API Well No: 43013504980000 Received: 11/22/2010

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** Greater Monument Butte S-17-9-17
2. TYPE OF WORK DRILL NEW WELL ■ REENTER P&A WELL ☐ DEEPEN WELL ☐	**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) UTU-72106 / **11. MINERAL OWNERSHIP** FEDERAL ■ INDIAN ☐ STATE ☐ FEE ☐	**12. SURFACE OWNERSHIP** FEDERAL ■ INDIAN ☐ STATE ☐ FEE ☐
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 ☐ (Submit Commingling Application) NO ■	**19. SLANT** VERTICAL ☐ DIRECTIONAL ■ HORIZONTAL ☐

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	699 FSL 1947 FEL	SWSE	17	9.0 S	17.0 E	S
Top of Uppermost Producing Zone	1230 FSL 1368 FEL	SWSE	17	9.0 S	17.0 E	S
At Total Depth	1412 FSL 1143 FEL	NESE	17	9.0 S	17.0 E	S

21. COUNTY DUCHESNE	**22. DISTANCE TO NEAREST LEASE LINE (Feet)** 92	**23. NUMBER OF ACRES IN DRILLING UNIT** 20
	25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1587	**26. PROPOSED DEPTH** MD: 5916 TVD: 5916
27. ELEVATION - GROUND LEVEL 5382	**28. BOND NUMBER** WYB000493	**29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE** 437478

ATTACHMENTS

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

✔ **WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER**	✔ **COMPLETE DRILLING PLAN**
☐ **AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)**	☐ **FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER**
✔ **DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)**	✔ **TOPOGRAPHICAL MAP**

NAME Mandie Crozier	**TITLE** Regulatory Tech	**PHONE** 435 646-4825
SIGNATURE	**DATE** 11/22/2010	**EMAIL** mcrozier@newfield.com
API NUMBER ASSIGNED 43013504980000	**APPROVAL** Permit Manager	

Proposed Hole, Casing, and Cement						
String	**Hole Size**	**Casing Size**	**Top (MD)**	**Bottom (MD)**		
Prod	7.875	5.5	0	5916		
Pipe	**Grade**	**Length**	**Weight**			
	Grade J-55 LT&C	5916	15.5			

Proposed Hole, Casing, and Cement						
String	**Hole Size**	**Casing Size**	**Top (MD)**	**Bottom (MD)**		
Surf	12.25	8.625	0	300		
Pipe	**Grade**	**Length**	**Weight**			
	Grade J-55 ST&C	300	24.0			

NEWFIELD PRODUCTION COMPANY
GREATER MONUMENT BUTTE S-17-9-17
AT SURFACE: SW/SE SECTION 17, T9S, R17E
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' – 1265'
Green River	1265'
Wasatch	5795'
Proposed TD	5916'

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

Green River Formation (Oil) 1265' – 5795'

Fresh water may be encountered in the Uinta Formation, but would not be expected below about 350'. 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: Greater Monument Butte S-17-9-17

Size	Interval		Weight	Grade	Coupling	Design Factors		
	Top	Bottom				Burst	Collapse	Tension
Surface casing 8-5/8"	0'	300'	24.0	J-55	STC	2,950 17.53	1,370 14.35	244,000 33.89
Prod casing 5-1/2"	0'	5,916'	15.5	J-55	LTC	4,810 2.56	4,040 2.15	217,000 2.37

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: Greater Monument Butte S-17-9-17

Job	Fill	Description	Sacks ft^3	OH Excess*	Weight (ppg)	Yield (ft^3/sk)
Surface casing	300'	Class G w/ 2% CaCl	138 161	30%	15.8	1.17
Prod casing Lead	3,916'	Prem Lite II w/ 10% gel + 3% KCl	271 882	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.

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.

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 ±350 feet will be drilled with an air/mist system. The air rig is equipped with a 6 ½" blooie line that is straight run and securely anchored. The blooie line is used with a discharge less than 100 ft from the wellbore in order to minimize the well pad size. The blooie line is not equipped with an automatic igniter or continuous pilot light and the compressor is located less than 100 ft from the well bore due to the low possibility of combustion with the air dust mixture. The trailer mounted compressor (capacity of 2000 CFM) has a safety shut-off valve which is located 15 feet from the air rig. A truck with 70 bbls of water is on stand by to be used as kill fluid, if necessary. From about ±350 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 @ 300' +/-, and a Compensated Neutron-Formation Density Log from TD to 3500' +-. A cement bond log will be run from PBTD to cement top. No drill stem testing or coring is planned for this well.

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

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.

'APIWellNo:43013504980000'

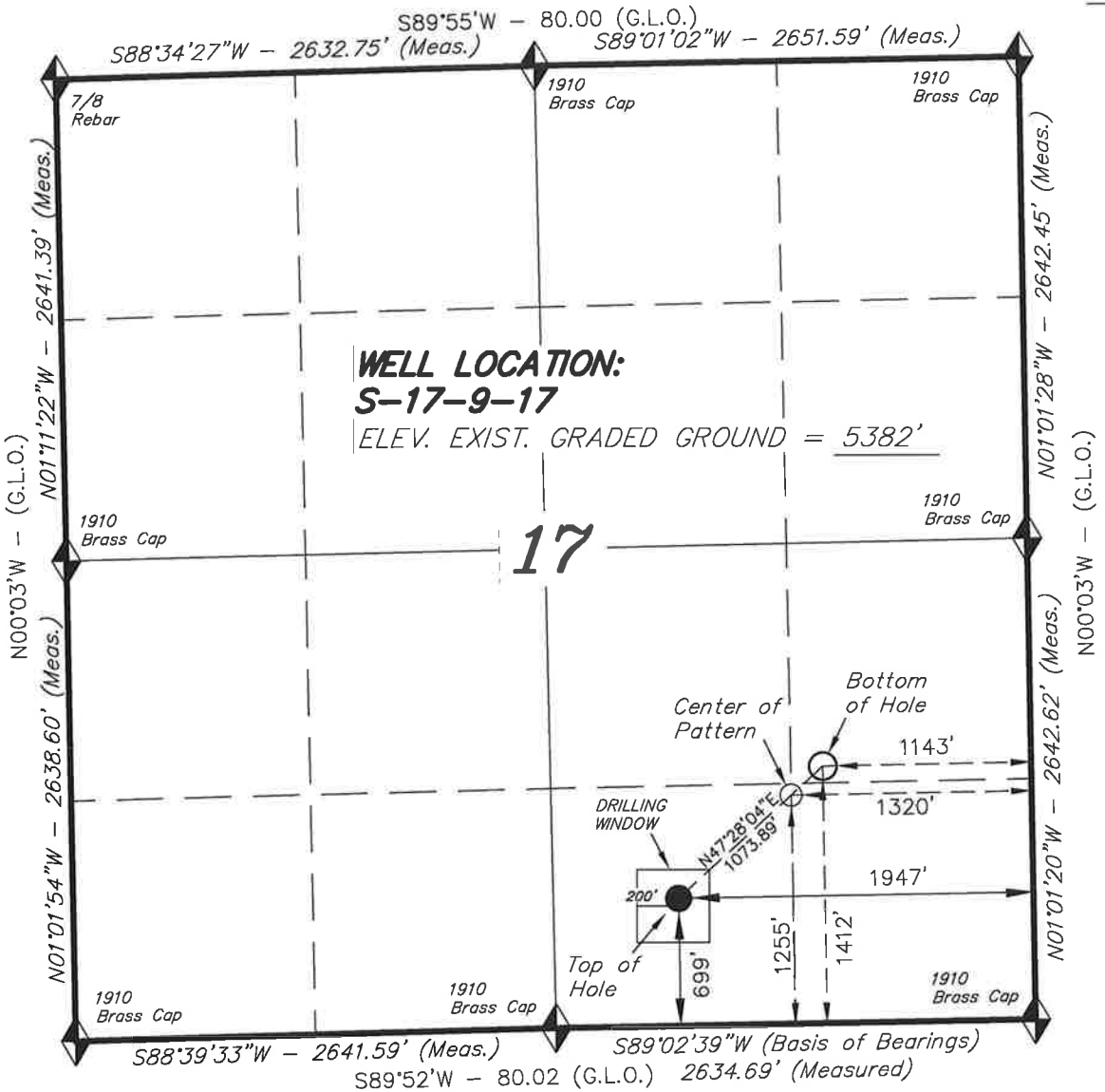
10. **ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

It is anticipated that the drilling operations will commence the first quarter of 2011, and take approximately seven (7) days from spud to rig release.

'APIWellNo:43013504980000'

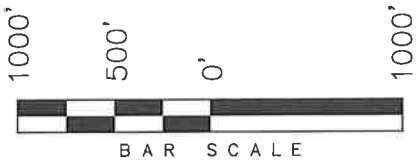
T9S, R17E, S.L.B.&M.

NEWFIELD EXPLORATION COMPANY



WELL LOCATION, S-17-9-17, LOCATED AS SHOWN IN THE SW 1/4 SE 1/4 OF SECTION 17, T9S, R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.

TARGET BOTTOM HOLE, S-17-9-17, LOCATED AS SHOWN IN THE NE 1/4 SE 1/4 OF SECTION 17, T9S, R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



N

NOTES:

1. *Well footages are measured at right angles to the Section Lines.*
2. *Bearings are based on Global Positioning Satellite observations.*

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

REGISTERED LAND SURVEYOR No. 189377 STATE OF UTAH

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

◆ = SECTION CORNERS LOCATED

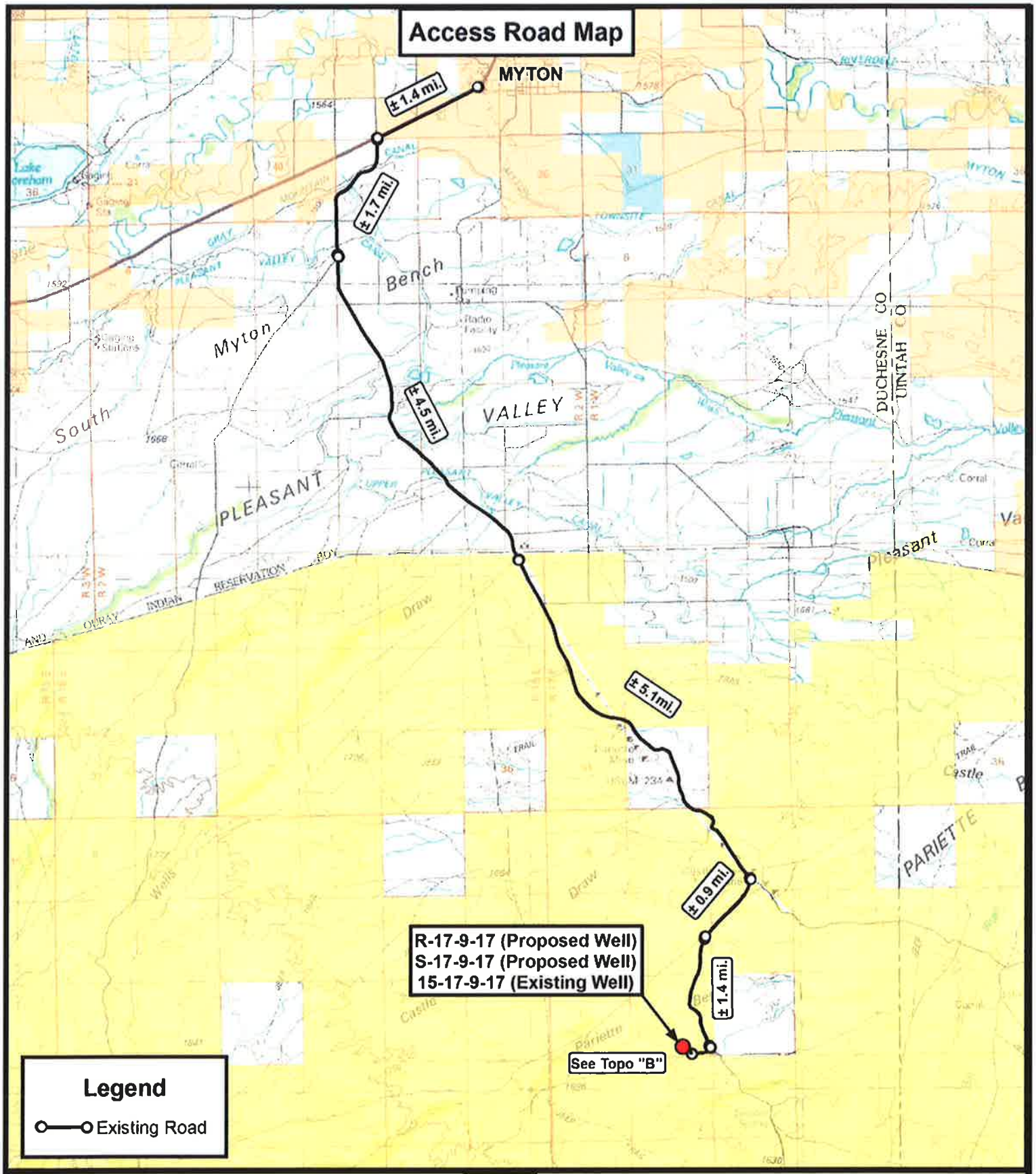
BASIS OF ELEV; Elevations are base on LOCATION: an N.G.S. OPUS Correction. LAT. 40°04'09.56" LONG. 110°00'43.28" (Tristate Aluminum Cap) Elev. 5281.57'

S-17-9-17
(Surface Location) **NAD 83**
LATITUDE = 40° 01' 32.24"
LONGITUDE = 110° 01' 40.68"

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

DATE SURVEYED: 08-03-10	SURVEYED BY: D.G.
DATE DRAWN: 08-04-10	DRAWN BY: M.W.
REVISED:	SCALE: 1" = 1000'

'APIWellNo:43013504980000'



Tri State Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078
P: (435) 781-2501
F: (435) 781-2518

N

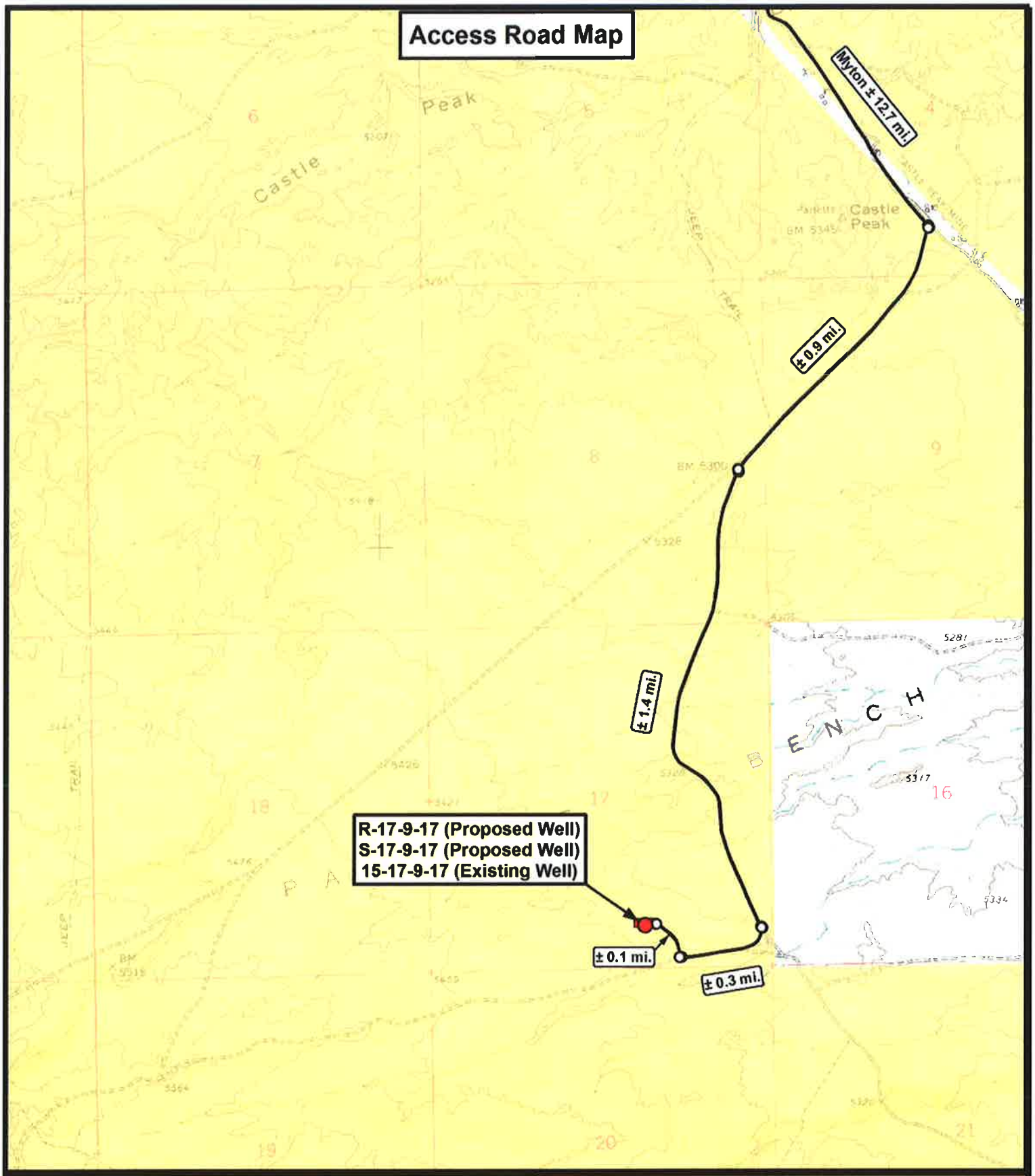
NEWFIELD EXPLORATION COMPANY
R-17-9-17 (Proposed Well)
S-17-9-17 (Proposed Well)
15-17-9-17 (Existing Well)
SEC. 17, T9S, R17E, S.L.B.&M. Duchesne County, UT.

DRAWN BY:	C.H.M.
DATE:	08-09-2010
SCALE:	1:100,000

TOPOGRAPHIC MAP

SHEET A

'APIWellNo:43013504980000'



Tri State Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078
P: (435) 781-2501
F: (435) 781-2518

DRAWN BY:	C.H.M.
DATE:	08-10-2010
SCALE:	1 " = 2,000 '

N

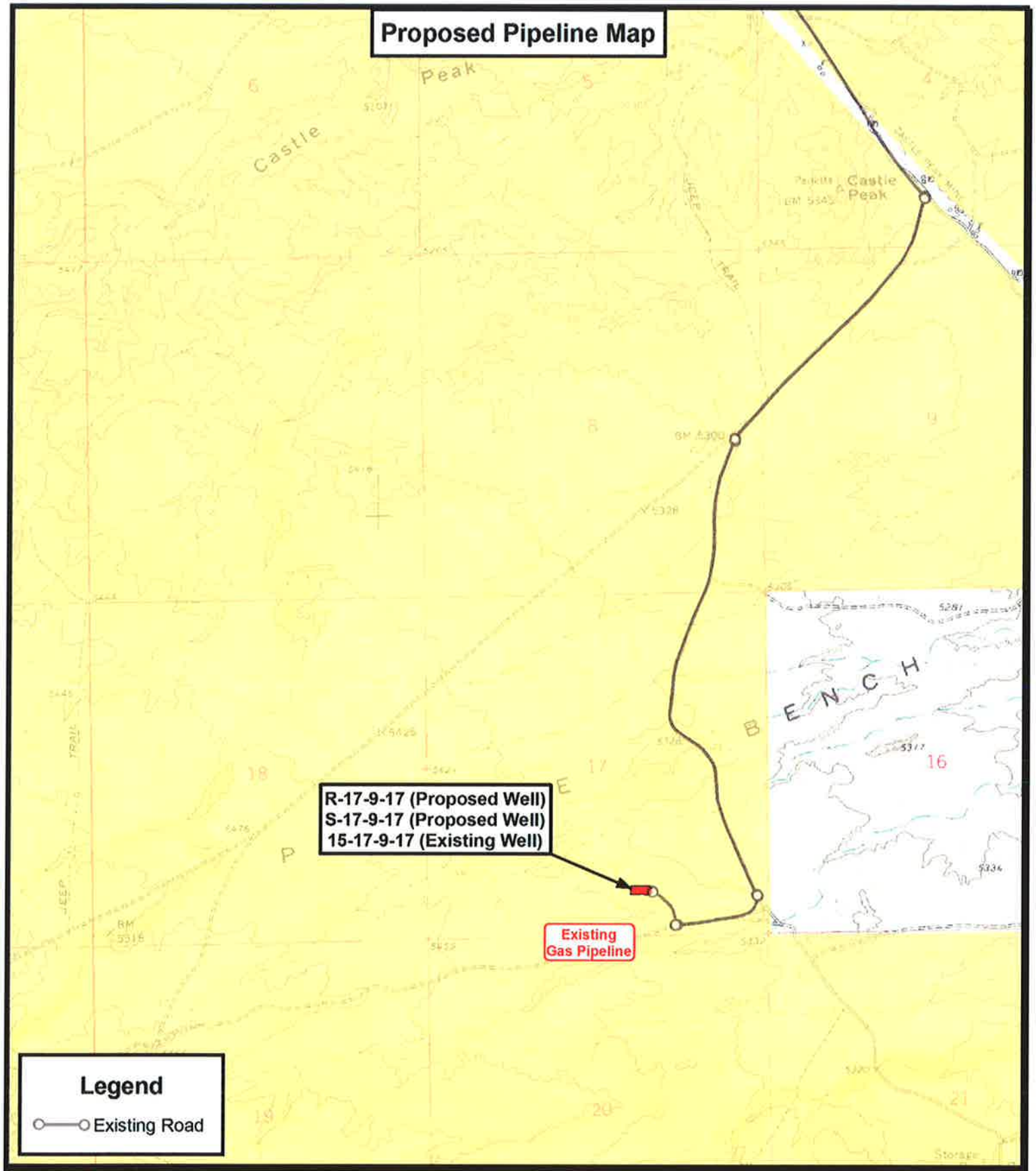
NEWFIELD EXPLORATION COMPANY

R-17-9-17 (Proposed Well)
S-17-9-17 (Proposed Well)
15-17-9-17 (Existing Well)
SEC. 17, T9S, R17E, S.L.B.&M. Duchesne County, UT.

TOPOGRAPHIC MAP

SHEET B

'APIWellNo:43013504980000'



Tri State Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078
P: (435) 781-2501
F: (435) 781-2518

DRAWN BY:	C.H.M.
DATE:	08-10-2010
SCALE:	1 " = 2,000 '

N

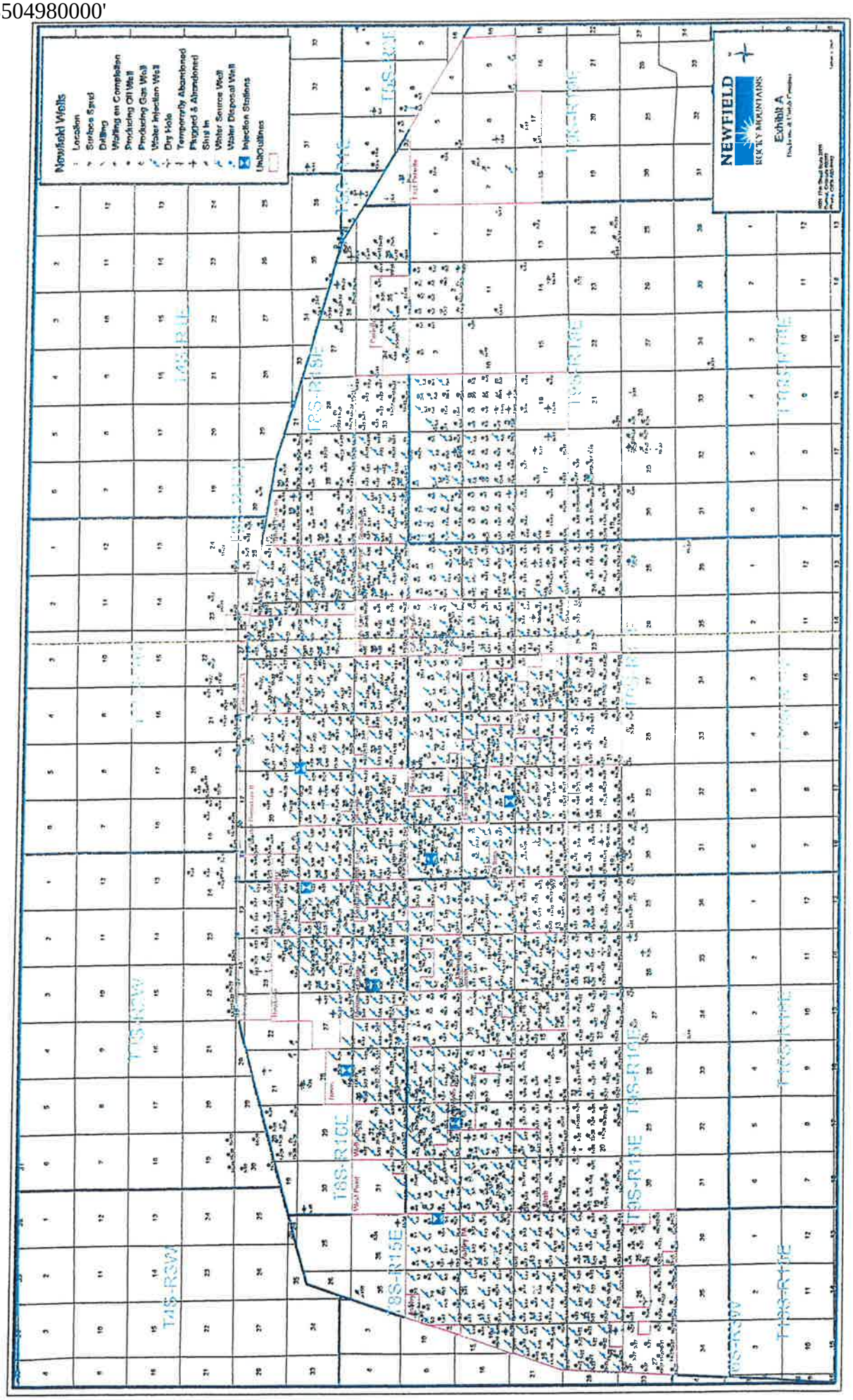
NEWFIELD EXPLORATION COMPANY

R-17-9-17 (Proposed Well)
S-17-9-17 (Proposed Well)
15-17-9-17 (Existing Well)
SEC. 17, T9S, R17E, S.L.B.&M. Duchesne County, UT.

TOPOGRAPHIC MAP

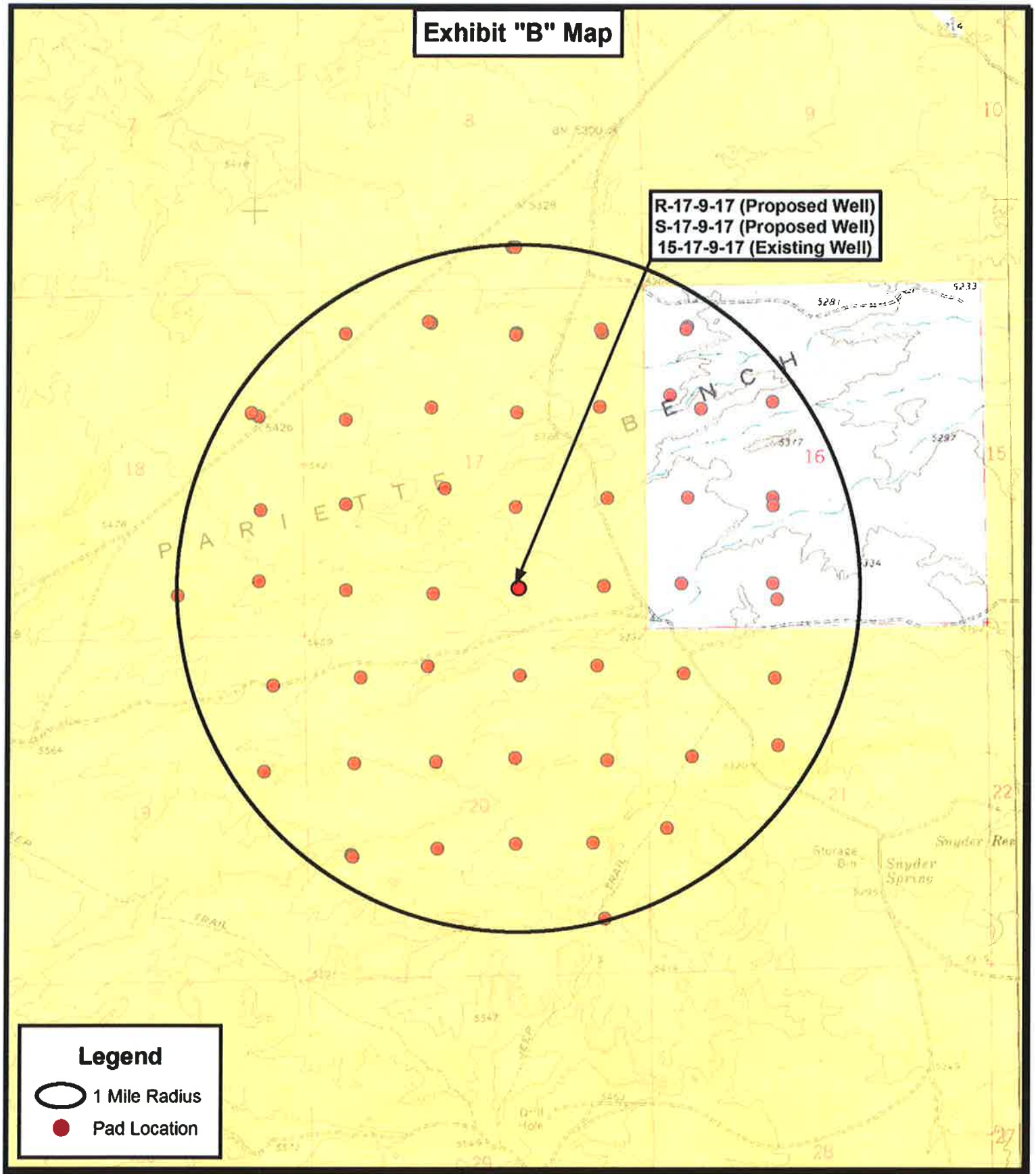
SHEET C

'APIWellNo:43013504980000'



'APIWellNo:43013504980000'

Exhibit "B" Map



Tri State Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078
P: (435) 781-2501
F: (435) 781-2518

N

NEWFIELD EXPLORATION COMPANY

R-17-9-17 (Proposed Well)
S-17-9-17 (Proposed Well)
15-17-9-17 (Existing Well)
SEC. 17, T9S, R17E, S.L.B.&M. Duchesne County, UT.

DRAWN BY:	C.H.M.
DATE:	08-10-2010
SCALE:	1 " = 2,000 '

TOPOGRAPHIC MAP

SHEET D

'APIWellNo:43013504980000'

NEWFIELD

NEWFIELD EXPLORATION

USGS Myton SW (UT)
SECTION 17 T9S, R17E
S-17-9-17

Wellbore #1

Plan: Design #1

Standard Planning Report

07 September, 2010

HATHAWAY BURNHAM
DIRECTIONAL & MWD SERVICES

NEWFIELD

HATHAWAY BURNHAM
Planning Report

HATHAWAY BURNHAM DIRECTIONAL & MWD SERVICES

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well S-17-9-17
Company:	NEWFIELD EXPLORATION	**TVD Reference:**	17-9-17 @ 5394.0ft (Original Well Elev)
Project:	USGS Myton SW (UT)	**MD Reference:**	17-9-17 @ 5394.0ft (Original Well Elev)
Site:	SECTION 17 T9S, R17E	**North Reference:**	True
Well:	S-17-9-17	**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		

Site SECTION 17 T9S, R17E, SEC 17 T9S, R17E

Site Position:		**Northing:**	7,183,359.00 ft	**Latitude:**	40° 1' 51.244 N
From:	Lat/Long	**Easting:**	2,051,842.00 ft	**Longitude:**	110° 1' 50.196 W
Position Uncertainty:	0.0 ft	**Slot Radius:**	"	**Grid Convergence:**	0.94 °

Well S-17-9-17, SHL LAT: 40° 01' 32.24, LONG: -110° 01' 40.68

Well Position	**+N/-S**	-1,922.9 ft	**Northing:**	7,181,448.57 ft	**Latitude:**	40° 1' 32.240 N
	+E/-W	740.2 ft	**Easting:**	2,052,613.73 ft	**Longitude:**	110° 1' 40.680 W
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	5,394.0 ft	**Ground Level:**	5,382.0 ft

Wellbore Wellbore #1

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010	2010/09/07	11.39	65.81	52,342

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 (°)**
	4,750.0	0.0	0.0	47.47

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,444.9	12.67	47.47	1,438.0	62.9	68.6	1.50	1.50	0.00	47.47	
4,839.6	12.67	47.47	4,750.0	566.3	617.4	0.00	0.00	0.00	0.00	S-17-9-17 TGT
5,915.8	12.67	47.47	5,800.0	725.9	791.4	0.00	0.00	0.00	0.00	

NEWFIELD

HATHAWAY BURNHAM

Planning Report

HATHAWAY BURNHAM DIRECTIONAL & MWD SERVICES

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well S-17-9-17
Company:	NEWFIELD EXPLORATION	**TVD Reference:**	17-9-17 @ 5394.0ft (Original Well Elev)
Project:	USGS Myton SW (UT)	**MD Reference:**	17-9-17 @ 5394.0ft (Original Well Elev)
Site:	SECTION 17 T9S, R17E	**North Reference:**	True
Well:	S-17-9-17	**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	1.50	47.47	700.0	0.9	1.0	1.3	1.50	1.50	0.00
800.0	3.00	47.47	799.9	3.5	3.9	5.2	1.50	1.50	0.00
900.0	4.50	47.47	899.7	8.0	8.7	11.8	1.50	1.50	0.00
1,000.0	6.00	47.47	999.3	14.1	15.4	20.9	1.50	1.50	0.00
1,100.0	7.50	47.47	1,098.6	22.1	24.1	32.7	1.50	1.50	0.00
1,200.0	9.00	47.47	1,197.5	31.8	34.7	47.0	1.50	1.50	0.00
1,300.0	10.50	47.47	1,296.1	43.2	47.1	64.0	1.50	1.50	0.00
1,400.0	12.00	47.47	1,394.2	56.4	61.5	83.5	1.50	1.50	0.00
1,444.9	12.67	47.47	1,438.0	62.9	68.6	93.1	1.50	1.50	0.00
1,500.0	12.67	47.47	1,491.8	71.1	77.5	105.2	0.00	0.00	0.00
1,600.0	12.67	47.47	1,589.3	85.9	93.7	127.1	0.00	0.00	0.00
1,700.0	12.67	47.47	1,686.9	100.7	109.8	149.0	0.00	0.00	0.00
1,800.0	12.67	47.47	1,784.5	115.6	126.0	171.0	0.00	0.00	0.00
1,900.0	12.67	47.47	1,882.0	130.4	142.2	192.9	0.00	0.00	0.00
2,000.0	12.67	47.47	1,979.6	145.2	158.3	214.8	0.00	0.00	0.00
2,100.0	12.67	47.47	2,077.2	160.1	174.5	236.8	0.00	0.00	0.00
2,200.0	12.67	47.47	2,174.7	174.9	190.7	258.7	0.00	0.00	0.00
2,300.0	12.67	47.47	2,272.3	189.7	206.8	280.7	0.00	0.00	0.00
2,400.0	12.67	47.47	2,369.9	204.5	223.0	302.6	0.00	0.00	0.00
2,500.0	12.67	47.47	2,467.4	219.4	239.2	324.5	0.00	0.00	0.00
2,600.0	12.67	47.47	2,565.0	234.2	255.3	346.5	0.00	0.00	0.00
2,700.0	12.67	47.47	2,662.6	249.0	271.5	368.4	0.00	0.00	0.00
2,800.0	12.67	47.47	2,760.1	263.9	287.7	390.4	0.00	0.00	0.00
2,900.0	12.67	47.47	2,857.7	278.7	303.8	412.3	0.00	0.00	0.00
3,000.0	12.67	47.47	2,955.2	293.5	320.0	434.2	0.00	0.00	0.00
3,100.0	12.67	47.47	3,052.8	308.4	336.2	456.2	0.00	0.00	0.00
3,200.0	12.67	47.47	3,150.4	323.2	352.3	478.1	0.00	0.00	0.00
3,300.0	12.67	47.47	3,247.9	338.0	368.5	500.0	0.00	0.00	0.00
3,400.0	12.67	47.47	3,345.5	352.9	384.7	522.0	0.00	0.00	0.00
3,500.0	12.67	47.47	3,443.1	367.7	400.8	543.9	0.00	0.00	0.00
3,600.0	12.67	47.47	3,540.6	382.5	417.0	565.9	0.00	0.00	0.00
3,700.0	12.67	47.47	3,638.2	397.3	433.2	587.8	0.00	0.00	0.00
3,800.0	12.67	47.47	3,735.8	412.2	449.3	609.7	0.00	0.00	0.00
3,900.0	12.67	47.47	3,833.3	427.0	465.5	631.7	0.00	0.00	0.00
4,000.0	12.67	47.47	3,930.9	441.8	481.7	653.6	0.00	0.00	0.00
4,100.0	12.67	47.47	4,028.4	456.7	497.8	675.6	0.00	0.00	0.00
4,200.0	12.67	47.47	4,126.0	471.5	514.0	697.5	0.00	0.00	0.00
4,300.0	12.67	47.47	4,223.6	486.3	530.2	719.4	0.00	0.00	0.00
4,400.0	12.67	47.47	4,321.1	501.2	546.3	741.4	0.00	0.00	0.00
4,500.0	12.67	47.47	4,418.7	516.0	562.5	763.3	0.00	0.00	0.00
4,600.0	12.67	47.47	4,516.3	530.8	578.7	785.3	0.00	0.00	0.00
4,700.0	12.67	47.47	4,613.8	545.6	594.8	807.2	0.00	0.00	0.00
4,800.0	12.67	47.47	4,711.4	560.5	611.0	829.1	0.00	0.00	0.00
4,839.6	12.67	47.47	4,750.0	566.3	617.4	837.8	0.00	0.00	0.00
S-17-9-17 TGT									
4,900.0	12.67	47.47	4,809.0	575.3	627.2	851.1	0.00	0.00	0.00
5,000.0	12.67	47.47	4,906.5	590.1	643.3	873.0	0.00	0.00	0.00

NEWFIELD

HATHAWAY BURNHAM
Planning Report

HATHAWAY BURNHAM DIRECTIONAL & MWD SERVICES

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well S-17-9-17
Company:	NEWFIELD EXPLORATION	**TVD Reference:**	17-9-17 @ 5394.0ft (Original Well Elev)
Project:	USGS Myton SW (UT)	**MD Reference:**	17-9-17 @ 5394.0ft (Original Well Elev)
Site:	SECTION 17 T9S, R17E	**North Reference:**	True
Well:	S-17-9-17	**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)
5,100.0	12.67	47.47	5,004.1	605.0	659.5	894.9	0.00	0.00	0.00
5,200.0	12.67	47.47	5,101.6	619.8	675.7	916.9	0.00	0.00	0.00
5,300.0	12.67	47.47	5,199.2	634.6	691.8	938.8	0.00	0.00	0.00
5,400.0	12.67	47.47	5,296.8	649.5	708.0	960.8	0.00	0.00	0.00
5,500.0	12.67	47.47	5,394.3	664.3	724.2	982.7	0.00	0.00	0.00
5,600.0	12.67	47.47	5,491.9	679.1	740.3	1,004.6	0.00	0.00	0.00
5,700.0	12.67	47.47	5,589.5	693.9	756.5	1,026.6	0.00	0.00	0.00
5,800.0	12.67	47.47	5,687.0	708.8	772.7	1,048.5	0.00	0.00	0.00
5,900.0	12.67	47.47	5,784.6	723.6	788.8	1,070.5	0.00	0.00	0.00
5,915.8	12.67	47.47	5,800.0	725.9	791.4	1,073.9	0.00	0.00	0.00

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
S-17-9-17 TGT - plan hits target - Circle (radius 75.0)	0.00	0.00	4,750.0	566.3	617.4	7,182,024.99	2,053,221.73	40° 1' 37.837 N	110° 1' 32.743 W

'APIWellNo:43013504980000'

NEWFIELD

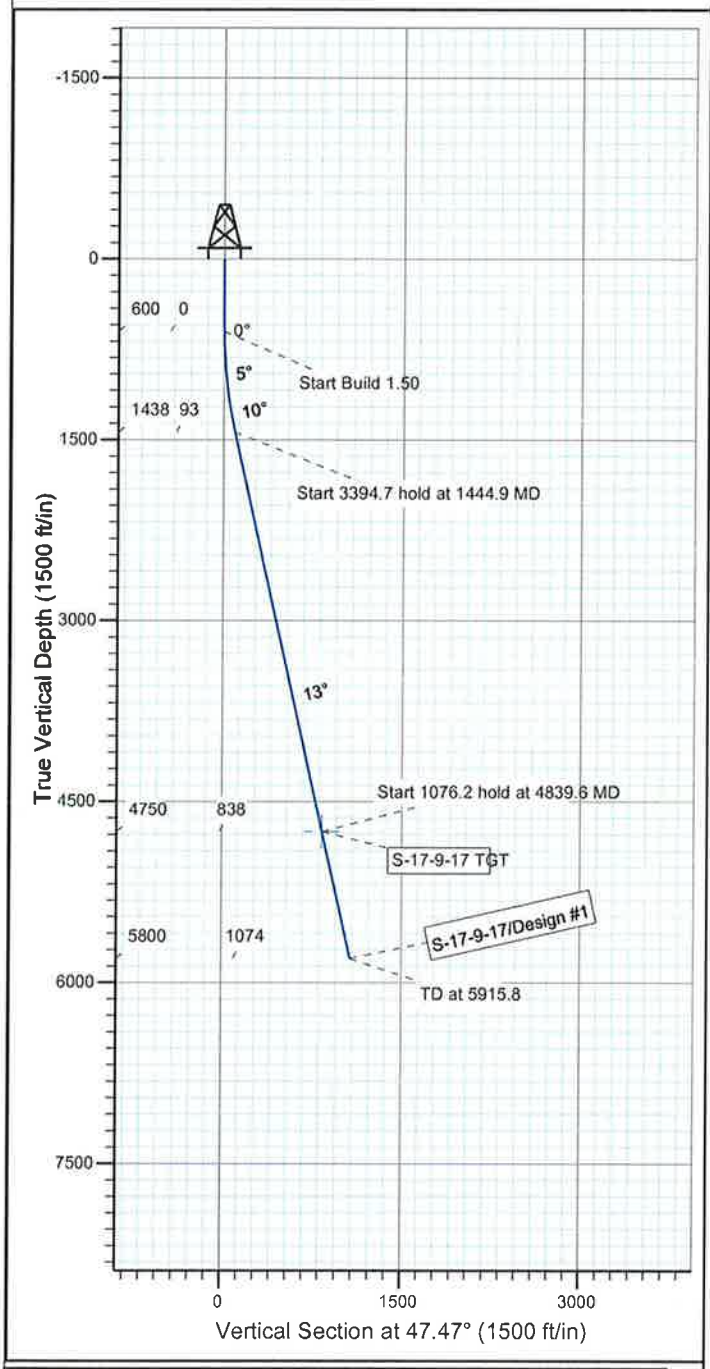
Project: USGS Myton SW (UT)
Site: SECTION 17 T9S, R17E
Well: S-17-9-17
Wellbore: Wellbore #1
Design: Design #1

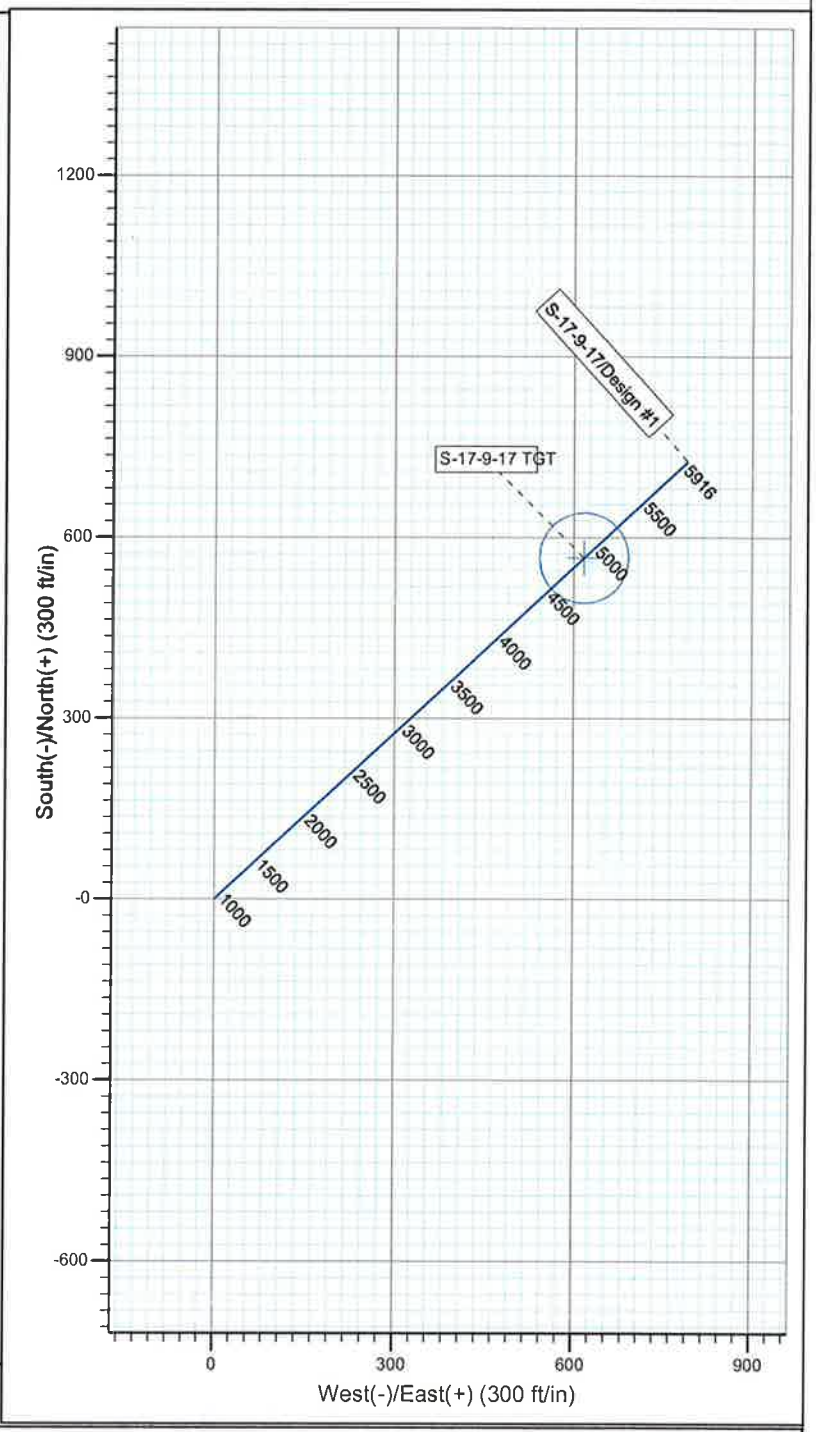
T M

Azimuths to True North
Magnetic North: 11.39°

Magnetic Field
Strength: 52341.9snT
Dip Angle: 65.81°
Date: 2010/09/07
Model: IGRF2010

KOP @ 600'
DOGLEG RATE 1.5 DEG/100
TARGET RADIUS IS 75'





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
S-17-9-17 TGT	4750.0	566.3	617.4	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	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1444.9	12.67	47.47	1438.0	62.9	68.6	1.50	47.47	93.1	
4	4839.6	12.67	47.47	4750.0	566.3	617.4	0.00	0.00	837.8	S-17-9-17 TGT
5	5915.8	12.67	47.47	5800.0	725.9	791.4	0.00	0.00	1073.9	

HATHAWAY BURNHAM
DIRECTIONAL & MWD SURVEYS

NEWFIELD PRODUCTION COMPANY
GREATER MONUMENT BUTTE S-17-9-17
AT SURFACE: SW/SE SECTION 17, T9S, R17E
DUCHESNE COUNTY, UTAH

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. EXISTING ROADS

See attached Topographic Map "A"

To reach Newfield Production Company well location site Greater Monument Butte S-17-9-17 located in the SW 1/4 SE 1/4 Section 17, T9S, R17E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 – 1.4 miles ± to the junction of this highway and UT State Hwy 53; proceed southeasterly – 11.3 miles ± to it's junction with an existing road to the southwest; proceed southwesterly - 2.3 miles ± to it's junction with an existing road to the southwest; proceed southwesterly – 0.3 miles ± to it's junction with an existing road to the northwest; proceed northwesterly – 0.1 miles ± to the existing 15-17-9-17 well location.

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. Any necessary fill material for repair will be purchase and hauled from private sources.

2. PLANNED ACCESS ROAD

There is no proposed access road for this location. The proposed well will be drilled directionaly off of the existing 15-17-9-17 well pad. See attached **Topographic Map "B"**.

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

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

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

3. LOCATION OF EXISTING WELLS

Refer to Exhibit "B".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

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

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

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

Tank batteries will be built to State specifications.

All permanent (on site for six (6) months or longer) structures, constructed or installed (including pumping units), will be painted a flat, non-reflective, earth tone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities will be painted within six months of installation.

5. *LOCATION AND TYPE OF WATER SUPPLY*

Newfield Production will transport water by truck from nearest water source as determined by a Newfield representative for the purpose of drilling the above mentioned well. The available water sources are as follows:

Johnson Water District
Water Right : 43-10136

Maurice Harvey Pond
Water Right: 47-1358

Neil Moon Pond
Water Right: 43-11787

Newfield Collector Well
Water Right: 41-1817 (A30414DVA, contracted with the Duchesne County Conservancy District).

There will be no water well drilled at this site.

6. *SOURCE OF CONSTRUCTION MATERIALS*

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

A mineral material application is not required for this location.

7. *METHODS FOR HANDLING WASTE DISPOSAL*

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

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

A portable toilet will be provided for human waste.

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

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.

Existing fences to be crossed by the access road will be braced and tied off before cutting so as to prevent slacking in the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and upon completion of construction the fence shall be repaired to BLM specifications.

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* – Bureau of Land Management.

12. *OTHER ADDITIONAL INFORMATION*

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #04-94, 6/2/04. Paleontological Resource Survey prepared by, Wade E. Miller, 7/9/04. See attached report cover pages, Exhibit "D".

Water Disposal
After first production, if the production water meets quality guidelines, it will be transported to the Ashley, Monument Butte, Jonah, South Wells Draw 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, will be disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E), Federally approved surface disposal facilities or at a State of Utah approved surface disposal facilities.

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.

Details of the On-Site Inspection
The proposed Greater Monument Butte S-17-9-17 was on-sited on 10/6/10. The following were present; Tim Eaton (Newfield Production), Christine Cimiluca (Bureau of Land Management),and Janna Simonsen (Bureau of Land Management). Weather conditions were clear and ground cover was 100% open.

Hazardous Material Declaration

Newfield Production Company guarantees that during the drilling and completion of the Greater Monument Butte S-17-9-17, 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 Greater Monument Butte S-17-9-17, 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.

13. LESSEE'S OR OPERATOR'S REPRENSENTATIVE 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 #S-17-9-17, Section 17, Township 9S, Range 17E: Lease UTU-72106 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Federal Bond #WYB000493.

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

11/18/10
Date

Mandie Crozier
Regulatory Specialist
Newfield Production Company

2-M SYSTEM

Blowout Prevention Equipment Systems

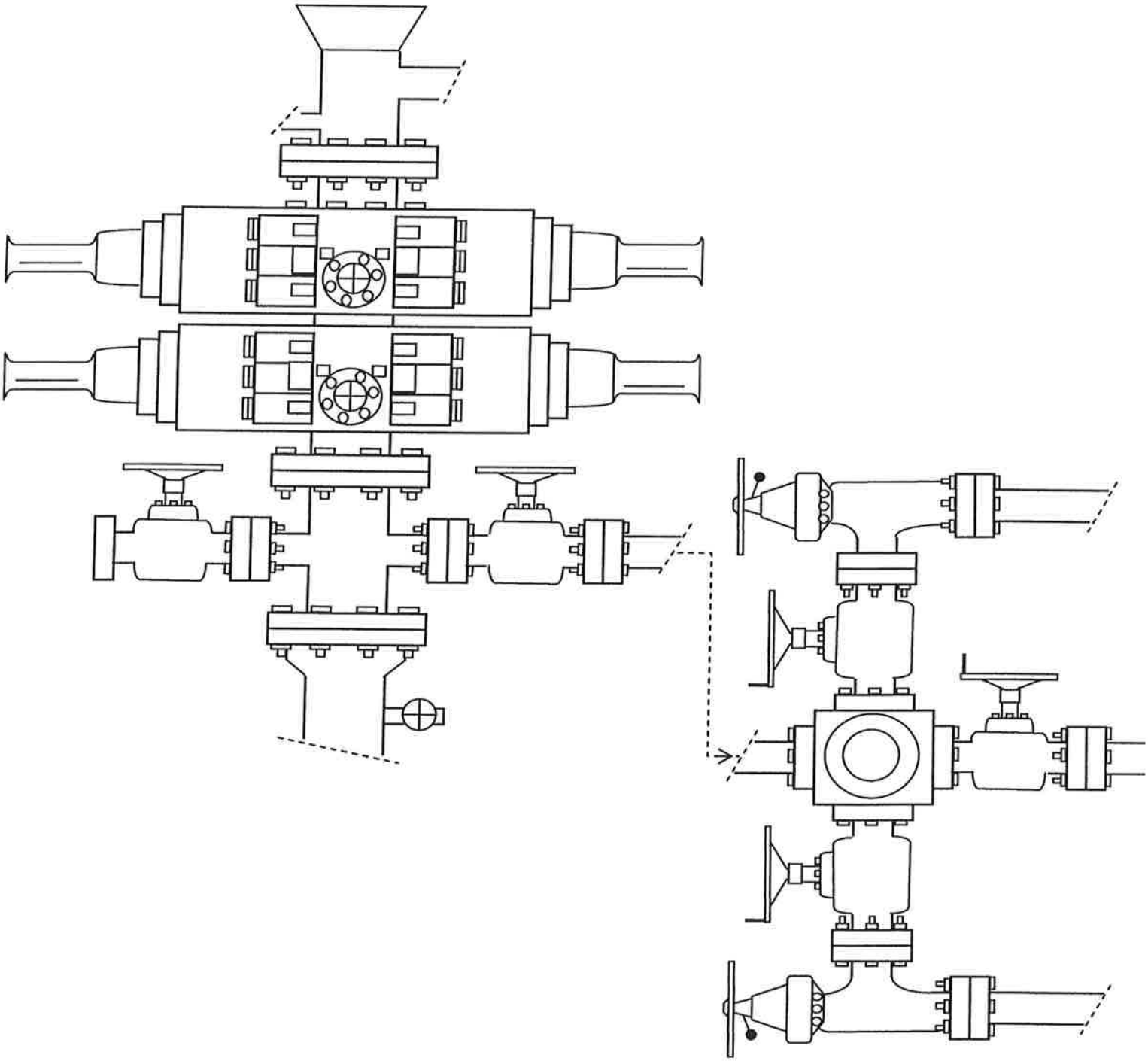
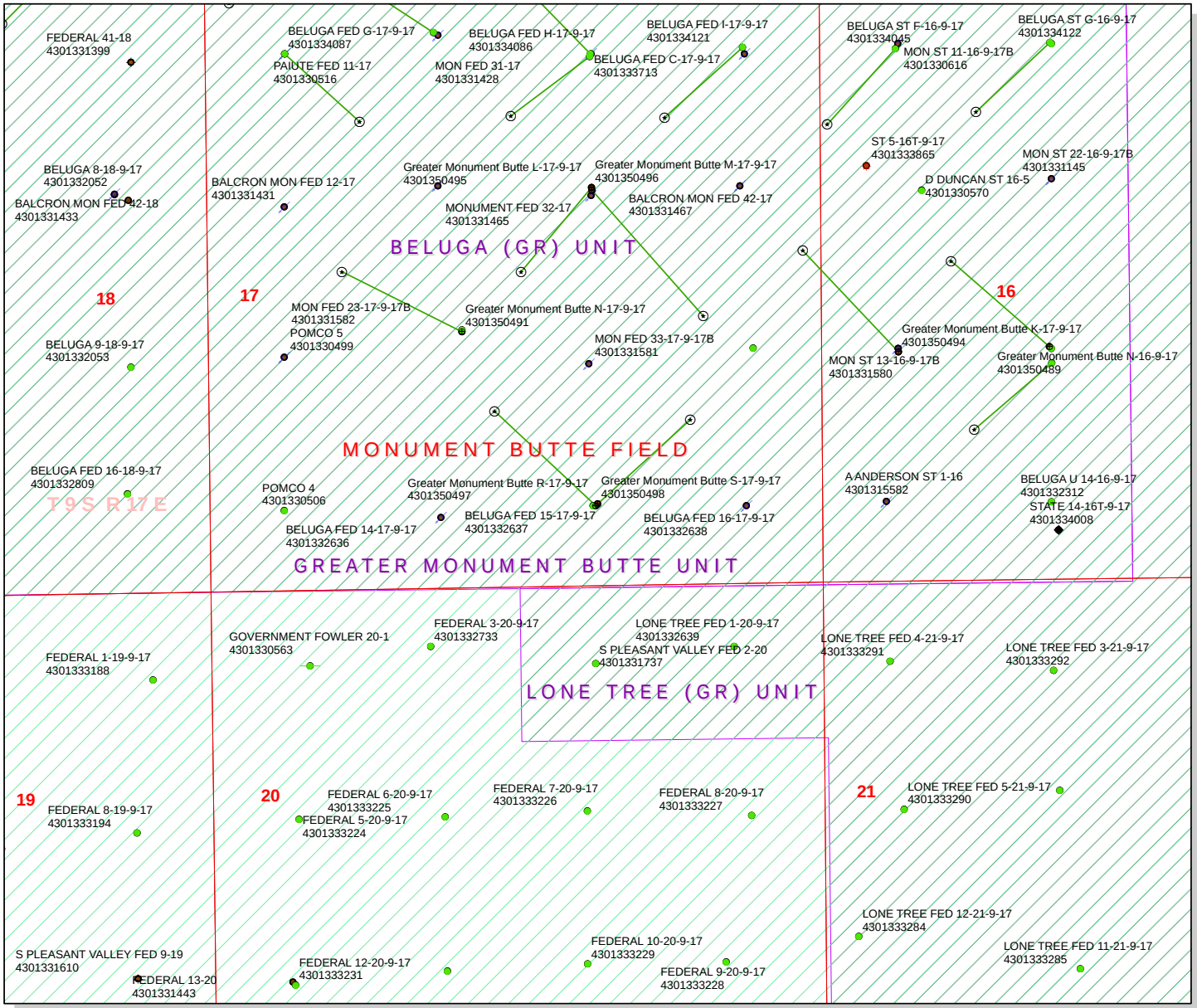


EXHIBIT C

'APIWellNo:4301350498000'



API Number: 4301350498

Well Name: Greater Monument Butte S-17-9-17

Township 09.0 S Range 17.0 E Section 17

Meridian: SLBM

Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:
Map Produced by Diana Mason

Units

STATUS

- ACTIVE
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Fields

- Sections
- Township
- Bottom Hole Location - AGRC

Wells Query

- <all other values>

Status

- APD - Aproved Permit
- DRL - Spuded (Drilling Commenced)
- GIW - Gas Injection
- GS - Gas Storage
- LA - Location Abandoned
- LOC - New Location
- OPS - Operation Suspended
- PA - Plugged Abandoned
- PGW - Producing Gas Well
- POW - Producing Oil Well
- RET - Returned APD
- SGW - Shut-in Gas Well
- SOW - Shut-in Oil Well
- TA - Temp. Abandoned
- TW - Test Well
- WDW - Water Disposal
- WIW - Water Injection Well
- WSW - Water Supply Well

1,100 550 0 1,100 Feet

1:10,629

'APIWellNo:43013504980000'

NEWFIELD
ROCKY MOUNTAINS

November 23, 2010

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

RE: Directional Drilling
Greater Monument Butte S-17-9-17
Greater Monument Butte (Green River) Unit

Surface Hole: T9S-R17E Section 17: SWSE (UTU-72106)
699' FSL 1947' FEL

At Target: T9S-R17E Section 17: NESE (UTU-44430)
1412' FSL 1143' 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 11/18/10, 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-exiting 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

Shane Gillespie
Land Associate

1001 17th Street, Suite 2000 Denver, CO 80202 (303) 893-0102 Fax (303) 893-0103

'APIWellNo:43013504980000'

Form 3160-3
(August 2007)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
UTU-72106

6. If Indian, Allotee or Tribe Name
NA

1a. Type of work: ☑ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.
Greater Monument Butte

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

8. Lease Name and Well No.
Greater Monument Butte S-17-9-17

2. Name of Operator Newfield Production Company

9. API Well No.

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

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

10. Field and Pool, or Exploratory
Monument Butte

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface SW/SE 699' FSL 1947' FEL Sec. 17, T9S R17E (UTU-72106)
At proposed prod. zone NE/SE 1412' FSL 1143' FEL Sec. 17, T9S R17E (UTU-44430)

11. Sec., T. R. M. or Blk. and Survey or Area
Sec. 17, T9S R17E

14. Distance in miles and direction from nearest town or post office*
Approximately 15.4 miles southeast of Myton, UT

12. County or Parish
Duchesne

13. State
UT

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. unit line, if any) Approx. 92' f/lse, NA' f/unit

16. No. of acres in lease
1,188.92

17. Spacing Unit dedicated to this well
20 Acres

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1587'

19. Proposed Depth
5,916'

20. BLM/BIA Bond No. on file
WYB000493

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
5382' GL

22. Approximate date work will start*
1st Qtr. 2011

23. Estimated duration
(7) days from SPUD to rig release

24. Attachments

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

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

25. Signature Mandie Crozier
Name *(Printed/Typed)* Mandie Crozier
Date 11/13/10

Title
Regulatory Specialist

Approved by *(Signature)*
Name *(Printed/Typed)*
Date

Title
Office

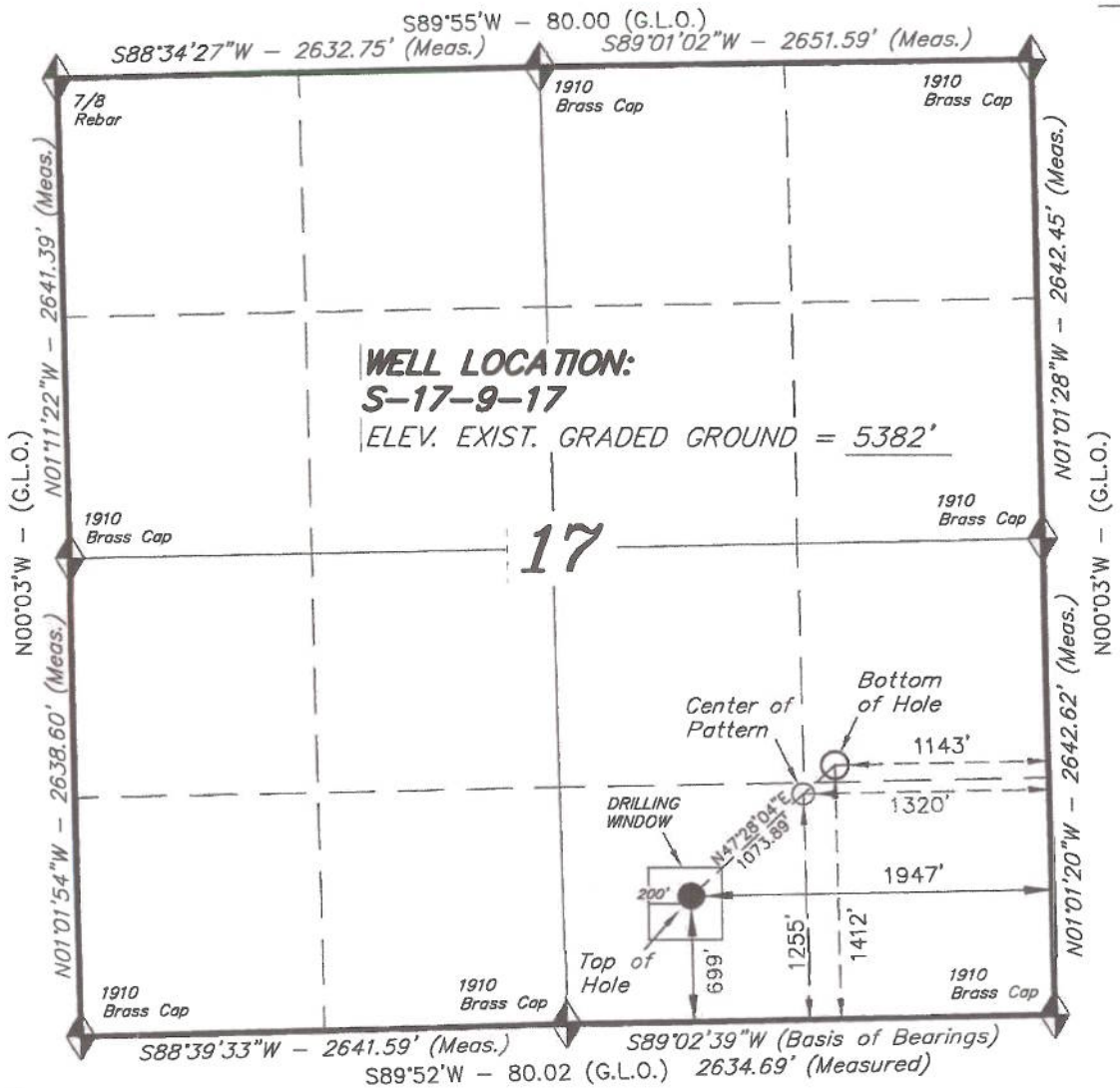
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

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

(Continued on page 2)

*(Instructions on page 2)

T9S, R17E, S.L.B.&M.



◆ = SECTION CORNERS LOCATED

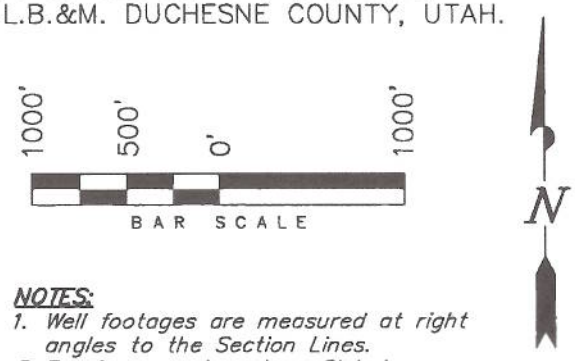
BASIS OF ELEV; Elevations are base on LOCATION: an N.G.S. OPUS Correction. LAT. 40°04'09.56" LONG. 110°00'43.28" (Tristate Aluminum Cap) Elev. 5281.57'

S-17-9-17 (Surface Location)	NAD 83
LATITUDE =	40° 01' 32.24"
LONGITUDE =	110° 01' 40.68"

NEWFIELD EXPLORATION COMPANY

WELL LOCATION, S-17-9-17, LOCATED AS SHOWN IN THE SW 1/4 SE 1/4 OF SECTION 17, T9S, R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.

TARGET BOTTOM HOLE, S-17-9-17, LOCATED AS SHOWN IN THE NE 1/4 SE 1/4 OF SECTION 17, T9S, R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



NOTES:

1. *Well footages are measured at right angles to the Section Lines.*
2. *Bearings are based on Global Positioning Satellite observations.*

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

REGISTERED LAND SURVEYOR
REGISTRATION No. 189377
STATE OF UTAH

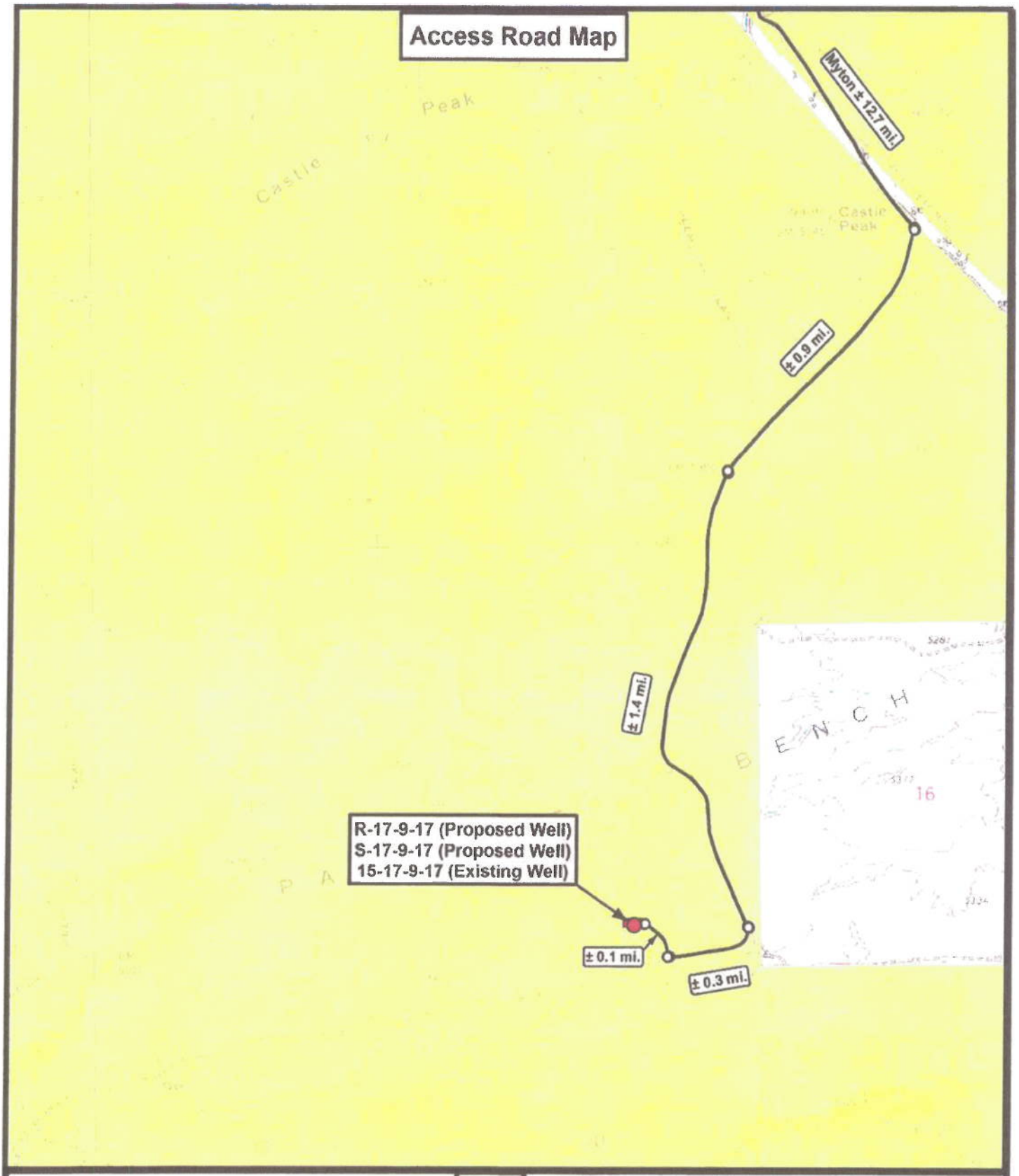
STACY W. STEWART
REGISTERED LAND SURVEYOR
REGISTRATION No. 189377
STATE OF UTAH

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

DATE SURVEYED: 08-03-10	SURVEYED BY: D.G.
DATE DRAWN: 08-04-10	DRAWN BY: M.W.
REVISED:	SCALE: 1" = 1000'

'API WellNo:4301350498000'

'APIWellNo:43013504980000'



Tri State Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078
P: (435) 781-2501
F: (435) 781-2518

DRAWN BY:	C.H.M.
DATE:	08-10-2010
SCALE:	1" = 2,000'

N

NEWFIELD EXPLORATION COMPANY

R-17-9-17 (Proposed Well)
S-17-9-17 (Proposed Well)
15-17-9-17 (Existing Well)
SEC. 17, T9S, R17E, S.L.B.&M. Duchesne County, UT.

TOPOGRAPHIC MAP

SHEET B

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)

November 30, 2010

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2010 Plan of Development Greater Monument Butte Unit, Duchesne and Uintah Counties, 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 2010 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-50491	GMBU N-17-9-17	Sec 17 T09S R17E 2204 FSL 2172 FWL
		BHL Sec 17 T09S R17E 2528 FNL 1145 FWL
43-013-50492	GMBU E-17-9-17	Sec 07 T09S R17E 0679 FSL 0676 FEL
		BHL Sec 17 T09S R17E 0200 FNL 0197 FWL
43-013-50493	GMBU B-18-9-17	Sec 07 T09S R17E 0690 FSL 0695 FEL
		BHL Sec 18 T09S R17E 0351 FNL 1758 FEL
43-013-50494	GMBU K-17-9-17	Sec 16 T09S R17E 1967 FSL 0652 FWL
		BHL Sec 17 T09S R17E 2402 FNL 0168 FEL
43-013-50495	GMBU L-17-9-17	Sec 17 T09S R17E 1856 FNL 1980 FEL
		BHL Sec 17 T09S R17E 2301 FSL 1028 FEL
43-013-50496	GMBU M-17-9-17	Sec 17 T09S R17E 1835 FNL 1981 FEL
		BHL Sec 17 T09S R17E 2553 FNL 2592 FEL
43-013-50497	GMBU R-17-9-17	Sec 17 T09S R17E 0684 FSL 1962 FEL
		BHL Sec 17 T09S R17E 1516 FSL 2447 FWL
43-013-50498	GMBU S-17-9-17	Sec 17 T09S R17E 0699 FSL 1947 FEL
		BHL Sec 17 T09S R17E 1412 FSL 1143 FEL

API #	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-50499	GMBU G-18-9-17	Sec 18 T09S R17E 1947 FNL 0693 FWL
		BHL Sec 18 T09S R17E 0984 FNL 1588 FWL
43-013-50500	GMBU N-18-9-17	Sec 18 T09S R17E 1962 FNL 0678 FWL
		BHL Sec 18 T09S R17E 2263 FSL 1427 FWL
43-013-50501	GMBU J-18-9-17	Sec 17 T09S R17E 1999 FNL 0652 FWL
		BHL Sec 18 T09S R17E 1138 FNL 0241 FEL
43-013-50502	GMBU K-18-9-17	Sec 17 T09S R17E 2019 FNL 0644 FWL
		BHL Sec 18 T09S R17E 2549 FNL 0199 FEL
43-013-50503	GMBU H-18-9-17	Sec 18 T09S R17E 2018 FNL 1850 FWL
		BHL Sec 18 T09S R17E 1293 FNL 2256 FEL
43-013-50504	GMBU M-18-9-17	Sec 18 T09S R17E 2037 FNL 1861 FWL
		BHL Sec 18 T09S R17E 2130 FSL 2247 FEL
43-013-50505	GMBU I-18-9-17	Sec 18 T09S R17E 1808 FNL 0790 FEL
		BHL Sec 18 T09S R17E 1106 FNL 1638 FEL
43-013-50506	GMBU L-18-9-17	Sec 18 T09S R17E 1829 FNL 0792 FEL
		BHL Sec 18 T09S R17E 2213 FSL 1452 FEL
43-013-50507	GMBU Q-18-9-17	Sec 18 T09S R17E 0593 FSL 0689 FWL
		BHL Sec 18 T09S R17E 1377 FSL 1539 FWL
43-013-50508	GMBU R-18-9-17	Sec 18 T09S R17E 0709 FSL 1996 FEL
		BHL Sec 18 T09S R17E 1501 FSL 2355 FWL
43-013-50509	GMBU S-18-9-17	Sec 18 T09S R17E 0690 FSL 1987 FEL
		BHL Sec 18 T09S R17E 1433 FSL 1189 FEL

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

Michael L. Coulthard

Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land Management, ou=Branch of Minerals, email=Michael_Coulthard@blm.gov, c=US
Date: 2010.11.30 09:30:01 -07'00'

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

MCoulthard:mc:11-30-10

'APIWellNo:43013504980000'

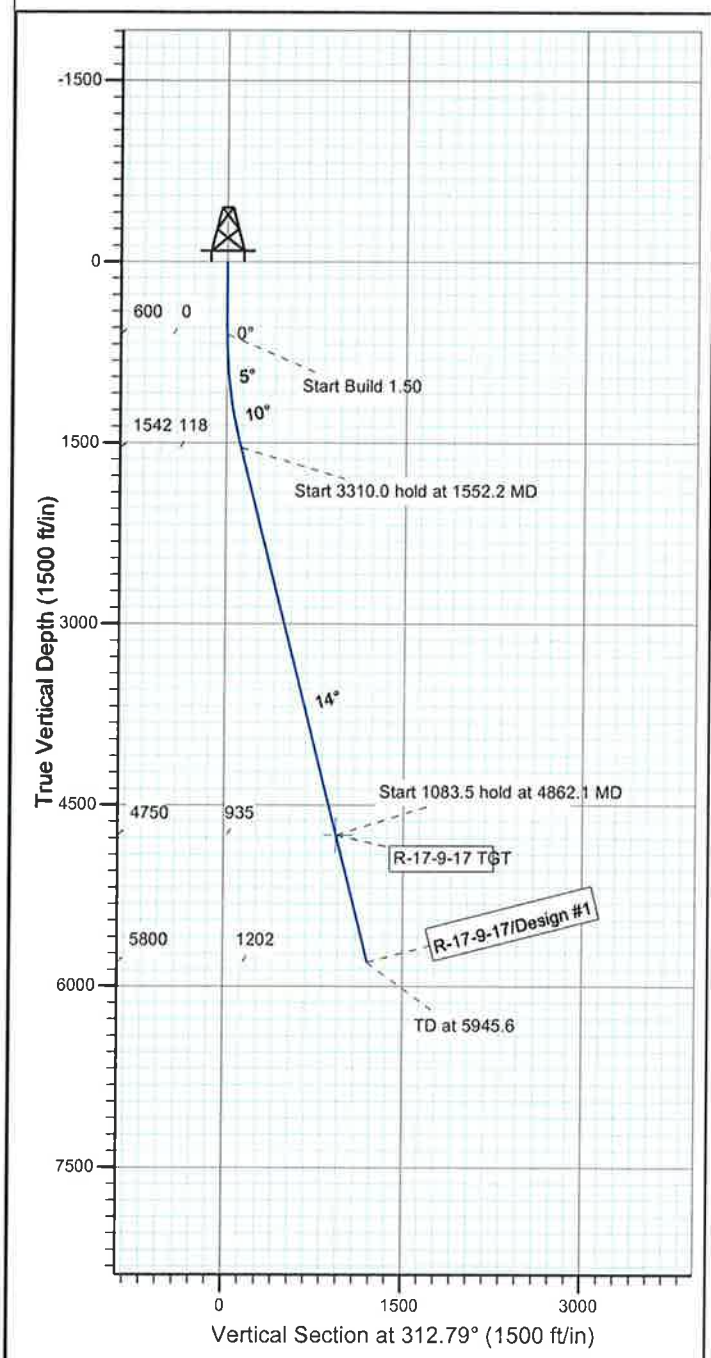
NEWFIELD

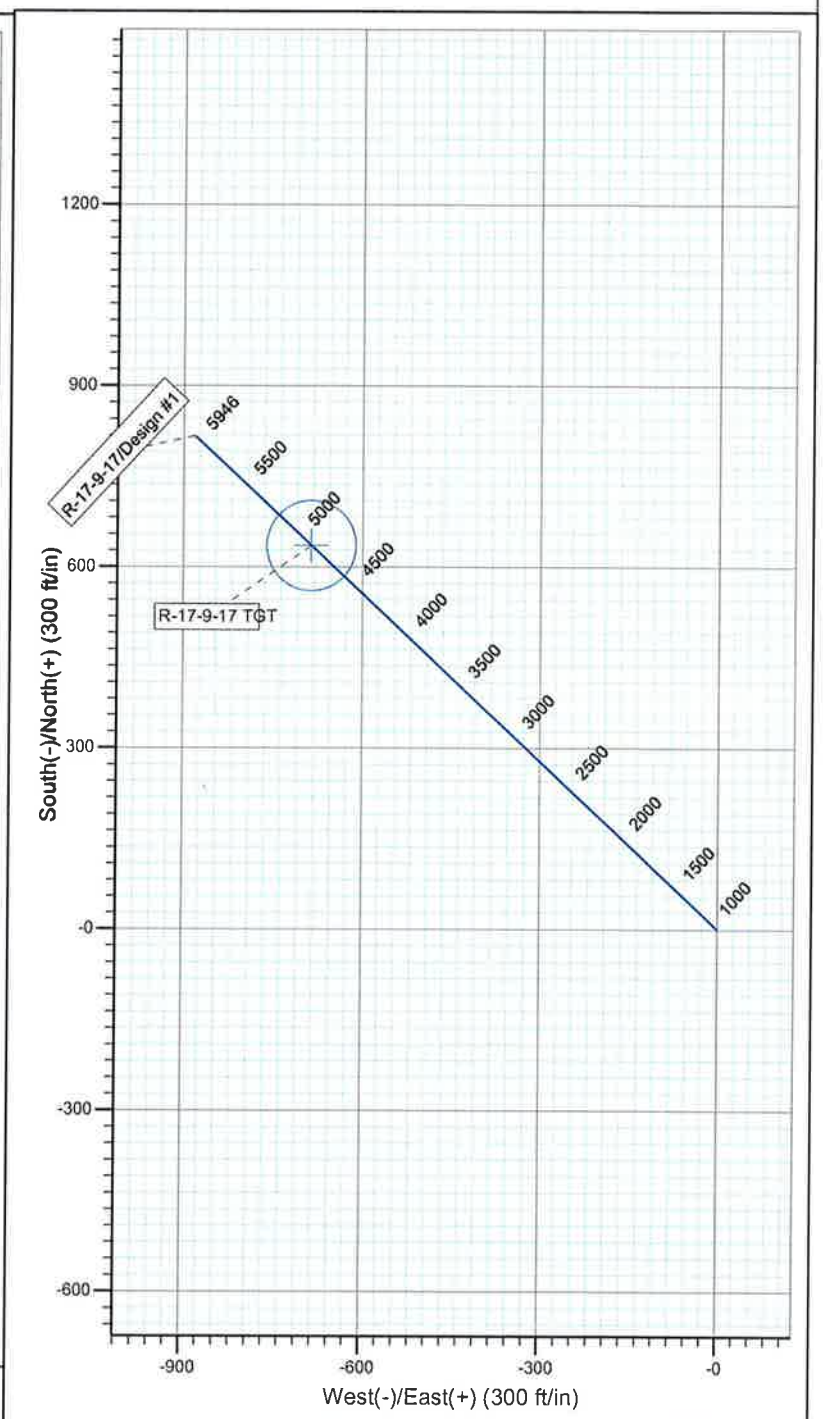
Project: USGS Myton SW (UT)
Site: SECTION 17 T9S, R17E
Well: R-17-9-17
Wellbore: Wellbore #1
Design: Design #1

Azimuths to True North
Magnetic North: 11.39°

Magnetic Field
Strength: 52341.8snT
Dip Angle: 65.81°
Date: 2010/09/07
Model: IGRF2010

KOP @ 600'
DOGLEG RATE 1.5 DEG/100
TARGET RADIUS IS 75'





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
R-17-9-17 TGT	4750.0	634.9	-685.9	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	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1552.2	14.28	312.79	1542.4	80.2	-86.6	1.50	312.79	118.1	
4	4862.1	14.28	312.79	4750.0	634.9	-685.9	0.00	0.00	934.7	R-17-9-17 TGT
5	5945.6	14.28	312.79	5800.0	816.5	-882.1	0.00	0.00	1202.0	

HATHAWAY BURNHAM
DIRECTIONAL & MWD SERVICES

'APIWellNo:43013504980000'

NEWFIELD

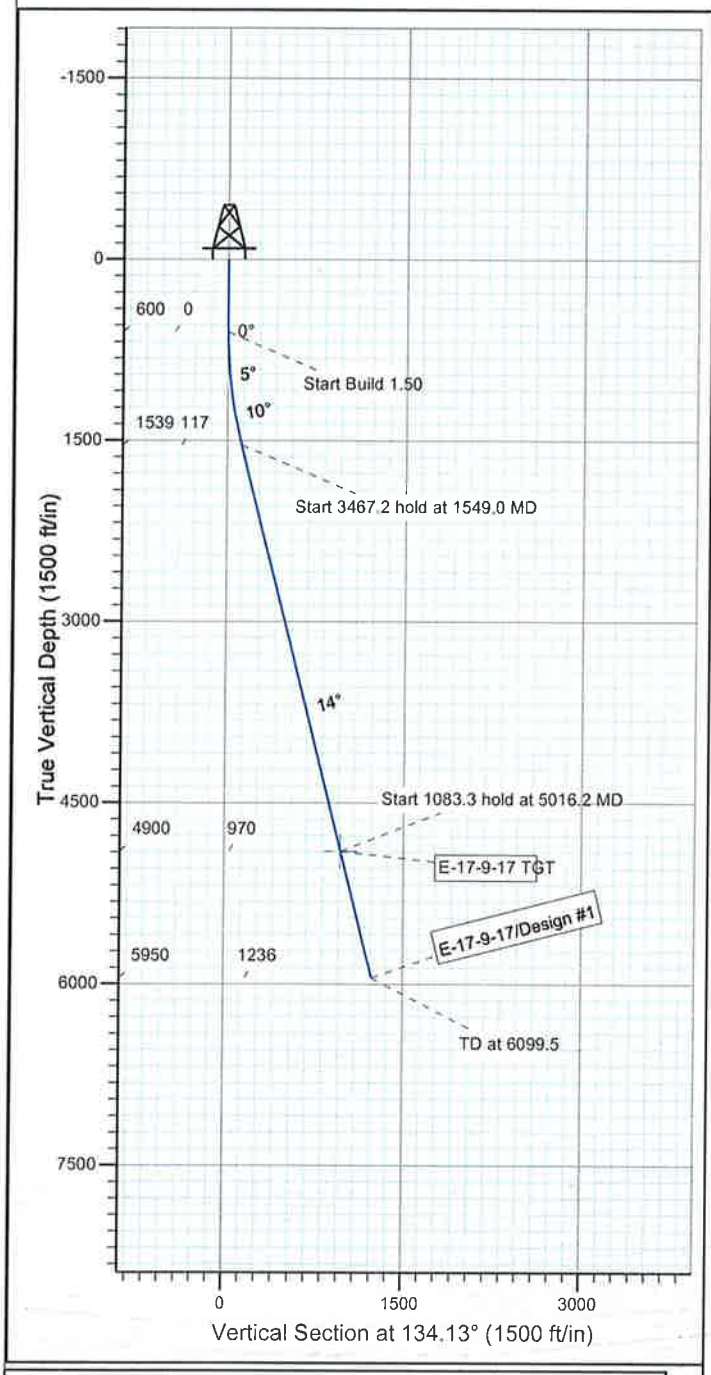
Project: USGS Myton SW (UT)
Site: SECTION 17 T9S, R17E
Well: E-17-9-17
Wellbore: Wellbore #1
Design: Design #1

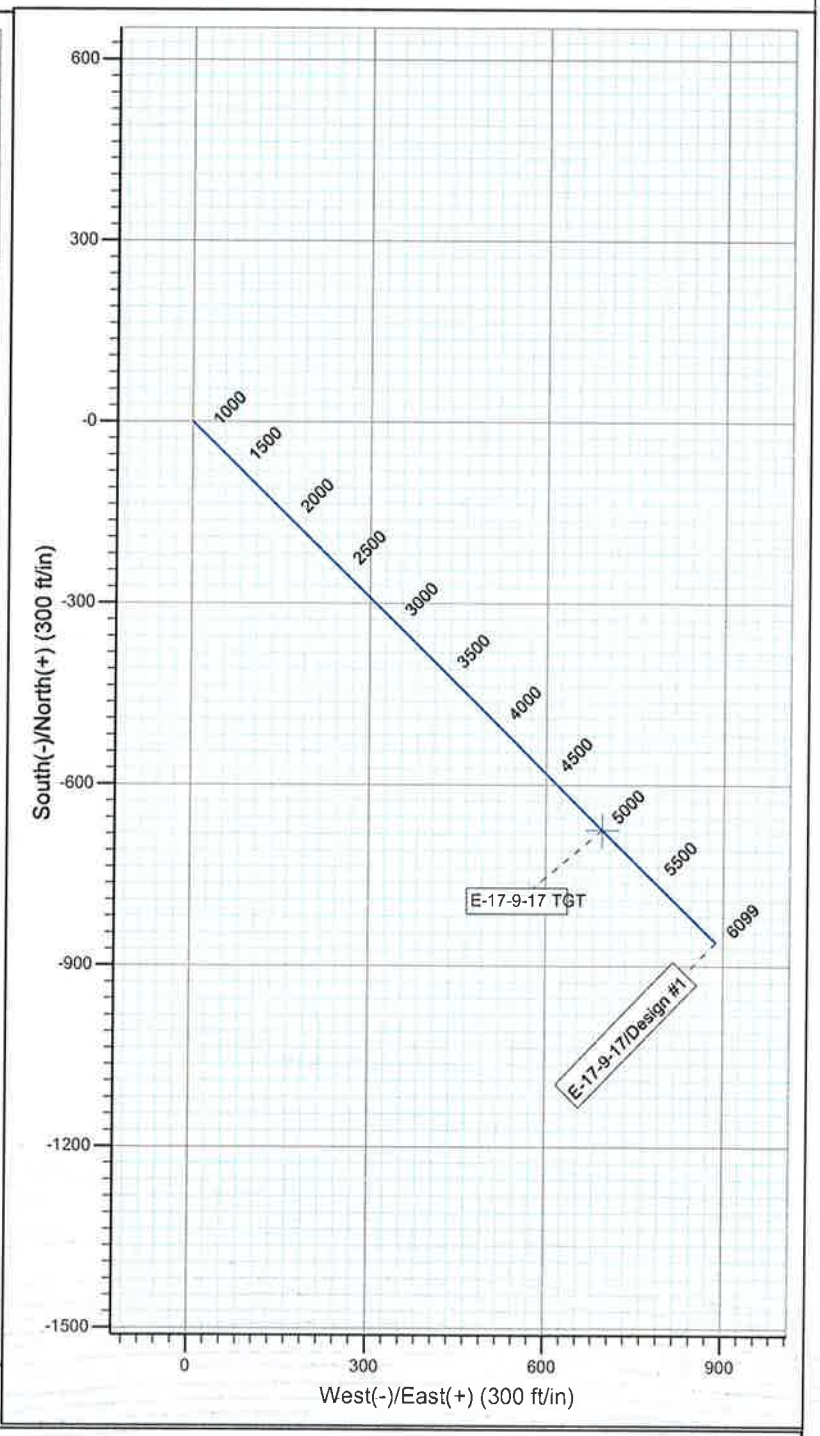
T M

Azimuths to True North
Magnetic North: 11.40°

Magnetic Field
Strength: 52346.0snT
Dip Angle: 65.81°
Date: 2010/09/13
Model: IGRF2010

KOP @ 600'
DOGLEG RATE 1.5 DEG/100
TARGET RADIUS IS 75'





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
E-17-9-17 TGT	4900.0	-675.3	696.2	Point

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1549.0	14.24	134.13	1539.3	-81.7	84.2	1.50	134.13	117.3	
4	5016.2	14.24	134.13	4900.0	-675.3	696.2	0.00	0.00	969.9	E-17-9-17 TGT
5	6099.5	14.24	134.13	5950.0	-860.8	887.4	0.00	0.00	1236.3	

HATHAWAY BURNHAM
DIRECTIONAL & MWD SERVICES

'APIWellNo:43013504980000'

NEWFIELD

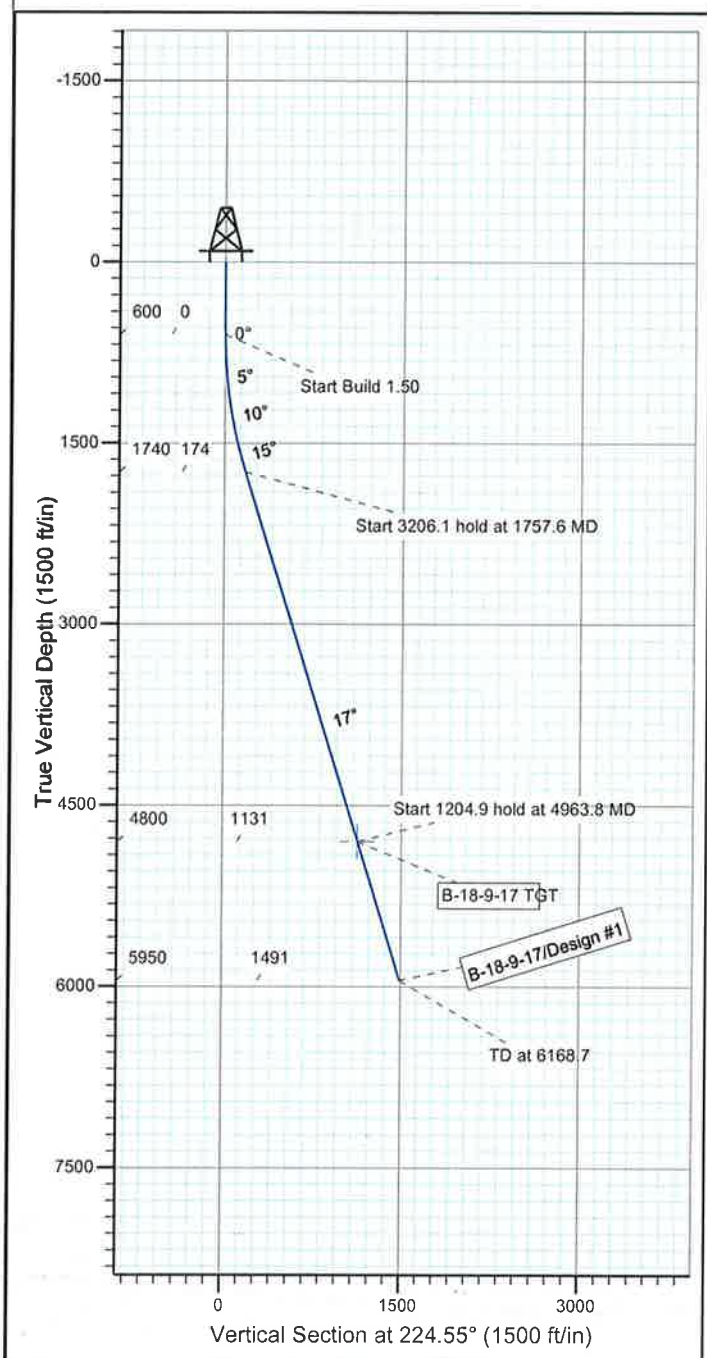
Project: USGS Myton SW (UT)
Site: SECTION 18 T9S R17E
Well: B-18-9-17
Wellbore: Wellbore #1
Design: Design #1

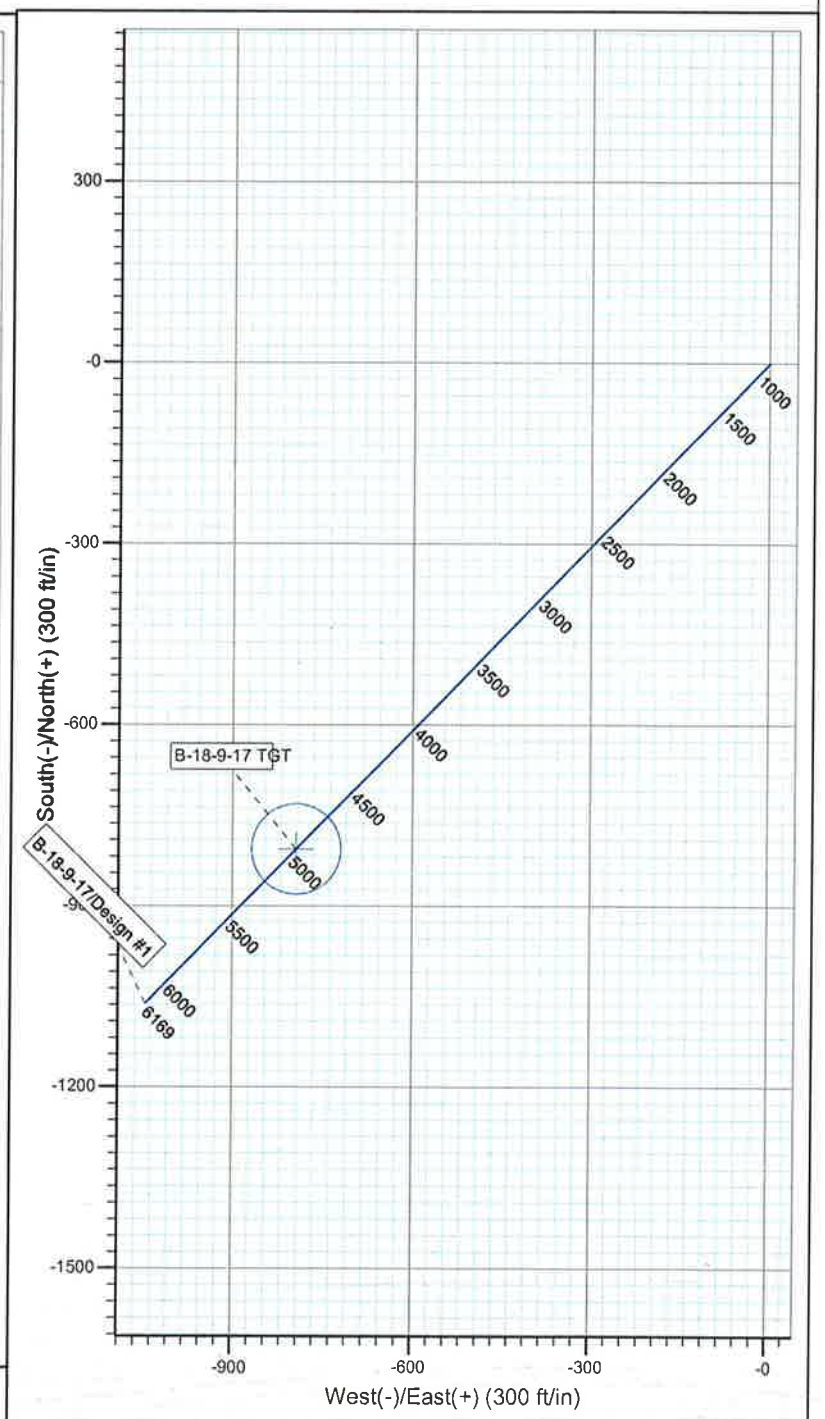
T G M

Azimuths to Grid North
True North: -0.93°
Magnetic North: 10.47°

Magnetic Field
Strength: 52346.0snT
Dip Angle: 65.81°
Date: 2010/09/13
Model: IGRF2010

KOP @ 600'
DOGLEG RATE 1.5 DEG/100
TARGET RADIUS IS 75'





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
B-18-9-17 TGT	4800.0	-805.9	-793.4	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	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1757.6	17.36	224.55	1740.0	-124.1	-122.1	1.50	224.55	174.1	
4	4963.8	17.36	224.55	4800.0	-805.9	-793.4	0.00	0.00	1130.9	B-18-9-17 TGT
5	6168.7	17.36	224.55	5950.0	-1062.2	-1045.7	0.00	0.00	1490.5	

HATHAWAY BURNHAM
DIRECTIONAL & MWD SERVICES

'APIWellNo:43013504980000'

NEWFIELD

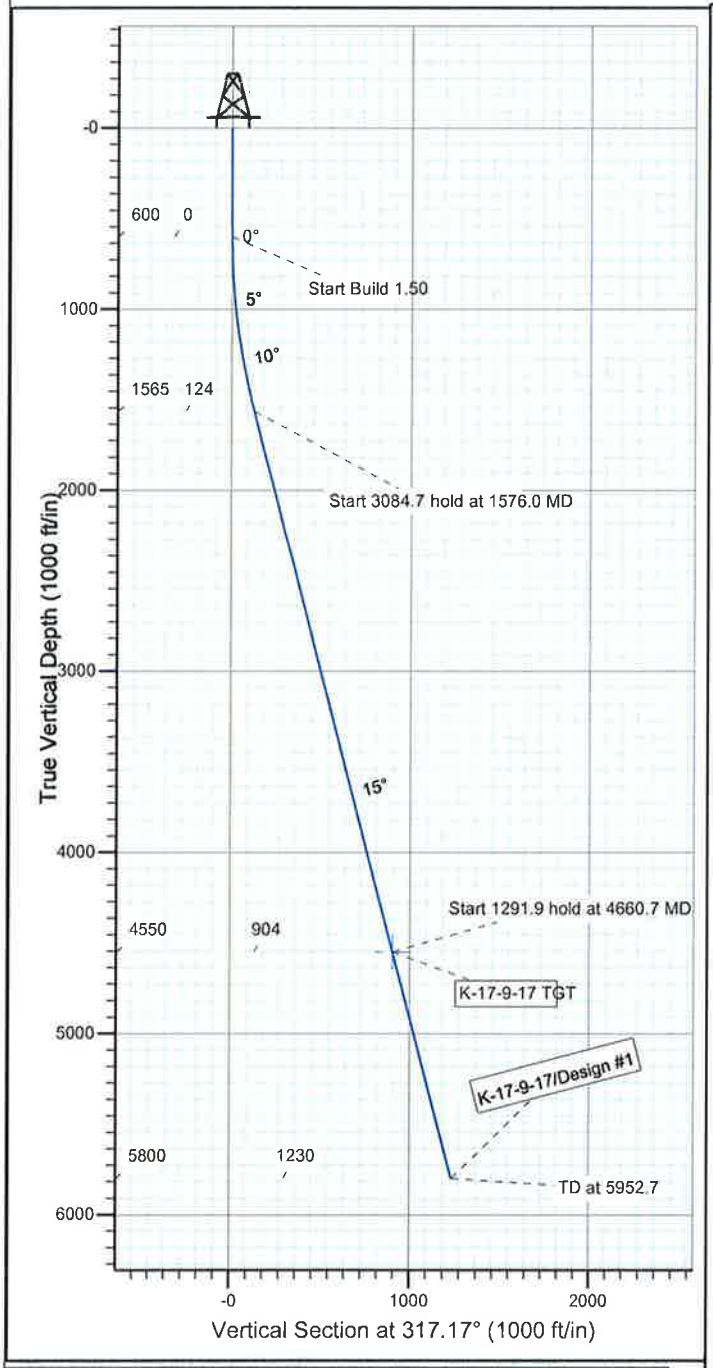
Project: USGS Myton SW (UT)
Site: SECTION 16 T9S, R17E
Well: K-17-9-17
Wellbore: Wellbore #1
Design: Design #1

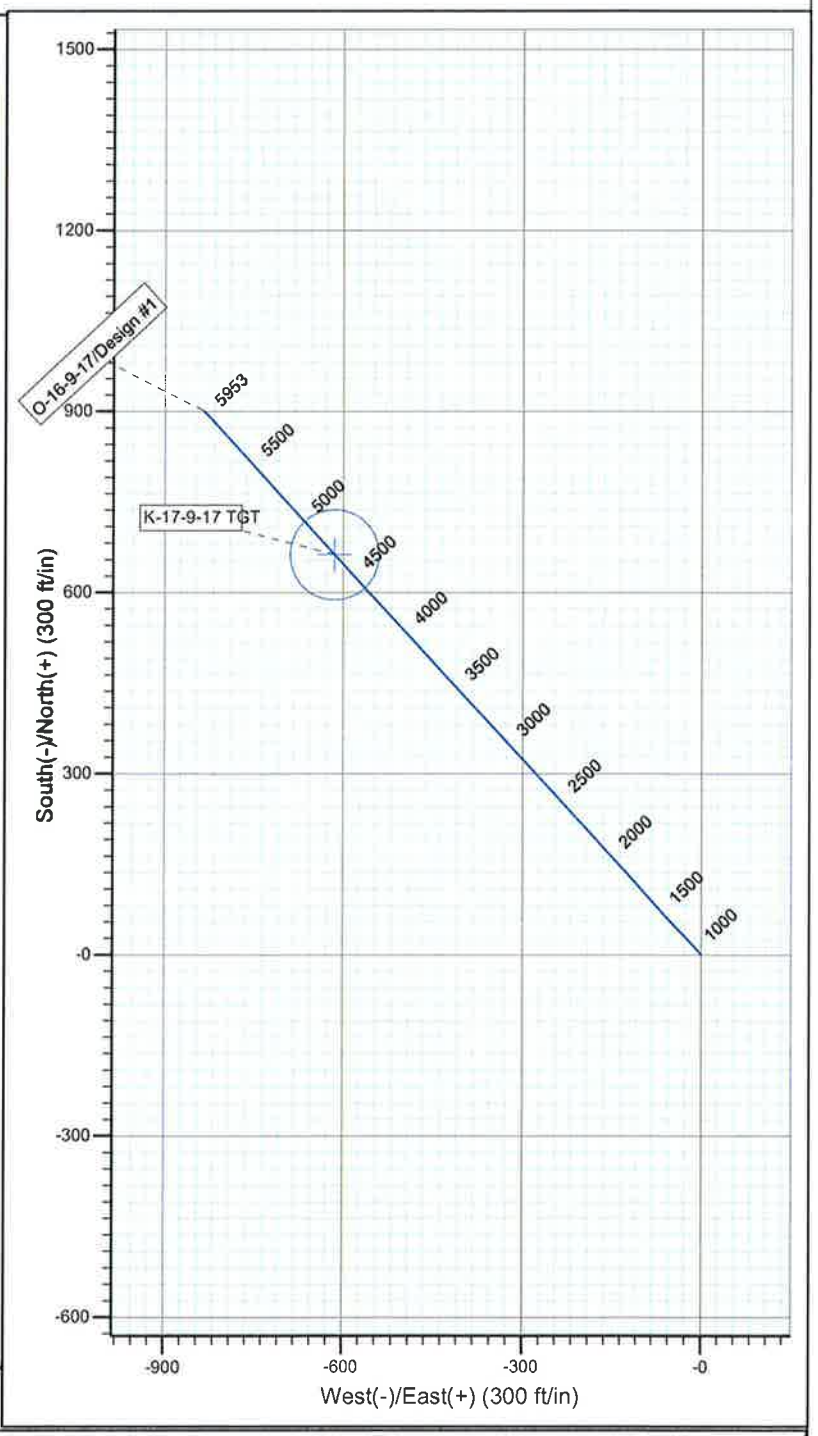
T M

Azimuths to True North
Magnetic North: 11.37°

Magnetic Field
Strength: 52326.4snT
Dip Angle: 65.81°
Date: 2010/11/17
Model: IGRF2010

KOP @ 600'
DOGLEG RATE 1.5 DEG/100
TARGET RADIUS IS 75'





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
K-17-9-17 TGT	4550.0	662.7	-614.3	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	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1576.0	14.64	317.17	1565.4	91.0	-84.3	1.50	317.17	124.0	
4	4660.7	14.64	317.17	4550.0	662.7	-614.3	0.00	0.00	903.7	K-17-9-17 TGT
5	5952.7	14.64	317.17	5800.0	902.2	-836.3	0.00	0.00	1230.2	

PAYZONE DIRECTIONAL

'APIWellNo:43013504980000'

NEWFIELD

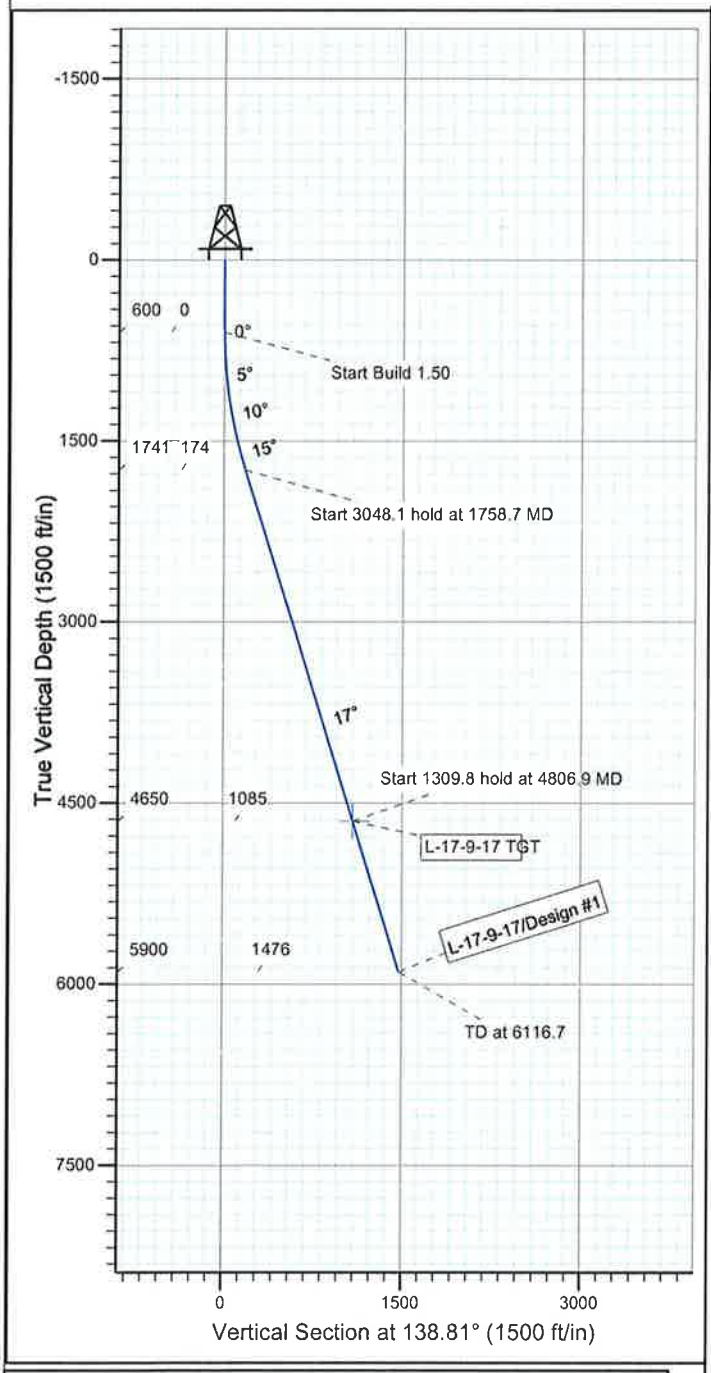
Project: USGS Myton SW (UT)
Site: SECTION 9
Well: L-17-9-17
Wellbore: Wellbore #1
Design: Design #1

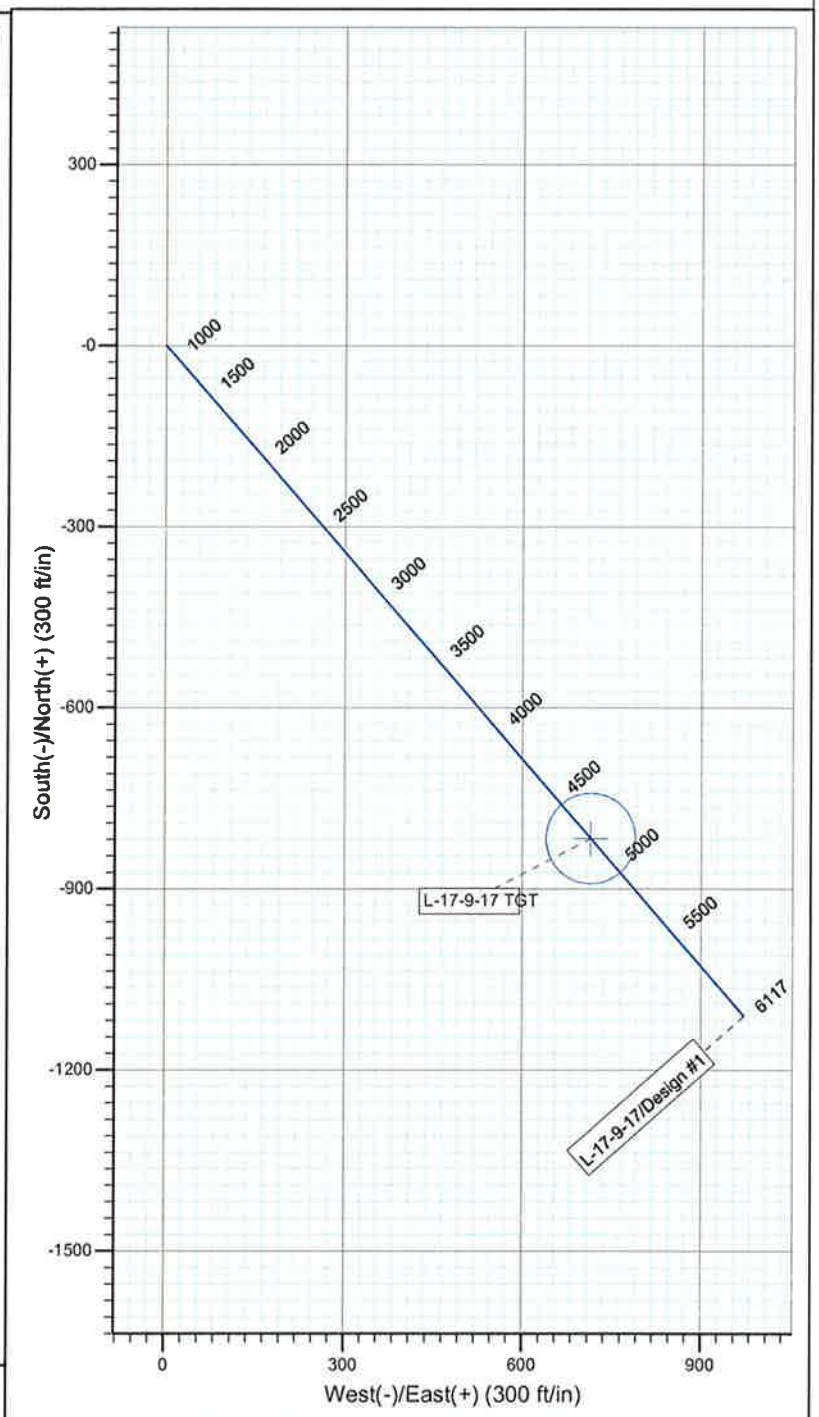
T M

Azimuths to True North
Magnetic North: 11.40°

Magnetic Field
Strength: 52347.9snT
Dip Angle: 65.81°
Date: 2010/08/31
Model: IGRF2010

KOP @ 600'
DOGLEG RATE 1.5 DEG/100
TARGET RADIUS IS 75'





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
L-17-9-17 TGT	4650.0	-816.5	714.5	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	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1758.7	17.38	138.81	1741.0	-131.2	114.9	1.50	138.81	174.4	
4	4806.9	17.38	138.81	4650.0	-816.5	714.5	0.00	0.00	1085.0	L-17-9-17 TGT
5	6116.7	17.38	138.81	5900.0	-1110.9	972.2	0.00	0.00	1476.2	

HATHAWAY BURNHAM
DIRECTIONAL & MWD SERVICES

'APIWellNo:43013504980000'

NEWFIELD

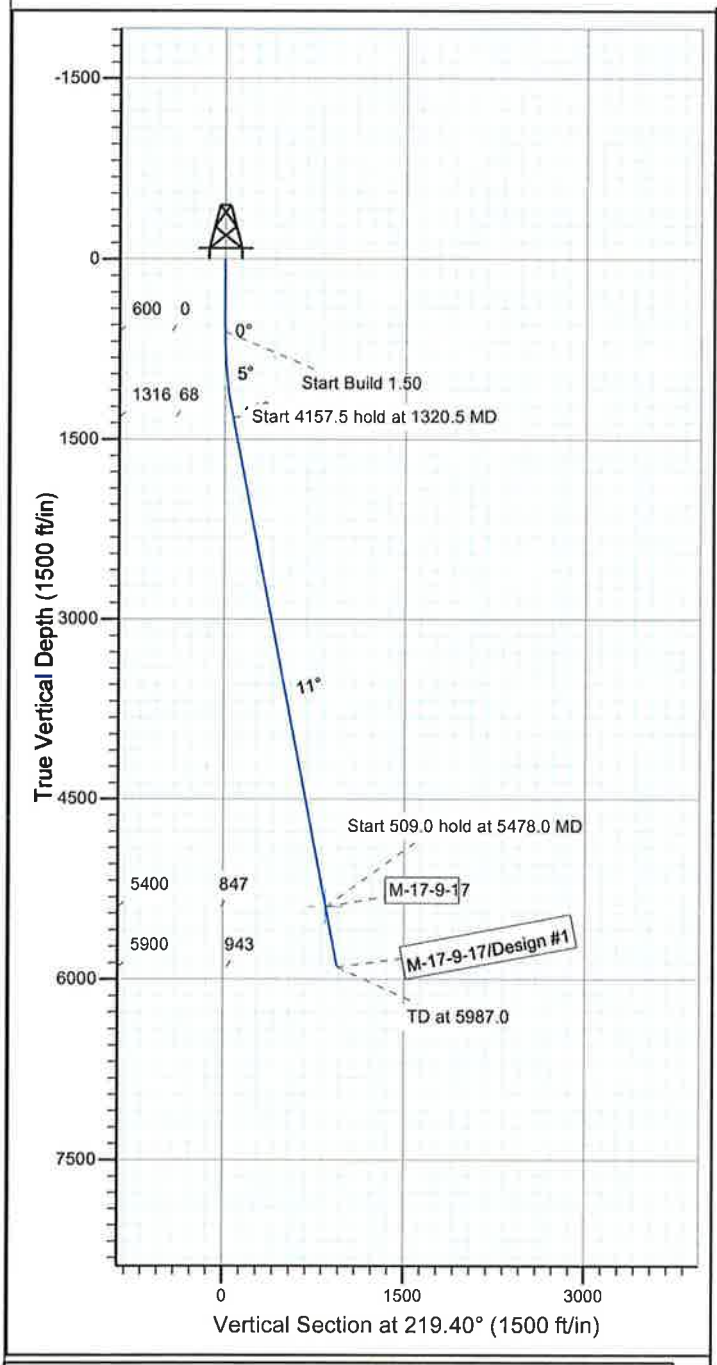
Project: USGS Myton SW (UT)
Site: SECTION 17 T9S, R17E
Well: M-17-9-17
Wellbore: Wellbore #1
Design: Design #1

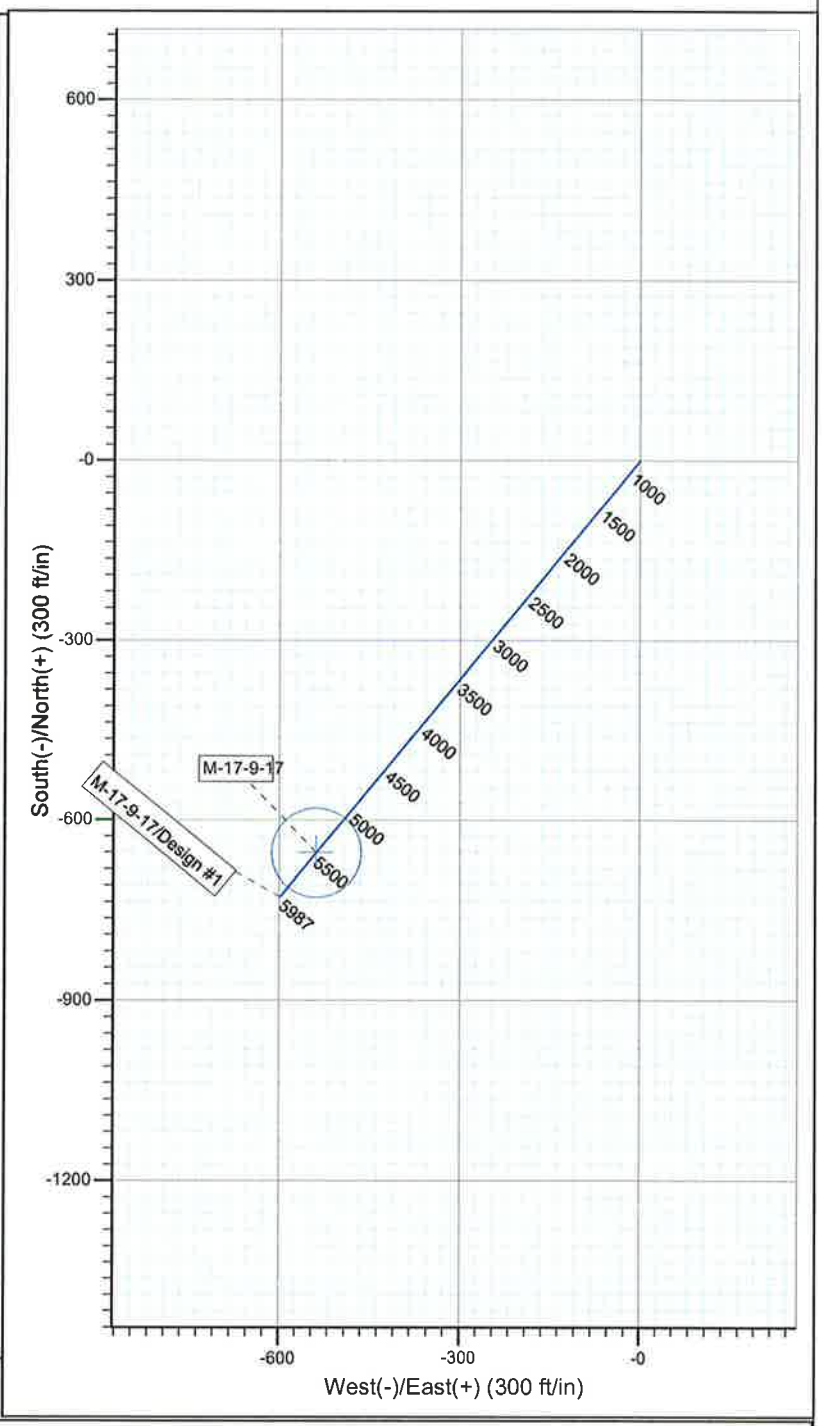
T M

Azimuths to True North
Magnetic North: 11.39°

Magnetic Field
Strength: 52340.6snT
Dip Angle: 65.81°
Date: 2010/09/27
Model: IGRF2010

KOP @ 600'
DOGLEG RATE 1.5 DEG/100
TARGET RADIUS IS 75'





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
M-17-9-17	5400.0	-654.7	-537.8	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	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1320.5	10.81	219.40	1316.2	-52.3	-43.0	1.50	219.40	67.7	
4	5478.0	10.81	219.40	5400.0	-654.7	-537.8	0.00	0.00	847.3	M-17-9-17
5	5987.0	10.81	219.40	5900.0	-728.5	-598.4	0.00	0.00	942.7	

PAYZONE

'APIWellNo:43013504980000'

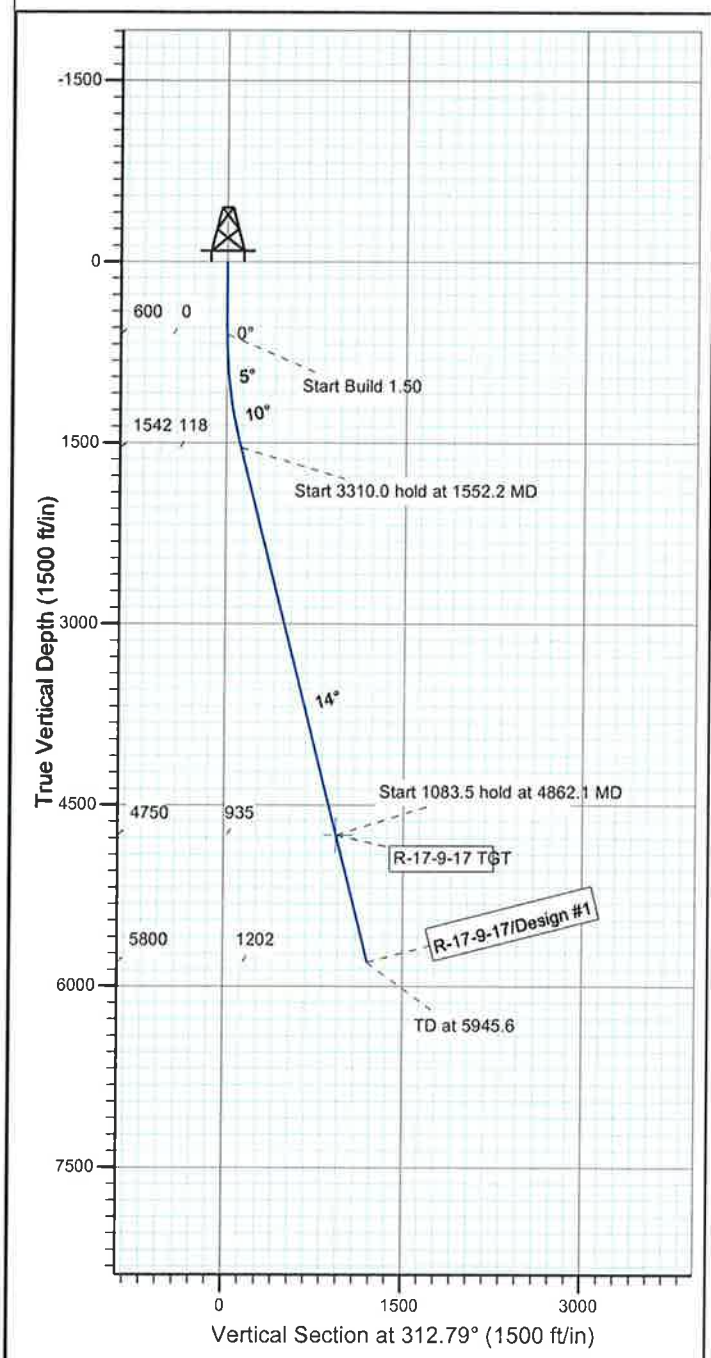
NEWFIELD

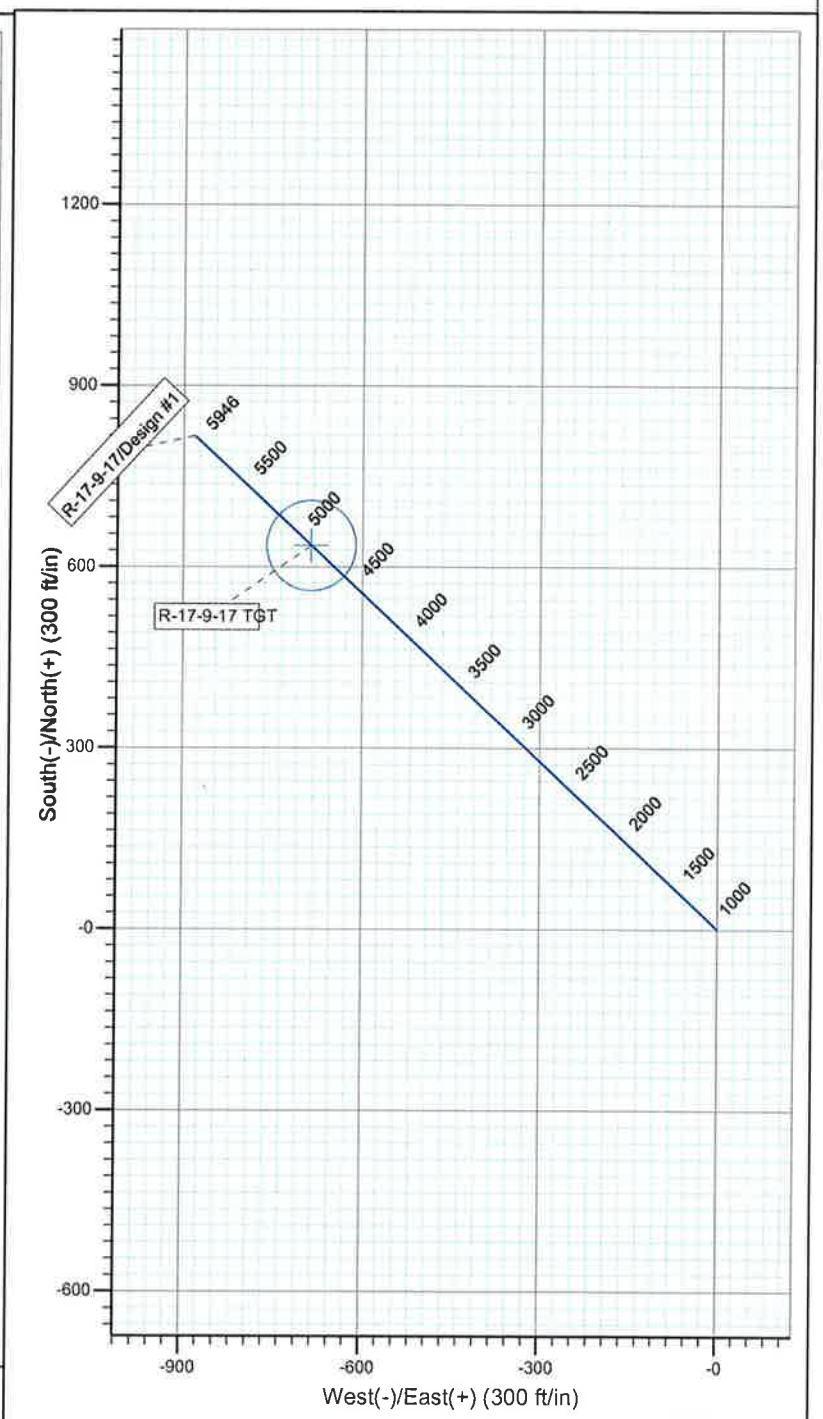
Project: USGS Myton SW (UT)
Site: SECTION 17 T9S, R17E
Well: R-17-9-17
Wellbore: Wellbore #1
Design: Design #1

Azimuths to True North
Magnetic North: 11.39°

Magnetic Field
Strength: 52341.8snT
Dip Angle: 65.81°
Date: 2010/09/07
Model: IGRF2010

KOP @ 600'
DOGLEG RATE 1.5 DEG/100
TARGET RADIUS IS 75'





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
R-17-9-17 TGT	4750.0	634.9	-685.9	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	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1552.2	14.28	312.79	1542.4	80.2	-86.6	1.50	312.79	118.1	
4	4862.1	14.28	312.79	4750.0	634.9	-685.9	0.00	0.00	934.7	R-17-9-17 TGT
5	5945.6	14.28	312.79	5800.0	816.5	-882.1	0.00	0.00	1202.0	

HATHAWAY BURNHAM
DIRECTIONAL & MWD SERVICES

'APIWellNo:43013504980000'

NEWFIELD

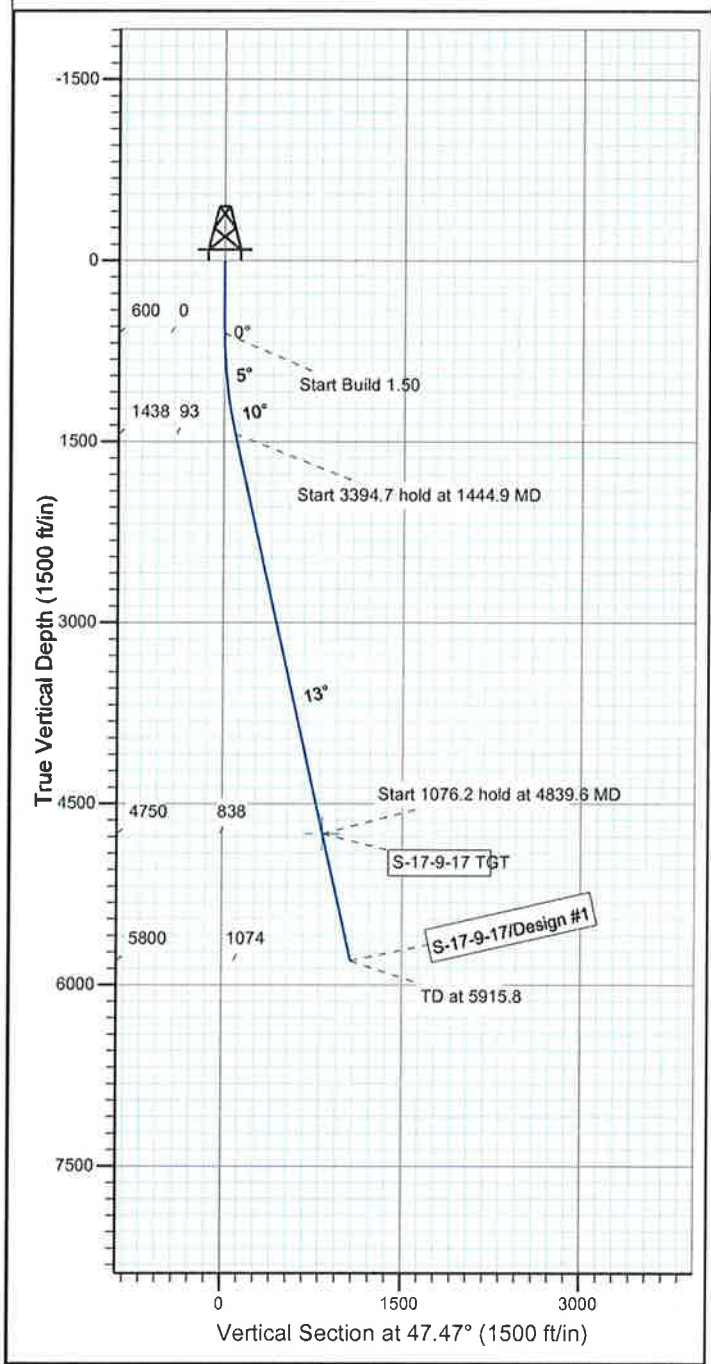
Project: USGS Myton SW (UT)
Site: SECTION 17 T9S, R17E
Well: S-17-9-17
Wellbore: Wellbore #1
Design: Design #1

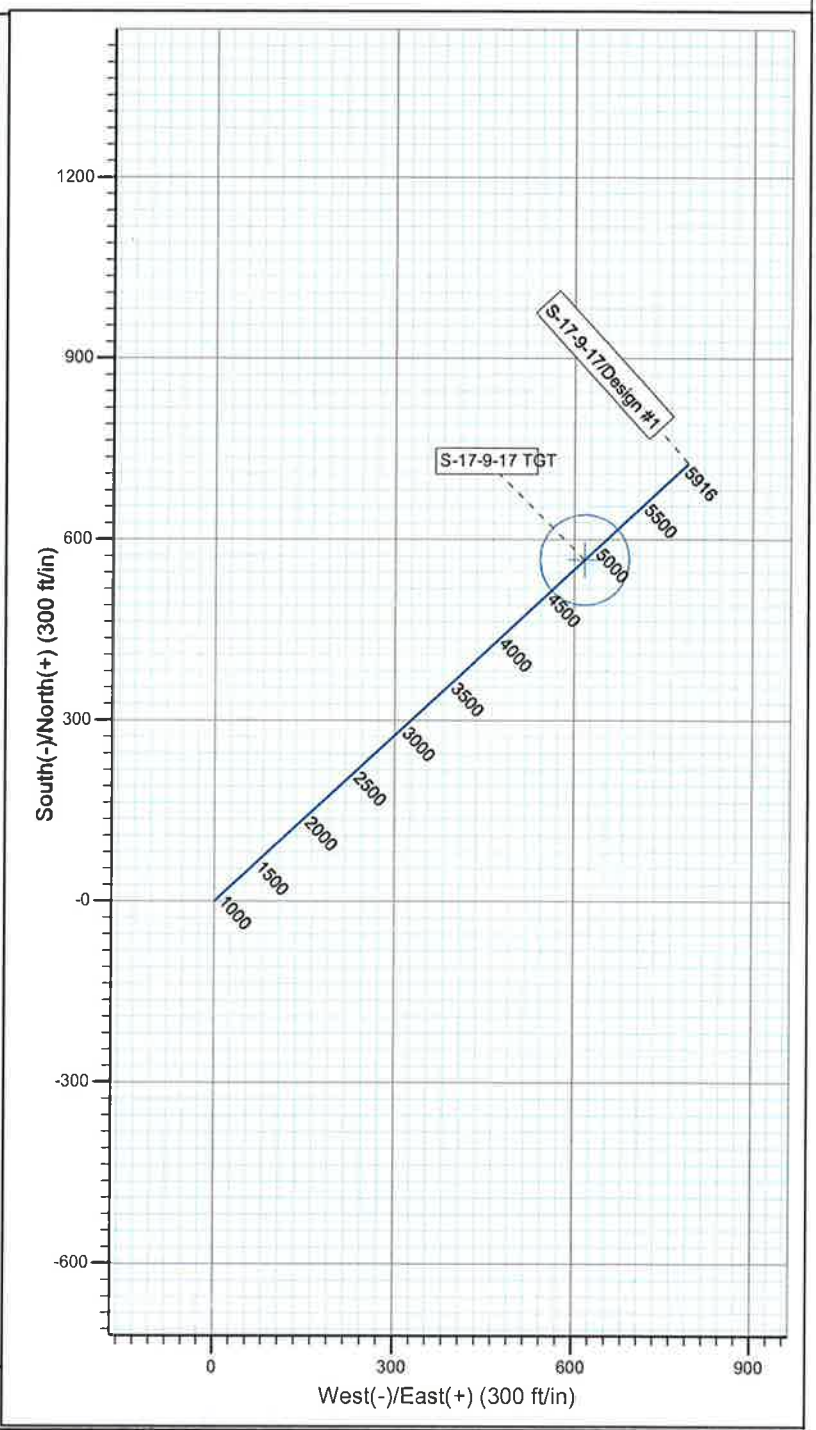
T M

Azimuths to True North
Magnetic North: 11.39°

Magnetic Field
Strength: 52341.9snT
Dip Angle: 65.81°
Date: 2010/09/07
Model: IGRF2010

KOP @ 600'
DOGLEG RATE 1.5 DEG/100
TARGET RADIUS IS 75'





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
S-17-9-17 TGT	4750.0	566.3	617.4	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	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1444.9	12.67	47.47	1438.0	62.9	68.6	1.50	47.47	93.1	
4	4839.6	12.67	47.47	4750.0	566.3	617.4	0.00	0.00	837.8	S-17-9-17 TGT
5	5915.8	12.67	47.47	5800.0	725.9	791.4	0.00	0.00	1073.9	

HATHAWAY BURNHAM
DIRECTIONAL & MWD SURVEYS

'APIWellNo:43013504980000'

NEWFIELD

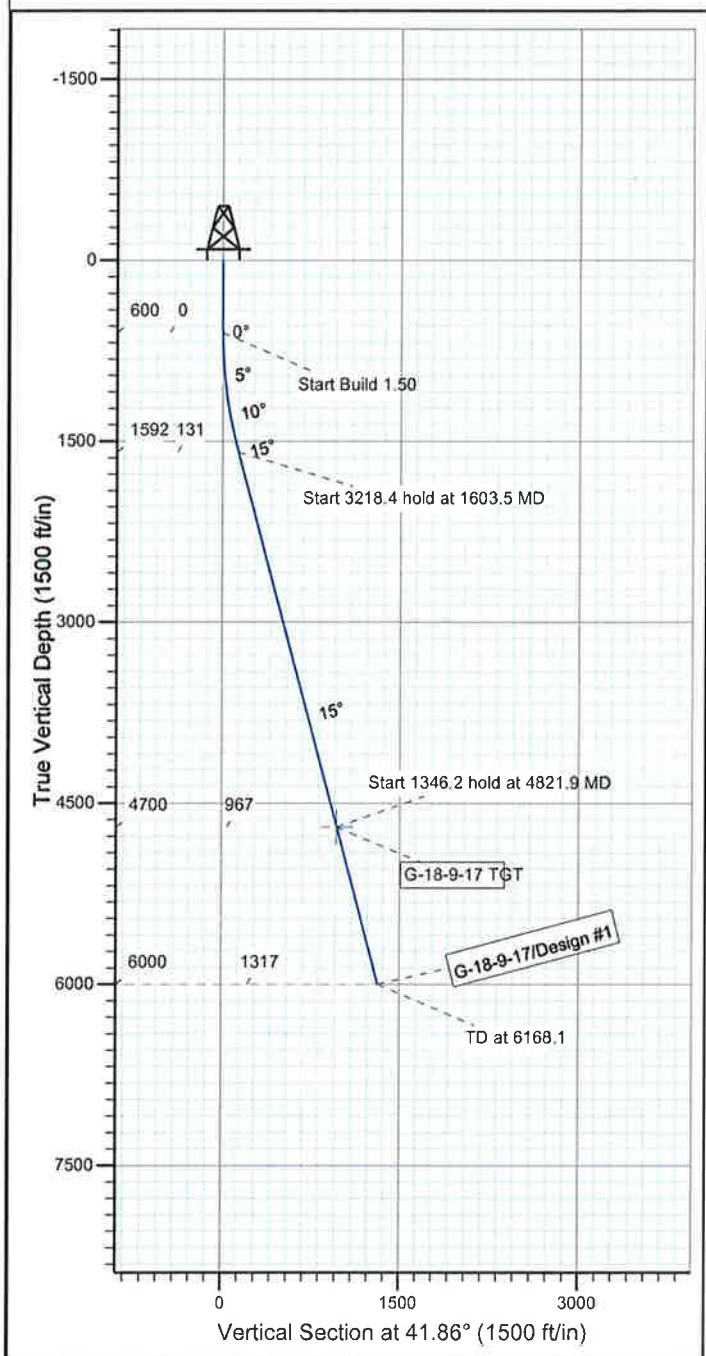
Project: USGS Myton SW (UT)
Site: SECTION 18 T9S R17E
Well: G-18-9-17
Wellbore: Wellbore #1
Design: Design #1

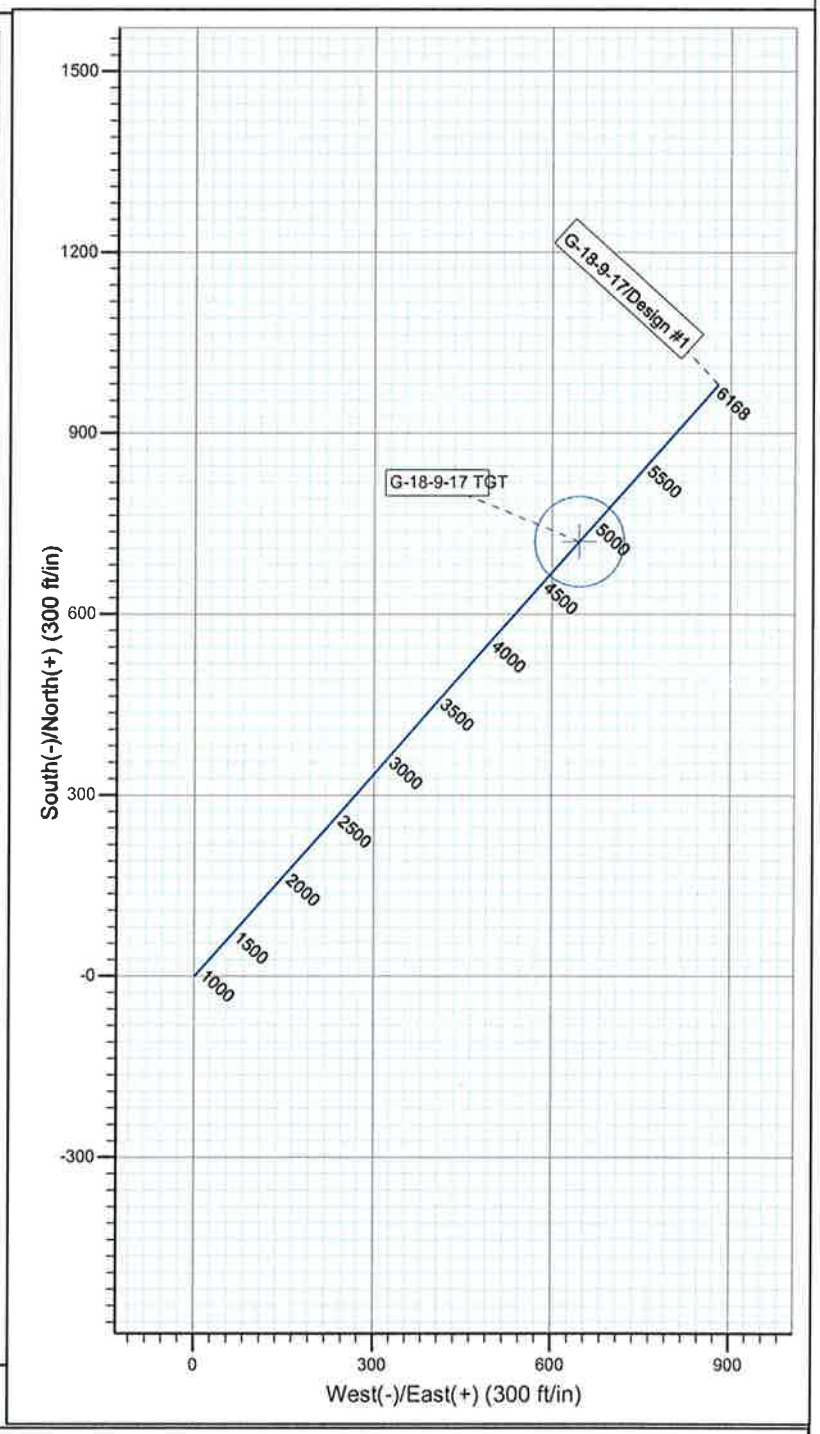
T G M

Azimuths to Grid North
True North: -0.92°
Magnetic North: 10.48°

Magnetic Field
Strength: 52341.1snT
Dip Angle: 65.81°
Date: 2010/09/07
Model: IGRF2010

KOP @ 600'
DOGLEG RATE 1.5 DEG/100
TARGET RADIUS IS 75'





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
G-18-9-17 TGT	4700.0	720.2	645.3	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	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1603.5	15.05	41.86	1592.0	97.6	87.5	1.50	41.86	131.1	
4	4821.9	15.05	41.86	4700.0	720.2	645.3	0.00	0.00	966.9	G-18-9-17 TGT
5	6168.1	15.05	41.86	6000.0	980.5	878.6	0.00	0.00	1316.6	

HATHAWAY BURNHAM
DIRECTIONAL & MWD SERVICES

'APIWellNo:43013504980000'

NEWFIELD

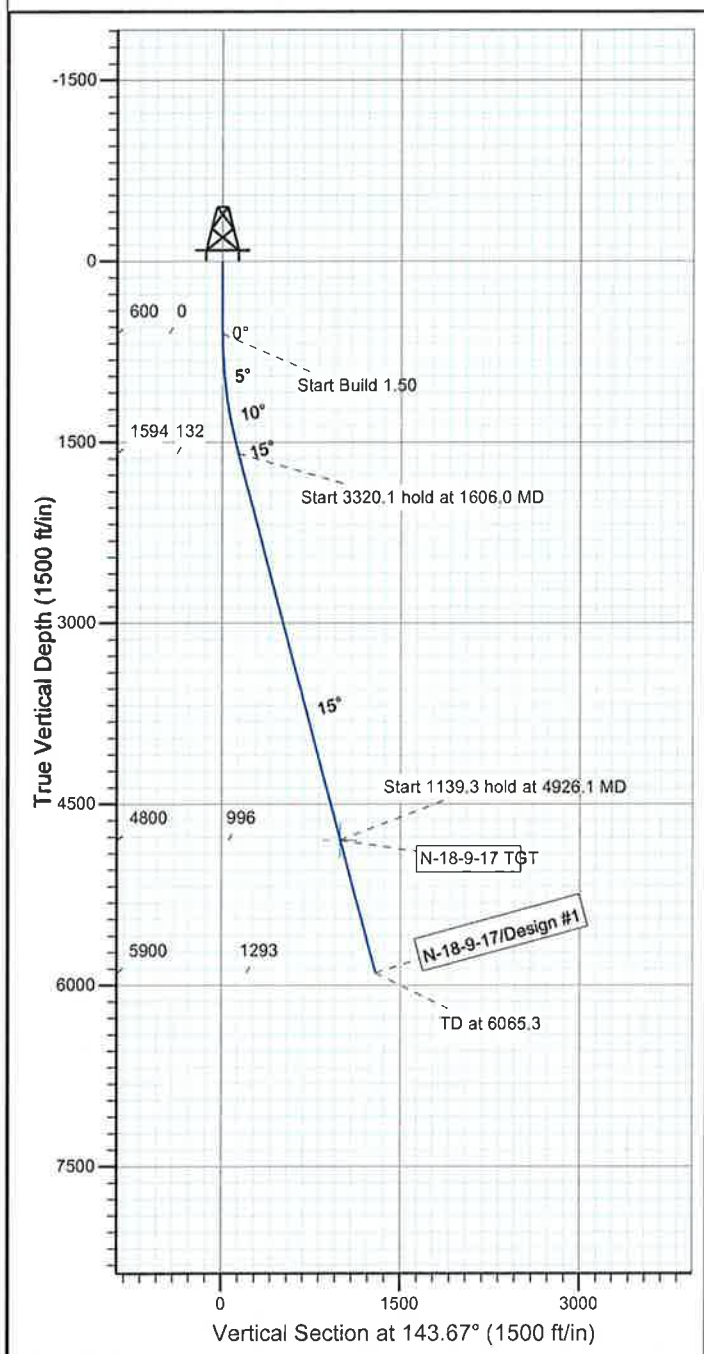
Project: USGS Myton SW (UT)
Site: SECTION 18 T9S R17E
Well: N-18-9-17
Wellbore: Wellbore #1
Design: Design #1

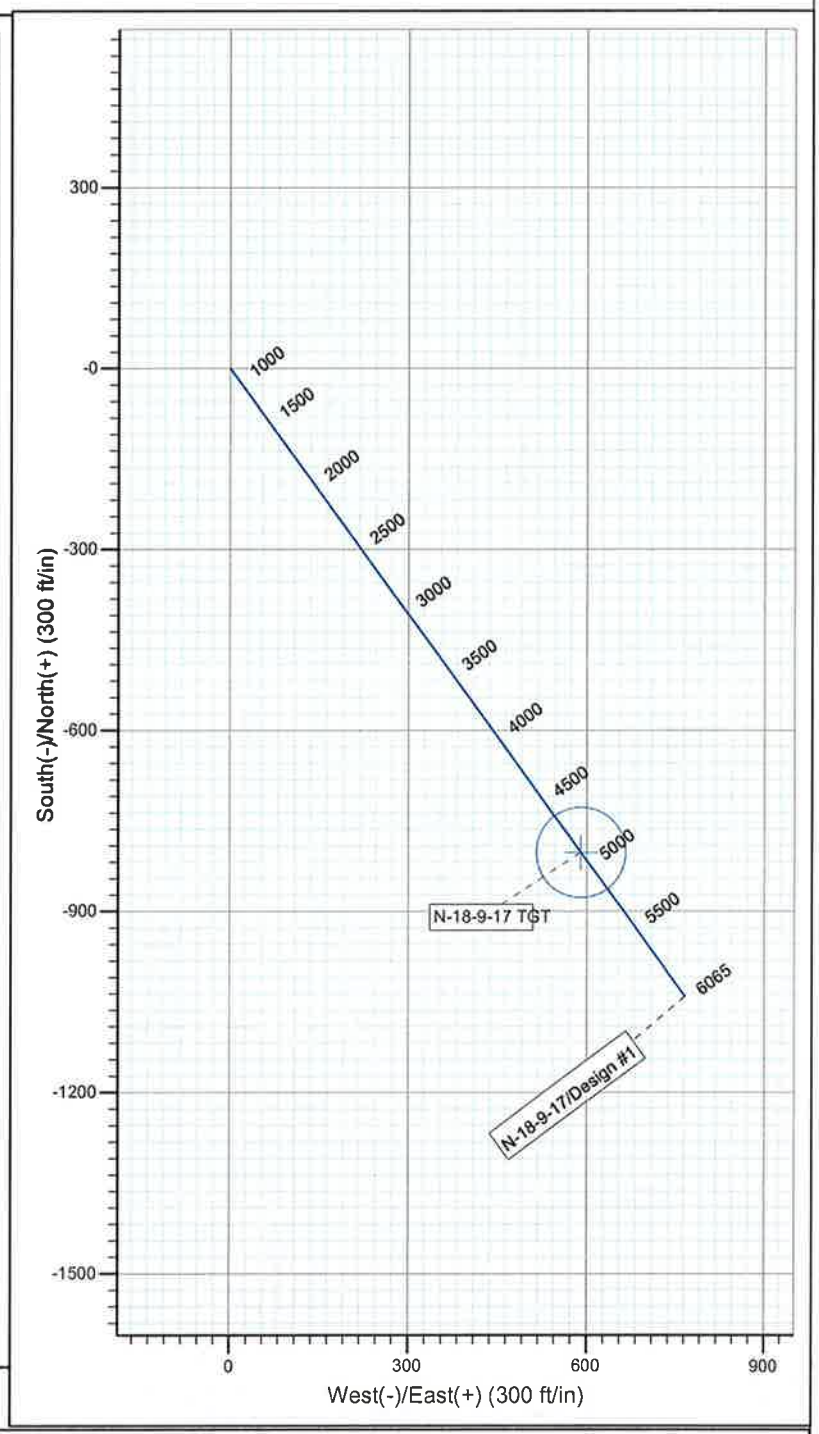
T G M

Azimuths to Grid North
True North: -0.92°
Magnetic North: 10.48°

Magnetic Field
Strength: 52341.1snT
Dip Angle: 65.81°
Date: 2010/09/07
Model: IGRF2010

KOP @ 600'
DOGLEG RATE 1.5 DEG/100
TARGET RADIUS IS 75'





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
N-18-9-17 TGT	4800.0	-802.4	590.1	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	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1606.0	15.09	143.67	1594.4	-106.1	78.0	1.50	143.67	131.7	
4	4926.1	15.09	143.67	4800.0	-802.4	590.1	0.00	0.00	996.0	N-18-9-17 TGT
5	6065.3	15.09	143.67	5900.0	-1041.3	765.8	0.00	0.00	1292.6	

HATHAWAY BURNHAM
DIRECTIONAL & MWD SERVICES

'APIWellNo:43013504980000'

NEWFIELD

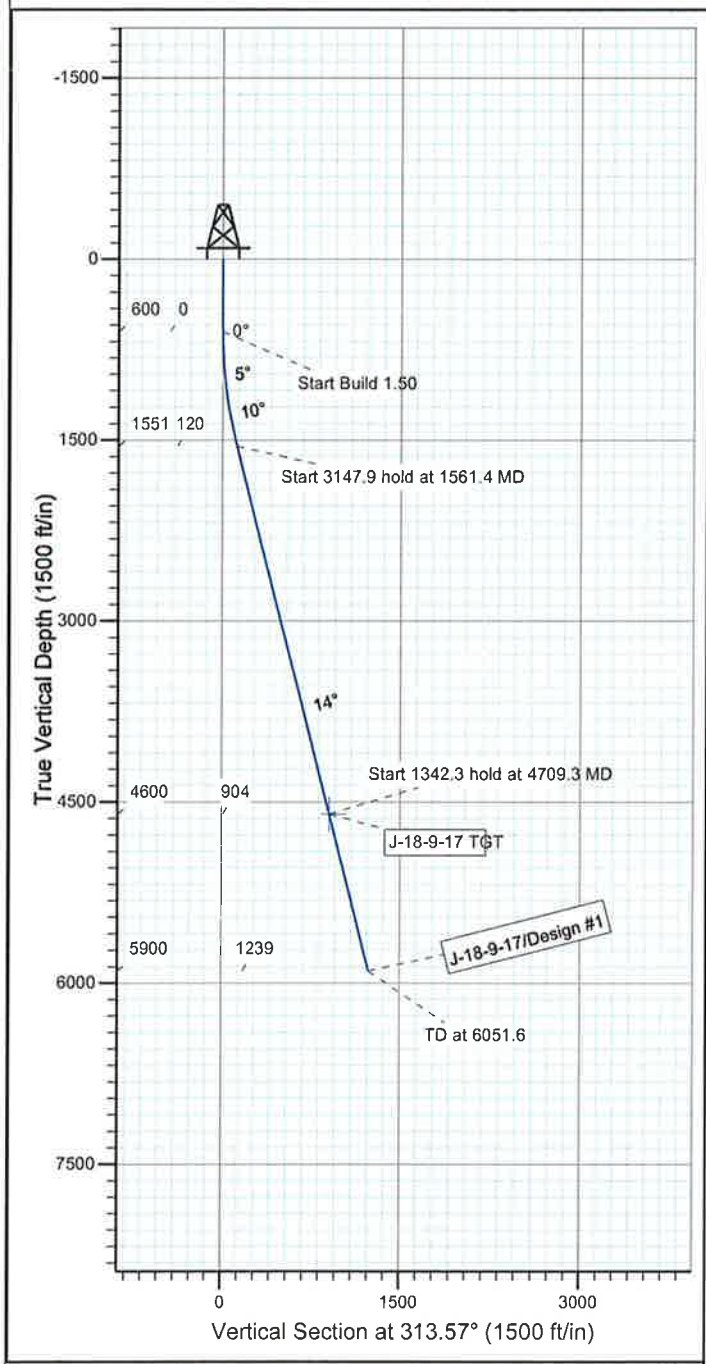
Project: USGS Myton SW (UT)
Site: SECTION 18 T9S R17E
Well: J-18-9-17
Wellbore: Wellbore #1
Design: Design #1

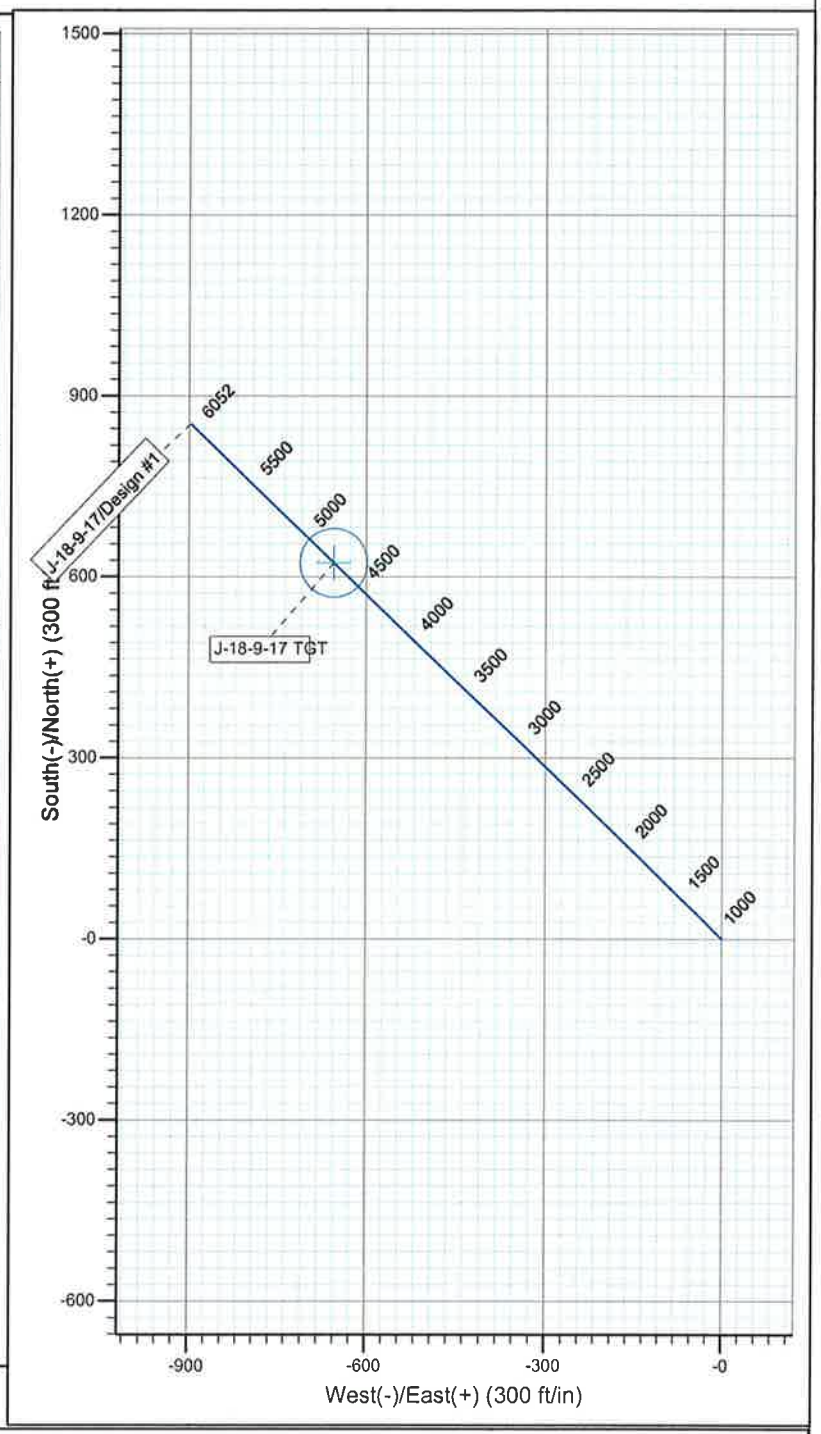
T G M

Azimuths to Grid North
True North: -0.94°
Magnetic North: 10.46°

Magnetic Field
Strength: 52344.1snT
Dip Angle: 65.81°
Date: 2010/09/07
Model: IGRF2010

KOP @ 600'
DOGLEG RATE 1.5 DEG/100
TARGET RADIUS IS 75'





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
J-18-9-17 TGT	4600.0	623.3	-655.2	Circle (Radius: 57.0)

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	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1561.4	14.42	313.57	1551.3	83.0	-87.2	1.50	313.57	120.4	
4	4709.3	14.42	313.57	4600.0	623.3	-655.2	0.00	0.00	904.3	J-18-9-17 TGT
5	6051.6	14.42	313.57	5900.0	853.7	-897.4	0.00	0.00	1238.6	

HATHAWAY BURNHAM
DIRECTIONAL & MWD SERVICES

'APIWellNo:43013504980000'

NEWFIELD

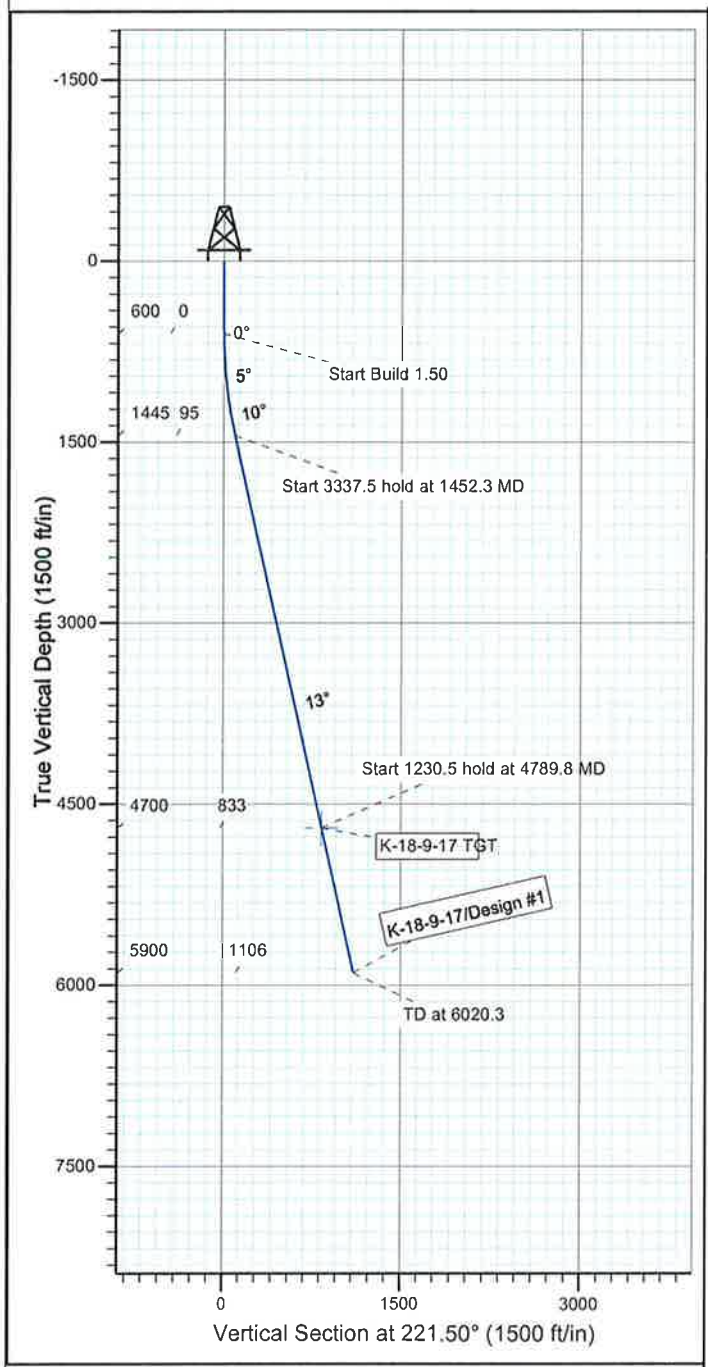
Project: USGS Myton SW (UT)
Site: SECTION 18 T9S R17E
Well: K-18-9-17
Wellbore: Wellbore #1
Design: Design #1

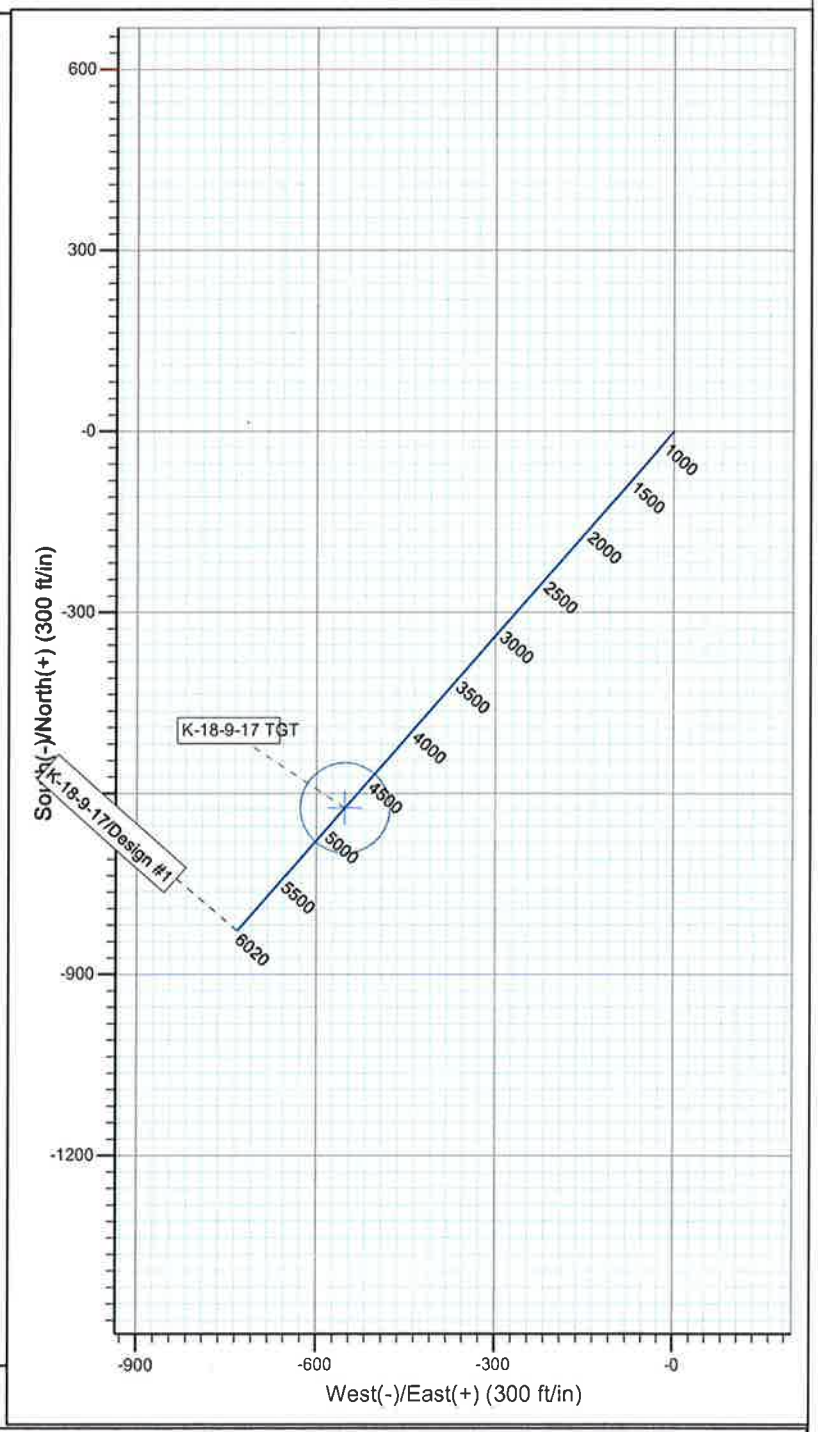
T G M

Azimuths to Grid North
True North: -0.94°
Magnetic North: 10.46°

Magnetic Field
Strength: 52344.1snT
Dip Angle: 65.81°
Date: 2010/09/07
Model: IGRF2010

KOP @ 600'
DOGLEG RATE 1.5 DEG/100
TARGET RADIUS IS 75'





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
K-18-9-17 TGT	4700.0	-624.1	-552.1	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	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1452.3	12.79	221.50	1445.3	-70.9	-62.8	1.50	221.50	94.7	
4	4789.8	12.79	221.50	4700.0	-624.1	-552.1	0.00	0.00	833.3	K-18-9-17 TGT
5	6020.3	12.79	221.50	5900.0	-828.0	-732.6	0.00	0.00	1105.6	

HATHAWAY BURNHAM
DIRECTIONAL & MWD SERVICES

'APIWellNo:43013504980000'

NEWFIELD

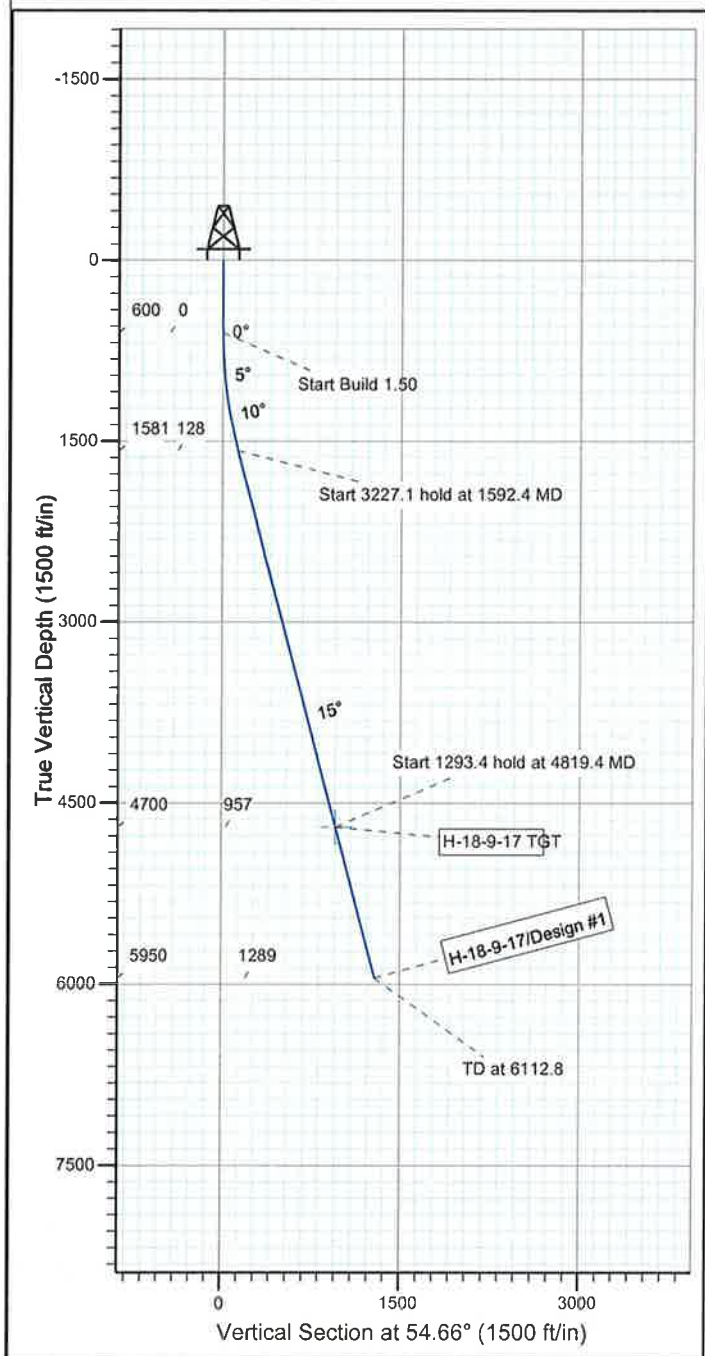
Project: USGS Myton SW (UT)
Site: SECTION 18 T9S R17E
Well: H-18-9-17
Wellbore: Wellbore #1
Design: Design #1

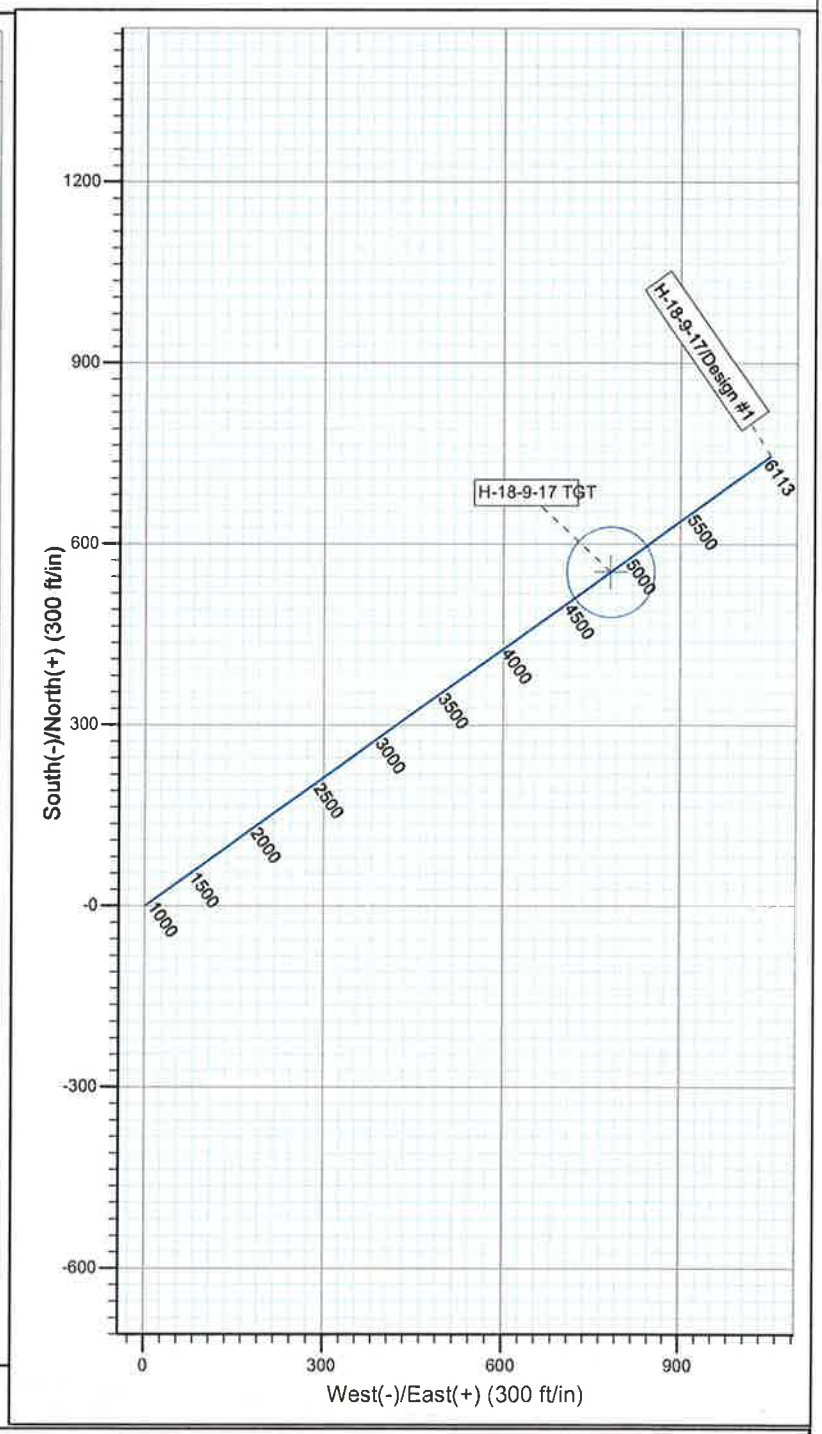
T G M

Azimuths to Grid North
True North: -0.93°
Magnetic North: 10.48°

Magnetic Field
Strength: 52341.7snT
Dip Angle: 65.81°
Date: 2010/09/07
Model: IGRF2010

KOP @ 600'
DOGLEG RATE 1.5 DEG/100
TARGET RADIUS IS 75'





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
H-18-9-17 TGT	4700.0	553.7	780.8	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	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1592.4	14.89	54.66	1581.2	74.1	104.6	1.50	54.66	128.2	
4	4819.4	14.89	54.66	4700.0	553.7	780.8	0.00	0.00	957.2	H-18-9-17 TGT
5	6112.8	14.89	54.66	5950.0	745.8	1051.8	0.00	0.00	1289.4	

HATHAWAY BURNHAM
DIRECTIONAL & MWD SERVICES

'APIWellNo:43013504980000'

NEWFIELD

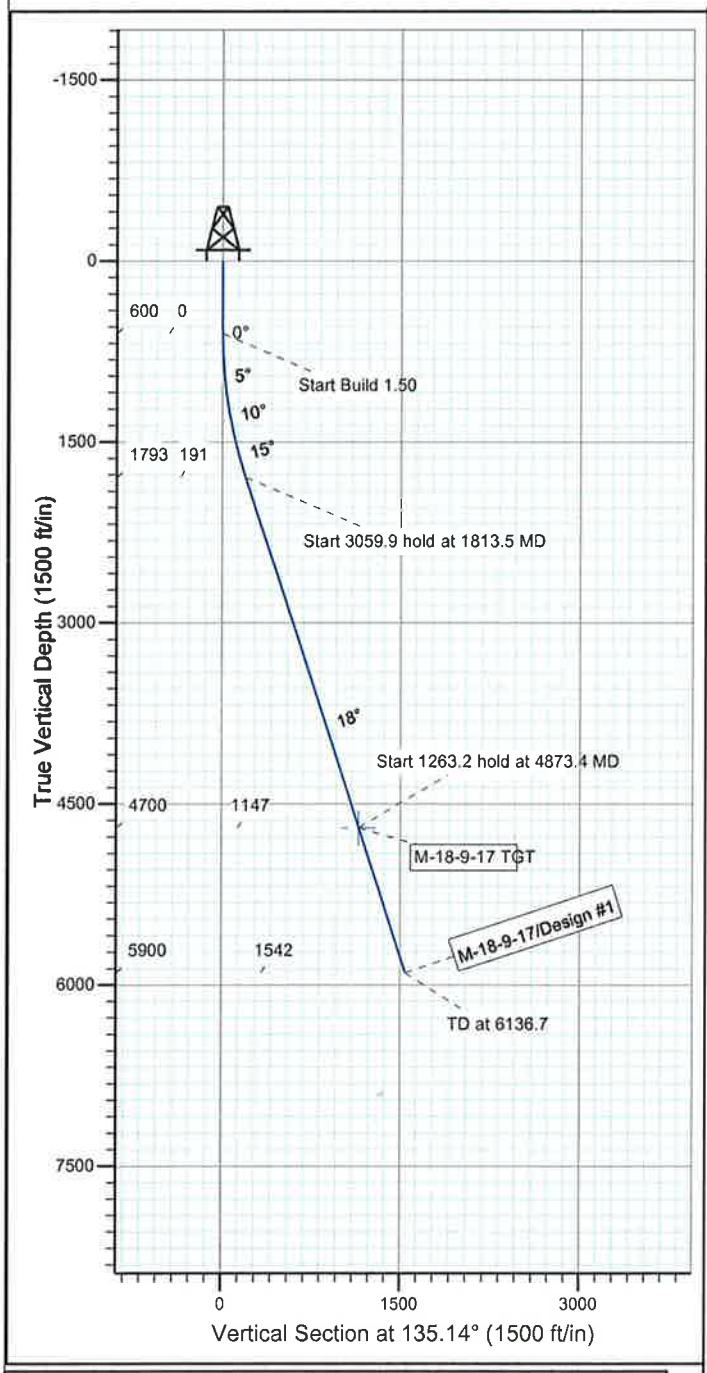
Project: USGS Myton SW (UT)
Site: SECTION 18 T9S R17E
Well: M-18-9-17
Wellbore: Wellbore #1
Design: Design #1

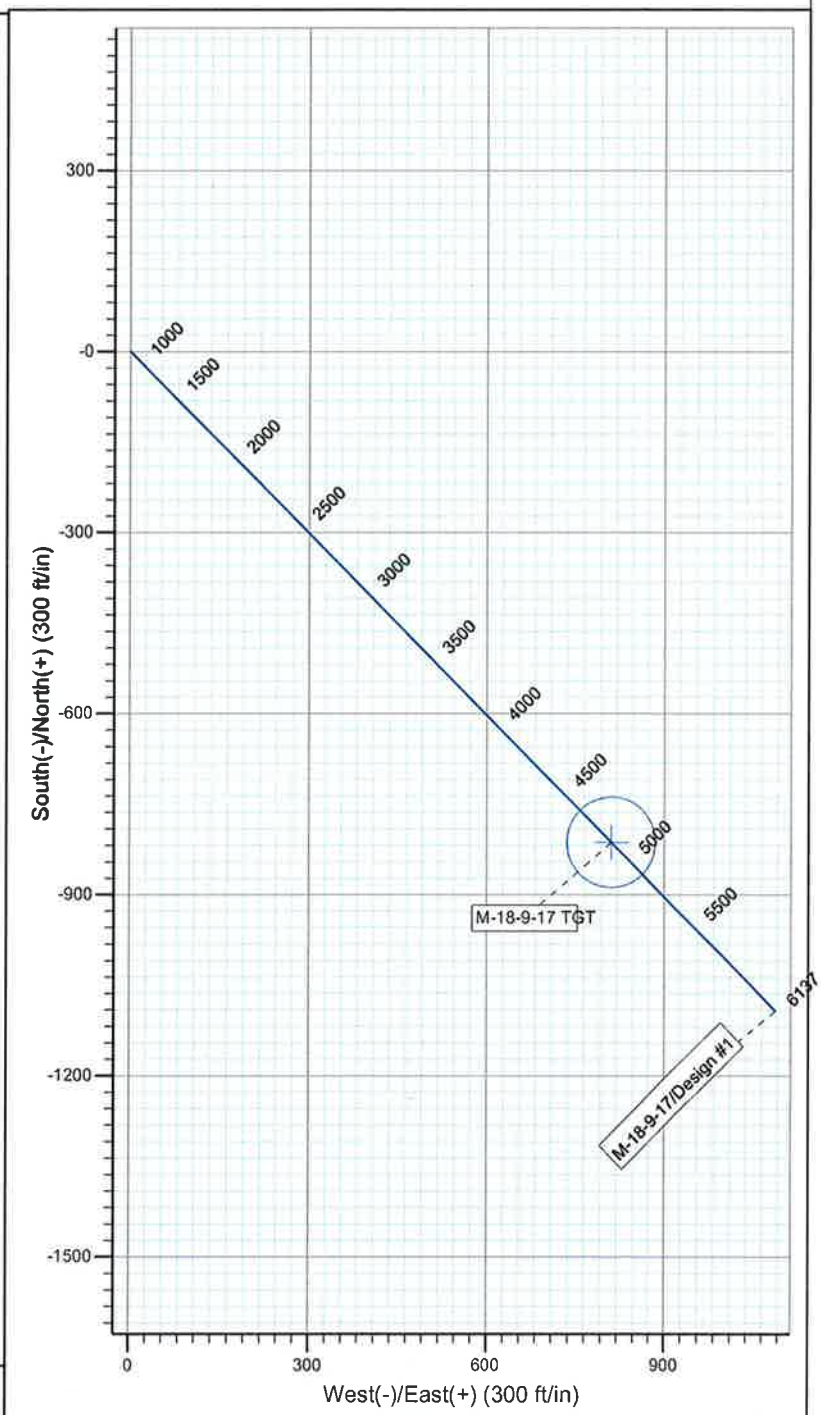
T G M

Azimuths to Grid North
True North: -0.93°
Magnetic North: 10.48°

Magnetic Field
Strength: 52341.7snT
Dip Angle: 65.81°
Date: 2010/09/07
Model: IGRF2010

KOP @ 600'
DOGLEG RATE 1.5 DEG/100
TARGET RADIUS IS 75'





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
M-18-9-17 TGT	4700.0	-813.0	809.1	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	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1813.5	18.20	135.14	1793.2	-135.5	134.8	1.50	135.14	191.2	
4	4873.4	18.20	135.14	4700.0	-813.0	809.1	0.00	0.00	1147.0	M-18-9-17 TGT
5	6136.7	18.20	135.14	5900.0	-1092.8	1087.4	0.00	0.00	1541.6	

HATHAWAY BURNHAM
DIRECTIONAL & MWD SERVICES

'APIWellNo:43013504980000'

NEWFIELD

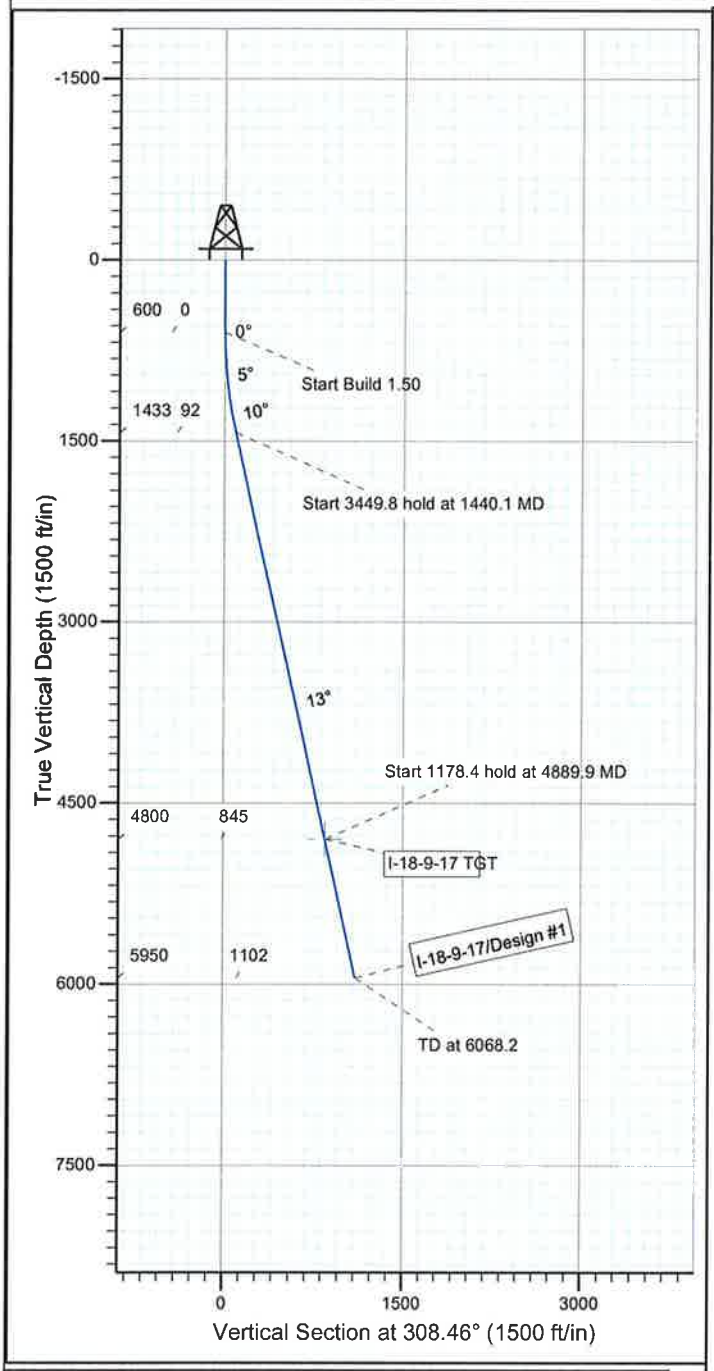
Project: USGS Myton SW (UT)
Site: SECTION 18 T9S R17E
Well: I-18-9-17
Wellbore: Wellbore #1
Design: Design #1

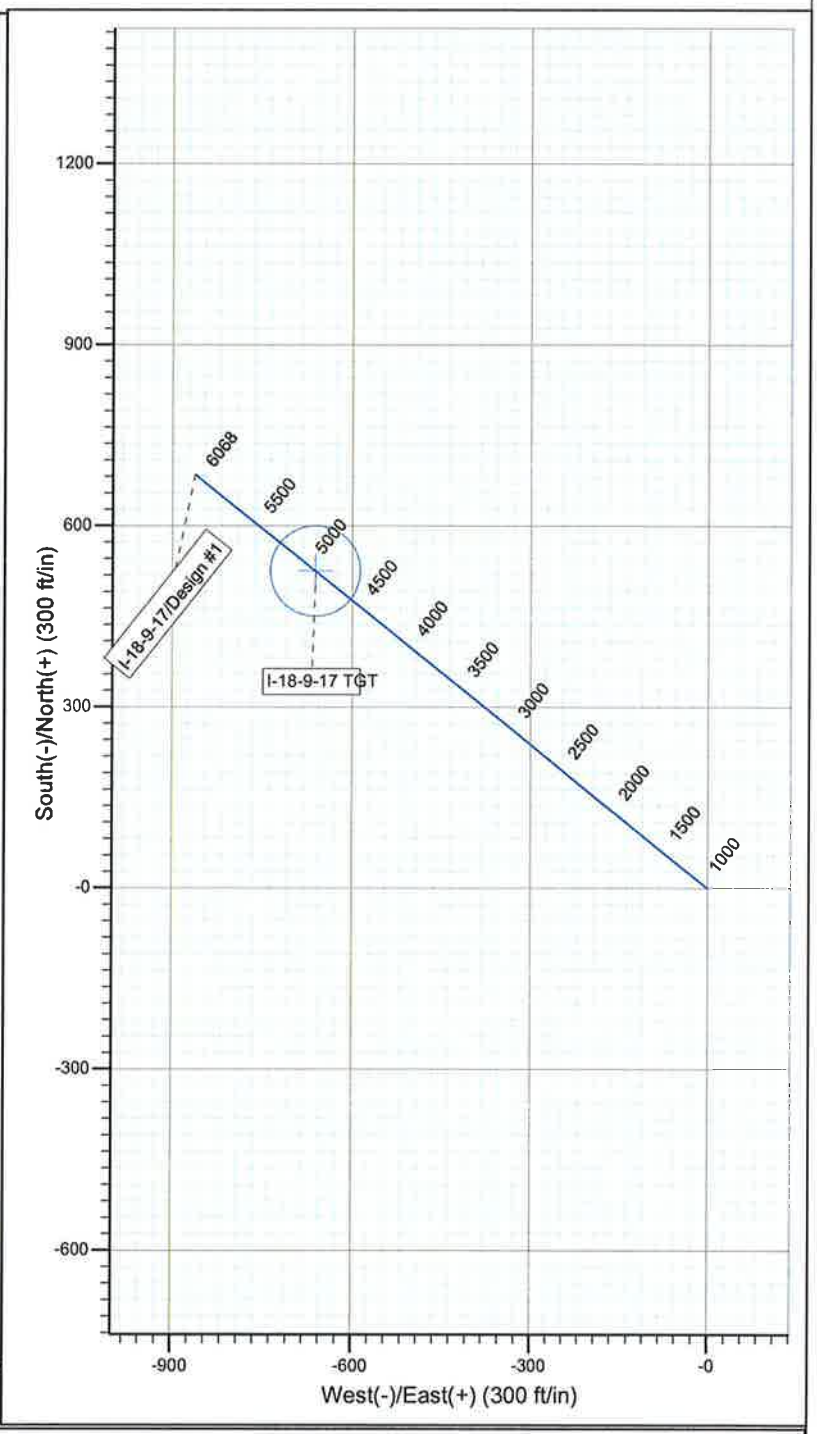
T G M

Azimuths to Grid North
True North: -0.93°
Magnetic North: 10.46°

Magnetic Field
Strength: 52341.9snT
Dip Angle: 65.81°
Date: 2010/09/13
Model: IGRF2010

KOP @ 600'
DOGLEG RATE 1.5 DEG/100
TARGET RADIUS IS 75'





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
I-18-9-17 TGT	4800.0	525.3	-661.4	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	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1440.1	12.60	308.46	1433.3	57.2	-72.0	1.50	308.46	92.0	
4	4889.9	12.60	308.46	4800.0	525.3	-661.4	0.00	0.00	844.6	I-18-9-17 TGT
5	6068.2	12.60	308.46	5950.0	685.2	-862.7	0.00	0.00	1101.7	

HATHAWAY BURNHAM
DIRECTIONAL & MWD SERVICES

'APIWellNo:43013504980000'

NEWFIELD

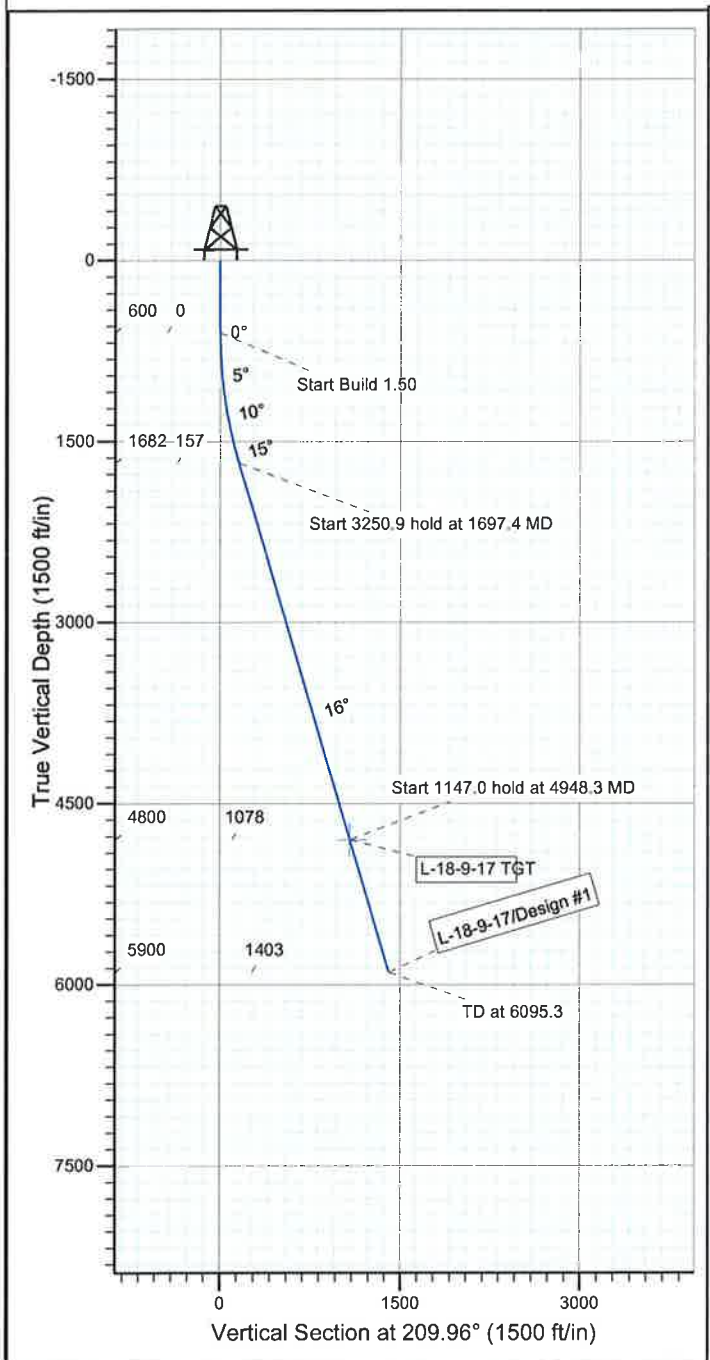
Project: USGS Myton SW (UT)
Site: SECTION 18 T9S R17E
Well: L-18-9-17
Wellbore: Wellbore #1
Design: Design #1

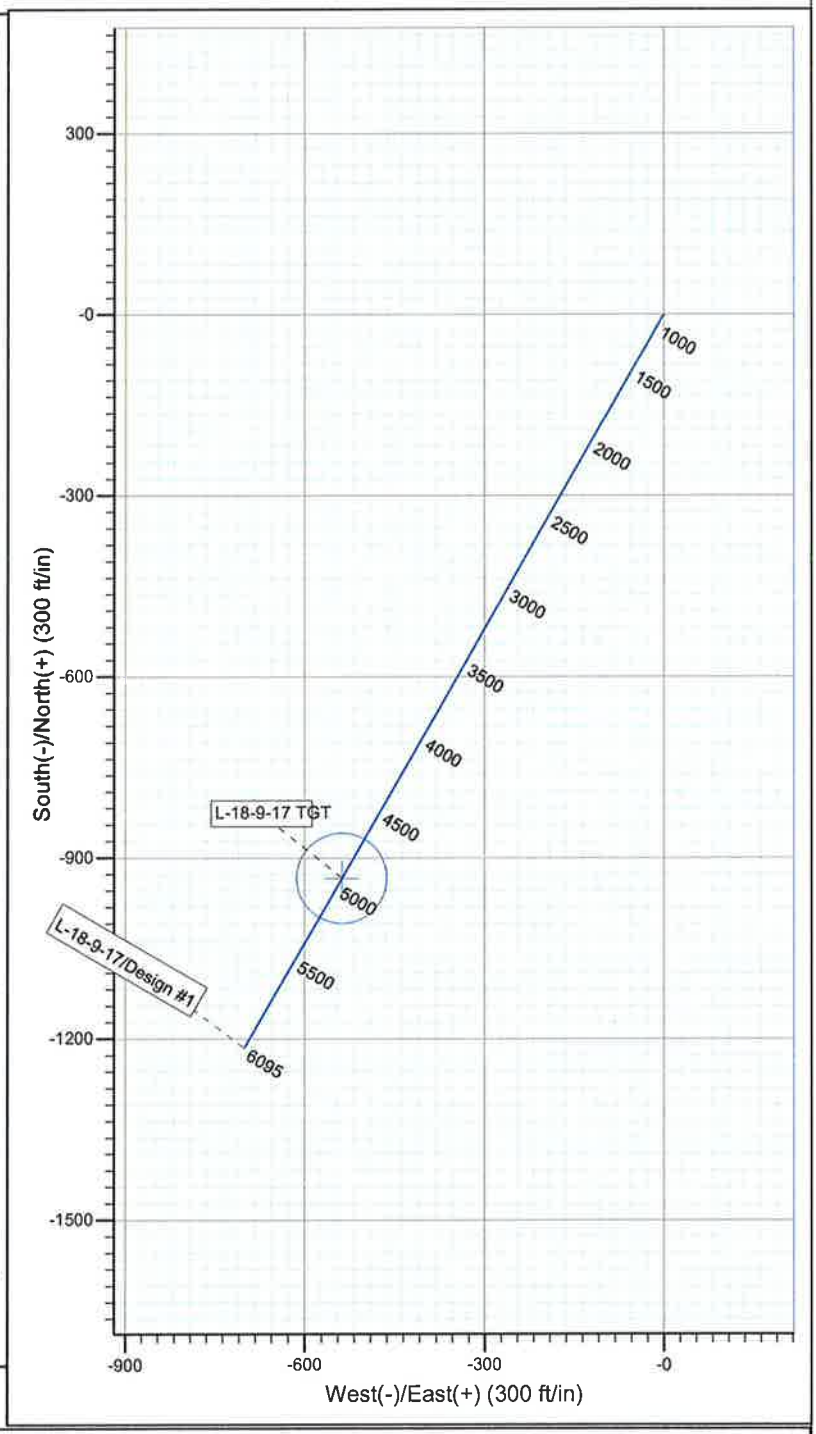
T G M

Azimuths to Grid North
True North: -0.93°
Magnetic North: 10.46°

Magnetic Field
Strength: 52341.9snT
Dip Angle: 65.81°
Date: 2010/09/13
Model: IGRF2010

KOP @ 600'
DOGLEG RATE 1.5 DEG/100
TARGET RADIUS IS 75'





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
L-18-9-17 TGT	4800.0	-933.7	-538.2	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	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1697.4	16.46	209.96	1682.4	-135.6	-78.2	1.50	209.96	156.6	
4	4948.3	16.46	209.96	4800.0	-933.7	-538.2	0.00	0.00	1077.7	L-18-9-17 TGT
5	6095.3	16.46	209.96	5900.0	-1215.3	-700.5	0.00	0.00	1402.8	

HATHAWAY BURNHAM
DIRECTIONAL & MWD SERVICES

'APIWellNo:43013504980000'

NEWFIELD

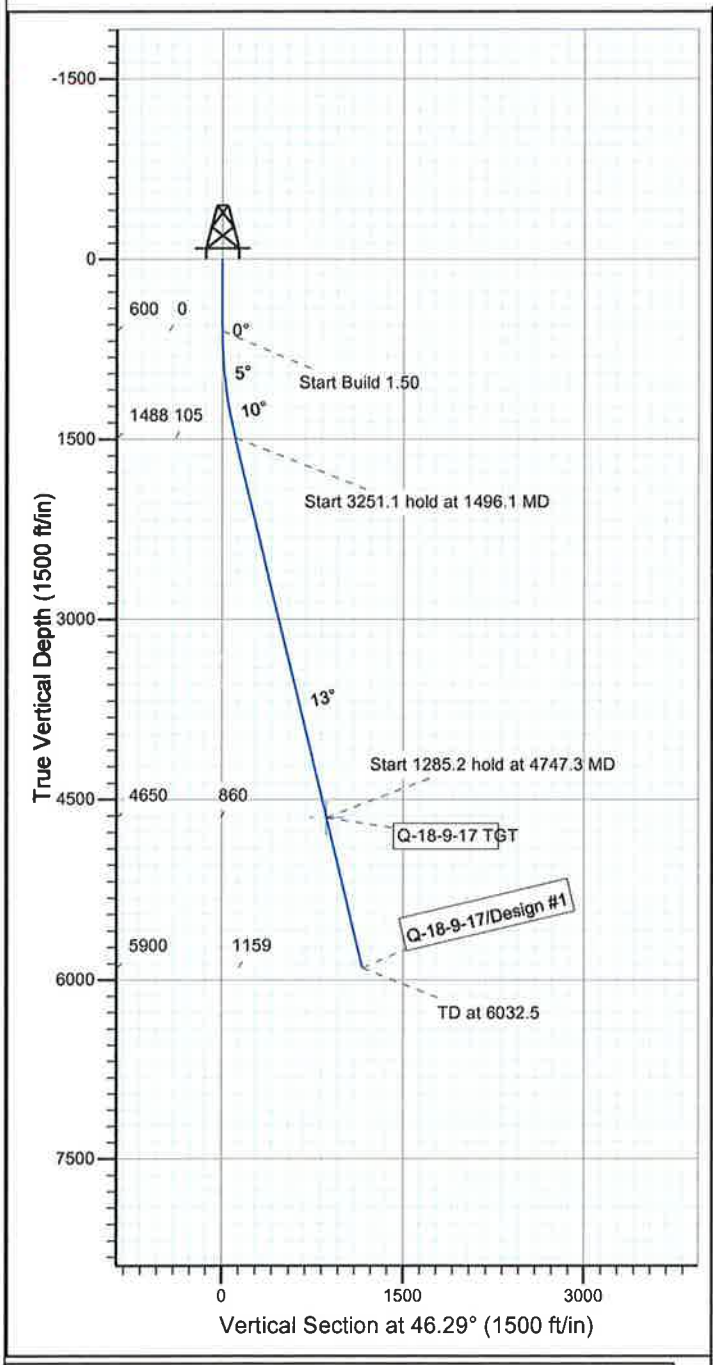
Project: USGS Myton SW (UT)
Site: SECTION 18 T9S R17E
Well: Q-18-9-17
Wellbore: Wellbore #1
Design: Design #1

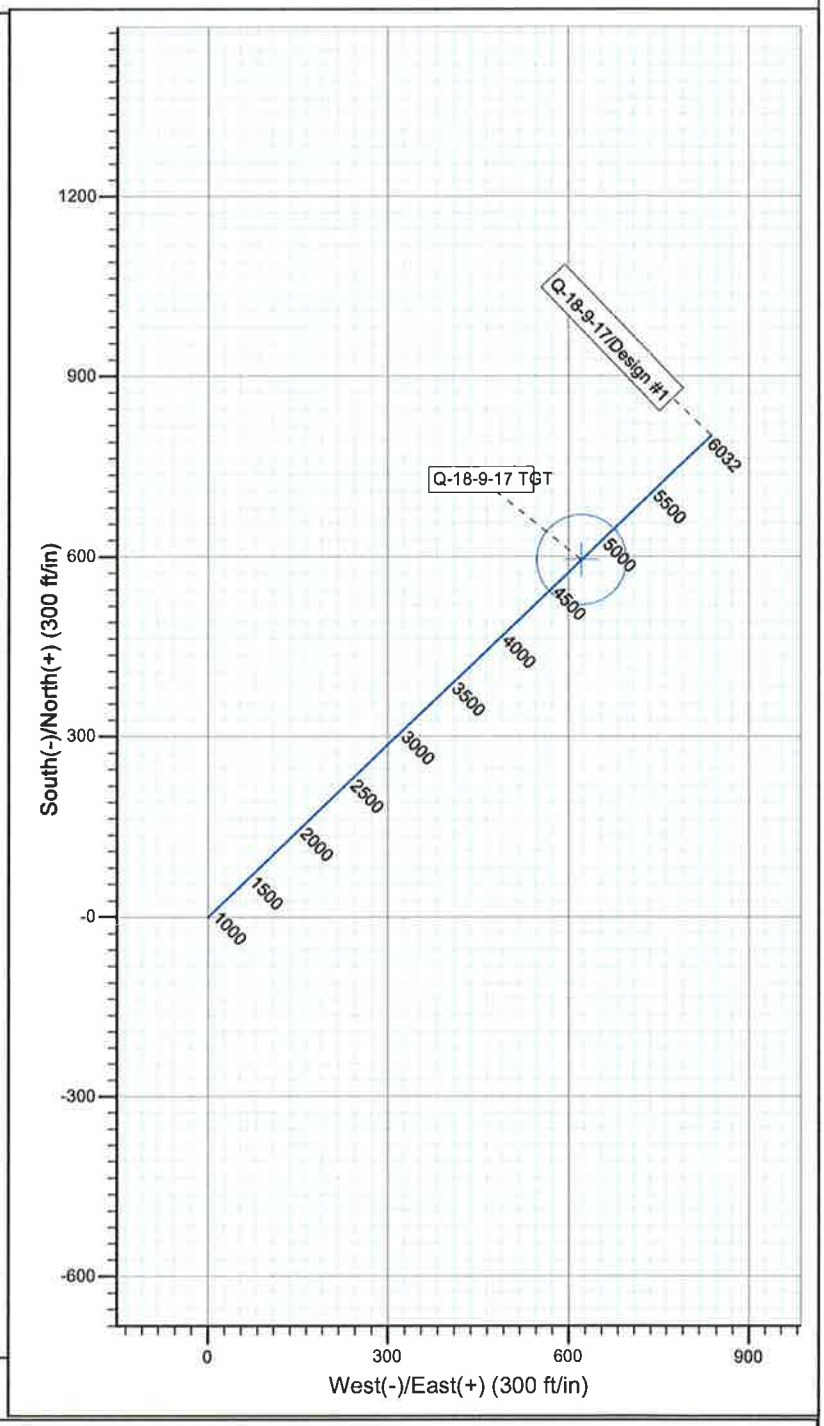
T G M

Azimuths to Grid North
True North: -0.92°
Magnetic North: 10.48°

Magnetic Field
Strength: 52334.4snT
Dip Angle: 65.80°
Date: 2010/09/15
Model: IGRF2010

KOP @ 600'
DOGLEG RATE 1.5 DEG/100
TARGET RADIUS IS 75'





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
Q-18-9-17 TGT	4650.0	594.5	621.9	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	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1496.1	13.44	46.29	1487.9	72.3	75.6	1.50	46.29	104.6	
4	4747.3	13.44	46.29	4650.0	594.5	621.9	0.00	0.00	860.4	Q-18-9-17 TGT
5	6032.5	13.44	46.29	5900.0	801.0	837.9	0.00	0.00	1159.1	

HATHAWAY BURNHAM
DIRECTIONAL & MWD SERVICES

'APIWellNo:43013504980000'

NEWFIELD

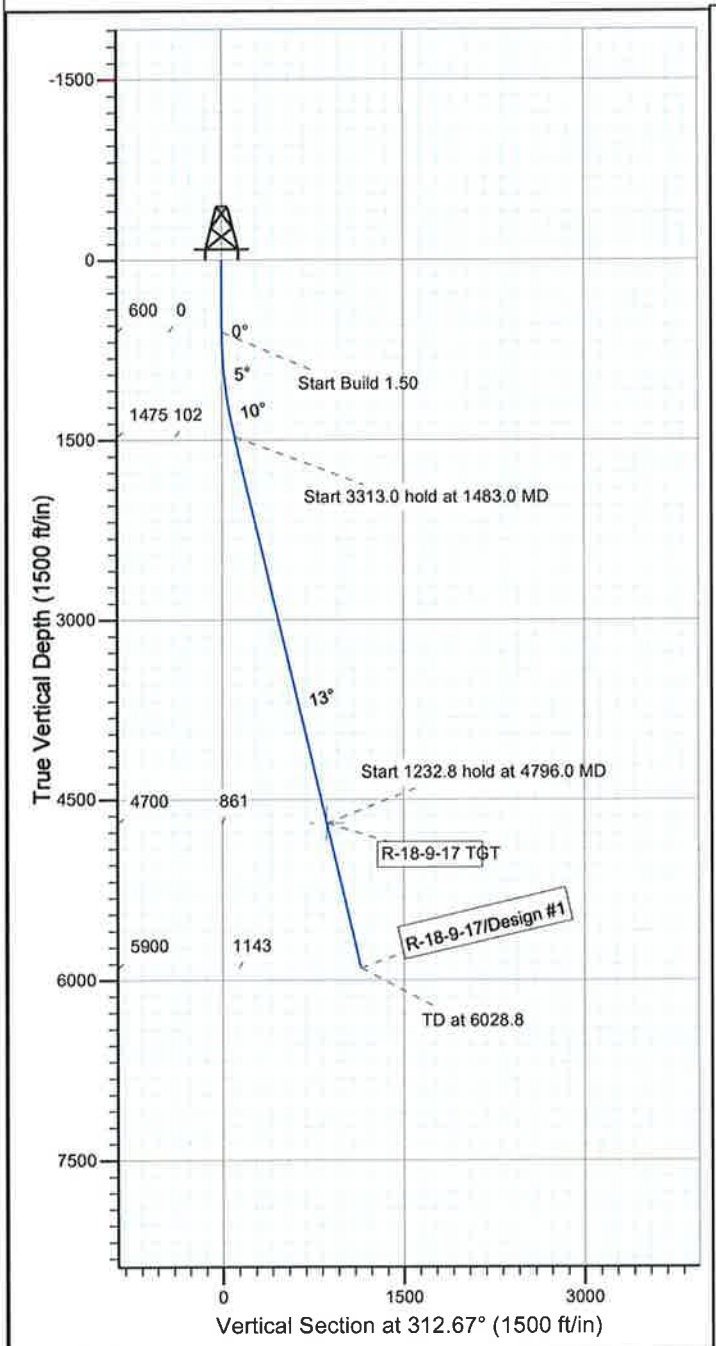
Project: USGS Myton SW (UT)
Site: SECTION 18 T9S R17E
Well: R-18-9-17
Wellbore: Wellbore #1
Design: Design #1

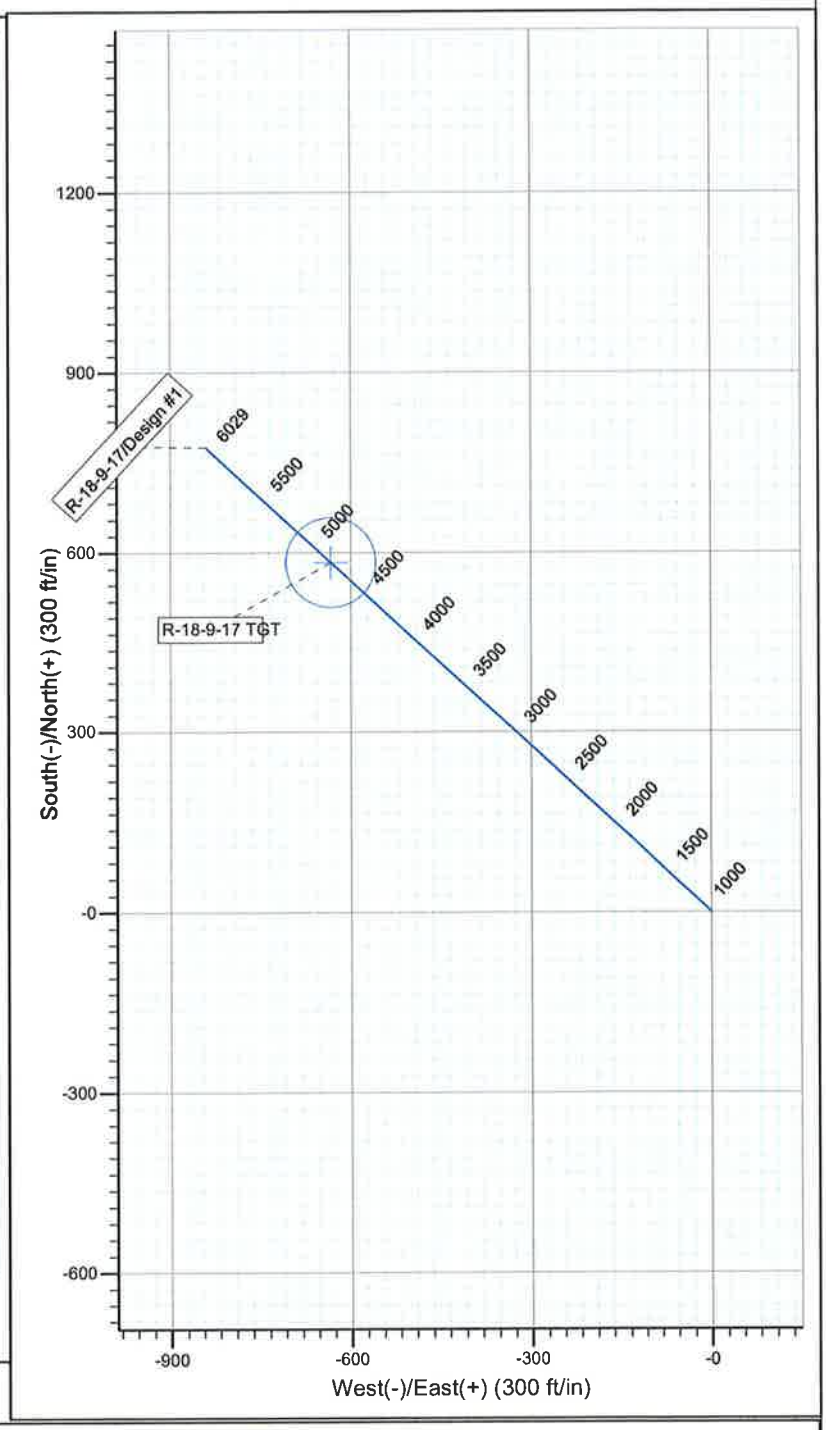
T G M

Azimuths to Grid North
True North: -0.93°
Magnetic North: 10.47°

Magnetic Field
Strength: 52336.1snT
Dip Angle: 65.80°
Date: 2010/09/15
Model: IGRF2010

KOP @ 600'
DOGLEG RATE 1.5 DEG/100
TARGET RADIUS IS 75'





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
R-18-9-17 TGT	4700.0	583.3	-632.8	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	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1483.0	13.25	312.67	1475.2	68.9	-74.7	1.50	312.67	101.6	
4	4796.0	13.25	312.67	4700.0	583.3	-632.8	0.00	0.00	860.7	R-18-9-17 TGT
5	6028.8	13.25	312.67	5900.0	774.8	-840.5	0.00	0.00	1143.1	

HATHAWAY BURNHAM
DIRECTIONAL & MWD SERVICES

'APIWellNo:43013504980000'

NEWFIELD

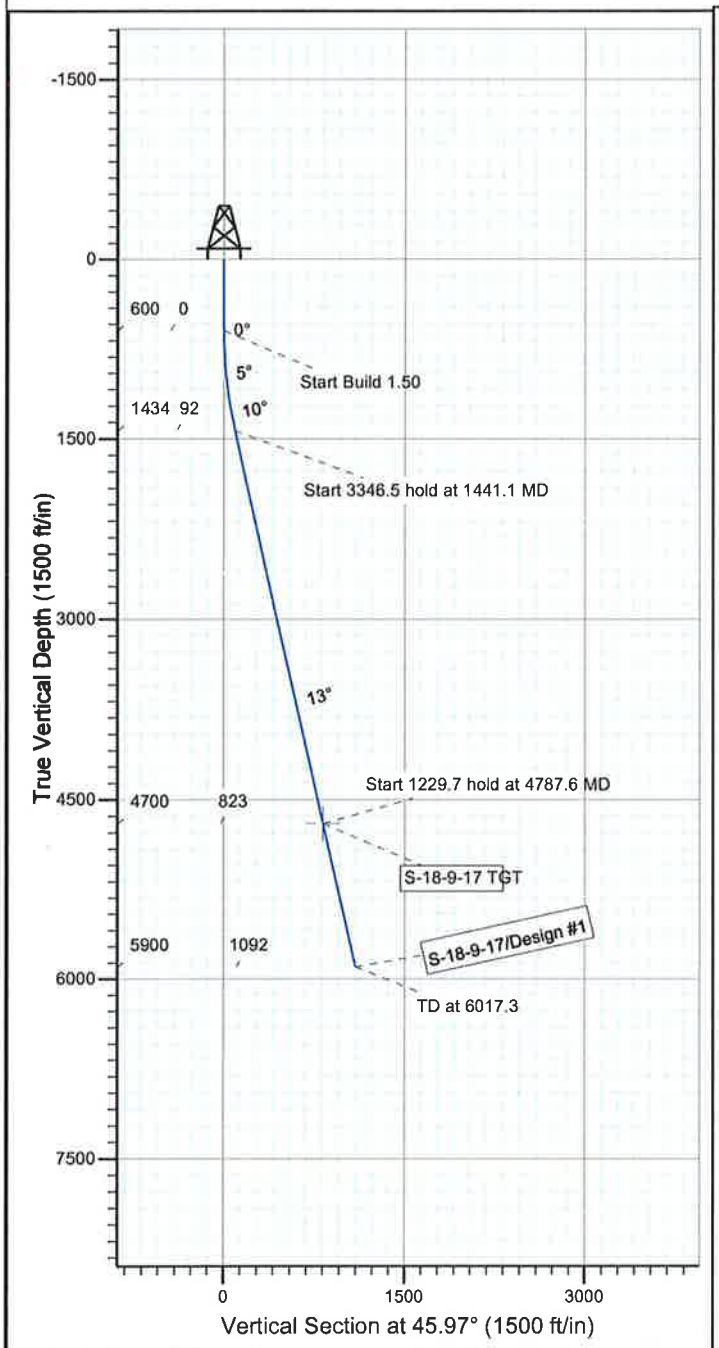
Project: USGS Myton SW (UT)
Site: SECTION 18 T9S R17E
Well: S-18-9-17
Wellbore: Wellbore #1
Design: Design #1

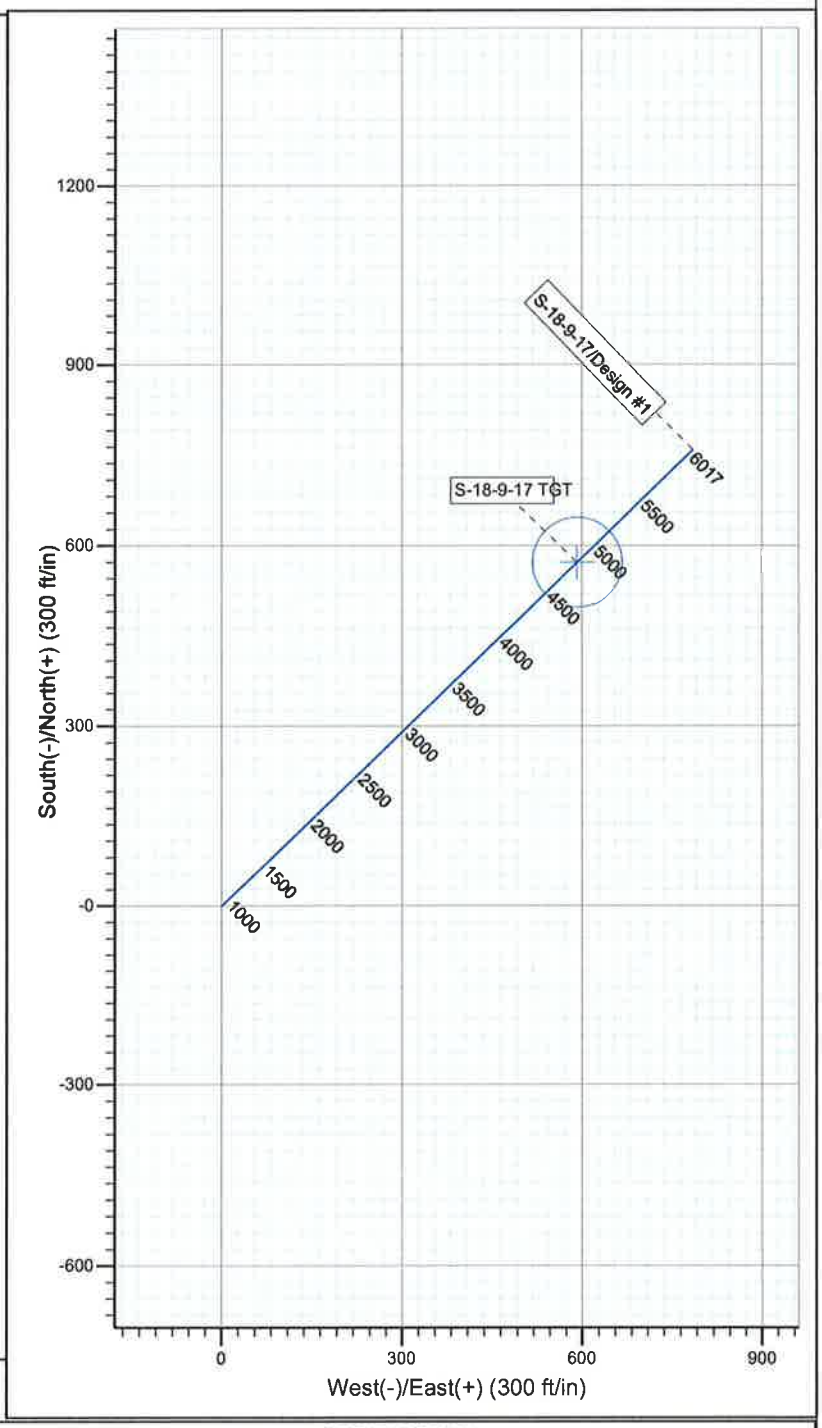
T G M

Azimuths to Grid North
True North: -0.93°
Magnetic North: 10.47°

Magnetic Field
Strength: 52336.1snT
Dip Angle: 65.80°
Date: 2010/09/15
Model: IGRF2010

KOP @ 600'
DOGLEG RATE 1.5 DEG/100
TARGET RADIUS IS 75'





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
S-18-9-17 TGT	4700.0	572.1	591.8	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	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1441.1	12.62	45.97	1434.3	64.1	66.3	1.50	45.97	92.2	
4	4787.6	12.62	45.97	4700.0	572.1	591.8	0.00	0.00	823.1	S-18-9-17 TGT
5	6017.3	12.62	45.97	5900.0	758.8	784.9	0.00	0.00	1091.7	

HATHAWAY BURNHAM
DIRECTIONAL & MWD SERVICES

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 11/22/2010 **API NO. ASSIGNED:** 43013504980000
WELL NAME: Greater Monument Butte S-17-9-17
OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695) **PHONE NUMBER:** 435 646-4825
CONTACT: Mandie Crozier

PROPOSED LOCATION: SWSE 17 090S 170E **Permit Tech Review:** ✔

SURFACE: 0699 FSL 1947 FEL **Engineering Review:** ☐

BOTTOM: 1412 FSL 1143 FEL **Geology Review:** ✔

COUNTY: DUCHESNE
LATITUDE: 40.02568 **LONGITUDE:** -110.02724
UTM SURF EASTINGS: 583007.00 **NORTHINGS:** 4430851.00
FIELD NAME: MONUMENT BUTTE
LEASE TYPE: 1 - Federal
LEASE NUMBER: UTU-72106 **PROPOSED PRODUCING FORMATION(S):** GREEN RIVER
SURFACE OWNER: 1 - Federal **COALBED METHANE:** NO

RECEIVED AND/OR REVIEWED:

- ✔ **PLAT**
- ✔ **Bond:** FEDERAL - WYB000493
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ✔ **Water Permit:** 437478
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☐ **Intent to Commingle**

Commingling 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: Suspends General Siting

- ✔ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations:
4 - Federal Approval - dmason
15 - Directional - dmason
27 - Other - bhill

GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

****

Well Name: Greater Monument Butte S-17-9-17
API Well Number: 43013504980000
Lease Number: UTU-72106
Surface Owner: FEDERAL
Approval Date: 12/6/2010

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

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

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

API Well No: 43013504980000

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:

For John Rogers
Associate Director, Oil & Gas

Form 3160-3
(August 2007)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No. UTU-72106

6. If Indian, Allotee or Tribe Name NA

1a. Type of work: ☑ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No. Greater Monument Butte

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

8. Lease Name and Well No. Greater Monument Butte S-17-9-17

2. Name of Operator Newfield Production Company

9. API Well No. 43 013 50498

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

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

10. Field and Pool, or Exploratory Monument Butte

4. Location of Well (Report location clearly and in accordance with any State requirements.*)
At surface SW/SE 699' FSL 1947' FEL Sec. 17, T9S R17E (UTU-72106)
At proposed prod. zone NE/SE 1412' FSL 1143' FEL Sec. 17, T9S R17E (UTU-44430)

11. Sec., T. R. M. or Blk. and Survey or Area Sec. 17, T9S R17E

14. Distance in miles and direction from nearest town or post office* Approximately 15.4 miles southeast of Myton, UT

12. County or Parish Duchesne

13. State UT

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 92' f/lse, NA' f/unit

16. No. of acres in lease 1,188.92

17. Spacing Unit dedicated to this well 20 Acres

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1587'

19. Proposed Depth 5,916'

20. BLM/BIA Bond No. on file WYB000493

21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5382' GL

22. Approximate date work will start* 1st Qtr. 2011

23. Estimated duration (7) days from SPUD to rig release

24. Attachments

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

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

25. Signature Mandie Crozier — Name (Printed/Typed) Mandie Crozier — Date 11/18/10

Title Regulatory Specialist

Approved by (Signature) — Name (Printed/Typed) Jerry Kenczka — Date OCT 05 2011

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

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

CONDITIONS OF APPROVAL ATTACHED

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

(Continued on page 2)

*(Instructions on page 2)

NOTICE OF APPROVAL

RECEIVED NOV 23 2011

RECEIVED OCT 21 2011 DIV. OF OIL, GAS & MINING

UDOGM

BLM VERNAL, UTAH

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE
170 South 500 East VERNAL, UT 84078 (435) 781-4400

CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	**Newfield Production Company**	**Location:**	**SWSE, Sec. 17, T9S, R17E (S)** **NESE, Sec. 17, T9S, R17E (B)**
Well No:	**Greater Monument Butte S-17-9-17**	**Lease No:**	**UTU-72106**
API No:	**43-013-50498**	**Agreement:**	**Greater Monument Butte Unit**

OFFICE NUMBER: (435) 781-4400
OFFICE FAX NUMBER: (435) 781-3420

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

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

NOTIFICATION REQUIREMENTS

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

SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.

- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.

- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

CONDITIONS OF APPROVAL:

- Prior to any surface disturbing activities between March 1st and August 31st, a BLM biologist or a BLM-approved contractor will survey all areas during April or May within a range of a half-mile from proposed surface disturbances for active raptor (ferruginous likely) nests. If occupied/ active raptor nests are found, construction will not occur during the nesting season for that species within the half-mile buffer.

- White-tailed prairie dog burrows and animals sighted will be recorded/ mapped while conducting burrowing owl surveys. These shall be conducted according to protocol.

- Mountain plover surveys will be conducted to protocol by a professional environmental consulting firm biologist prior to any ground disturbing activities. Reports from survey results must be reviewed by a BLM authorized officer prior to proceeding with the project.

- After cessation of drilling and completion operations, any visible or measurable layer of oil must be removed from the surface of the reserve pit and the pit kept free of oil.

- Pits must be free of oil and other liquid and solid wastes prior to filling. Pit liners must not be breached (cut) or filled (squeezed) while still containing fluids. The pit liner must be removed to the solids level or treated to prevent its reemergence to the surface or its interference with long-term successful re-vegetation.

Reclamation

- Reclamation will be completed in accordance with the Newfield Exploration Company Castle Peak and Eight Mile Flat Reclamation Plan on file with the Vernal Field Office of the BLM.

- The reclamation seed mix will incorporate low growing grasses, instead of crested wheatgrass, which negatively impacts mountain plover habitat.

- Appropriate erosion control and re-vegetation will be employed. In areas with unstable soils where seeding alone may not adequately control erosion, grading will be used to minimize slopes and water bars will be installed on disturbed slopes. Erosion control efforts will be monitored by Newfield and, if necessary, modifications will be made to control erosion.

Seed Mix (Interim and Final Reclamation)

Common Name	Latin Name	Pure Live Seed (lbs/acre)	Seed Planting Depth
Squirreltail grass	*Elymus elymoides*	2.0	¼ - ½"
Needle and thread grass	*Hesperostipa comata*	2.0	½"
Siberian Wheatgrass	*Agropyron fragile*	2.0	½"
Shadscale saltbush	*Atriplex confertifolia*	2.0	½"
Four-wing saltbush	*Atriplex canescens*	2.0	½"
Gardner's saltbush	*Atriplex gardneri*	2.0	½"
Blue flax (Lewis flax)	*Linum lewisii*	1.0	⅛ – ¼"

- All pounds are pure live seed.
- All seed and mulch will be certified weed free.
- Rates are set for drill seeding; double rate if broadcasting.

Monitoring and Reporting

- The operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) that designates the proposed site-specific monitoring and reference sites chosen for the location. A description of the proposed sites shall be included, as well as a map showing the locations of the proposed sites.

- The operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) three (3) growing seasons after reclamation efforts have occurred evaluating the status of the reclaimed areas in order to determine whether the BLM standards set forth in the Green River District Reclamation Guidelines have been met (30% or greater basal cover).

DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

- Newfield Production Co. shall comply with all applicable requirements in the SOP (version: "Greater Monument Butte Green River Development Program", June 24, 2008). The operator shall also comply with applicable laws and regulations; with the lease terms, Onshore Oil and Gas Orders, NTL's; and with other orders and instructions of the authorized officer.

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

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.

- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.

- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**

- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.

- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.

- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:

    - Operator name, address, and telephone number.
    - Well name and number.
    - Well location (¼¼, Sec., Twn, Rng, and P.M.).
    - Date well was placed in a producing status (date of first production for which royalty will be paid).
    - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
    - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
    - Unit agreement and/or participating area name and number, if applicable.
    - Communitization agreement number, if applicable.

- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.

- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.

- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.

- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.

- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.

- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.

- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-72106

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.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: GREATER MON BUTTE S-17-9-17

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

9. API NUMBER: 43013504980000

3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052

PHONE NUMBER: 435 646-4825 Ext

9. FIELD and POOL or WILDCAT: MONUMENT BUTTE

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0699 FSL 1947 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 17 Township: 09.0S Range: 17.0E Meridian: S

COUNTY: DUCHESNE

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 12/6/2011	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	✓ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

Newfield proposes to extend the Application for Permit to Drill this well.

Approved by the Utah Division of Oil, Gas and Mining

Date: 11/23/2011

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Mandie Crozier	435 646-4825	Regulatory Tech

SIGNATURE	DATE
N/A	11/9/2011

RECEIVED Nov. 09, 2011

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43013504980000

API: 43013504980000
Well Name: GREATER MON BUTTE S-17-9-17
Location: 0699 FSL 1947 FEL QTR SWSE SEC 17 TWNP 090S RNG 170E MER S
Company Permit Issued to: NEWFIELD PRODUCTION COMPANY
Date Original Permit Issued: 12/6/2010

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- **If located on private land, has the ownership changed, if so, has the surface agreement been updated?** ○ **Yes** ◉ **No**
- **Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?** ○ **Yes** ◉ **No**
- **Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?** ○ **Yes** ◉ **No**
- **Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?** ○ **Yes** ◉ **No**
- **Has the approved source of water for drilling changed?** ○ **Yes** ◉ **No**
- **Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?** ○ **Yes** ◉ **No**
- **Is bonding still in place, which covers this proposed well?** ◉ **Yes** ○ **No**

Signature: Mandie Crozier **Date:** 11/9/2011
Title: Regulatory Tech **Representing:** NEWFIELD PRODUCTION COMPANY

RECEIVED Nov. 09, 2011

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# 26 Submitted By Mike Braithwaite Phone Number 435-401-8392
Well Name/Number S-17-9-17
Qtr/Qtr SW/SE Section 17 Township 9S Range 17E
Lease Serial Number UTU-72106
API Number 43-013-50498

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

Date/Time 12/30/2011 4:00 AM ☐ PM ☒

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

☒ Surface Casing
☐ Intermediate Casing
☐ Production Casing
☐ Liner
☐ Other

Date/Time 12/31/2011 11:00 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 _____

FORM 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on page 2

5. Lease Serial No.
USA UTU-72106

6. If Indian, Allottee or Tribe Name.

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

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
GRTR MON BUTTE S-17-9-17

2. Name of Operator
NEWFIELD PRODUCTION COMPANY

9. API Well No.
4301350498

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

3b. Phone *(include are code)*
435.646.3721

10. Field and Pool, or Exploratory Area
GREATER MB UNIT

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
0699 FSL 1947 FEL
Section 17 T9S R17E

11. County or Parish, State
DUCHESNE, UT

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

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

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

On 12/30/11 MIRU Ross #29. Spud well @9:00 AM. Drill 310' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24# csgn. Set @ 311.52. On 1/5/12 cement with 170 sks of class "G" w/ 2% CaCL2 + 0.25#/sk Cello- Flake Mixed @ 15.8ppg w/ 1.17ft3/sk yield. Returned 5 barrels cement to pit. WOC.

RECEIVED
JAN 24 2012
DIV. OF OIL, GAS & MINING

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

Title

Signature

Date
01/06/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by ..... Title ..... Date

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

Office

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

(Instructions on page 2)

Casing / Liner Detail

Well	GMBU S-17-9-17
Prospect	Monument Butte
Foreman	
Run Date:	12/30/2011
String Type	Conductor, 14", 36.7#, H-40, W (Welded)

- Detail From Top To Bottom -

Depth	*Length*	*JTS*	*Description*	*OD*	*ID*
13.00	5.00	1	14" Conductor	14.000	

Cement Detail

Cement Company:

Slurry	# of Sacks	Weight (ppg)	Yield	Volume (ft^3)	Description - Slurry Class and Additives

Stab-In-Job?	
BHT:	0
Initial Circulation Pressure:	
Initial Circulation Rate:	
Final Circulation Pressure:	
Final Circulation Rate:	
Displacement Fluid:	
Displacement Rate:	
Displacement Volume:	
Mud Returns:	
Centralizer Type And Placement:	

Cement To Surface?	
Est. Top of Cement:	
Plugs Bumped?	
Pressure Plugs Bumped:	
Floats Holding?	
Casing Stuck On / Off Bottom?	
Casing Reciprocated?	
Casing Rotated?	
CIP:	
Casing Wt Prior To Cement:	
Casing Weight Set On Slips:	

Casing / Liner Detail

Well	GMBU S-17-9-17
Prospect	Monument Butte
Foreman	
Run Date:	12/30/2011
String Type	Surface, 8.625", 24#, J-55, STC (Generic)

- Detail From Top To Bottom -

Depth	Length	JTS	Description	OD	ID
310.10	1.42		Wellhead		
311.52	-2.00		Cutoff Piece		
13.00	255.45	6	8 5/8 Surface Casing	8.620	
268.45	40.75	1	Shoe Jt	8.620	
309.20	0.90		Guide Shoe		
309.52			KB Depth		

Cement Detail

Cement Company: BJ

Slurry	# of Sacks	Weight (ppg)	Yield	Volume (ft^3)	Description - Slurry Class and Additives
Slurry 1	170	15.8	1.17	198.9	class G+2%kcl+.25#CF mixed @ 15.8 ppg and 1.17 yield

Stab-In-Job?	No
BHT:	0
Initial Circulation Pressure:	
Initial Circulation Rate:	
Final Circulation Pressure:	
Final Circulation Rate:	
Displacement Fluid:	Water
Displacement Rate:	
Displacement Volume:	16.3
Mud Returns:	
Centralizer Type And Placement:	

Cement To Surface?	Yes
Est. Top of Cement:	0
Plugs Bumped?	Yes
Pressure Plugs Bumped:	120
Floats Holding?	No
Casing Stuck On / Off Bottom?	No
Casing Reciprocated?	No
Casing Rotated?	No
CIP:	10:39
Casing Wt Prior To Cement:	
Casing Weight Set On Slips:	

Middle of first, top of second & third for a total of three

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 QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE
B	99999	17400	4301350497	GMBU R-17-9-17	SWSE	17	9S	17E	DUCHESNE	12/30/2011	1/31/12

WELL 1 COMMENTS:
GRRV BHL: NESW

ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE
B	99999	17400	4301350498	GMBU S-17-9-17	SWSE ~~NESE~~	17	9S	17E	DUCHESNE	12/30/2011	1/31/12

GRRV BHL: NESE

ACTION B	CURRENT ENTITY NO	NEW ENTITY NO	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE
B	99999	17400	4301350582	GMBU H-5-9-17	SENW	5	9S	17E	DUCHESNE	1/6/2012	1/31/12

GRRV BHL: NWNE

ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE
B	99999	17400	4301350583	GMBU M-5-9-17	SENW ~~NWSE~~	5	9S	17E	DUCHESNE	1/6/2012	1/31/12

GRRV BHL: NWSE

ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE
B	99999	17400	4301350584	GMBU W-31-8-17	NENW ~~SWSE~~	6 ~~31~~	9S ~~8S~~	17E	DUCHESNE	1/10/2012	1/31/12

GRRV BHL: S 31 T 8S SWSE

ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE
B	99999	17400	4301350587	GMBU X-31-8-17	NENW ~~SWSW~~	6 ~~31~~	9S ~~8S~~	17E	DUCHESNE	1/10/2012	1/31/12

GRRV BHL: S:31 T:8S SWSW

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

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

RECEIVED
JAN 19 2012
DIV. OF OIL, GAS & MINING

Signature: Jentri Park
Production Clerk 01/19/12

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-72106

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.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: GREATER MON BUTTE S-17-9-17

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

9. API NUMBER: 43013504980000

3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052

PHONE NUMBER: 435 646-4825 Ext

9. FIELD and POOL or WILDCAT: MONUMENT BUTTE

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0699 FSL 1947 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 17 Township: 09.0S Range: 17.0E Meridian: S

COUNTY: DUCHESNE

STATE: UTAH

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

TYPE OF SUBMISSION

- ☐ NOTICE OF INTENT — Approximate date work will start:
- ☐ SUBSEQUENT REPORT — Date of Work Completion:
- ☐ SPUD REPORT — Date of Spud:
- ✓ DRILLING REPORT — Report Date: 3/2/2012

TYPE OF ACTION

☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
✓ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

The above well was placed on production on 02/24/2012 at 18:00 hours, and placed on pump on 03/01/2012 at 18:00 hours.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
April 03, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jennifer Peatross	435 646-4885	Production Technician

SIGNATURE	DATE
N/A	4/2/2012

RECEIVED: Apr. 02, 2012

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.: UTU-72106

1a. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☑ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr., Other: _____

6. If Indian, Allottee or Tribe Name: NA
7. Unit or CA Agreement Name and No.: GMBU (GRRV)
8. Lease Name and Well No.: GMBU S-17-9-17

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
9. AFI Well No.: 43-013-50498

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface 699' FSL & 1947' FEL (SW/SE) SEC. 17, T9S, R17E (UTU-72106)
At top prod. interval reported below 1145' FSL & 1454' FEL (SW/SE) SEC. 17, T9S, R17E (UTU-72106)
At total depth 1414' FSL & 1164' FEL (NE/SE) SEC. 17, T9S, R17E (UTU-44430) BHL by HSM

10. Field and Pool or Exploratory: MONUMENT BUTTE
11. Sec., T., R., M., on Block and Survey or Area: SEC. 17, T9S, R17E
12. County or Parish: DUCHESNE
13. State: UT

14. Date Spudded: 12/30/2011
15. Date T.D. Reached: 02/05/2012
16. Date Completed: 03/01/2012 ☐ D & A ☑ Ready to Prod.
17. Elevations (DF, RKB, RT, GL)*: 5382' GL 5395' KB

18. Total Depth: MD 5915' TVD 5801'
19. Plug Back T.D.: MD 5897' TVD 5783
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 Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24#	0	310'		170 CLASS "G"			
7-7/8"	5-1/2" J-55	15.5#	0	5913'		215 PRIMLITE		95'	
						425 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@ 5730'	TA @ 5632'						

25. Producing Intervals

Formation	Top	Bottom
A) Green River	4030'	5670'
B)		
C)		
D)		

26. Perforation Record

Perforated Interval	Size	No. Holes	Perf. Status
4030-5670'	.34"	87	

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

Depth Interval	Amount and Type of Material
4030-5670'	Frac w/ 323736# 20/40 white sand and 2601 bbls Lightning 17 fluid, in 5 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
3/2/12	3/12/12	24	→	41	26	45			2-1/2" x 1-3/4" x 20' x 21' x 24' RHBC 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
			→					

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

RECEIVED
JUN 21 2012
DIV. OF OIL, GAS & MINING

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.)*

SOLD AND 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	4030'	5670'		GARDEN GULCH MARKER	3477'
				GARDEN GULCH 1	3682'
				GARDEN GULCH 2	3801'
				POINT 3 MARKER	4076'
				X MRKR	4328'
				Y MRKR	4362'
				DOUGLAS CREEK MRKR	4488'
				BI-CARBONATE	4730'
				B LIMESTONE	4853'
				CASTLE PEAK	5347'
				BASAL CARBONATE	5785'

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:

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)* Jennifer Peatross Title Production Technician

Signature Peatross Date 04/04/2012

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

(Continued on page 3)

NEWFIELD EXPLORATION

USGS Myton SW (UT)
SECTION 17 T9S, R17E
S-17-9-17

Wellbore #1

Design: Actual

Standard Survey Report

18 February, 2012

NEWFIELD

Payzone Directional

Survey Report

Company:	NEWFIELD EXPLORATION	**Local Co-ordinate Reference:**	Well S-17-9-17
Project:	USGS Myton SW (UT)	**TVD Reference:**	S-17-9-17 @ 5394.0ft (Capstar 328)
Site:	SECTION 17 T9S, R17E	**MD Reference:**	S-17-9-17 @ 5394.0ft (Capstar 328)
Well:	S-17-9-17	**North Reference:**	True
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Actual	**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 17 T9S, R17E, SEC 17 T9S, R17E

Site Position:		**Northing:**	7,183,359.00 ft	**Latitude:**	40° 1' 51.244 N
From:	Lat/Long	**Easting:**	2,051,842.00 ft	**Longitude:**	110° 1' 50.196 W
Position Uncertainty:	0.0 ft	**Slot Radius:**	"	**Grid Convergence:**	0.94 °

Well S-17-9-17, SHL LAT: 40° 01' 32.24, LONG: -110° 01' 40.68

Well Position	**+N/-S**	0.0 ft	**Northing:**	7,181,448.56 ft	**Latitude:**	40° 1' 32.240 N
	+E/-W	0.0 ft	**Easting:**	2,052,613.73 ft	**Longitude:**	110° 1' 40.680 W
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	5,394.0 ft	**Ground Level:**	5,382.0 ft

Wellbore Wellbore #1

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010	9/7/2010	11.39	65.81	52,342

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	47.47

Survey Program **Date** 2/18/2012

From (ft)	**To (ft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
313.0	5,915.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard

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
313.0	1.10	346.20	313.0	2.9	-0.7	1.4	0.35	0.35	0.00
343.0	0.90	356.10	343.0	3.4	-0.8	1.7	0.88	-0.67	33.00
374.0	1.10	347.40	374.0	4.0	-0.9	2.0	0.81	0.65	-28.06
404.0	1.20	350.60	404.0	4.6	-1.0	2.3	0.40	0.33	10.67
434.0	1.30	0.80	434.0	5.2	-1.0	2.8	0.81	0.33	34.00
465.0	1.40	3.00	464.9	5.9	-1.0	3.3	0.36	0.32	7.10
496.0	1.50	11.40	495.9	6.7	-0.9	3.9	0.76	0.32	27.10
526.0	1.50	32.50	525.9	7.4	-0.6	4.6	1.83	0.00	70.33
557.0	1.60	38.70	556.9	8.1	-0.1	5.4	0.63	0.32	20.00
588.0	1.80	44.20	587.9	8.8	0.5	6.3	0.83	0.65	17.74
619.0	1.90	48.60	618.9	9.5	1.2	7.3	0.56	0.32	14.19
649.0	2.20	50.90	648.9	10.2	2.0	8.4	1.04	1.00	7.67

Company:	NEWFIELD EXPLORATION	**Local Co-ordinate Reference:**	Well S-17-9-17
Project:	USGS Myton SW (UT)	**TVD Reference:**	S-17-9-17 @ 5394.0ft (Capstar 328)
Site:	SECTION 17 T9S, R17E	**MD Reference:**	S-17-9-17 @ 5394.0ft (Capstar 328)
Well:	S-17-9-17	**North Reference:**	True
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Actual	**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)
680.0	2.30	47.60	679.8	11.0	2.9	9.6	0.53	0.32	-10.65
711.0	2.30	51.80	710.8	11.8	3.9	10.8	0.54	0.00	13.55
741.0	2.80	50.90	740.8	12.6	4.9	12.2	1.67	1.67	-3.00
772.0	2.80	51.00	771.8	13.6	6.1	13.7	0.02	0.00	0.32
803.0	3.20	48.00	802.7	14.6	7.3	15.3	1.39	1.29	-9.68
833.0	3.30	50.60	832.7	15.7	8.6	17.0	0.59	0.33	8.67
878.0	3.70	53.10	877.6	17.4	10.8	19.7	0.95	0.89	5.56
923.0	4.30	52.00	922.5	19.3	13.3	22.8	1.34	1.33	-2.44
969.0	4.70	49.40	968.3	21.6	16.1	26.5	0.98	0.87	-5.65
1,014.0	5.30	51.60	1,013.2	24.1	19.1	30.4	1.40	1.33	4.89
1,059.0	5.70	52.10	1,057.9	26.8	22.5	34.7	0.90	0.89	1.11
1,105.0	6.20	50.30	1,103.7	29.8	26.2	39.4	1.16	1.09	-3.91
1,150.0	6.70	50.60	1,148.4	33.0	30.1	44.5	1.11	1.11	0.67
1,195.0	7.10	52.00	1,193.1	36.4	34.3	49.9	0.96	0.89	3.11
1,240.0	7.60	54.20	1,237.7	39.8	38.9	55.6	1.27	1.11	4.89
1,286.0	8.40	53.90	1,283.3	43.6	44.1	62.0	1.74	1.74	-0.65
1,331.0	8.70	52.00	1,327.8	47.6	49.4	68.6	0.92	0.67	-4.22
1,376.0	9.20	50.50	1,372.2	52.0	54.9	75.6	1.23	1.11	-3.33
1,422.0	9.50	50.20	1,417.6	56.8	60.7	83.1	0.66	0.65	-0.65
1,467.0	9.90	48.00	1,462.0	61.7	66.4	90.6	1.21	0.89	-4.89
1,512.0	10.40	47.90	1,506.3	67.0	72.3	98.6	1.11	1.11	-0.22
1,557.0	10.70	45.80	1,550.5	72.7	78.3	106.8	1.08	0.67	-4.67
1,603.0	11.00	46.50	1,595.7	78.7	84.5	115.5	0.71	0.65	1.52
1,648.0	10.90	45.90	1,639.9	84.6	90.7	124.0	0.34	-0.22	-1.33
1,693.0	11.20	45.10	1,684.0	90.6	96.8	132.6	0.75	0.67	-1.78
1,739.0	12.10	45.70	1,729.1	97.2	103.5	141.9	1.97	1.96	1.30
1,784.0	13.20	44.90	1,773.0	104.1	110.5	151.8	2.48	2.44	-1.78
1,829.0	13.30	45.90	1,816.8	111.3	117.8	162.1	0.56	0.22	2.22
1,875.0	13.50	45.50	1,861.5	118.8	125.4	172.7	0.48	0.43	-0.87
1,920.0	14.10	47.20	1,905.2	126.2	133.2	183.5	1.61	1.33	3.78
1,965.0	14.20	49.20	1,948.9	133.5	141.4	194.5	1.11	0.22	4.44
2,011.0	14.00	50.00	1,993.5	140.8	149.9	205.6	0.61	-0.43	1.74
2,056.0	14.00	49.10	2,037.2	147.8	158.2	216.5	0.48	0.00	-2.00
2,101.0	13.80	49.90	2,080.8	154.9	166.4	227.3	0.62	-0.44	1.78
2,146.0	13.60	51.40	2,124.6	161.6	174.7	238.0	0.91	-0.44	3.33
2,191.0	13.60	49.80	2,168.3	168.3	182.9	248.5	0.84	0.00	-3.56
2,236.0	13.70	47.60	2,212.0	175.3	190.8	259.2	1.17	0.22	-4.89
2,282.0	13.80	45.80	2,256.7	182.8	198.8	270.1	0.96	0.22	-3.91
2,327.0	13.30	46.60	2,300.4	190.1	206.4	280.6	1.19	-1.11	1.78
2,372.0	12.70	45.60	2,344.3	197.2	213.7	290.7	1.42	-1.33	-2.22
2,418.0	12.60	45.90	2,389.2	204.2	220.9	300.8	0.26	-0.22	0.65
2,463.0	12.90	47.40	2,433.1	211.0	228.1	310.7	0.99	0.67	3.33
2,508.0	13.40	50.50	2,476.9	217.7	235.9	321.0	1.92	1.11	6.89
2,554.0	14.30	51.30	2,521.6	224.7	244.4	332.0	2.00	1.96	1.74
2,599.0	14.50	52.20	2,565.1	231.6	253.2	343.1	0.67	0.44	2.00
2,644.0	14.20	50.50	2,608.7	238.5	261.9	354.2	1.15	-0.67	-3.78
2,690.0	13.90	50.00	2,653.4	245.7	270.5	365.4	0.70	-0.65	-1.09
2,735.0	13.50	48.80	2,697.1	252.6	278.6	376.1	1.09	-0.89	-2.67
2,780.0	14.20	50.00	2,740.8	259.6	286.8	386.8	1.68	1.56	2.67
2,825.0	13.60	48.10	2,784.5	266.7	294.9	397.6	1.68	-1.33	-4.22
2,871.0	12.70	46.70	2,829.2	273.8	302.6	408.1	2.08	-1.96	-3.04
2,916.0	12.40	45.80	2,873.2	280.6	309.7	417.9	0.80	-0.67	-2.00
2,961.0	12.90	46.90	2,917.1	287.4	316.8	427.7	1.23	1.11	2.44
3,007.0	13.40	49.50	2,961.9	294.3	324.6	438.2	1.68	1.09	5.65

Company:	NEWFIELD EXPLORATION	**Local Co-ordinate Reference:**	Well S-17-9-17
Project:	USGS Myton SW (UT)	**TVD Reference:**	S-17-9-17 @ 5394.0ft (Capstar 328)
Site:	SECTION 17 T9S, R17E	**MD Reference:**	S-17-9-17 @ 5394.0ft (Capstar 328)
Well:	S-17-9-17	**North Reference:**	True
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Actual	**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)
3,052.0	13.20	51.00	3,005.7	300.9	332.6	448.5	0.89	-0.44	3.33
3,097.0	12.40	50.80	3,049.5	307.2	340.3	458.5	1.78	-1.78	-0.44
3,143.0	11.90	48.00	3,094.5	313.5	347.7	468.1	1.68	-1.09	-6.09
3,188.0	11.60	46.60	3,138.6	319.7	354.4	477.3	0.92	-0.67	-3.11
3,233.0	11.70	43.90	3,182.6	326.1	360.9	486.4	1.23	0.22	-6.00
3,279.0	12.00	43.30	3,227.7	333.0	367.4	495.8	0.71	0.65	-1.30
3,324.0	11.50	43.60	3,271.7	339.6	373.7	504.9	1.12	-1.11	0.67
3,369.0	10.90	44.50	3,315.9	345.9	379.7	513.7	1.39	-1.33	2.00
3,415.0	9.80	47.90	3,361.1	351.6	385.7	521.9	2.73	-2.39	7.39
3,460.0	9.90	54.80	3,405.5	356.4	391.7	529.6	2.63	0.22	15.33
3,505.0	10.30	58.60	3,449.8	360.8	398.3	537.4	1.73	0.89	8.44
3,551.0	11.20	55.20	3,495.0	365.5	405.5	545.8	2.39	1.96	-7.39
3,596.0	12.20	51.70	3,539.0	370.9	412.8	554.9	2.72	2.22	-7.78
3,641.0	12.70	51.20	3,583.0	376.9	420.4	564.6	1.14	1.11	-1.11
3,687.0	13.50	49.20	3,627.8	383.6	428.4	575.0	2.00	1.74	-4.35
3,732.0	14.40	47.40	3,671.4	390.8	436.5	585.9	2.22	2.00	-4.00
3,777.0	15.00	47.50	3,715.0	398.6	444.9	597.3	1.33	1.33	0.22
3,822.0	15.30	46.00	3,758.4	406.6	453.5	609.0	1.10	0.67	-3.33
3,868.0	14.70	46.40	3,802.8	414.9	462.1	620.9	1.32	-1.30	0.87
3,913.0	14.30	45.70	3,846.4	422.7	470.2	632.2	0.97	-0.89	-1.56
3,958.0	13.70	43.40	3,890.1	430.4	477.8	643.1	1.82	-1.33	-5.11
4,003.0	13.80	43.90	3,933.8	438.2	485.2	653.7	0.35	0.22	1.11
4,048.0	14.20	44.30	3,977.4	446.0	492.8	664.6	0.91	0.89	0.89
4,094.0	14.10	46.10	4,022.0	453.9	500.7	675.8	0.98	-0.22	3.91
4,139.0	13.60	48.00	4,065.7	461.3	508.6	686.6	1.50	-1.11	4.22
4,184.0	13.30	47.60	4,109.5	468.3	516.4	697.1	0.70	-0.67	-0.89
4,230.0	13.50	45.20	4,154.2	475.6	524.1	707.7	1.28	0.43	-5.22
4,275.0	14.50	45.70	4,197.9	483.3	531.9	718.6	2.24	2.22	1.11
4,320.0	14.60	47.90	4,241.5	491.0	540.1	729.9	1.25	0.22	4.89
4,365.0	14.10	46.60	4,285.1	498.6	548.3	741.1	1.32	-1.11	-2.89
4,411.0	13.50	45.90	4,329.7	506.2	556.2	752.0	1.35	-1.30	-1.52
4,456.0	13.40	48.20	4,373.5	513.3	563.9	762.5	1.21	-0.22	5.11
4,501.0	12.90	47.90	4,417.3	520.1	571.5	772.7	1.12	-1.11	-0.67
4,547.0	13.40	49.10	4,462.1	527.1	579.3	783.2	1.24	1.09	2.61
4,592.0	13.80	48.60	4,505.8	534.0	587.3	793.8	0.93	0.89	-1.11
4,637.0	14.00	48.60	4,549.5	541.2	595.4	804.6	0.44	0.44	0.00
4,682.0	14.00	49.10	4,593.2	548.3	603.6	815.5	0.27	0.00	1.11
4,727.0	13.10	48.35	4,636.9	555.3	611.5	826.0	2.04	-2.00	-1.67
4,773.0	12.50	48.10	4,681.8	562.1	619.1	836.2	1.31	-1.30	-0.54
4,818.0	12.00	47.50	4,725.8	568.5	626.2	845.8	1.15	-1.11	-1.33
4,840.1	11.90	47.74	4,747.4	571.6	629.6	850.3	0.50	-0.44	1.10
S-17-9-17 TGT									
4,863.0	11.80	48.00	4,769.8	574.7	633.1	855.0	0.50	-0.44	1.12
4,909.0	11.70	47.00	4,814.8	581.1	640.0	864.4	0.49	-0.22	-2.17
4,954.0	11.90	46.00	4,858.9	587.4	646.6	873.6	0.64	0.44	-2.22
4,999.0	12.10	45.60	4,902.9	593.9	653.4	883.0	0.48	0.44	-0.89
5,045.0	11.60	45.60	4,947.9	600.5	660.1	892.4	1.09	-1.09	0.00
5,090.0	11.30	46.00	4,992.0	606.8	666.5	901.3	0.69	-0.67	0.89
5,135.0	12.00	48.90	5,036.1	612.9	673.2	910.4	2.03	1.56	6.44
5,226.0	12.30	49.00	5,125.1	625.5	687.6	929.6	0.33	0.33	0.11
5,271.0	11.70	47.60	5,169.1	631.7	694.6	938.9	1.48	-1.33	-3.11
5,316.0	11.10	43.90	5,213.2	637.9	701.0	947.8	2.10	-1.33	-8.22
5,362.0	10.60	42.90	5,258.4	644.2	707.0	956.4	1.16	-1.09	-2.17
5,407.0	11.40	45.80	5,302.5	650.3	713.0	965.0	2.16	1.78	6.44

NEWFIELD

Payzone Directional

Survey Report

Company:	NEWFIELD EXPLORATION	**Local Co-ordinate Reference:**	Well S-17-9-17
Project:	USGS Myton SW (UT)	**TVD Reference:**	S-17-9-17 @ 5394.0ft (Capstar 328)
Site:	SECTION 17 T9S, R17E	**MD Reference:**	S-17-9-17 @ 5394.0ft (Capstar 328)
Well:	S-17-9-17	**North Reference:**	True
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Actual	**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)
5,452.0	12.10	48.40	5,346.6	656.6	719.7	974.2	1.95	1.56	5.78
5,497.0	12.70	47.00	5,390.6	663.1	726.8	983.8	1.49	1.33	-3.11
5,543.0	13.10	46.70	5,435.4	670.1	734.3	994.1	0.88	0.87	-0.65
5,588.0	12.40	48.10	5,479.3	676.8	741.6	1,004.0	1.70	-1.56	3.11
5,633.0	11.80	48.60	5,523.3	683.1	748.7	1,013.5	1.35	-1.33	1.11
5,679.0	11.50	47.50	5,568.3	689.3	755.6	1,022.7	0.81	-0.65	-2.39
5,724.0	10.60	47.60	5,612.5	695.1	761.9	1,031.4	2.00	-2.00	0.22
5,769.0	9.60	47.70	5,656.8	700.4	767.8	1,039.3	2.22	-2.22	0.22
5,815.0	8.80	46.00	5,702.2	705.4	773.1	1,046.6	1.84	-1.74	-3.70
5,860.0	8.00	45.70	5,746.7	710.0	777.9	1,053.2	1.78	-1.78	-0.67
5,915.0	8.00	45.70	5,801.2	715.4	783.3	1,060.8	0.00	0.00	0.00

Checked By: _____ Approved By: _____ Date: _____

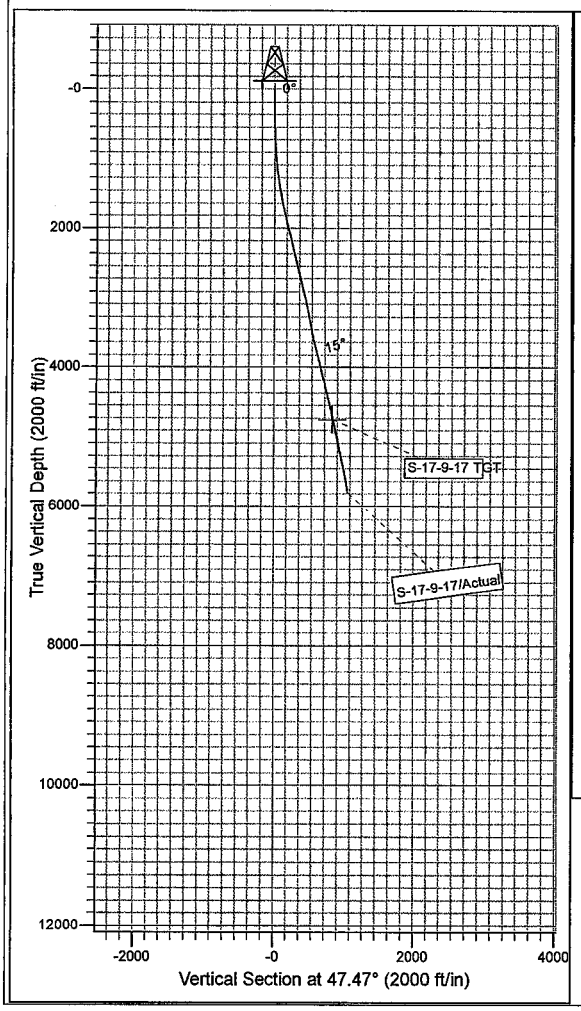
NEWFIELD

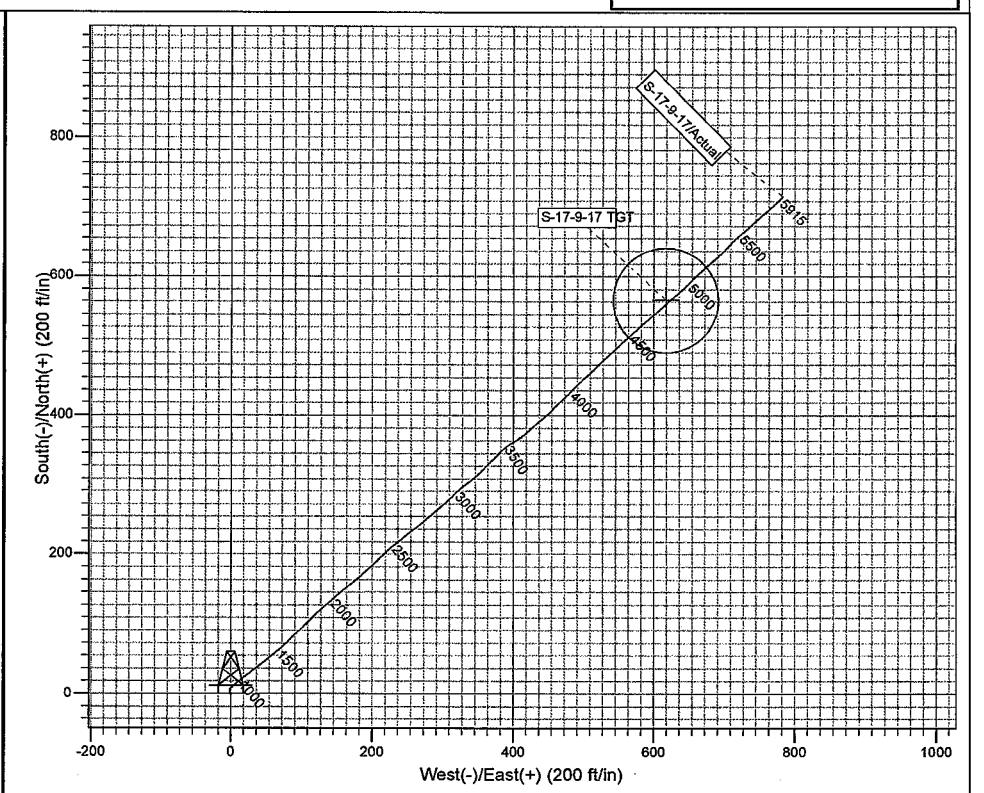
Project: USGS Myton SW (UT)
Site: SECTION 17 T9S, R17E
Well: S-17-9-17
Wellbore: Wellbore #1
Design: Actual

T M

Azimuths to True North
Magnetic North: 11.39°

Magnetic Field
Strength: 52341.9snT
Dip Angle: 65.81°
Date: 9/7/2010
Model: IGRF2010





Design: Actual (S-17-9-17/Wellbore #1)

Created By: Sarah Webb Date: 15:24, February 18 2012

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