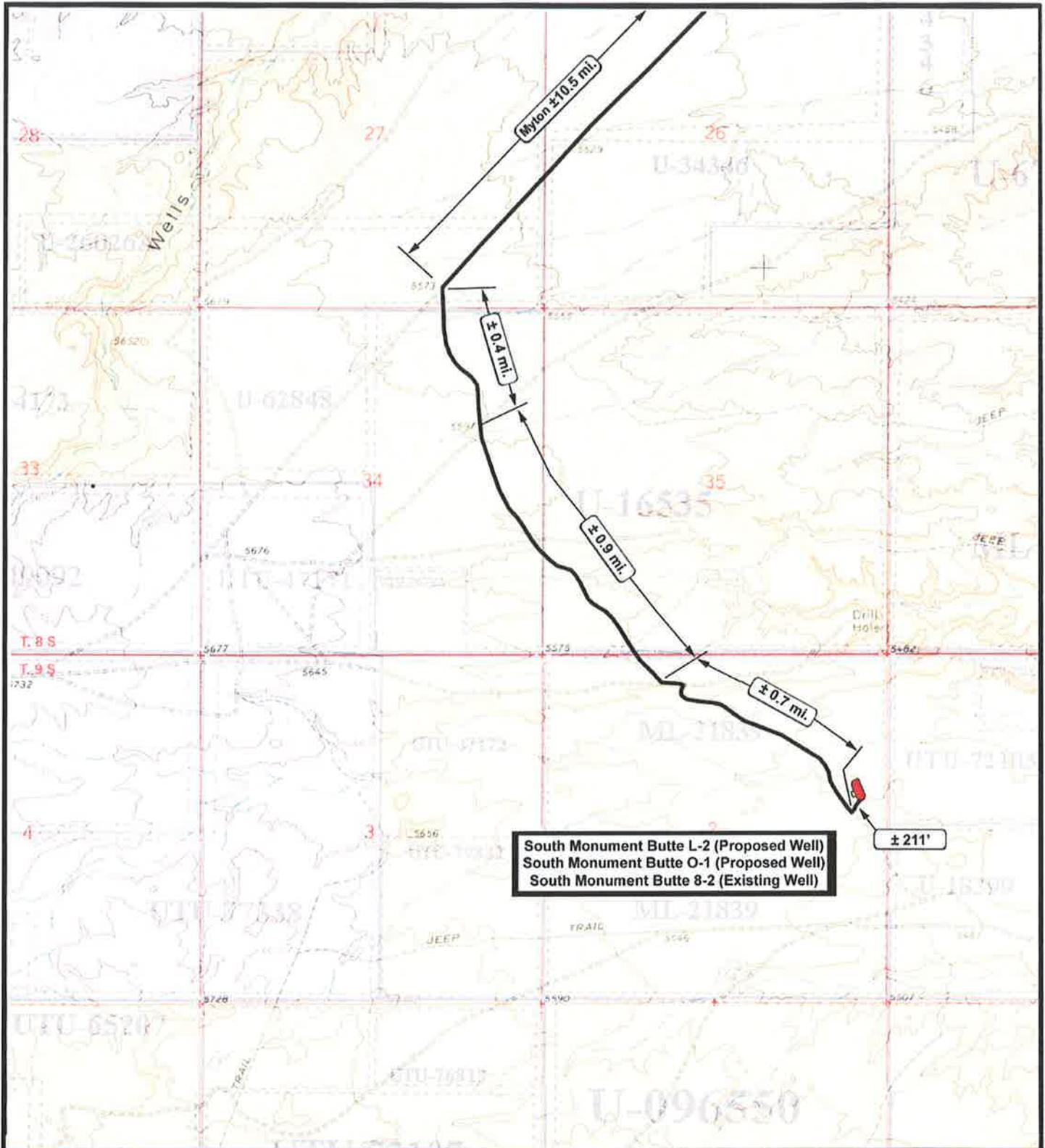
Tri-State
Land Surveying Inc.
(435) 781-2501
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1 = 100,000
DRAWN BY: mw
DATE: 10-16-2009

Legend

Existing Road

TOPOGRAPHIC MAP
"A"



South Monument Butte L-2 (Proposed Well)
 South Monument Butte O-1 (Proposed Well)
 South Monument Butte 8-2 (Existing Well)

NEWFIELD
 Exploration Company

South Monument Butte L-2-9-16 (Proposed Well)
 South Monument Butte O-1-9-16 (Proposed Well)
 South Monument Butte 8-2-9-16 (Existing Well)
 Pad Location SENE SEC. 2, T9S, R16E, S.L.B.&M.



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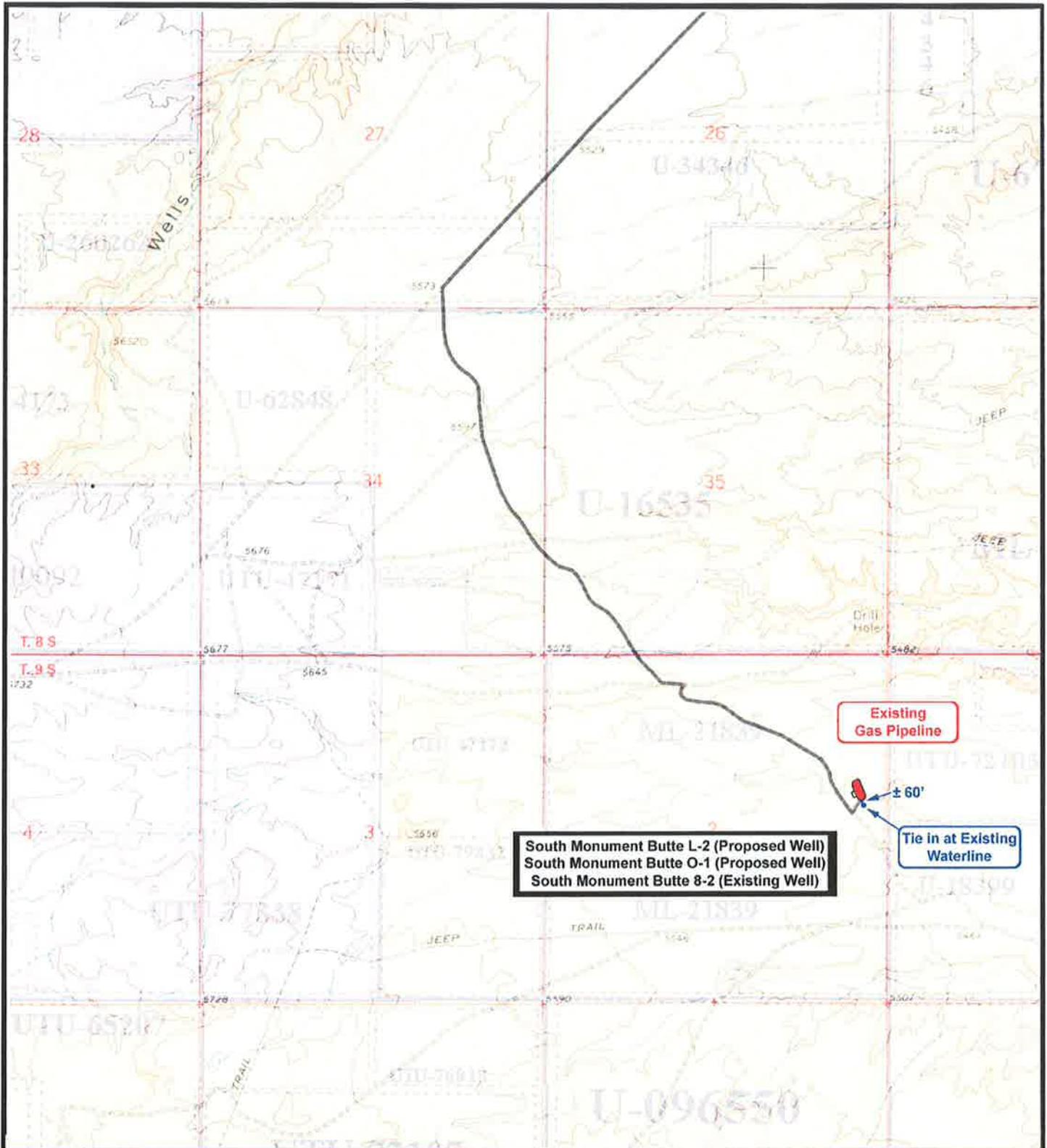
SCALE: 1" = 2,000'
 DRAWN BY: mw
 DATE: 10-06-2009

Legend

Existing Road

TOPOGRAPHIC MAP

"B"



South Monument Butte L-2 (Proposed Well)
 South Monument Butte O-1 (Proposed Well)
 South Monument Butte 8-2 (Existing Well)

Existing Gas Pipeline

± 60'

Tie in at Existing Waterline



NEWFIELD
Exploration Company

South Monument Butte L-2-9-16 (Proposed Well)
 South Monument Butte O-1-9-16 (Proposed Well)
 South Monument Butte 8-2-9-16 (Existing Well)
 Pad Location SENE SEC. 2, T9S, R16E, S.L.B.&M.



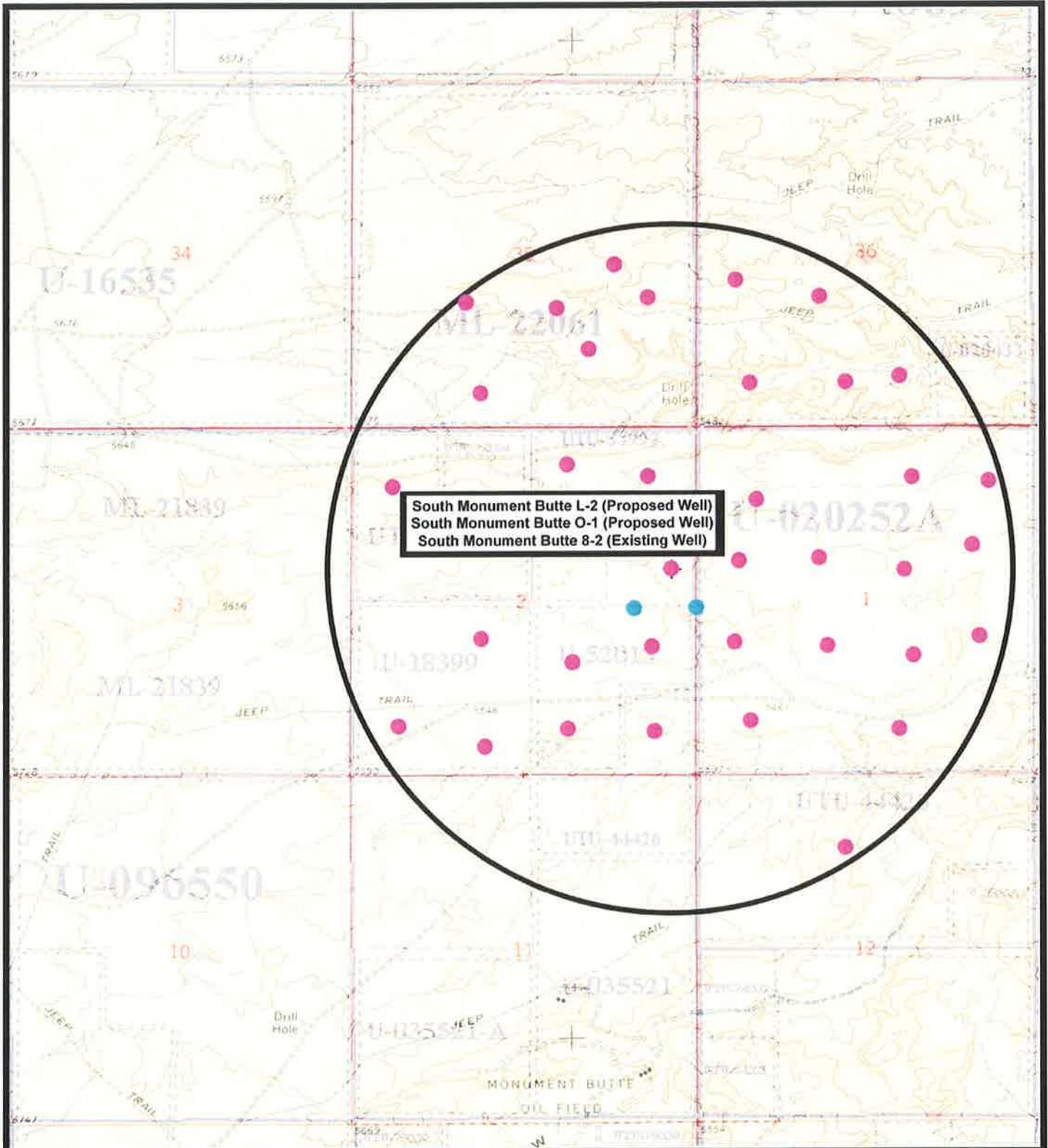

Tri-State
Land Surveying Inc.
 (435) 781-2501
 180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'
 DRAWN BY: mw
 DATE: 10-06-2009

Legend

-  Roads
-  Proposed Water Line

TOPOGRAPHIC MAP
"C"



South Monument Butte L-2 (Proposed Well)
 South Monument Butte O-1 (Proposed Well)
 South Monument Butte 8-2 (Existing Well)



South Monument Butte L-2-9-16 (Proposed Well)
 South Monument Butte O-1-9-16 (Proposed Well)
 South Monument Butte 8-2-9-16 (Existing Well)
 Pad Location SENE SEC. 2, 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: 10-06-2009

Legend

- Location
- One-Mile Radius

Exhibit "B"

NEWFIELD PRODUCTION COMPANY
SOUTH MONUMENT BUTTE STATE L-2-9-16
AT SURFACE: SE/NE SECTION 2, T9S, R16E
DUCHESNE COUNTY, UTAH

THIRTEEN POINT SURFACE PROGRAM

1. **EXISTING ROADS**

See attached **Topographic Map "A"**

To reach Newfield Production Company well location site South Monument Butte State L-2-9-16 located in the SE ¼ NE ¼ Section 2, T9S, R16E, S.L.B. & M., Duchesne County, Utah:

Proceed in a southwesterly direction out of Myton, Utah along Highway 40 approximately 1.4 ± miles to the junction of this highway and Utah State Highway 53; proceed southeasterly approximately 6.2 miles ± to its junction with an existing road to the southwest; proceed southwesterly approximately 2.9 miles ± to its junction with an existing road to the south; proceed southeasterly approximately 2.0 miles ± to its junction with an existing road to the northeast; proceed northeasterly along the access road approximately 211' ± to the existing 8-2-9-16 well location.

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

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

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

2. **PLANNED ACCESS ROAD**

There is no proposed access road for this location. The proposed well will be drilled off of the existing 8-2-9-16 well pad. See attached **Topographic Map "B"**.

There will be no new gates or cattle guards required.

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 existing 8-2-9-16 well pad. There will be a pumping unit and a short flow line added to the existing tank battery for the proposed L-2-9-16.

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

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

Tank batteries will be built to State specifications.

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

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).

There will be no water well drilled at this site.

6. **SOURCE OF CONSTRUCTION MATERIALS**

The proposed South Monument Butte State L-2-9-16 will be drilled off of the existing 8-2-9-16 well pad. No additional surface disturbance will be required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

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

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

A portable toilet will be provided for human waste.

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

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the

produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

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

8. **ANCILLARY FACILITIES:**

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

9. **WELL SITE LAYOUT:**

See attached Location Layout Sheet.

Fencing Requirements

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

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

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

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

a) **Producing Location**

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

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

b) **Dry Hole Abandoned Location**

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

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

12. **OTHER ADDITIONAL INFORMATION:**

Newfield Production Company requests 60' of disturbed area be granted 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. Both proposed lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."** 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.

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

The Paleontological Resource Survey for this area is attached. Paleontological Resource Survey prepared by, Wade E. Miller, 10/31/09. The Archaeological Resource Survey will be forthcoming. See attached report cover pages, Exhibit "D".

Additional Surface Stipulations

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

Hazardous Material Declaration

Newfield Production Company guarantees that during the drilling and completion of the South Monument Butte State L-2-9-16, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the South Monument Butte State L-2-9-16 Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

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

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

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

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

Representative

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

Certification

Please be advised that Newfield Production Company is considered to be the operator of well #L-2-9-16, SE/NE Section 2, T9S, R16E, LEASE #ML-21839, 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 Bond #B001834.

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

11/24/09
Date


Mandie Crozier
Regulatory Specialist
Newfield Production Company

NEWFIELD PRODUCTION COMPANY

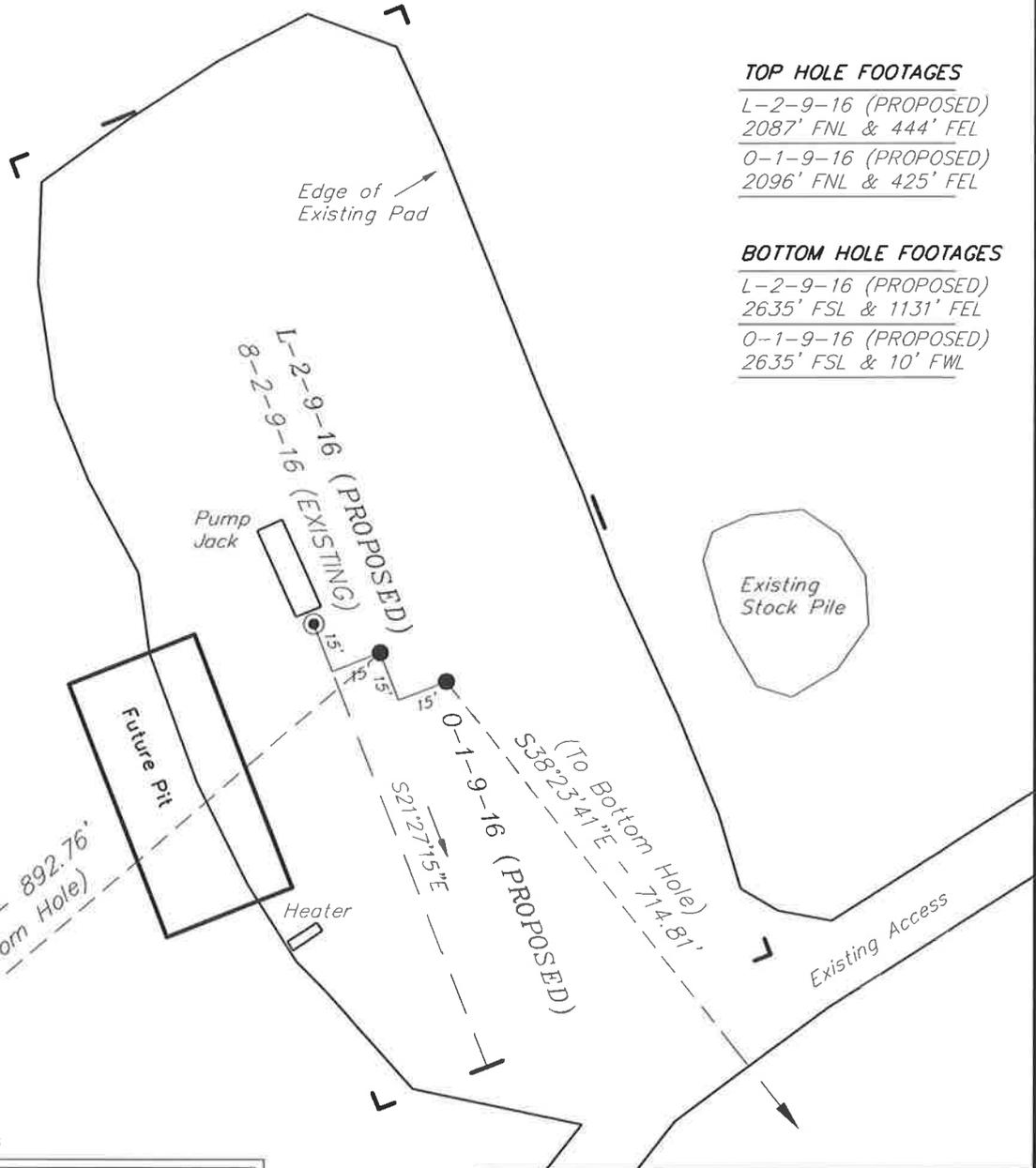
WELL PAD INTERFERENCE PLAT

S. MONUMENT BUTTE L-2-9-16 (Proposed Well)

S. MONUMENT BUTTE 0-1-9-16 (Proposed Well)

S. MONUMENT BUTTE 8-2-9-16 (Existing Well)

Pad Location: SENE Section 2, T9S, R16E, S.L.B.&M.



TOP HOLE FOOTAGES

L-2-9-16 (PROPOSED)
2087' FNL & 444' FEL

0-1-9-16 (PROPOSED)
2096' FNL & 425' FEL

BOTTOM HOLE FOOTAGES

L-2-9-16 (PROPOSED)
2635' FSL & 1131' FEL

0-1-9-16 (PROPOSED)
2635' FSL & 10' FWL

Note:

Bearings are based on GPS Observations

RELATIVE COORDINATES From top hole to bottom hole

WELL	NORTH	EAST
L-2-9-16	-581'	-678'
0-1-9-16	-560'	444'

LATITUDE & LONGITUDE Surface position of Wells (NAD 83)

WELL	LATITUDE	LONGITUDE
L-2-9-16	40° 03' 41.08"	110° 04' 43.70"
0-1-9-16	40° 03' 40.99"	110° 04' 43.46"

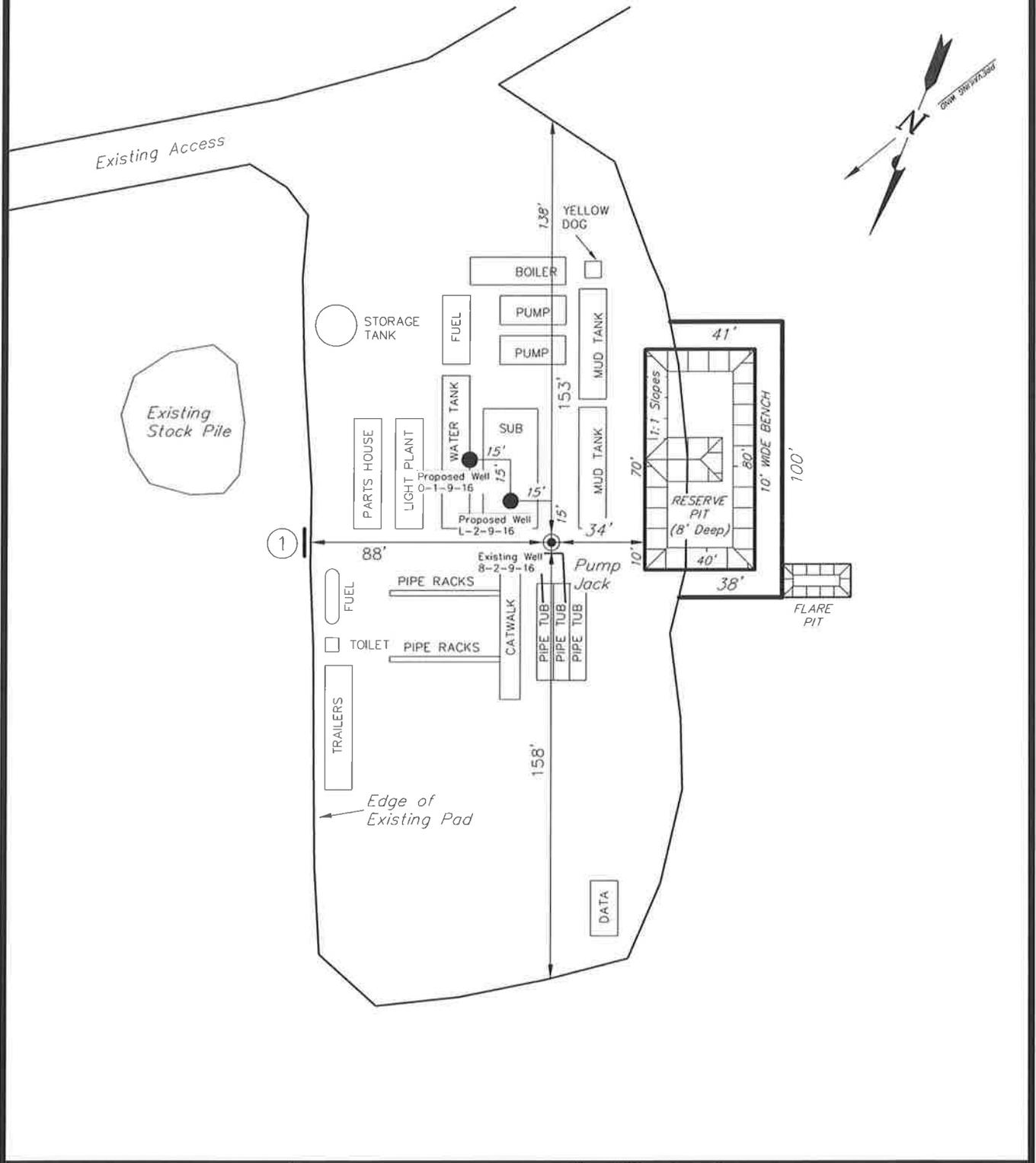
SURVEYED BY: T.P.	DATE SURVEYED: 09-09-09
DRAWN BY: M.W.	DATE DRAWN: 10-06-09
SCALE: 1" = 50'	REVISED: F.T.M. 11-12-09

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

NEWFIELD PRODUCTION COMPANY

TYPICAL RIG LAYOUT

- S. MONUMENT BUTTE L-2-9-16 (Proposed Well)
- S. MONUMENT BUTTE 0-1-9-16 (Proposed Well)
- S. MONUMENT BUTTE 8-2-9-16 (Existing Well)



SURVEYED BY: T.P.	DATE SURVEYED: 09-09-09
DRAWN BY: M.W.	DATE DRAWN: 10-06-09
SCALE: 1" = 50'	REVISED:

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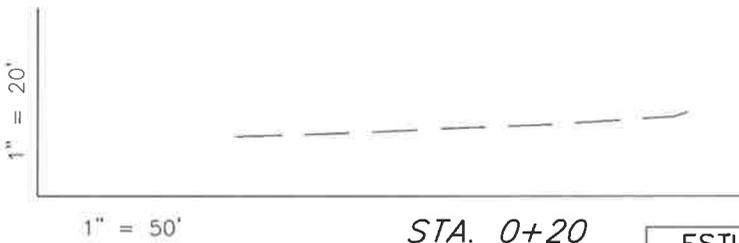
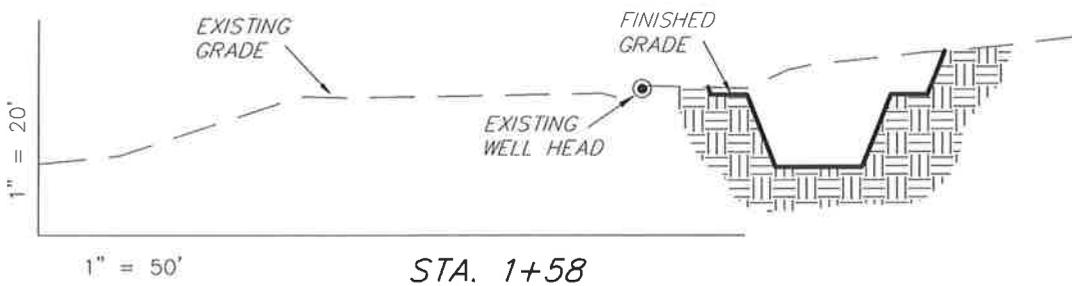
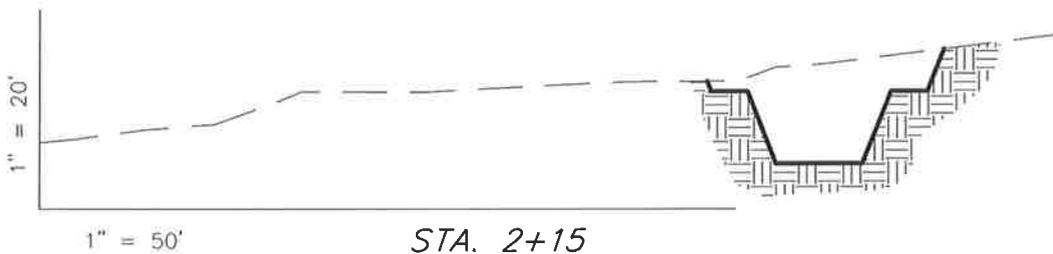
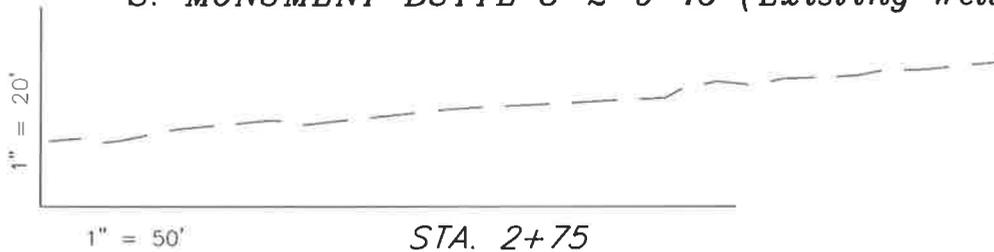
NEWFIELD PRODUCTION COMPANY

CROSS SECTIONS

S. MONUMENT BUTTE L-2-9-16 (Proposed Well)

S. MONUMENT BUTTE 0-1-9-16 (Proposed Well)

S. MONUMENT BUTTE 8-2-9-16 (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	650	0	Topsoil is not included in Pad Cut	650
PIT	640	0		640
TOTALS	1,290	0	140	1,290

SURVEYED BY: T.P.	DATE SURVEYED: 09-09-09
DRAWN BY: M.W.	DATE DRAWN: 10-06-09
SCALE: 1" = 50'	REVISED:

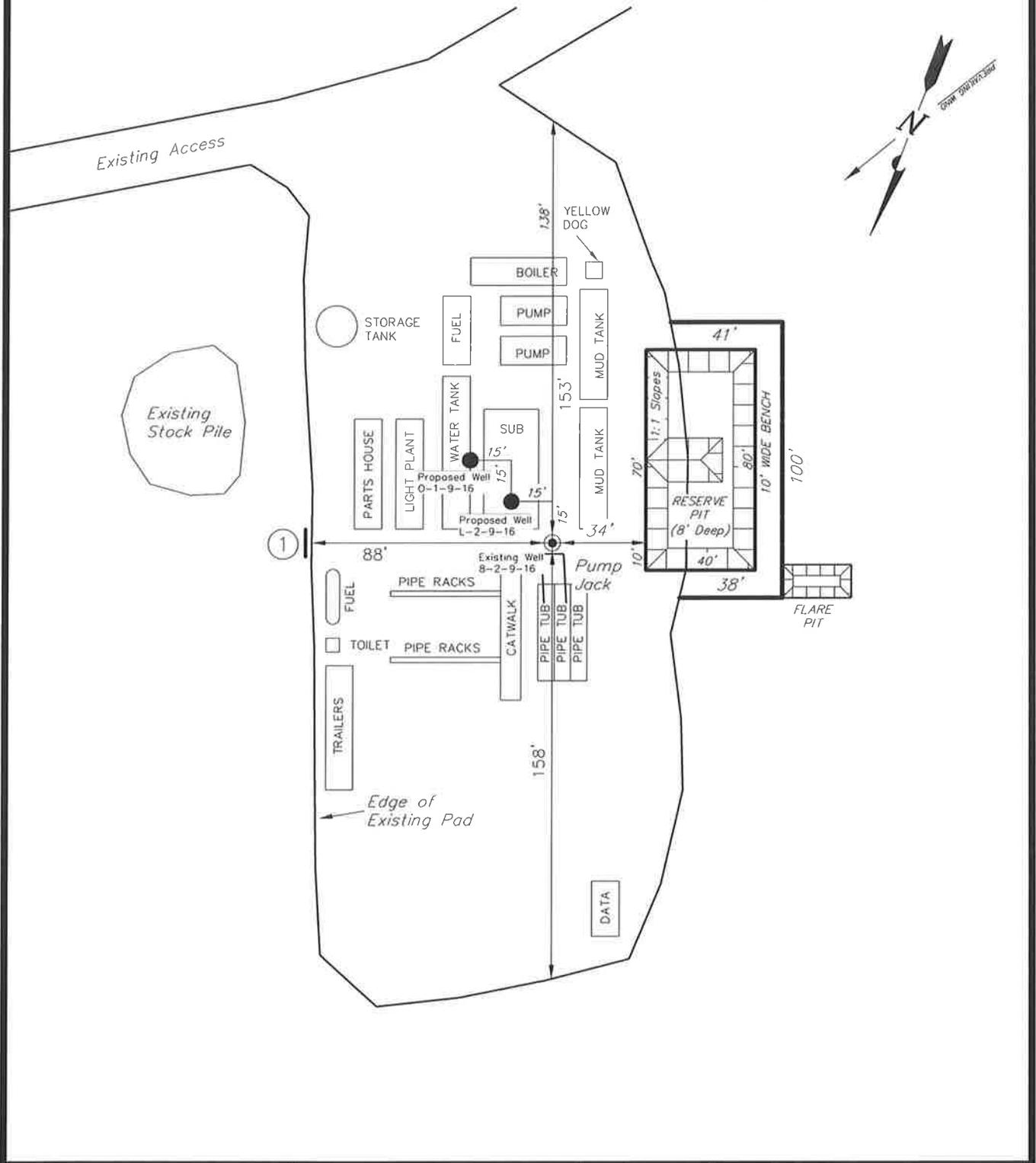
(435) 781-2501

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NEWFIELD PRODUCTION COMPANY

TYPICAL RIG LAYOUT

- S. MONUMENT BUTTE L-2-9-16 (Proposed Well)
- S. MONUMENT BUTTE 0-1-9-16 (Proposed Well)
- S. MONUMENT BUTTE 8-2-9-16 (Existing Well)



SURVEYED BY: T.P.	DATE SURVEYED: 09-09-09
DRAWN BY: M.W.	DATE DRAWN: 10-06-09
SCALE: 1" = 50'	REVISED:

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

L-2-9-16

Exhibit "D"

NEWFIELD EXPLORATION COMPANY

**PALEONTOLOGICAL SURVEY OF PROPOSED
PRODUCTION DEVELOPMENT AREAS,
AND PROPOSED PIPELINE ROUTES
DUCHESNE COUNTY, UTAH**

Area Survey

NW 1/4, SE 1/4 Section 7, T 9 S, R 18 E (10-7-9-18)

Proposed Directional Wells Survey

(All sections reported are in one of the following Townships and Ranges: T 8 & 9 S, R 16, 17 & 18 E), and are for existing wells. Proposed wells are found under "Report of Areas Surveyed."

11-6-9-17, 31-1-9-16, 4-1-9-16, 5-1-9-16, 8-2-9-16, 1-14-9-16, 10-35-8-16, 15-34-8-16, 2A-35-8-16, 1A-35-8-16, 13-25-8-16, 8-5-9-16, 16-27-8-16, 11-25-8-16, 12-30-8-17, 12-25-8-16, 10-26-8-16, 15-24-8-16, 14-23-8-16

Water Pipeline Tie-Ins Survey

SE 1/4, NE 1/4 Section 2, T 9 S, R 16 E (8-2-9-16); SW 1/4, SW 1/4 Section 1, T 9 S, R 16 E (1-14-9-16); SE 1/4, SE 1/4, Section 27, T 8 S, R 16 E (16-27-8-16); SE 1/4, SW 1/4, Section 23, T 8 S, R 16 E (14-23-8-16)

REPORT OF SURVEY

Prepared for:

Newfield Exploration Company

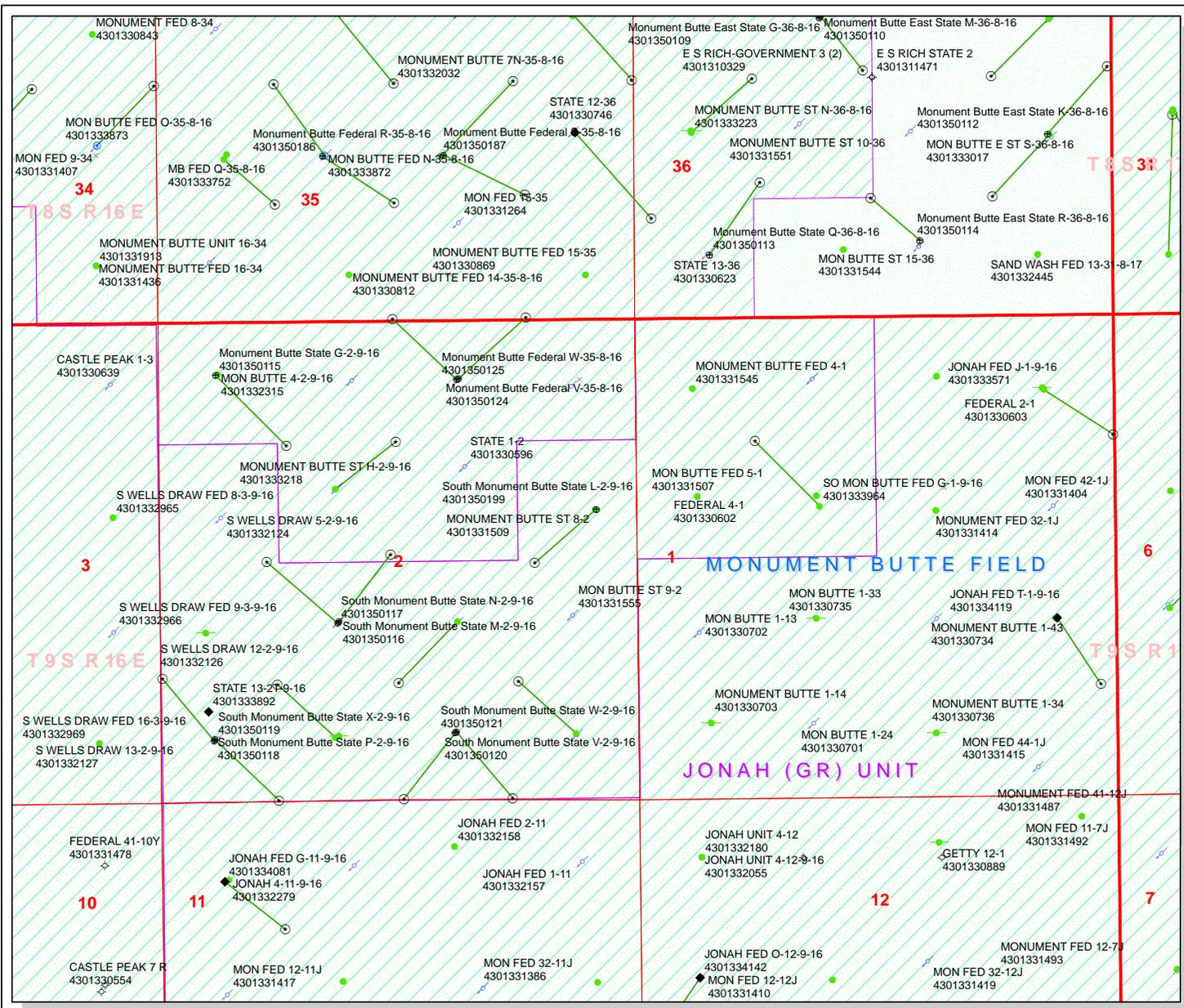
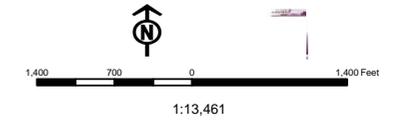
Prepared by:

Wade E. Miller
Consulting Paleontologist
October 31, 2009

API Number: 4301350199
Well Name: South Monument Butte State L-2-9-16
Township 09.0 S Range 16.0 E Section 2
Meridian: SLBM
Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:
 Map Produced by Diana Mason

Units	Wells Query
STATUS	Status
ACTIVE	APD - Approved Permit
EXPLORATORY	DRL - Spudded (Drilling Commenced)
GAS STORAGE	GIW - Gas Injection
NF PP OIL	GS - Gas Storage
NF SECONDARY	LA - Location Abandoned
PI OIL	LOC - New Location
PP GAS	OPS - Operation Suspended
PP GEOTHERMAL	PA - Plugged Abandoned
PP OIL	PGW - Producing Gas Well
SECONDARY	POW - Producing Oil Well
TERMINATED	RET - Returned APD
Fields	SGW - Shut-in Gas Well
Unknown	SOW - Shut-in Oil Well
ABANDONED	TA - Temp. Abandoned
ACTIVE	TW - Test Well
COMBINED	WDW - Water Disposal
INACTIVE	WWI - Water Injection Well
STORAGE	WSW - Water Supply Well
TERMINATED	
Sections	
Township	



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)

December 4, 2009

Memorandum

To: Assistant District Manager Minerals, Vernal District
From: Michael Coulthard, Petroleum Engineer
Subject: 2009 Plan of Development Greater Monument
Butte Unit, Duchesne County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2009 within the Greater Monument Butte Unit, Duchesne County, Utah.

API#	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-50186	Monument Butte Fed	R-35-8-16 Sec 35 T08S R16E 1842 FSL 1855 FWL BHL Sec 35 T08S R16E 1320 FSL 2640 FWL
43-013-50187	Monument Butte Fed	S-35-8-16 Sec 35 T08S R16E 1843 FSL 2101 FEL BHL Sec 35 T08S R16E 1395 FSL 1207 FEL
43-013-50189	Wells Draw Federal	L-5-9-16 Sec 05 T09S R16E 1836 FNL 0591 FEL BHL Sec 05 T09S R16E 2520 FSL 1170 FEL
43-013-50195	Mon Butte NE Fed	V-26-8-16 Sec 35 T08S R16E 0661 FNL 0638 FEL BHL Sec 26 T08S R16E 0010 FSL 1325 FEL
43-013-50196	Hawkeye Federal	W-26-8-16 Sec 35 T08S R16E 0706 FNL 2010 FEL BHL Sec 26 T08S R16E 0010 FSL 2635 FWL
43-013-50197	Hawkeye Federal	N-26-8-16 Sec 26 T08S R16E 1961 FSL 0679 FWL BHL Sec 26 T08S R16E 2630 FSL 1310 FWL
43-013-50198	Hawkeye Federal	X-26-8-16 Sec 35 T08S R16E 0627 FNL 2078 FWL BHL Sec 26 T08S R16E 0010 FSL 1315 FWL
43-013-50199	S Mon Butte State	L-2-9-16 Sec 02 T09S R16E 2087 FNL 0444 FEL BHL Sec 02 T09S R16E 2635 FSL 1131 FEL

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File - Greater Monument Butte Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:12-4-09



December 2, 2009

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

2202

RE: Directional Drilling
South Monument Butte State L-2-9-16
Greater Monument Butte (Green River) Unit
ML-21839
Surface Hole: T9S-R16E Section 2: SENE
2087' FNL 444' FEL

At Target: T9S-R16E Section 2: NESE
2635' FSL 1131' FEL

Duchesne County, Utah

Dear Ms. Mason;

Pursuant to the filing by Newfield Production Company (NPC) of an Application for Permit to Drill the above referenced well dated 11/24/09, a copy of which is attached, 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 and target locations of this well are both within the boundaries of the Greater Monument Butte Unit (UTU-87538X), of which Newfield certifies that it is the operator. Further, Newfield Certifies that all lands within 460 feet of the entire directional well bore are within the Greater Monument Butte Unit.

NPC is permitting this well as a directional well in order to mitigate surface disturbance by utilizing pre-existing roads and pipelines.

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 contact the undersigned at 303-383-4197 or by email at sgillespie@newfield.com. Your consideration in this matter is greatly appreciated.

Sincerely,
Newfield Production Company

A handwritten signature in blue ink that reads "Shane Gillespie".

Shane Gillespie
Land Associate

RECEIVED
DEC 07 2009
DIV. OF OIL, GAS & MINING

From: Jim Davis
To: Bonner, Ed; Mason, Diana
CC: Garrison, LaVonne; mcrozier@newfield.com; teaton@newfield.com
Date: 12/23/2009 1:36 PM
Subject: Well approval South Monument Butte State L-2-9-16 (API #4301350199)

The following well has been approved by SITLA including arch clearance. This well is going onto an existing pad which will not necessitate new surface disturbance. The paleo requirement is therefore waived.

South Monument Butte State L-2-9-16 (API #4301350199)

-Jim

Jim Davis
Utah Trust Lands Administration
jimdavis1@utah.gov
Phone: (801) 538-5156

Well Name	NEWFIELD PRODUCTION COMPANY South Monument Butte State L-2-9-		
String	Surf	Prod	
Casing Size(")	8.625	5.500	
Setting Depth (TVD)	700	6249	
Previous Shoe Setting Depth (TVD)	0	700	
Max Mud Weight (ppg)	8.3	8.3	
BOPE Proposed (psi)	500	2000	
Casing Internal Yield (psi)	2950	4810	
Operators Max Anticipated Pressure (psi)	2706	8.3	

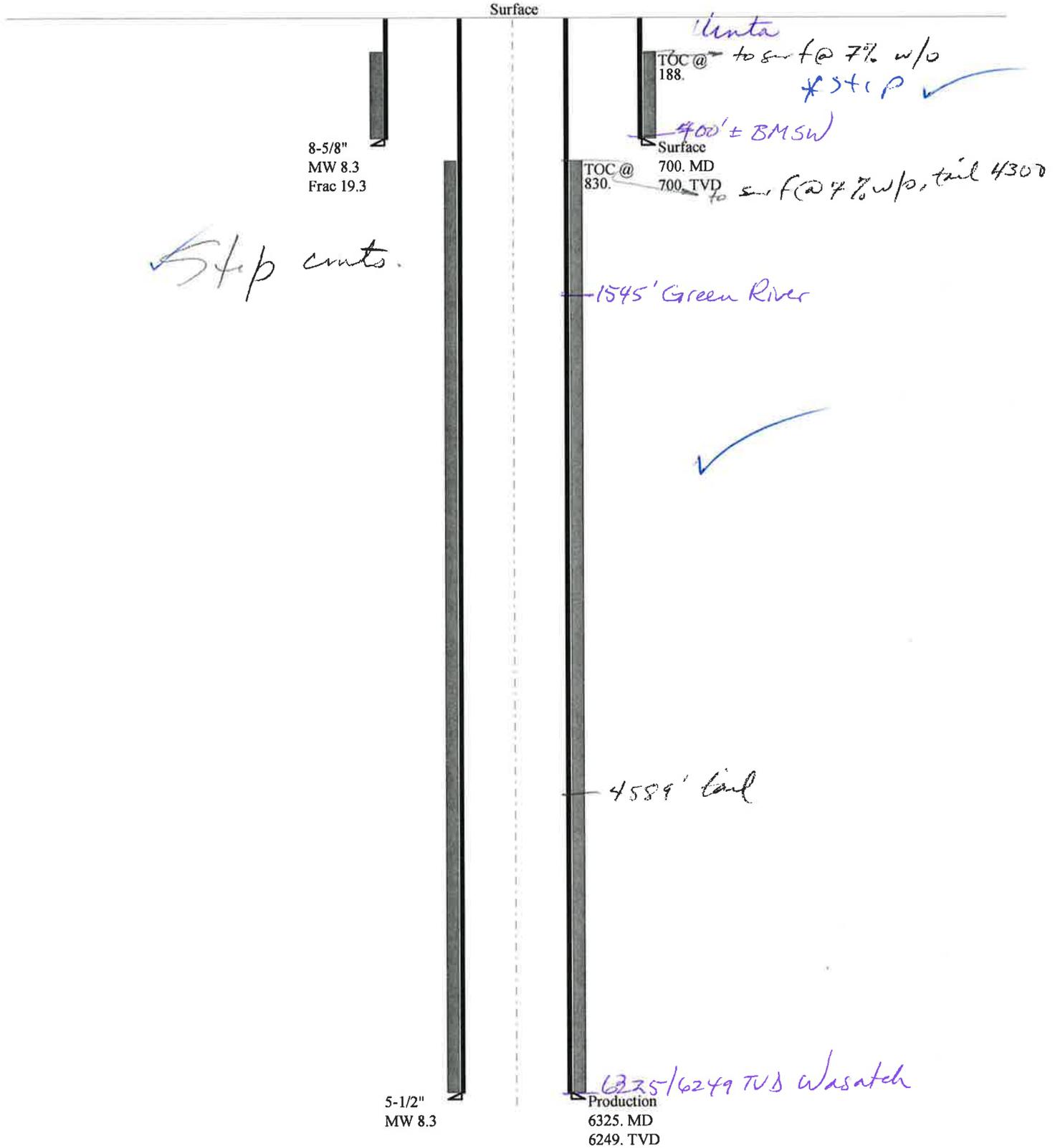
Calculations	Surf String	8.625	"
Max BHP (psi)	$.052 * \text{Setting Depth} * \text{MW} =$	302	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 * \text{Setting Depth}) =$	218	YES air drill
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 * \text{Setting Depth}) =$	148	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	$\text{Max BHP} - .22 * (\text{Setting Depth} - \text{Previous Shoe Depth}) =$	148	NO OK
Required Casing/BOPE Test Pressure=		700	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

Calculations	Prod String	5.500	"
Max BHP (psi)	$.052 * \text{Setting Depth} * \text{MW} =$	2697	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 * \text{Setting Depth}) =$	1947	YES
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 * \text{Setting Depth}) =$	1322	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	$\text{Max BHP} - .22 * (\text{Setting Depth} - \text{Previous Shoe Depth}) =$	1476	NO Reasonable
Required Casing/BOPE Test Pressure=		2000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		700	psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BHP (psi)	$.052 * \text{Setting Depth} * \text{MW} =$		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 * \text{Setting Depth}) =$		NO
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 * \text{Setting Depth}) =$		NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	$\text{Max BHP} - .22 * (\text{Setting Depth} - \text{Previous Shoe Depth}) =$		NO
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BHP (psi)	$.052 * \text{Setting Depth} * \text{MW} =$		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 * \text{Setting Depth}) =$		NO
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 * \text{Setting Depth}) =$		NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	$\text{Max BHP} - .22 * (\text{Setting Depth} - \text{Previous Shoe Depth}) =$		NO
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

43013501990000 South Monument Butte State L-2-9-16 Casing Schematic



Well name:	43013501990000 South Monument Butte State L-2-9-16		
Operator:	NEWFIELD PRODUCTION COMPANY		
String type:	Surface	Project ID:	43-013-50199
Location:	DUCHESNE COUNTY		

Design parameters:

Collapse

Mud weight: 8.330 ppg
 Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 616 psi
 Internal gradient: 0.120 psi/ft
 Calculated BHP: 700 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor: 1.125

Burst:

Design factor: 1.00

Tension:

8 Round STC: 1.80 (J)
 8 Round LTC: 1.70 (J)
 Buttress: 1.60 (J)
 Premium: 1.50 (J)
 Body yield: 1.50 (B)

Tension is based on air weight.
 Neutral point: 612 ft

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 84 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft
 Cement top: 188 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 6,249 ft
 Next mud weight: 8,300 ppg
 Next setting BHP: 2,695 psi
 Fracture mud wt: 19,250 ppg
 Fracture depth: 700 ft
 Injection pressure: 700 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	700	8.625	24.00	J-55	ST&C	700	700	7.972	3603
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	303	1370	4.523	700	2950	4.21	16.8	244	14.53 J

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

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

Date: March 4, 2010
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 700 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	43013501990000 South Monument Butte State L-2-9-16		
Operator:	NEWFIELD PRODUCTION COMPANY		
String type:	Production	Project ID:	43-013-50199
Location:	DUCHESNE COUNTY		

Design parameters:

Collapse

Mud weight: 8.330 ppg
 Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 161 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft
 Cement top: 830 ft

Burst

Max anticipated surface pressure: 1,329 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 2,704 psi

No backup mud specified.

Tension:

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

Tension is based on air weight.
 Neutral point: 5,526 ft

Directional Info - Build & Hold

Kick-off point 800 ft
 Departure at shoe: 893 ft
 Maximum dogleg: 1.5 °/100ft
 Inclination at shoe: 9.9 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	6325	5.5	15.50	J-55	LT&C	6249	6325	4.825	22334
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	2704	4040	1.494	2704	4810	1.78	96.9	217	2.24 J

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

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

Date: March 4, 2010
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 6249 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator NEWFIELD PRODUCTION COMPANY
Well Name South Monument Butte State L-2-9-16
API Number 43013501990000 **APD No** 2202 **Field/Unit** MONUMENT BUTTE
Location: 1/4,1/4 SENE **Sec** 2 **Tw** 9.0S **Rng** 16.0E 2087 FNL 444 FEL
GPS Coord (UTM) **Surface Owner**

Participants

Floyd Bartlett (DOGM), Tim Eaton and Brian Foote (Newfield Production Co.), Cory Miller and Tyson Reary (Tri State Land Surveying), Alex Hansen (Division of Wildlife Resources), Jim Davis (SITLA) and James Hereferd (Bureau Of Land Management).

Regional/Local Setting & Topography

Two additional oil wells are proposed to be directionally drilled from the existing pad of the South Monument Butte 8-2-9-16, a producing oil well. The new wells are the South Monument Butte L-2-9-16 to be drilled to SITLA minerals and the South Monument Butte O-1-9-16 to be drilled to Federal minerals administered by the Bureau of Land Management. The surface is owned by SITLA. No significant changes to the previously disturbed area of the existing pad are planned. The reserve pit will be re-dug near the original location in the southwest corner of the pad. The wells are on a 20-acre spacing.

A field review of the existing pad showed no concerns as it now exists and should be suitable for drilling and operating the proposed additional wells.

Surface Use Plan

Current Surface Use
Existing Well Pad

New Road Miles	Well Pad	Src Const Material	Surface Formation
	Width Length		
0			

Ancillary Facilities

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands

Flora / Fauna
Existing well pad.

Soil Type and Characteristics

Erosion Issues

Sedimentation Issues

Site Stability Issues

Drainage Diverson Required?

Berm Required?

Erosion Sedimentation Control Required?

Paleo Survey Run? Paleo Potential Observed? Cultural Survey Run? Cultural Resources?

Reserve Pit

Site-Specific Factors	Site Ranking	
Distance to Groundwater (feet)	100 to 200	5
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)		20
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)		0
Affected Populations		
Presence Nearby Utility Conduits	Not Present	0
	Final Score	40
		1 Sensitivity Level

Characteristics / Requirements

A reserve pit will be re-dug near the original location. Its dimensions are 80' x 40' x 8' deep. A 16-mil liner with an appropriate sub-liner is required.

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

Other Observations / Comments

The APDt (API #) for the second well to BLM minerals has not been received as of the date of this write-up. Addition entry into RBDMS will be made when it is received.

Floyd Bartlett
Evaluator

12/15/2009
Date / Time

Application for Permit to Drill Statement of Basis

3/10/2010

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
2202	43013501990000	LOCKED	OW	S	No
Operator	NEWFIELD PRODUCTION COMPANY		Surface Owner-APD		
Well Name	South Monument Butte State L-2-9-16		Unit	GMBU (GRRV)	
Field	MONUMENT BUTTE		Type of Work	DRILL	
Location	SENE 2 9S 16E S 2087 FNL 444 FEL		GPS Coord (UTM)	578625E 4434769N	

Geologic Statement of Basis

Newfield proposes to set 400' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 700'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of Section 2. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a major source of useable ground water. However, ground water in the Uinta Formation should be of sufficient quality and quantity for isolated domestic and agricultural use and should be protected. Surface casing should be extended to cover the base of the moderately saline ground water.

Brad Hill
APD Evaluator

12/28/2009
Date / Time

Surface Statement of Basis

Two additional oil wells are proposed to be directionally drilled from the existing pad of the South Monument Butte 8-2-9-16, a producing oil well. The new wells are the South Monument Butte L-2-9-16 to be drilled to SITLA minerals and the South Monument Butte O-1-9-16 to be drilled to Federal minerals administered by the Bureau of Land Management. The surface is owned by SITLA. No significant changes to the previously disturbed area of the existing pad are planned. The reserve pit will be re-dug near the original location in the southwest corner of the pad. The wells are on a 20-acre spacing.

A field review of the existing pad showed no concerns as it now exists and should be suitable for drilling and operating the proposed additional wells. Jim Davis of SITLA and James Hereford of the BLM attended. SITLA is to be contacted for surface reclamation standards.

Alex Hansen of the Utah Division of Wildlife resources attended the evaluation. He said the additional wells should have no significant impacts on wildlife and occupying an existing location rather than disturbing new areas lessened impacts.

Floyd Bartlett
Onsite Evaluator

12/15/2009
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 12/1/2009

API NO. ASSIGNED: 43013501990000

WELL NAME: South Monument Butte State L-2-9-16

OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695)

PHONE NUMBER: 435 646-4825

CONTACT: Mandie Crozier

PROPOSED LOCATION: SENE 2 090S 160E

Permit Tech Review:

SURFACE: 2087 FNL 0444 FEL

Engineering Review:

BOTTOM: 2635 FSL 1131 FEL

Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.06140

LONGITUDE: -110.07810

UTM SURF EASTINGS: 578625.00

NORTHINGS: 4434769.00

FIELD NAME: MONUMENT BUTTE

LEASE TYPE: 3 - State

LEASE NUMBER: ML-21839

PROPOSED PRODUCING FORMATION(S): GREEN RIVER

SURFACE OWNER: 3 - State

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- PLAT**
- Bond:** FEDERAL - B001834
- 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**

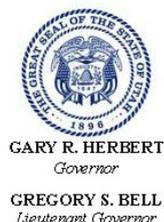
Commingle Approved

LOCATION AND SITING:

- R649-2-3.**
- Unit:** GMBU (GRRV)
- R649-3-2. General**
- R649-3-3. Exception**
- Drilling Unit**
- Board Cause No:** Cause 213-11
- Effective Date:** 11/30/2009
- Siting:** 460' fr unit boundary
- R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations: 5 - Statement of Basis - bhill
15 - Directional - dmason
25 - Surface Casing - ddoucet



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: South Monument Butte State L-2-9-16
API Well Number: 43013501990000
Lease Number: ML-21839
Surface Owner: STATE
Approval Date: 3/16/2010

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 213-11. 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:

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.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Surface casing shall be cemented to the surface.

Production casing cement shall be brought up to or above the top of the unitized interval for the Greater Monument Butte Unit (Cause No. 213-11).

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

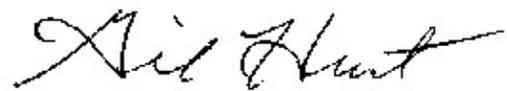
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <https://oilgas.ogm.utah.gov>

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", written in a cursive style.

Gil Hunt
Associate Director, Oil & Gas

Spud
BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig
Name/# Ross Rig # 26 Submitted By Alvin
Nielsen Phone Number 435-823-
7468

Well Name/Number South Monument Butte State L-2-9-
16

Qtr/Qtr SE/NE Section 2 Township 9S Range
16E

Lease Serial Number ML-
21839

API Number 43-013-
501990000

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

Date/Time 7/6/10 8:00 AM PM

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

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

Date/Time 7/6/10 5:00 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 Ross Rig # 26 spud the South Monumont Butte State L-2-9-16 @ 8:00 AM on 7/6/10 & Run 85/8" casing @ 5:00 PM on 7/6/10.

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

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

OPERATOR ACCT. NO. N2695

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	17697	4301350272	UTE TRIBAL 14-20-4-1	SESW	20	4S	1W	DUCHESNE	7/2/2010	7/26/10
WELL 1 COMMENTS: <i>GRRV</i>											
B	99999	17400 ✓	4301350177	GREATER Boundary II Fed. G-28-8-17	NWNW	28	8S	17E	DUCHESNE	7/7/2010	7/26/10
<i>GRRV</i> <i>BHL = SENW</i>											
B	99999	17400 ✓	4301350199	S MONUMENT BUTTE State L-2-9-16	^E SESW	2	9S	16E	DUCHESNE	7/6/2010	7/26/10
<i>GRRV</i> <i>BHL = NESE</i>											
B	99999	17400 ✓	4301350212	Greater Monument Butte JONAH O-1-9-16	SENE	2	9S	16E	DUCHESNE	7/10/2010	7/26/10
<i>GRRV</i> <i>BHL = Sec 1 NWSW</i>											
A	99999	17698	4304751085	UTE TRIBAL 9-29-4-1E	NESE	29	4S	1E	UINTAH	7/9/2010	7/26/10
WELL 5 COMMENTS: <i>GRRV</i> <i>BHL = NESE</i>											
A	99999	17699	4304751058	UTE TRIBAL 10-29-4-1E	NWSE	29	4S	1E	UINTAH	7/9/2010	7/26/10
WELL 5 COMMENTS: <i>GRRV</i>											

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

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15/
Signature _____ Jentri Park
Production Clerk _____ 07/19/10
Date _____

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

DIV. OF OIL, GAS & MINING

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

5. LEASE DESIGNATION AND SERIAL NUMBER: UTAH STATE ML-21839
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME: GMBU
8. WELL NAME and NUMBER: MON BUTTE L-2-9-16
9. API NUMBER: 4301350199
10. FIELD AND POOL, OR WILDCAT: GREATER MB UNIT

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER	
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY	
3. ADDRESS OF OPERATOR: Route 3 Box 3630	PHONE NUMBER 435.646.3721
CITY Myton STATE UT ZIP 84052	10. FIELD AND POOL, OR WILDCAT: GREATER MB UNIT
4. LOCATION OF WELL: FOOTAGES AT SURFACE:	COUNTY: DUCHESNE
OTR/OTR SECTION.TOWNSHIP.RANGE.MERIDIAN: , 2, 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: 07/12/2010	<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: - Spud Notice
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

On 7/6/10 MIRU Ross Rig # 26. Spud well @ 8:00 AM. Drill 750' of 12 1/4" hole with air mist. TIH W/ 17 Jt's 8 5/8" J-55 24 # csgn. Set @ 746.68 KB On 7/12/10 cement with 384 sks of class "G" w/ 2% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cf/ sk yeild. Returned 20 bbls cement to pit. WOC.

NAME (PLEASE PRINT) <u>Arvin Nielsen</u>	TITLE <u>Drilling Foreman</u>
SIGNATURE <u><i>Arvin Nielsen</i></u>	DATE <u>07/12/2010</u>

(This space for State use only)

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DIV. OF OIL, GAS & MINING

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

5. LEASE DESIGNATION AND SERIAL NUMBER:
UTAH STATE ML-21839

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

7. UNIT or CA AGREEMENT NAME:
GMBU

1. TYPE OF WELL: OIL WELL GAS WELL OTHER

8. WELL NAME and NUMBER:
MON BUTTE L-2-9-16

2. NAME OF OPERATOR:
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:
4301350199

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

PHONE NUMBER
435.646.3721

10. FIELD AND POOL, OR WILDCAT:
GREATER MB UNIT

4. LOCATION OF WELL:

FOOTAGES AT SURFACE:

COUNTY: DUCHESNE

OTR/OTR. SECTION, TOWNSHIP, RANGE, MERIDIAN: , 2, 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 checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: <u>11/12/2010</u>	<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 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 11-12-10, attached is a daily completion status report.

NAME (PLEASE PRINT) Lucy Chavez-Naupoto

TITLE Administrative Assistant

SIGNATURE 

DATE 11/15/2010

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Daily Activity Report

Format For Sundry

MON BUTTE L-2-9-16**9/1/2010 To 1/30/2011****10/29/2010 Day: 1****Completion**

Rigless on 10/29/2010 - Run CBL & perforate stg #1 - Install 5m frac head. NU 6" 5K Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head, csg & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 6151' & cement top @ 27'. Perforate stage #1, CP3 sds @ (5916'-20') w/ 3 1/8" Port plug guns (11 gram .36" EH 16.82" pen) w/ 3 spf for total of 12 shots. RD H/O truck & The Perforators WLT & mast. Wait on frac crew

Daily Cost: \$0**Cumulative Cost:** \$12,225**11/4/2010 Day: 2****Completion**

Rigless on 11/4/2010 - Frac & perforate stgs #1 & 2. Perforate stg #3 - MIRU The Perforators WLT & crane. RU BJ Services frac crew. Frac stg #1. Perforate & frac stg #2. Perforate stg #3. SDFN EWTR 587 BBLs

Daily Cost: \$0**Cumulative Cost:** \$12,525**11/5/2010 Day: 3****Completion**

Rigless on 11/5/2010 - Perforate & frac remaining stgs. Flowback well. Set kill plug - Open well. Break down & frac stg #3. Perforate & frac stgs #4 - 6. RD BJ frac equipment & WLT. EWTR 2151 BBLs. RU flowback equipment. Open well to pit for flowback @ 11:00 AM. Flowback well for 5.5 hrs to recover 825 BBLs WTR. EWTR 1326 BBLs RU WLT & crane. RIH w/ wireline to set kill plug @ 4260'. RD WLT & crane. SDFN

Daily Cost: \$0**Cumulative Cost:** \$107,003**11/8/2010 Day: 4****Completion**

WWS #1 on 11/8/2010 - MIRUSU for completion. - MIRUSU WWS #1. Prep & tally tbg. ND Cameron BOP. NU Schafffer BOP. RU workfloor. MU Weatherford 4 3/4" chomp bit, bit sub & PSN. TIH picking up & drifting tbg. Get in hole w/ 50 jts tbg. SDFN - MIRUSU WWS #1. Prep & tally tbg. ND Cameron BOP. NU Schafffer BOP. RU workfloor. MU Weatherford 4 3/4" chomp bit, bit sub & PSN. TIH picking up & drifting tbg. Get in hole w/ 50 jts tbg. SDFN - Open well. CSG 0 PSI. TBG 0 PSI. Continue picking up tbg to tag kill plug @ 4260'. Drill out plug. Continue picking up tbg to tag CBP @ 4420'. Drill out plug. Continue picking up tbg to tag CBP @ 4920'. Drill out plug. Continue picking up tbg to tag CBP @5100'. Drill out plug. Continue picking up tbg to tag sand @ 5335'. Clean out sand to PBTB @ 5492'. Circulate well clean. LD 1 jt tbg. EOT @ 5461'. SDFN Gained 280 BBLs during clean out. EWTR 1046 BBLs - Open well. CSG 0 PSI. TBG 0 PSI. Continue picking up tbg to tag kill plug @ 4260'. Drill out plug. Continue picking up tbg to tag CBP @ 4420'. Drill out plug. Continue picking up tbg to tag CBP @ 4920'. Drill out plug. Continue picking up tbg to tag CBP @5100'. Drill out plug. Continue picking up tbg to tag sand @ 5335'. Clean out sand to PBTB @ 5492'. Circulate well clean. LD 1 jt tbg. EOT @ 5461'. SDFN Gained 280 BBLs during clean out. EWTR 1046 BBLs

Daily Cost: \$0

Cumulative Cost: \$148,044

11/10/2010 Day: 6

Completion

WWS #1 on 11/10/2010 - Continue drill out plugs. Clean out to PBTD - Open well. CSG 600 psi. TBG 600 psi. Kill tbg. Continue picking up tbg to tag sand @ 5492'. Clean out sand to next CBP @ 5550'. Continue picking up tbg to tag sand @ 5744'. Clean out sand to next CBP @ 5800'. Continue picking up tbg to tag sand @ 6060'. Clean out sand to PBTD @ 6193'. Circulate clean. LD 3 jts tbg. RU swab equipment. Make repairs to sandline. Wait on hot oiler to heat & transfer oil from flat tank. SDFN

Daily Cost: \$0

Cumulative Cost: \$163,764

11/11/2010 Day: 7

Completion

WWS #1 on 11/11/2010 - Flow well. Kill well. Round trip tbg for production. - Open well. Hot oiler thawed well head. Open well. CSG 650 psi. TBG 525 psi. Open well to flat tank. Flow well up tbg to recover 153 bw w/ gas & trace of oil, no sand. Pump 240 bw down tbg to kill. PU 3 jts tbg to tag PBTD. No new fill. LD excess tbg (8 jts). TOO H w/ tbg. Get out of hole of tbg. LD bit & bit sub. MU btm hole assembly. TIH w/ tbg detail @ follows. NC, 2 jts tbg, PSN, 1 jt tbg, TAC, & 187 jts tbg. Get in hole w/ tbg. RD workfloor. ND BOP. Set TAC. MU B-1 adapter flange. Land tbg w/ 18000# tension. X-over to rod equipment. Drain pump & lines. SDFN D&M Hot Oil heat & transfer flat tank.

Daily Cost: \$0

Cumulative Cost: \$172,199

11/12/2010 Day: 8

Completion

WWS #1 on 11/12/2010 - - Open well. CSG 500 psi. TBG 550 psi. Bleed off well. PU & prime new Central Hydraulic 2 1/2" x 1 3/4" x 21' x 24' RHAC pump. TIH picking up rod detail @ follows. 4 - 1 1/2" wt bars, & 231 - 7/8" guided rods (8 - per). MU new 1 1/2" x 30' polished rod. RU pumping unit. TBG standing full. Stroke test pump to 800 psi w/ unit. Good pump action. RDMOSU WWS #1. PWOP @ 1:00 PM W/ 144" SL @ 5 SPM. FINAL REPORT! **Finalized**

Daily Cost: \$0

Cumulative Cost: \$217,568

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.
ML-21839

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
GMBU

8. Lease Name and Well No.
S MON BT STATE L-2-9-16

9. AFI Well No.
43-013-90199

10. Field and Pool or Exploratory
GREATER MB UNIT

11. Sec., T., R., M., on Block and Survey or Area
SEC. 2, T9S, R16E

12. County or Parish
DUCHESNE

13. State
UT

1a. Type of Well Oil Well Gas Well Dry Other

b. Type of Completion: New Well Work Over Deepen Plug Back Diff. Resrv.,
Other: _____

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 2087' FNL & 444' FEL (SE/NE) SEC. 2, T9S, R16E (ML-21839)

At top prod. interval reported below 2538' FNL & 974' FEL (SE/NE) SEC. 2, T9S, R16E (ML-21839)

At total depth 2474' FSL & 1290' FEL (NE/SE) SEC. 2, T9S, R16E (ML-21839)

17. Elevations (DF, RKB, RT, GL)*
5453' GL 5465' KB

BHL Reviewed
by HSM

14. Date Spudded
07/06/2010

15. Date T.D. Reached
07/18/2010

16. Date Completed 11/12/2010
 D & A Ready to Prod.

18. Total Depth: MD 6281'
TVD 6151'

19. Plug Back T.D.: MD 6151'
TVD 6033

20. Depth Bridge Plug Set: MD
TVD

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

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

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24#	0	747'		384 CLASS G			
7-7/8"	5-1/2" J-55	15.5#	0	6288'		250 PRIMLITE		27'	
						400 50/50 POZ			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8"	EOT@ 5981'	TA @ 5883'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Green River	4325'	5920'	4325-5920'	.36"	141	
B)						
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
4325-5920'	Frac w/ 162,645#'s 20/40 sand in 1,188 bbls of Lightning 17 fluid in 6 stages

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
11/11/10	11/25/10	24	→	10	7.39	9.07			2-1/2" x 1-3/4" x 21' 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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*(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
GREEN RIVER	4325'	5920'		GARDEN GULCH MRK GARDEN GULCH 1	3789' 4001'
				GARDEN GULCH 2 POINT 3	4123' 4391'
				X MRKR Y MRKR	4650' 4692'
				DOUGALS CREEK MRK BI CARBONATE MRK	4813' 5065'
				B LIMESTON MRK CASTLE PEAK	5195' 5674'
				BASAL CARBONATE	6115'

32. Additional remarks (include plugging procedure):

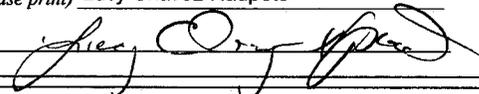
33. Indicate which items have been attached by placing a check in the appropriate boxes:

- Electrical/Mechanical Logs (1 full set req'd.)
 Geologic Report
 DST Report
 Directional Survey
 Sundry Notice for plugging and cement verification
 Core Analysis
 Other: 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 12/03/2010

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 2 9S 16E

L-2-9-16

Wellbore #1

Design: Actual

Standard Survey Report

12 August, 2010

HATHAWAY HB BURNHAM
DIRECTIONAL & MWD SERVICES



HATHAWAY BURNHAM

Survey Report



Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 2 9S 16E
Well: L-2-9-16
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference: Well L-2-9-16
TVD Reference: L-2-9-16 @ 5465.0ft (Original Well Elev)
MD Reference: L-2-9-16 @ 5465.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.21 Single User Db

Project	USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		

Site	SECTION 2 9S 16E, SEC 2 9S 16E		
Site Position:		Northing:	7,193,600.00ft
From:	Map	Easting:	2,036,100.00ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	40° 3' 34.952 N
		Longitude:	110° 5' 10.480 W
		Grid Convergence:	0.91 °

Well	L-2-9-16, SHL LAT: 40 03 41.08, LONG: -110 04 43.70		
Well Position	+N/-S	0.0 ft	Northing: 7,194,252.94 ft
	+E/-W	0.0 ft	Easting: 2,038,171.98 ft
Position Uncertainty	0.0 ft	Wellhead Elevation:	5,465.0 ft
		Ground Level:	5,453.0ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2010/07/07	11.44	65.83	52,370

Design	Actual				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	229.38	

Survey Program	Date 2010/08/12				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
750.0	6,271.0	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
750.0	0.29	163.42	750.0	-1.8	0.5	0.8	0.04	0.04	0.00
781.0	0.50	181.30	781.0	-2.0	0.6	0.9	0.78	0.68	57.68
827.0	1.01	209.55	827.0	-2.6	0.4	1.4	1.34	1.11	61.41
872.0	1.56	220.03	872.0	-3.4	-0.2	2.4	1.32	1.22	23.29
917.0	2.00	225.90	917.0	-4.4	-1.2	3.8	1.06	0.98	13.04
962.0	2.55	228.42	961.9	-5.6	-2.5	5.6	1.24	1.22	5.60
1,007.0	3.23	235.76	1,006.9	-7.0	-4.3	7.8	1.72	1.51	16.31
1,053.0	4.04	238.30	1,052.8	-8.6	-6.8	10.7	1.79	1.76	5.52
1,098.0	4.71	237.90	1,097.6	-10.4	-9.7	14.1	1.49	1.49	-0.89
1,144.0	5.38	236.90	1,143.5	-12.6	-13.1	18.1	1.47	1.46	-2.17
1,189.0	6.00	238.40	1,188.2	-15.0	-16.8	22.5	1.42	1.38	3.33
1,234.0	6.60	238.80	1,233.0	-17.5	-21.1	27.4	1.34	1.33	0.89



HATHAWAY BURNHAM

Survey Report



Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 2 9S 16E
Well: L-2-9-16
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference: Well L-2-9-16
TVD Reference: L-2-9-16 @ 5465.0ft (Original Well Elev)
MD Reference: L-2-9-16 @ 5465.0ft (Original Well Elev)
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)
1,279.0	7.30	238.60	1,277.6	-20.4	-25.7	32.8	1.56	1.56	-0.44
1,325.0	8.00	237.10	1,323.2	-23.6	-30.9	38.8	1.58	1.52	-3.26
1,370.0	8.90	234.90	1,367.7	-27.3	-36.4	45.4	2.12	2.00	-4.89
1,415.0	9.50	233.50	1,412.2	-31.5	-42.2	52.6	1.42	1.33	-3.11
1,461.0	10.00	232.40	1,457.5	-36.2	-48.4	60.3	1.16	1.09	-2.39
1,506.0	10.70	230.80	1,501.8	-41.3	-54.8	68.4	1.68	1.56	-3.56
1,551.0	11.40	229.90	1,545.9	-46.8	-61.4	77.0	1.60	1.56	-2.00
1,596.0	11.80	230.20	1,590.0	-52.6	-68.3	86.1	0.90	0.89	0.67
1,642.0	12.60	229.60	1,635.0	-58.8	-75.8	95.8	1.76	1.74	-1.30
1,687.0	12.70	228.20	1,678.9	-65.3	-83.2	105.7	0.72	0.22	-3.11
1,732.0	12.80	227.50	1,722.8	-72.0	-90.5	115.6	0.41	0.22	-1.56
1,778.0	13.10	227.00	1,767.6	-79.0	-98.1	125.9	0.70	0.65	-1.09
1,823.0	12.90	226.30	1,811.4	-85.9	-105.5	136.0	0.57	-0.44	-1.56
1,868.0	13.20	227.00	1,855.3	-92.9	-112.9	146.2	0.75	0.67	1.56
1,914.0	13.00	228.10	1,900.1	-99.9	-120.6	156.6	0.69	-0.43	2.39
1,959.0	12.70	228.50	1,944.0	-106.6	-128.0	166.6	0.70	-0.67	0.89
2,004.0	12.48	227.17	1,987.9	-113.2	-135.3	176.4	0.81	-0.49	-2.96
2,050.0	12.80	225.40	2,032.8	-120.1	-142.6	186.4	1.09	0.70	-3.85
2,095.0	12.90	225.50	2,076.6	-127.2	-149.7	196.4	0.23	0.22	0.22
2,140.0	12.90	226.70	2,120.5	-134.1	-156.9	206.4	0.60	0.00	2.67
2,185.0	12.90	228.40	2,164.4	-140.9	-164.4	216.5	0.84	0.00	3.78
2,231.0	12.60	229.20	2,209.2	-147.6	-172.0	226.6	0.76	-0.65	1.74
2,276.0	12.40	228.60	2,253.2	-154.0	-179.3	236.4	0.53	-0.44	-1.33
2,321.0	12.70	228.00	2,297.1	-160.5	-186.6	246.2	0.73	0.67	-1.33
2,367.0	12.70	228.50	2,342.0	-167.2	-194.2	256.3	0.24	0.00	1.09
2,412.0	12.50	229.20	2,385.9	-173.7	-201.6	266.1	0.56	-0.44	1.56
2,457.0	12.50	231.00	2,429.8	-179.9	-209.0	275.8	0.87	0.00	4.00
2,503.0	12.70	231.30	2,474.7	-186.2	-216.9	285.8	0.46	0.43	0.65
2,548.0	12.70	230.80	2,518.6	-192.4	-224.6	295.7	0.24	0.00	-1.11
2,593.0	12.40	229.80	2,562.5	-198.7	-232.1	305.5	0.82	-0.67	-2.22
2,638.0	12.20	231.50	2,606.5	-204.8	-239.5	315.1	0.92	-0.44	3.78
2,684.0	11.50	229.80	2,651.5	-210.8	-246.8	324.5	1.70	-1.52	-3.70
2,729.0	11.70	229.40	2,695.6	-216.6	-253.7	333.6	0.48	0.44	-0.89
2,774.0	11.30	226.40	2,739.7	-222.6	-260.3	342.6	1.60	-0.89	-6.67
2,820.0	11.80	226.70	2,784.8	-229.0	-267.0	351.8	1.09	1.09	0.65
2,864.0	12.20	229.80	2,827.8	-235.1	-273.9	360.9	1.72	0.91	7.05
2,910.0	13.50	232.50	2,872.6	-241.5	-281.8	371.1	3.11	2.83	5.87
2,956.0	14.90	232.42	2,917.2	-248.3	-290.8	382.4	3.04	3.04	-0.17
3,001.0	14.83	230.55	2,960.7	-255.5	-299.8	393.9	1.08	-0.16	-4.16
3,046.0	14.50	229.21	3,004.3	-262.9	-308.5	405.3	1.05	-0.73	-2.98
3,092.0	14.92	229.19	3,048.8	-270.5	-317.4	417.0	0.91	0.91	-0.04
3,137.0	14.70	228.71	3,092.3	-278.0	-326.0	428.5	0.56	-0.49	-1.07
3,182.0	13.70	226.31	3,135.9	-285.5	-334.2	439.5	2.58	-2.22	-5.33
3,228.0	13.12	226.11	3,180.6	-292.9	-341.9	450.2	1.26	-1.26	-0.43
3,273.0	13.65	227.19	3,224.4	-300.0	-349.5	460.6	1.30	1.18	2.40
3,318.0	14.00	227.91	3,268.1	-307.3	-357.4	471.3	0.87	0.78	1.60
3,364.0	14.02	226.62	3,312.7	-314.8	-365.6	482.5	0.68	0.04	-2.80
3,409.0	13.71	226.40	3,356.4	-322.3	-373.4	493.2	0.70	-0.69	-0.49
3,454.0	13.40	226.70	3,400.2	-329.5	-381.0	503.8	0.71	-0.69	0.67
3,500.0	13.10	226.90	3,445.0	-336.7	-388.7	514.3	0.66	-0.65	0.43
3,545.0	13.00	229.30	3,488.8	-343.5	-396.3	524.5	1.22	-0.22	5.33
3,590.0	12.90	230.16	3,532.6	-350.0	-404.0	534.5	0.48	-0.22	1.91
3,635.0	12.79	230.00	3,576.5	-356.5	-411.7	544.5	0.26	-0.24	-0.36
3,681.0	12.40	230.18	3,621.4	-362.9	-419.4	554.6	0.85	-0.85	0.39



HATHAWAY BURNHAM

Survey Report



Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 2 9S 16E
Well: L-2-9-16
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference: Well L-2-9-16
TVD Reference: L-2-9-16 @ 5465.0ft (Original Well Elev)
MD Reference: L-2-9-16 @ 5465.0ft (Original Well Elev)
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)
3,726.0	12.42	230.40	3,665.4	-369.1	-426.8	564.2	0.11	0.04	0.49
3,771.0	12.35	230.66	3,709.3	-375.2	-434.2	573.9	0.20	-0.16	0.58
3,817.0	12.10	230.31	3,754.3	-381.4	-441.8	583.6	0.57	-0.54	-0.76
3,862.0	11.90	229.30	3,798.3	-387.4	-448.9	593.0	0.64	-0.44	-2.24
3,907.0	12.13	228.64	3,842.3	-393.6	-456.0	602.3	0.60	0.51	-1.47
3,953.0	12.57	231.50	3,887.2	-399.9	-463.5	612.2	1.64	0.96	6.22
3,998.0	12.60	233.17	3,931.2	-405.9	-471.3	622.0	0.81	0.07	3.71
4,043.0	13.00	234.00	3,975.0	-411.8	-479.3	631.9	0.98	0.89	1.84
4,089.0	13.50	232.84	4,019.8	-418.1	-487.8	642.4	1.23	1.09	-2.52
4,134.0	13.89	233.19	4,063.5	-424.5	-496.3	653.1	0.89	0.87	0.78
4,179.0	14.30	233.10	4,107.2	-431.1	-505.0	664.0	0.91	0.91	-0.20
4,224.0	13.73	232.00	4,150.8	-437.7	-513.7	674.9	1.40	-1.27	-2.44
4,270.0	13.10	230.10	4,195.6	-444.4	-522.0	685.5	1.67	-1.37	-4.13
4,315.0	13.03	228.60	4,239.4	-451.0	-529.7	695.7	0.77	-0.16	-3.33
4,360.0	12.92	229.87	4,283.3	-457.6	-537.4	705.8	0.68	-0.24	2.82
4,406.0	12.70	230.50	4,328.1	-464.2	-545.2	716.0	0.57	-0.48	1.37
4,451.0	13.00	229.70	4,372.0	-470.6	-552.9	726.0	0.78	0.67	-1.78
4,496.0	12.70	229.60	4,415.9	-477.1	-560.5	736.0	0.67	-0.67	-0.22
4,541.0	12.20	229.70	4,459.8	-483.3	-567.9	745.7	1.11	-1.11	0.22
4,587.0	12.50	230.70	4,504.8	-489.6	-575.5	755.6	0.80	0.65	2.17
4,632.0	12.60	230.30	4,548.7	-495.9	-583.0	765.3	0.29	0.22	-0.89
4,677.0	12.80	229.20	4,592.6	-502.2	-590.6	775.2	0.70	0.44	-2.44
4,723.0	13.10	229.00	4,637.4	-509.0	-598.3	785.6	0.66	0.65	-0.43
4,768.0	13.00	228.00	4,681.2	-515.7	-606.0	795.7	0.55	-0.22	-2.22
4,813.0	12.80	227.90	4,725.1	-522.5	-613.4	805.8	0.45	-0.44	-0.22
4,858.0	12.30	229.30	4,769.0	-528.9	-620.8	815.5	1.30	-1.11	3.11
4,904.0	12.30	229.70	4,814.0	-535.3	-628.2	825.3	0.19	0.00	0.87
4,949.0	12.10	231.10	4,858.0	-541.4	-635.5	834.8	0.79	-0.44	3.11
4,994.0	12.30	231.50	4,901.9	-547.3	-642.9	844.3	0.48	0.44	0.89
5,040.0	12.10	233.60	4,946.9	-553.2	-650.7	854.0	1.06	-0.43	4.57
5,085.0	11.50	233.40	4,991.0	-558.7	-658.1	863.2	1.34	-1.33	-0.44
5,130.0	11.60	231.10	5,035.0	-564.2	-665.2	872.2	1.05	0.22	-5.11
5,176.0	11.50	228.20	5,080.1	-570.2	-672.2	881.4	1.28	-0.22	-6.30
5,221.0	11.40	226.60	5,124.2	-576.2	-678.8	890.4	0.74	-0.22	-3.56
5,266.0	11.40	226.80	5,168.3	-582.3	-685.3	899.2	0.09	0.00	0.44
5,295.8	11.33	228.45	5,197.5	-586.3	-689.6	905.1	1.12	-0.23	5.54
L-2-9-16 TGT									
5,311.0	11.30	229.30	5,212.4	-588.2	-691.8	908.1	1.12	-0.21	5.59
5,356.0	12.00	231.10	5,256.5	-594.0	-698.8	917.2	1.75	1.56	4.00
5,401.0	12.00	230.70	5,300.5	-599.9	-706.1	926.5	0.18	0.00	-0.89
5,447.0	12.30	228.50	5,345.5	-606.2	-713.4	936.2	1.20	0.65	-4.78
5,492.0	12.04	228.31	5,389.5	-612.5	-720.5	945.7	0.58	-0.58	-0.42
5,537.0	11.76	228.00	5,433.5	-618.7	-727.5	955.0	0.64	-0.62	-0.69
5,583.0	11.40	225.70	5,478.6	-625.0	-734.2	964.2	1.27	-0.78	-5.00
5,628.0	11.40	225.70	5,522.7	-631.2	-740.6	973.1	0.00	0.00	0.00
5,673.0	11.50	227.80	5,566.8	-637.3	-747.1	982.0	0.95	0.22	4.67
5,718.0	11.78	233.30	5,610.9	-643.1	-754.1	991.1	2.54	0.62	12.22
5,763.0	12.40	234.00	5,654.9	-648.7	-761.7	1,000.5	1.42	1.38	1.56
5,808.0	12.80	231.75	5,698.8	-654.6	-769.5	1,010.3	1.41	0.89	-5.00
5,854.0	12.61	230.10	5,743.7	-661.0	-777.3	1,020.4	0.89	-0.41	-3.59
5,899.0	12.52	231.40	5,787.6	-667.2	-784.9	1,030.2	0.66	-0.20	2.89
5,944.0	12.99	233.80	5,831.5	-673.2	-792.8	1,040.1	1.57	1.04	5.33
5,990.0	13.10	230.60	5,876.3	-679.6	-801.0	1,050.4	1.59	0.24	-6.96
6,035.0	13.20	229.39	5,920.1	-686.2	-808.9	1,060.7	0.65	0.22	-2.69



HATHAWAY BURNHAM

Survey Report



Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 2 9S 16E
Well: L-2-9-16
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference: Well L-2-9-16
TVD Reference: L-2-9-16 @ 5465.0ft (Original Well Elev)
MD Reference: L-2-9-16 @ 5465.0ft (Original Well Elev)
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)
6,080.0	12.60	231.00	5,964.0	-692.6	-816.6	1,070.7	1.55	-1.33	3.58
6,126.0	12.20	230.00	6,008.9	-698.9	-824.2	1,080.6	0.99	-0.87	-2.17
6,171.0	11.60	226.80	6,052.9	-705.0	-831.1	1,089.9	1.98	-1.33	-7.11
6,221.0	11.82	224.70	6,101.9	-712.1	-838.4	1,100.0	0.96	0.44	-4.20
6,271.0	11.82	224.70	6,150.8	-719.4	-845.6	1,110.2	0.00	0.00	0.00

Wellbore Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
L-2-9-16 TGT	0.00	0.00	5,200.0	-581.2	-677.6	7,193,661.02	2,037,503.65	40° 3' 35.335 N	110° 4' 52.416 W
- hit/miss target - Shape - actual wellpath misses by 13.2ft at 5295.8ft MD (5197.5 TVD, -586.3 N, -689.6 E) - Circle (radius 75.0)									

Checked By: _____ Approved By: _____ Date: _____

NEWFIELD



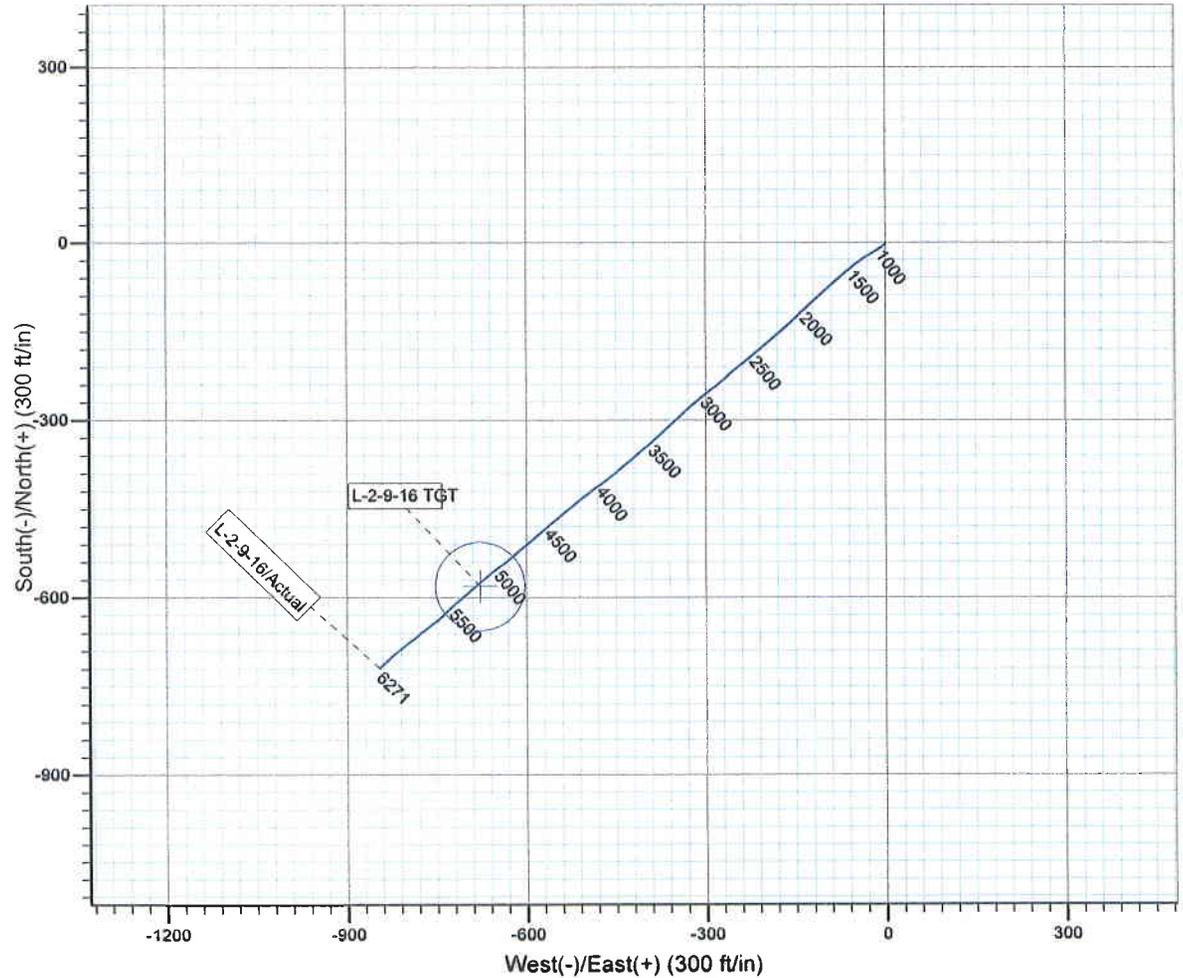
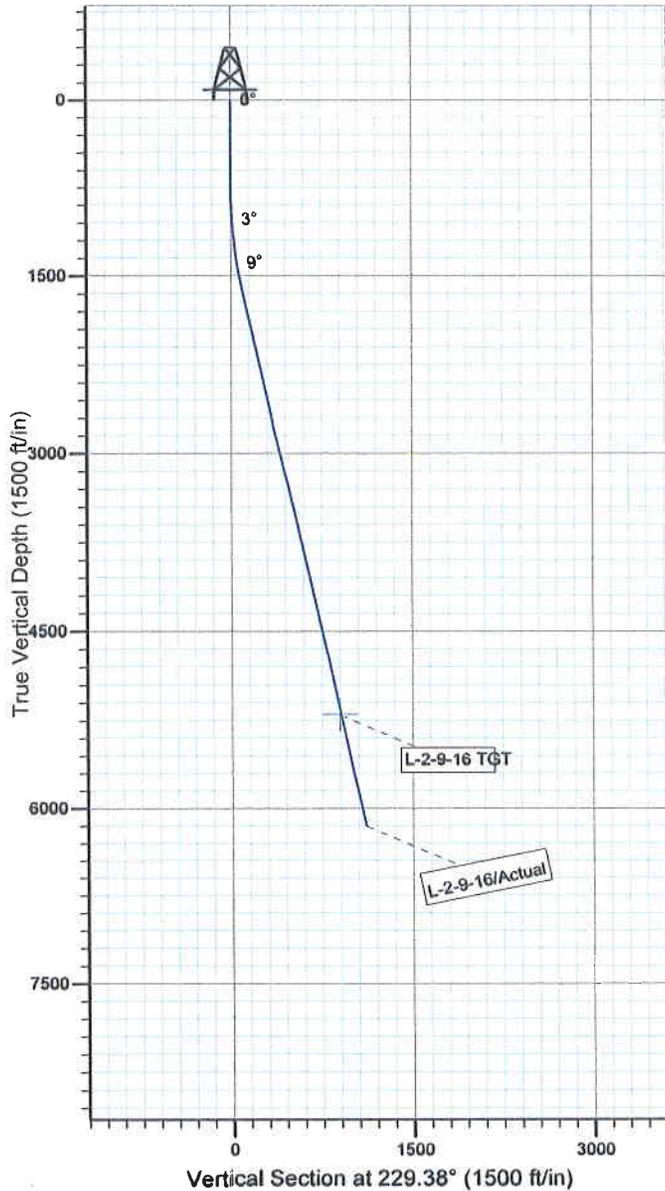
Project: USGS Myton SW (UT)
Site: SECTION 2 9S 16E
Well: L-2-9-16
Wellbore: Wellbore #1
SURVEY: Actual

FINAL SURVEY REPORT



Azimuths to True North
Magnetic North: 11.44°

Magnetic Field
Strength: 52370.3snT
Dip Angle: 65.83°
Date: 2010/07/07
Model: IGRF2010



HATHAWAY HUBBURNHAM
DIRECTIONAL & MWD SERVICES

Design: Actual (L-2-9-16/Wellbore #1)

Created By: *Jim Hudson* Date: 10:35, August 12 2010
THIS SURVEY IS CORRECT TO THE BEST OF MY
KNOWLEDGE AND IS SUPPORTED BY ACTUAL FIELD DATA.

Daily Activity Report**Format For Sundry****MON BUTTE L-2-9-16****5/1/2010 To 9/30/2010****MON BUTTE L-2-9-16****Waiting on Cement****Date:** 7/11/2010

Ross #26 at 750. Days Since Spud - On 7/12/10 Cemented 85/8" surface casing w/ 384 sks Mixed @ G cmt+2%CaCl₂+.25#/SKCello+5#Blend - On 7/6/10 Ran 85/8" surface casing (Guide shoe shoe jt baffle plate 16 jts Set @ 746.68' - BLM & State was notif for the Spud - Ross Rig # 26 Spud the South Monument Butte State L-2-9-16 @ 8:00 AM on 7/6/10 TD 750' - Static free 15.8 ppg & 1.17 yeild Returned 20 bbls back to pit

Daily Cost: \$0**Cumulative Cost:** \$72,584**MON BUTTE L-2-9-16****Drill 7 7/8" hole with fresh water****Date:** 7/15/2010

Capstar #328 at 1239. 1 Days Since Spud - Drill 7 7/8" hole from 688' to 1239'/WOB 14/RPM 60/ GPM 409/ ROP 100 FPH - PU BHA with Dir. Tools / Tag cmt @ 688' - to 1500 psi for 30 min./All OK - Wait on new test truck - RU Quick test & test BOP's/Truck broke down - Move Rig #328 from GMB I-2-9-16 to GMB L-2-9-16/Set Equipment. - Finish testing BOP's /Test kelly,safety valve,pipe & blind rams &choke to 2000 psi for 10 min.Csg.

Daily Cost: \$0**Cumulative Cost:** \$109,913**MON BUTTE L-2-9-16****Drill 7 7/8" hole with fresh water****Date:** 7/16/2010

Capstar #328 at 4456. 2 Days Since Spud - Rig service - Drill 7 7/8" from 2054' to 4456'/WOB 19/RPM 55/GPM 409/ROP 126FPH - Drill 7 7/8" from 1239' to2054'/WOB 15/RPM 60/GPM 409/ROP 181FPH

Daily Cost: \$0**Cumulative Cost:** \$134,165**MON BUTTE L-2-9-16****Wait on Completion****Date:** 7/17/2010

Capstar #328 at 6271. 4 Days Since Spud - Rig service - Drill 7 7/8" from 4456' to5135'/WOB20/RPM60/GPM 409/ROP 136FP_H - Clean mud tanks. Rig released at 3:00 AM 7/18/2010. - Nipple down and set slips w/95,000# tension. - Displace 147.6 bbls of fresh water and pump w/ 2200psi. Returned 23 bbls to reserve pit. - Mixed @ 14.4 ppg yeild @ 1.24. - yield @ 3.54 Then tail of 400 sk 50:50:2+3%KCL+0.5%EC-1+.25# SK CF+.05#SF+.3SMS+FP-6L - CMT w/BJ Pump 250 sks PL II +3% KCL +5#CSE+0.5#CF+2#KOL+.5SMS+FP+SF mixed @ 11ppg - Circulate - R/U and run 144 jts 5 1/2" J55 15.50# casing set at 6288'. KB. - Change pipe rams to 5 1/2" and test to 2000 psi. Test ok. - R/U PSI run Dual Guard/Compensated Neutron-Density/ Suite 30'/Min. - Finish pipe lay down - LDDP - Pump 260 bbls Brine to kill 3 gpm flow - LDDP to 4000' - Circ for logs - Drill 7 7/8" from 5135' to 6271'/WOB 22/RPM 50/GPM 409/ROP 84 FPH - Rig service - Drill 7 7/8" from 4456' to5135'/WOB20/RPM60/GPM 409/ROP 136FP_H - Drill 7 7/8" from 5135' to 6271'/WOB 22/RPM 50/GPM 409/ROP 84 FPH - Circ for logs - LDDP to 4000' - Pump 260 bbls Brine to kill 3 gpm flow - LDDP - Finish pipe lay down - R/U PSI run Dual Guard/Compensated Neutron-Density/ Suite 30'/Min. - Change pipe rams to 5 1/2" and test to 2000 psi. Test ok. - R/U and run 144 jts 5 1/2" J55 15.50# casing set at 6288'. KB. - Circulate - CMT w/BJ Pump 250 sks PL II +3% KCL +5#CSE+0.5#CF+2#KOL+.5SMS+FP+SF mixed @ 11ppg - yield @

3.54 Then tail of 400 sk 50:50:2+3%KCL+0.5%EC-1+.25# SK CF+.05#SF+.3SMS+FP-6L - Mixed @ 14.4 ppg yeild @ 1.24. - Displace 147.6 bbls of fresh water and pump w/ 2200psi. Returned 23 bbls to reserve pit. - Clean mud tanks. Rig released at 3:00 AM 7/18/2010. - Nipple down and set slips w/95,000# tension. **Finalized**

Daily Cost: \$0

Cumulative Cost: \$314,778

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