

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 GMBU E-16-9-17				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT MONUMENT BUTTE				
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME GMBU (GRRV)				
6. NAME OF OPERATOR NEWFIELD PRODUCTION COMPANY						7. OPERATOR PHONE 435 646-4825				
8. ADDRESS OF OPERATOR Rt 3 Box 3630 , Myton, UT, 84052						9. OPERATOR E-MAIL mcrozier@newfield.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU-74398			11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN		
LOCATION AT SURFACE		589 FSL 616 FEL		SESE	8	9.0 S	17.0 E	S		
Top of Uppermost Producing Zone		234 FSL 220 FEL		SESE	8	9.0 S	17.0 E	S		
At Total Depth		161 FNL 194 FWL		NWNW	16	9.0 S	17.0 E	S		
21. COUNTY DUCHESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 161			23. NUMBER OF ACRES IN DRILLING UNIT 20				
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1555			26. PROPOSED DEPTH MD: 6166 TVD: 6050				
27. ELEVATION - GROUND LEVEL 5321			28. BOND NUMBER WYB000493			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 437478				
Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Surf	12.25	8.625	0 - 300	24.0	J-55 ST&C	8.3	Class G	138	1.17	15.8
Prod	7.875	5.5	0 - 6166	15.5	J-55 LT&C	8.3	Premium Lite High Strength	288	3.26	11.0
							50/50 Poz	363	1.24	14.3
ATTACHMENTS										
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Mandie Crozier				TITLE Regulatory Tech			PHONE 435 646-4825			
SIGNATURE				DATE 02/22/2012			EMAIL mcrozier@newfield.com			
API NUMBER ASSIGNED 43013512490000				APPROVAL <div style="text-align: right;">  Permit Manager </div>						

NEWFIELD PRODUCTION COMPANY
GMBU E-16-9-17
AT SURFACE: SE/SE SECTION 8, 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' – 1335'
Green River	1335'
Wasatch	5905'
Proposed TD	6166'

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

Green River Formation (Oil) 1335' – 5905'

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: GMBU E-16-9-17**

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'	6,166'	15.5	J-55	LTC	4,810 2.45	4,040 2.06	217,000 2.27

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: GMBU E-16-9-17**

Job	Fill	Description	Sacks	OH Excess*	Weight (ppg)	Yield (ft ³ /sk)
			ft ³			
Surface casing	300'	Class G w/ 2% CaCl	138	30%	15.8	1.17
			161			
Prod casing Lead	4,166'	Prem Lite II w/ 10% gel + 3% KCl	288	30%	11.0	3.26
			938			
Prod casing Tail	2,000'	50/50 Poz w/ 2% gel + 3% KCl	363	30%	14.3	1.24
			451			

*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 ± 300 feet will be drilled with an air/mist system. The air rig is equipped with a 6 1/2" 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 ± 300 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

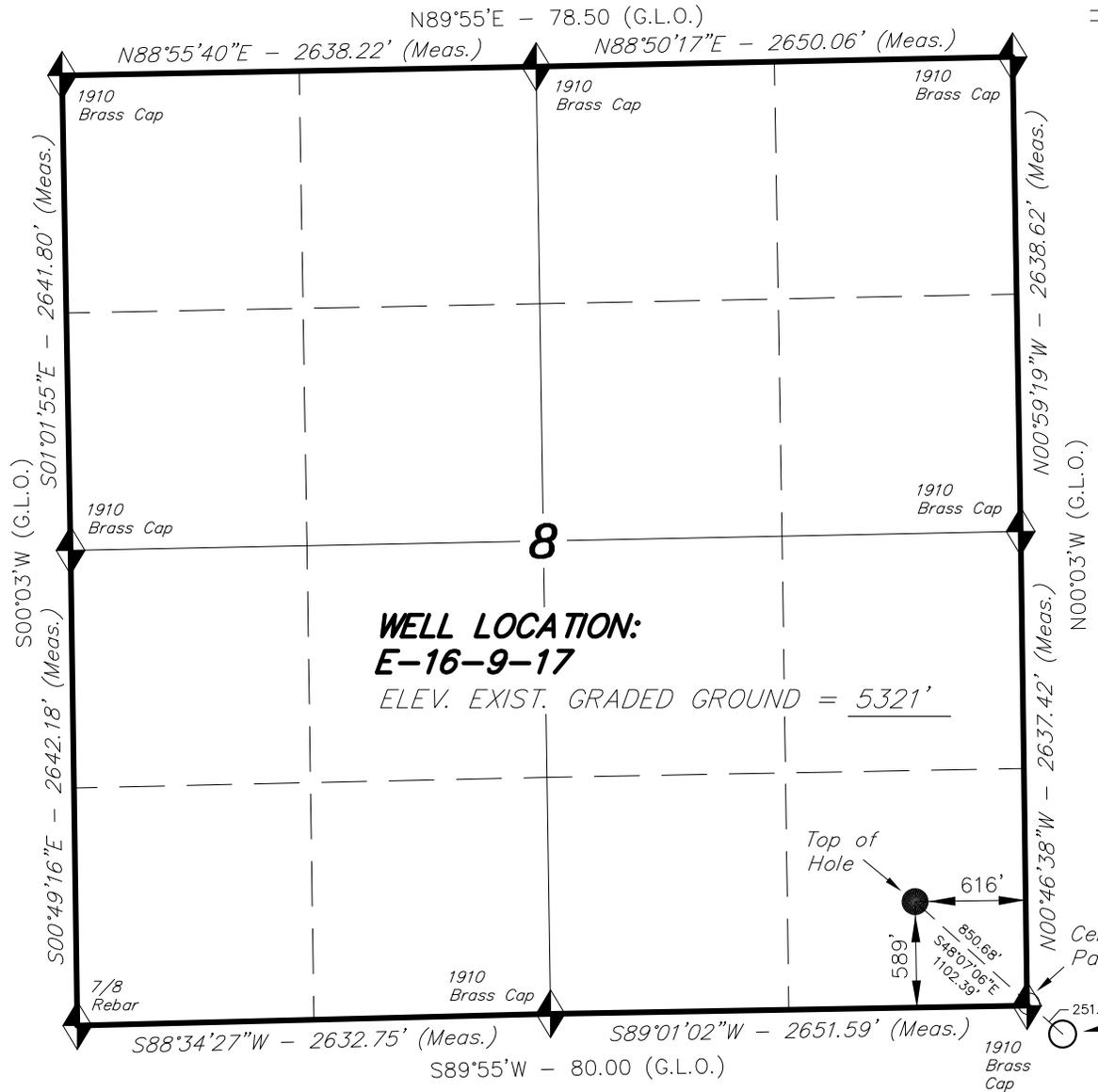
bottomhole pressure will approximately equal total depth in feet multiplied by a 0.433 psi/foot gradient.

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

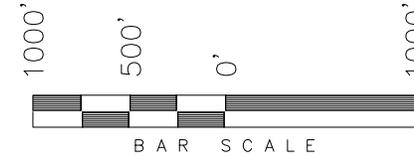
It is anticipated that the drilling operations will commence the third quarter of 2012, and take approximately seven (7) days from spud to rig release.

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

NEWFIELD EXPLORATION COMPANY



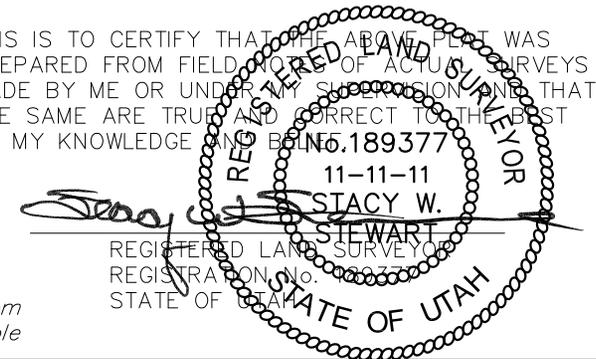
WELL LOCATION, E-16-9-17, LOCATED AS SHOWN IN THE SE 1/4 SE 1/4 OF SECTION 8, T9S, R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



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.



◆ = SECTION CORNERS LOCATED

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

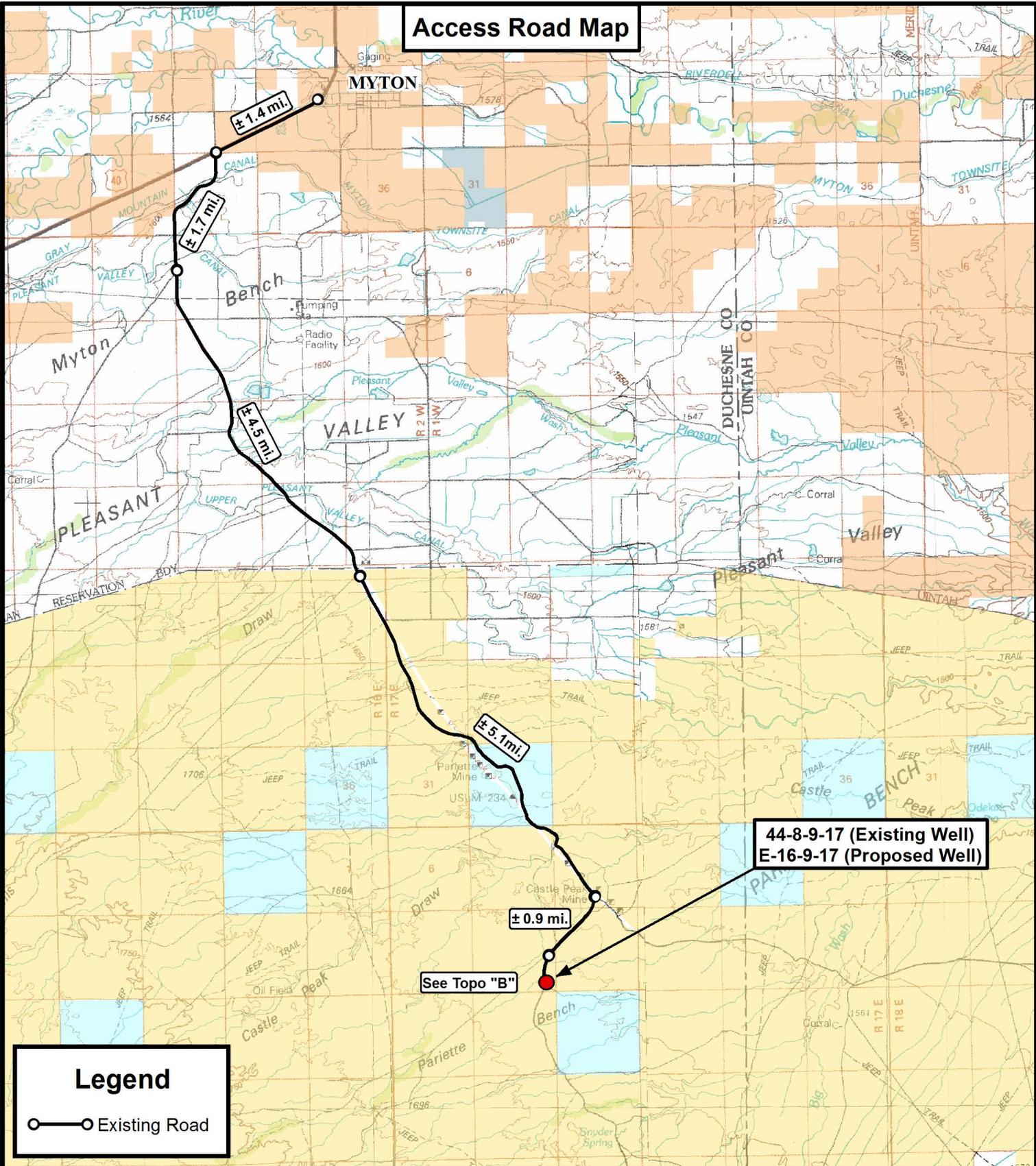
E-16-9-17
(Surface Location) NAD 83
LATITUDE = 40° 02' 23.37"
LONGITUDE = 110° 01' 23.62"

TRI STATE LAND SURVEYING & CONSULTING

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

DATE SURVEYED: 09-06-11	SURVEYED BY: S.H.	VERSION:
DATE DRAWN: 09-07-11	DRAWN BY: F.T.M.	V1
REVISED:	SCALE: 1" = 1000'	

Access Road Map



Legend

○—○ Existing Road

Tri State Land Surveying, Inc.
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501
 F: (435) 781-2518

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	10-20-2011		V1
SCALE:	1:100,000		



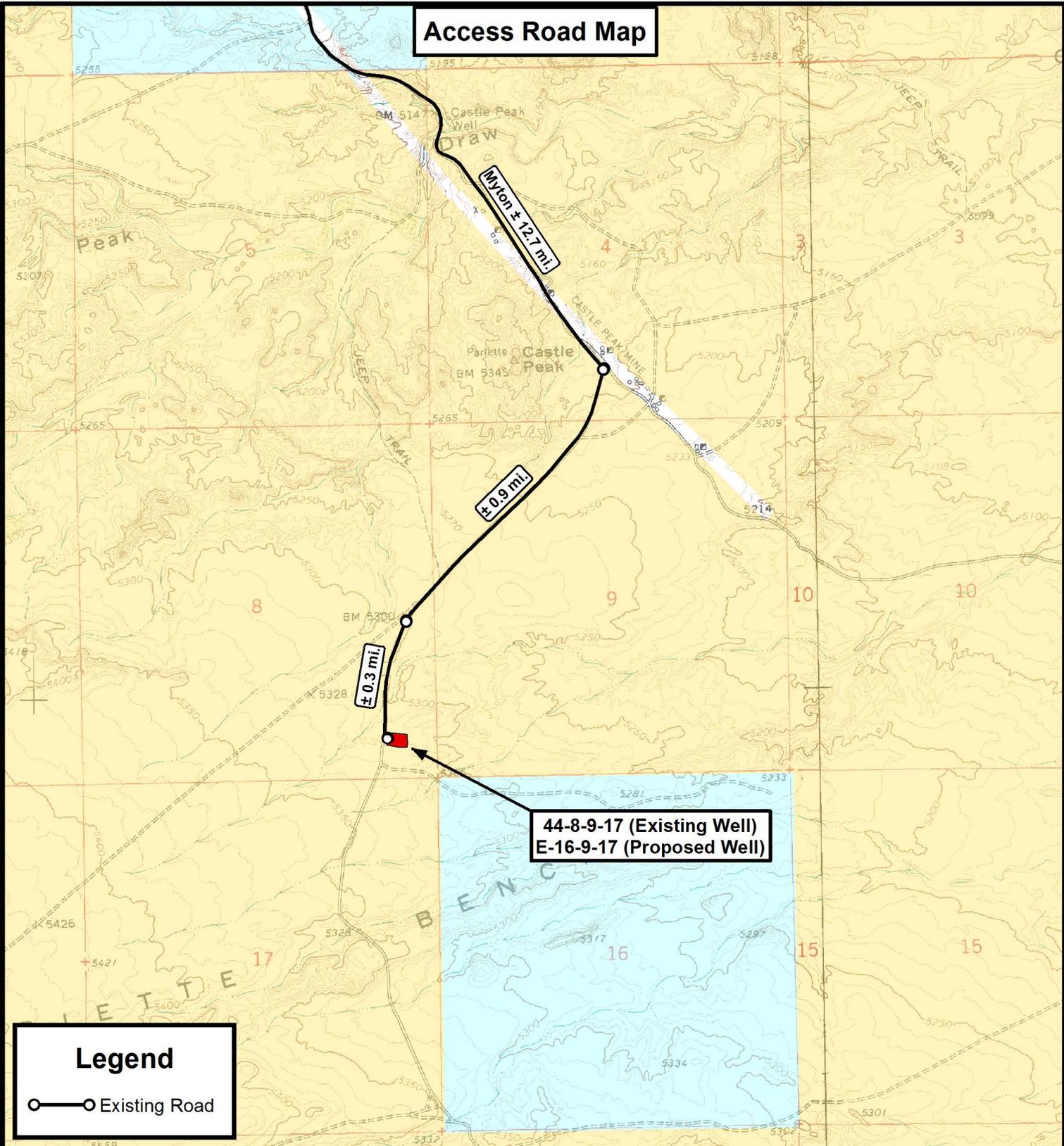
NEWFIELD EXPLORATION COMPANY

44-8-9-17 (Existing Well)
 E-16-9-17 (Proposed Well)
 SEC. 8, T9S, R17E, S.L.B.&M.
 Duchesne County, UT.

TOPOGRAPHIC MAP

SHEET **A**

Access Road Map



**44-8-9-17 (Existing Well)
E-16-9-17 (Proposed Well)**

Legend

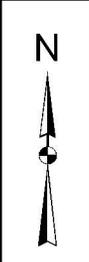
○—○ Existing Road

THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.



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Land Surveying, Inc.**
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NEWFIELD EXPLORATION COMPANY

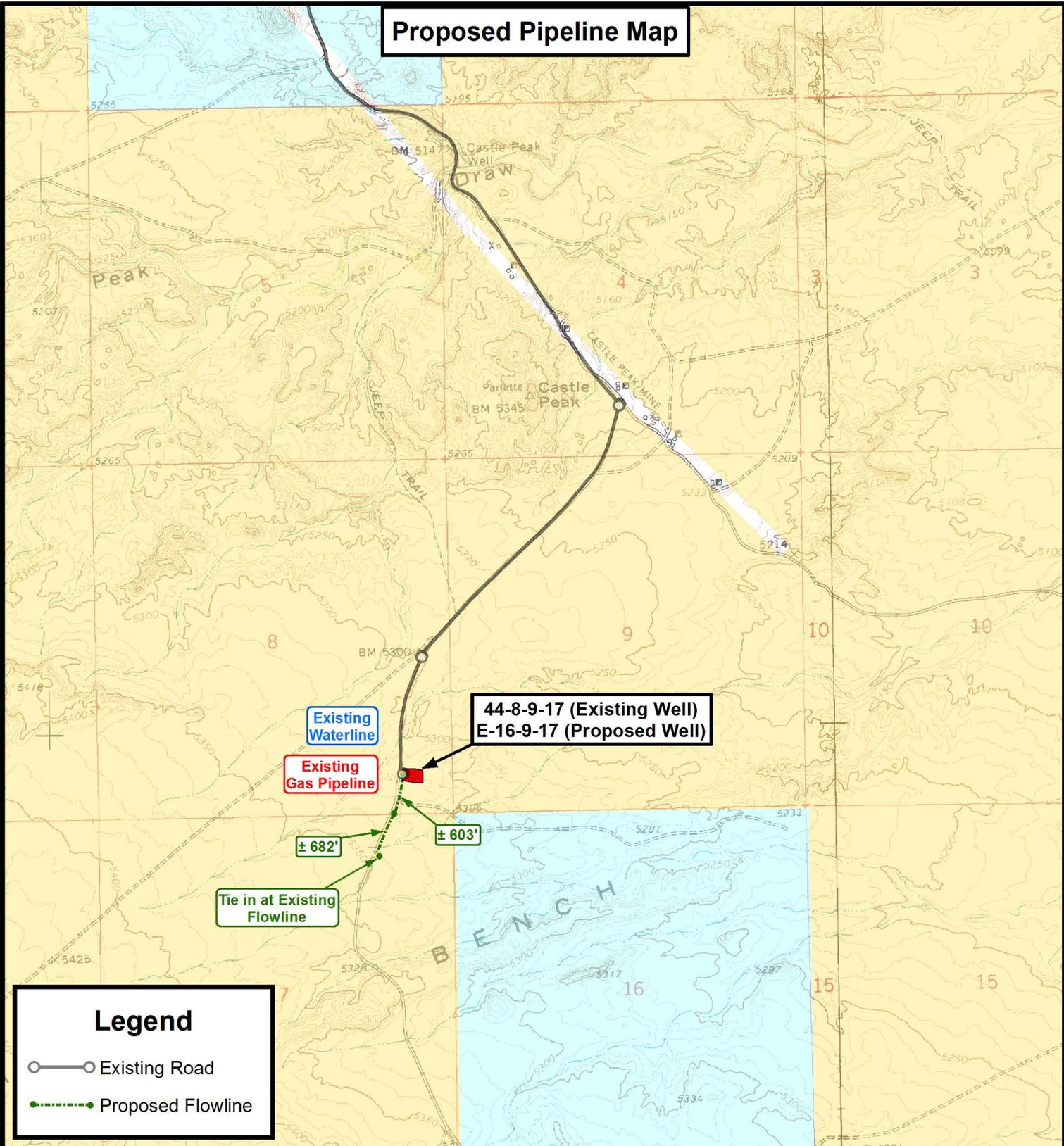
44-8-9-17 (Existing Well)
E-16-9-17 (Proposed Well)
SEC. 8, T9S, R17E, S.L.B.&M.
Duchesne County, UT.

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	10-20-2011		V1
SCALE:	1" = 2,000'		

TOPOGRAPHIC MAP

SHEET **B**

Proposed Pipeline Map



**44-8-9-17 (Existing Well)
E-16-9-17 (Proposed Well)**

Existing Waterline

Existing Gas Pipeline

Tie in at Existing Flowline

Legend

- Existing Road
- Proposed Flowline

THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.

Tri State Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

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NEWFIELD EXPLORATION COMPANY

44-8-9-17 (Existing Well)
E-16-9-17 (Proposed Well)
SEC. 8, T9S, R17E, S.L.B.&M.
Duchesne County, UT.

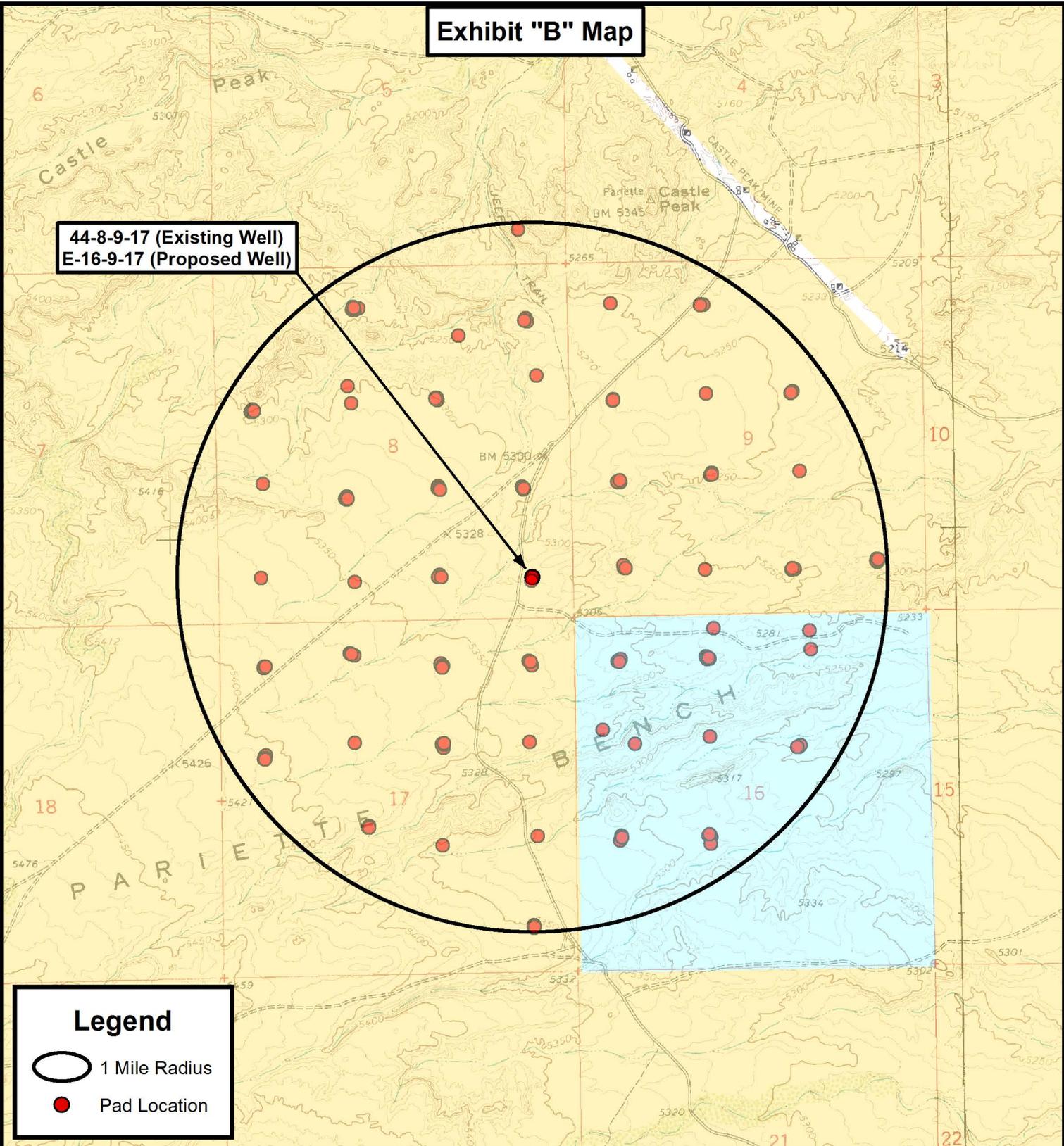
DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	10-20-2011		V1
SCALE:	1" = 2,000'		

TOPOGRAPHIC MAP

SHEET **C**

Exhibit "B" Map

44-8-9-17 (Existing Well)
E-16-9-17 (Proposed Well)



Legend

-  1 Mile Radius
-  Pad Location

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NEWFIELD EXPLORATION COMPANY

44-8-9-17 (Existing Well)
 E-16-9-17 (Proposed Well)
 SEC. 8, T9S, R17E, S.L.B.&M.
 Duchesne County, UT.

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	10-20-2011		V1
SCALE:	1" = 2,000'		

TOPOGRAPHIC MAP

SHEET **D**



NEWFIELD EXPLORATION

**USGS Myton SW (UT)
SECTION 8 T9S, R17E
E-16-9-17**

Wellbore #1

Plan: Design #1

Standard Planning Report

14 September, 2011





PayZone Directional Services, LLC.

Planning Report



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well E-16-9-17
Company:	NEWFIELD EXPLORATION	TVD Reference:	E-16-9-17 @ 5333.0ft (Newfield Rig)
Project:	USGS Myton SW (UT)	MD Reference:	E-16-9-17 @ 5333.0ft (Newfield Rig)
Site:	SECTION 8 T9S, R17E	North Reference:	True
Well:	E-16-9-17	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 8 T9S, R17E, SEC 8 T8S, R17E				
Site Position:		Northing:	7,189,610.00 ft	Latitude:	40° 2' 53.026 N
From:	Lat/Long	Easting:	2,051,781.00 ft	Longitude:	110° 1' 49.660 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.94 °

Well	E-16-9-17, SHL LAT: 40 02 23.37 LONG: -110 01 23.62					
Well Position	+N/-S	-3,000.7 ft	Northing:	7,186,643.15 ft	Latitude:	40° 2' 23.370 N
	+E/-W	2,024.9 ft	Easting:	2,053,855.18 ft	Longitude:	110° 1' 23.620 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	5,333.0 ft	Ground Level:	5,321.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2011/09/14	11.26	65.79	52,250

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 (°)
	4,900.0	0.0	0.0	131.88

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	
1,423.0	12.35	131.88	1,416.6	-59.0	65.8	1.50	1.50	0.00	131.88	
4,988.8	12.35	131.88	4,900.0	-567.9	633.4	0.00	0.00	0.00	0.00	E-16-9-17 TGT
6,166.0	12.35	131.88	6,050.0	-735.9	820.8	0.00	0.00	0.00	0.00	



PayZone Directional Services, LLC.

Planning Report



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well E-16-9-17
Company:	NEWFIELD EXPLORATION	TVD Reference:	E-16-9-17 @ 5333.0ft (Newfield Rig)
Project:	USGS Myton SW (UT)	MD Reference:	E-16-9-17 @ 5333.0ft (Newfield Rig)
Site:	SECTION 8 T9S, R17E	North Reference:	True
Well:	E-16-9-17	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	131.88	700.0	-0.9	1.0	1.3	1.50	1.50	0.00
800.0	3.00	131.88	799.9	-3.5	3.9	5.2	1.50	1.50	0.00
900.0	4.50	131.88	899.7	-7.9	8.8	11.8	1.50	1.50	0.00
1,000.0	6.00	131.88	999.3	-14.0	15.6	20.9	1.50	1.50	0.00
1,100.0	7.50	131.88	1,098.6	-21.8	24.3	32.7	1.50	1.50	0.00
1,200.0	9.00	131.88	1,197.5	-31.4	35.0	47.0	1.50	1.50	0.00
1,300.0	10.50	131.88	1,296.1	-42.7	47.6	64.0	1.50	1.50	0.00
1,400.0	12.00	131.88	1,394.2	-55.7	62.1	83.5	1.50	1.50	0.00
1,423.0	12.35	131.88	1,416.6	-59.0	65.8	88.3	1.50	1.50	0.00
1,500.0	12.35	131.88	1,491.9	-69.9	78.0	104.8	0.00	0.00	0.00
1,600.0	12.35	131.88	1,589.6	-84.2	93.9	126.2	0.00	0.00	0.00
1,700.0	12.35	131.88	1,687.2	-98.5	109.9	147.5	0.00	0.00	0.00
1,800.0	12.35	131.88	1,784.9	-112.8	125.8	168.9	0.00	0.00	0.00
1,900.0	12.35	131.88	1,882.6	-127.0	141.7	190.3	0.00	0.00	0.00
2,000.0	12.35	131.88	1,980.3	-141.3	157.6	211.7	0.00	0.00	0.00
2,100.0	12.35	131.88	2,078.0	-155.6	173.5	233.1	0.00	0.00	0.00
2,200.0	12.35	131.88	2,175.7	-169.9	189.4	254.4	0.00	0.00	0.00
2,300.0	12.35	131.88	2,273.4	-184.1	205.4	275.8	0.00	0.00	0.00
2,400.0	12.35	131.88	2,371.1	-198.4	221.3	297.2	0.00	0.00	0.00
2,500.0	12.35	131.88	2,468.7	-212.7	237.2	318.6	0.00	0.00	0.00
2,600.0	12.35	131.88	2,566.4	-226.9	253.1	340.0	0.00	0.00	0.00
2,700.0	12.35	131.88	2,664.1	-241.2	269.0	361.3	0.00	0.00	0.00
2,800.0	12.35	131.88	2,761.8	-255.5	285.0	382.7	0.00	0.00	0.00
2,900.0	12.35	131.88	2,859.5	-269.8	300.9	404.1	0.00	0.00	0.00
3,000.0	12.35	131.88	2,957.2	-284.0	316.8	425.5	0.00	0.00	0.00
3,100.0	12.35	131.88	3,054.9	-298.3	332.7	446.9	0.00	0.00	0.00
3,200.0	12.35	131.88	3,152.6	-312.6	348.6	468.2	0.00	0.00	0.00
3,300.0	12.35	131.88	3,250.2	-326.9	364.5	489.6	0.00	0.00	0.00
3,400.0	12.35	131.88	3,347.9	-341.1	380.5	511.0	0.00	0.00	0.00
3,500.0	12.35	131.88	3,445.6	-355.4	396.4	532.4	0.00	0.00	0.00
3,600.0	12.35	131.88	3,543.3	-369.7	412.3	553.8	0.00	0.00	0.00
3,700.0	12.35	131.88	3,641.0	-383.9	428.2	575.1	0.00	0.00	0.00
3,800.0	12.35	131.88	3,738.7	-398.2	444.1	596.5	0.00	0.00	0.00
3,900.0	12.35	131.88	3,836.4	-412.5	460.1	617.9	0.00	0.00	0.00
4,000.0	12.35	131.88	3,934.1	-426.8	476.0	639.3	0.00	0.00	0.00
4,100.0	12.35	131.88	4,031.7	-441.0	491.9	660.7	0.00	0.00	0.00
4,200.0	12.35	131.88	4,129.4	-455.3	507.8	682.0	0.00	0.00	0.00
4,300.0	12.35	131.88	4,227.1	-469.6	523.7	703.4	0.00	0.00	0.00
4,400.0	12.35	131.88	4,324.8	-483.9	539.6	724.8	0.00	0.00	0.00
4,500.0	12.35	131.88	4,422.5	-498.1	555.6	746.2	0.00	0.00	0.00
4,600.0	12.35	131.88	4,520.2	-512.4	571.5	767.6	0.00	0.00	0.00
4,700.0	12.35	131.88	4,617.9	-526.7	587.4	788.9	0.00	0.00	0.00
4,800.0	12.35	131.88	4,715.6	-540.9	603.3	810.3	0.00	0.00	0.00
4,900.0	12.35	131.88	4,813.3	-555.2	619.2	831.7	0.00	0.00	0.00
4,988.8	12.35	131.88	4,900.0	-567.9	633.4	850.7	0.00	0.00	0.00
5,000.0	12.35	131.88	4,910.9	-569.5	635.2	853.1	0.00	0.00	0.00
5,100.0	12.35	131.88	5,008.6	-583.8	651.1	874.5	0.00	0.00	0.00



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well E-16-9-17
Company:	NEWFIELD EXPLORATION	TVD Reference:	E-16-9-17 @ 5333.0ft (Newfield Rig)
Project:	USGS Myton SW (UT)	MD Reference:	E-16-9-17 @ 5333.0ft (Newfield Rig)
Site:	SECTION 8 T9S, R17E	North Reference:	True
Well:	E-16-9-17	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)	
5,200.0	12.35	131.88	5,106.3	-598.0	667.0	895.8	0.00	0.00	0.00	
5,300.0	12.35	131.88	5,204.0	-612.3	682.9	917.2	0.00	0.00	0.00	
5,400.0	12.35	131.88	5,301.7	-626.6	698.8	938.6	0.00	0.00	0.00	
5,500.0	12.35	131.88	5,399.4	-640.9	714.7	960.0	0.00	0.00	0.00	
5,600.0	12.35	131.88	5,497.1	-655.1	730.7	981.4	0.00	0.00	0.00	
5,700.0	12.35	131.88	5,594.8	-669.4	746.6	1,002.7	0.00	0.00	0.00	
5,800.0	12.35	131.88	5,692.4	-683.7	762.5	1,024.1	0.00	0.00	0.00	
5,900.0	12.35	131.88	5,790.1	-697.9	778.4	1,045.5	0.00	0.00	0.00	
6,000.0	12.35	131.88	5,887.8	-712.2	794.3	1,066.9	0.00	0.00	0.00	
6,100.0	12.35	131.88	5,985.5	-726.5	810.3	1,088.3	0.00	0.00	0.00	
6,166.0	12.35	131.88	6,050.0	-735.9	820.8	1,102.4	0.00	0.00	0.00	

Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
E-16-9-17 TGT	0.00	0.00	4,900.0	-567.9	633.4	7,186,085.79	2,054,497.83	40° 2' 17.757 N	110° 1' 15.476 W	
- hit/miss target										
- Shape										
- plan hits target center										
- Circle (radius 75.0)										



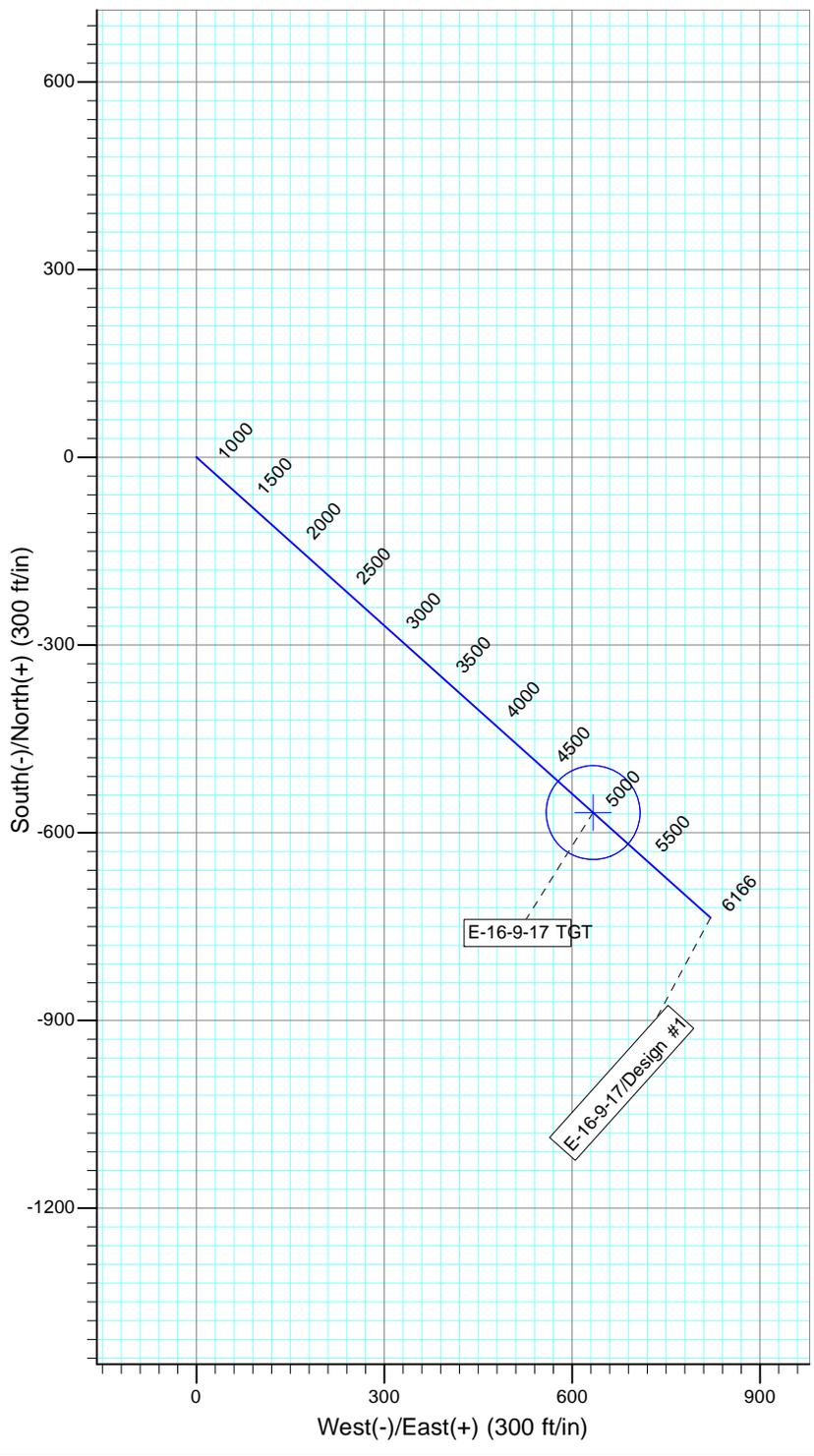
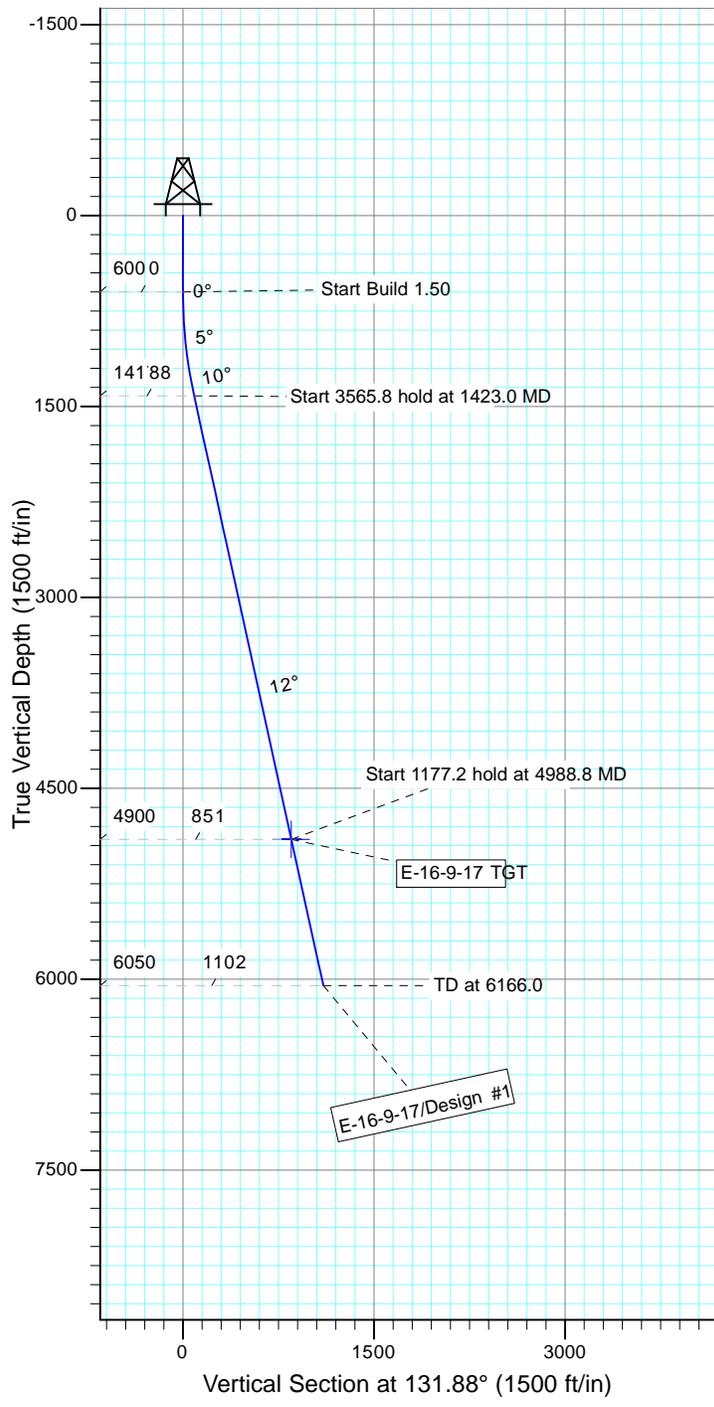
Project: USGS Myton SW (UT)
 Site: SECTION 8 T9S, R17E
 Well: E-16-9-17
 Wellbore: Wellbore #1
 Design: Design #1



Azimuths to True North
 Magnetic North: 11.26°

Magnetic Field
 Strength: 52250.0snT
 Dip Angle: 65.79°
 Date: 2011/09/14
 Model: IGRF2010

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



WELLBORE TARGET DETAILS

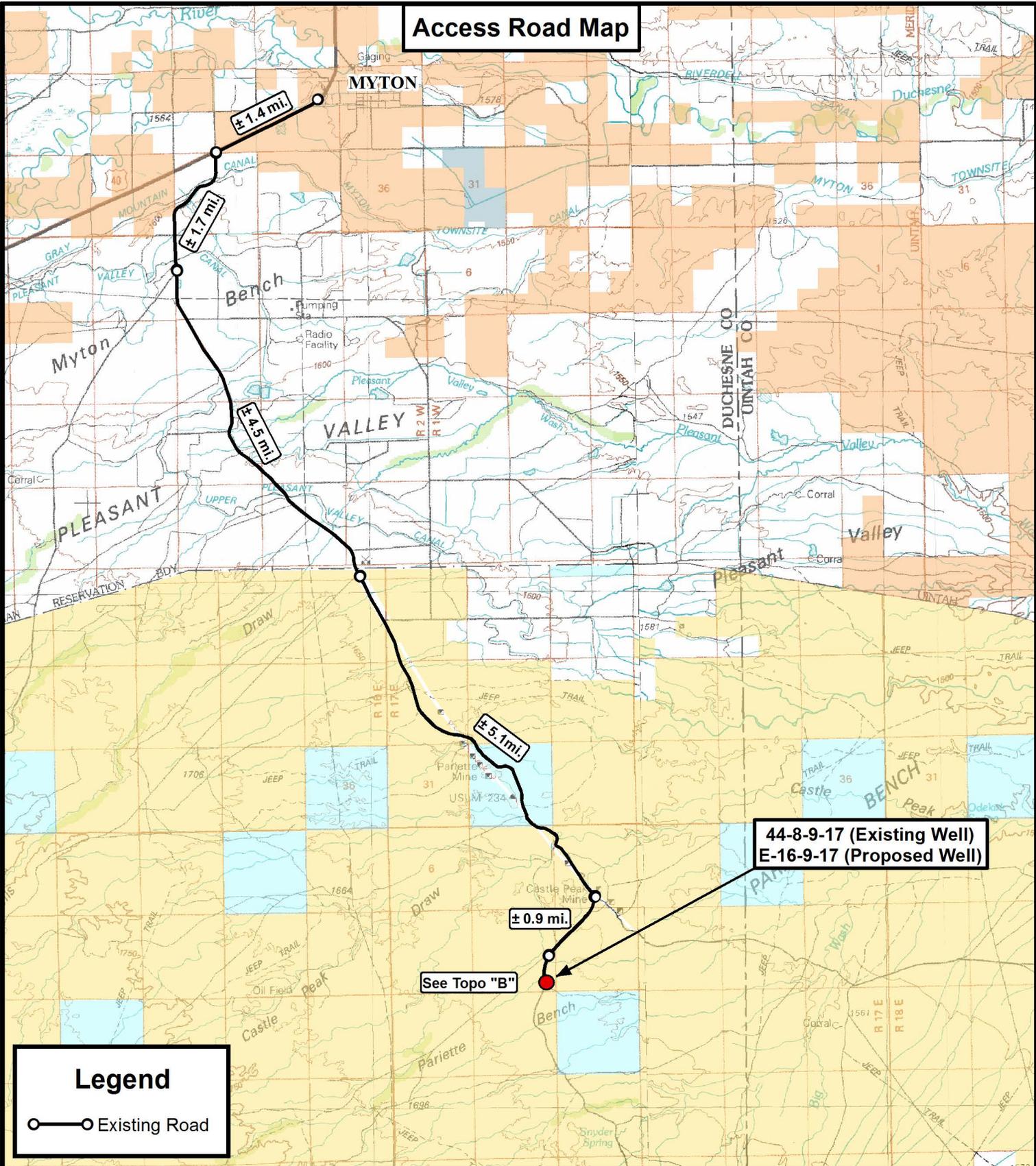
Name	TVD	+N/-S	+E/-W	Shape
E-16-9-17 TGT	4900.0	-567.9	633.4	Circle (Radius: 75.0)

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	1423.0	12.35	131.88	1416.6	-59.0	65.8	1.50	131.88	88.3	
4	4988.8	12.35	131.88	4900.0	-567.9	633.4	0.00	0.00	850.7	E-16-9-17 TGT
5	6166.0	12.35	131.88	6050.0	-735.9	820.8	0.00	0.00	1102.4	



Access Road Map



44-8-9-17 (Existing Well)
E-16-9-17 (Proposed Well)

See Topo "B"

Legend

○—○ Existing Road



**Tri State
Land Surveying, Inc.**
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501
 F: (435) 781-2518

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	10-20-2011		V1
SCALE:	1:100,000		



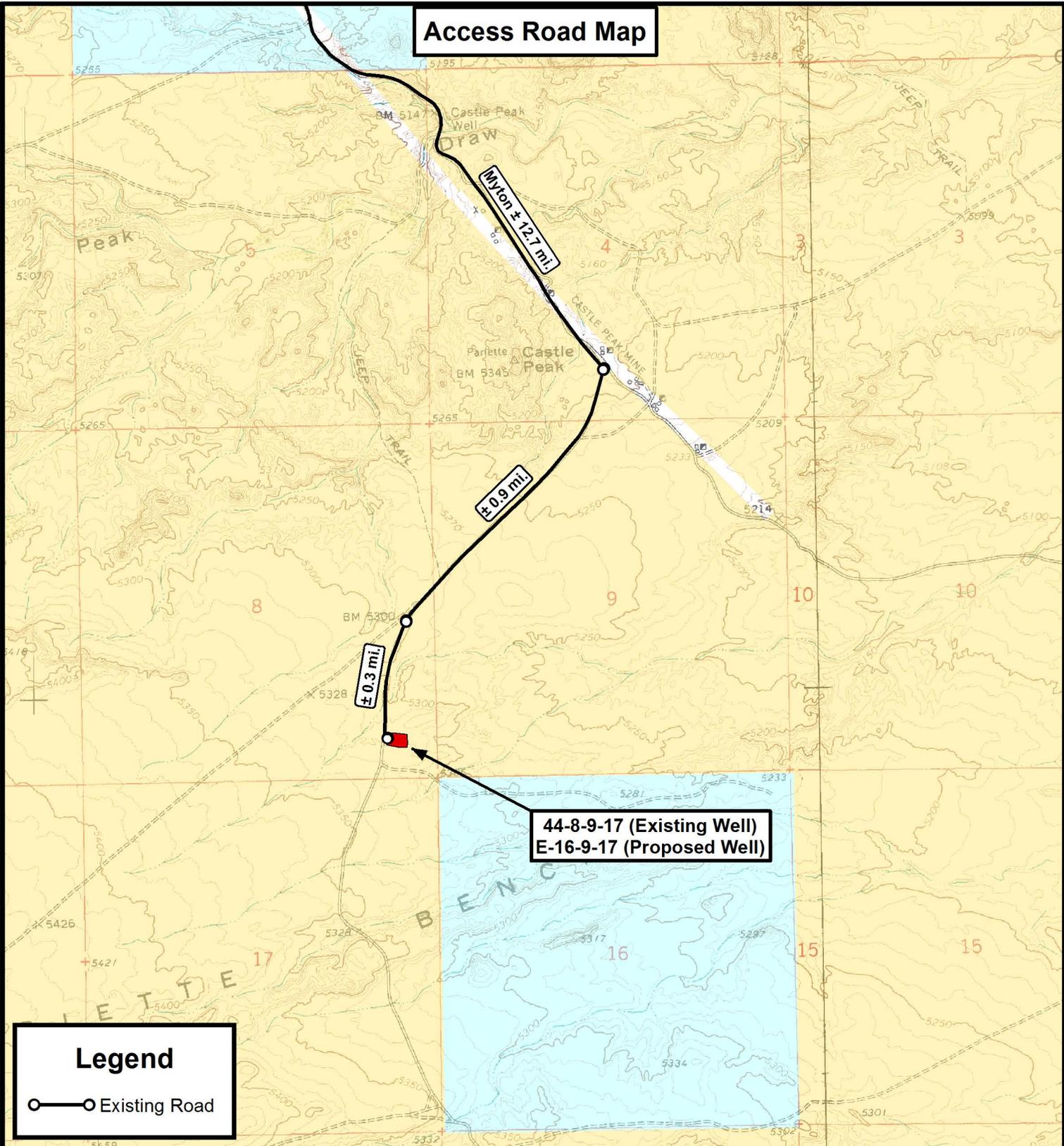
NEWFIELD EXPLORATION COMPANY

44-8-9-17 (Existing Well)
 E-16-9-17 (Proposed Well)
 SEC. 8, T9S, R17E, S.L.B.&M.
 Duchesne County, UT.

TOPOGRAPHIC MAP

SHEET **A**

Access Road Map



**44-8-9-17 (Existing Well)
E-16-9-17 (Proposed Well)**

Legend

○—○ Existing Road

THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.



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180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501
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NEWFIELD EXPLORATION COMPANY

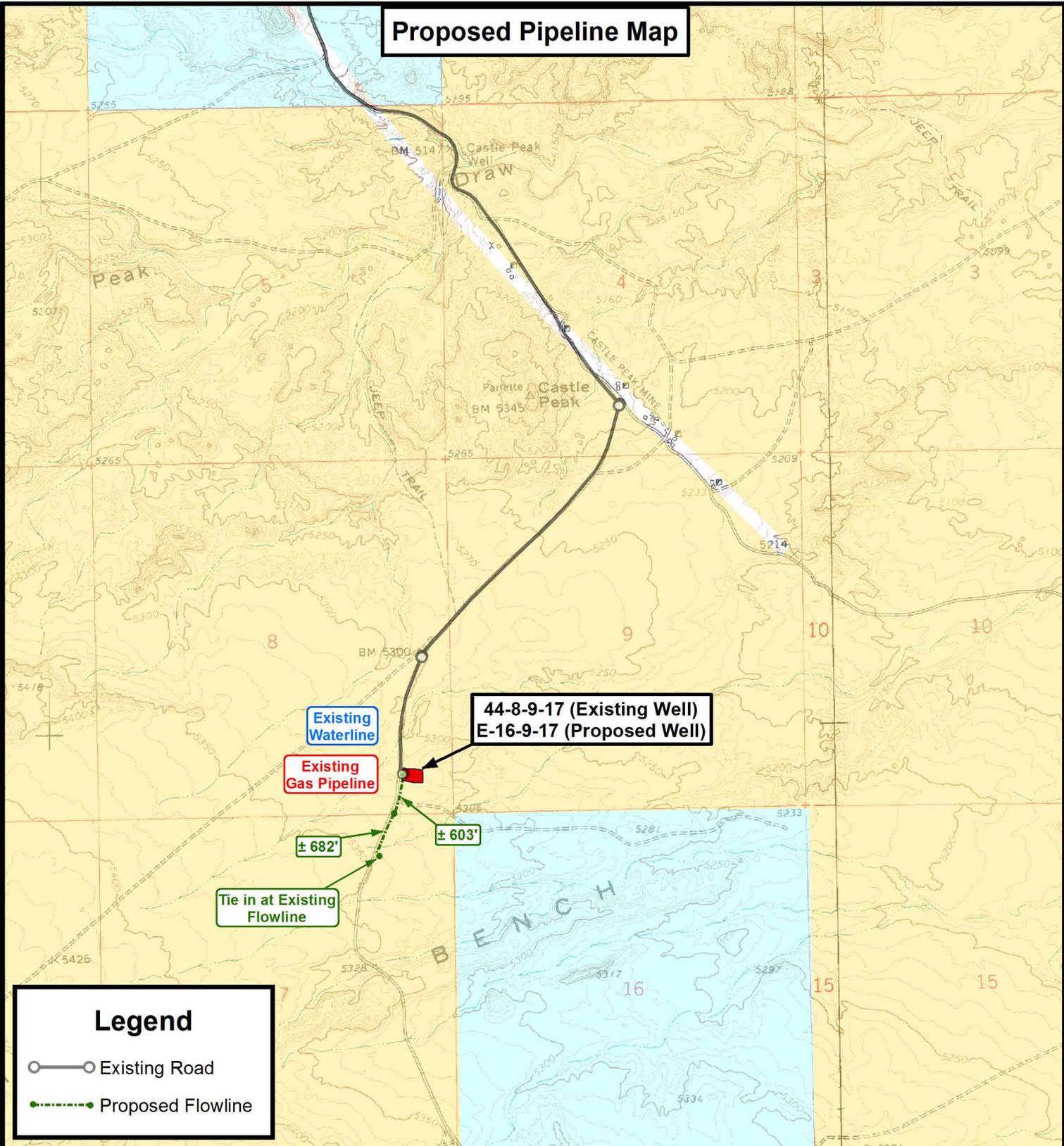
44-8-9-17 (Existing Well)
E-16-9-17 (Proposed Well)
SEC. 8, T9S, R17E, S.L.B.&M.
Duchesne County, UT.

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	10-20-2011		V1
SCALE:	1" = 2,000'		

TOPOGRAPHIC MAP

SHEET **B**

Proposed Pipeline Map



THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.



Tri State Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501
F: (435) 781-2518



NEWFIELD EXPLORATION COMPANY
44-8-9-17 (Existing Well)
E-16-9-17 (Proposed Well)
SEC. 8, T9S, R17E, S.L.B.&M.
Duchesne County, UT.

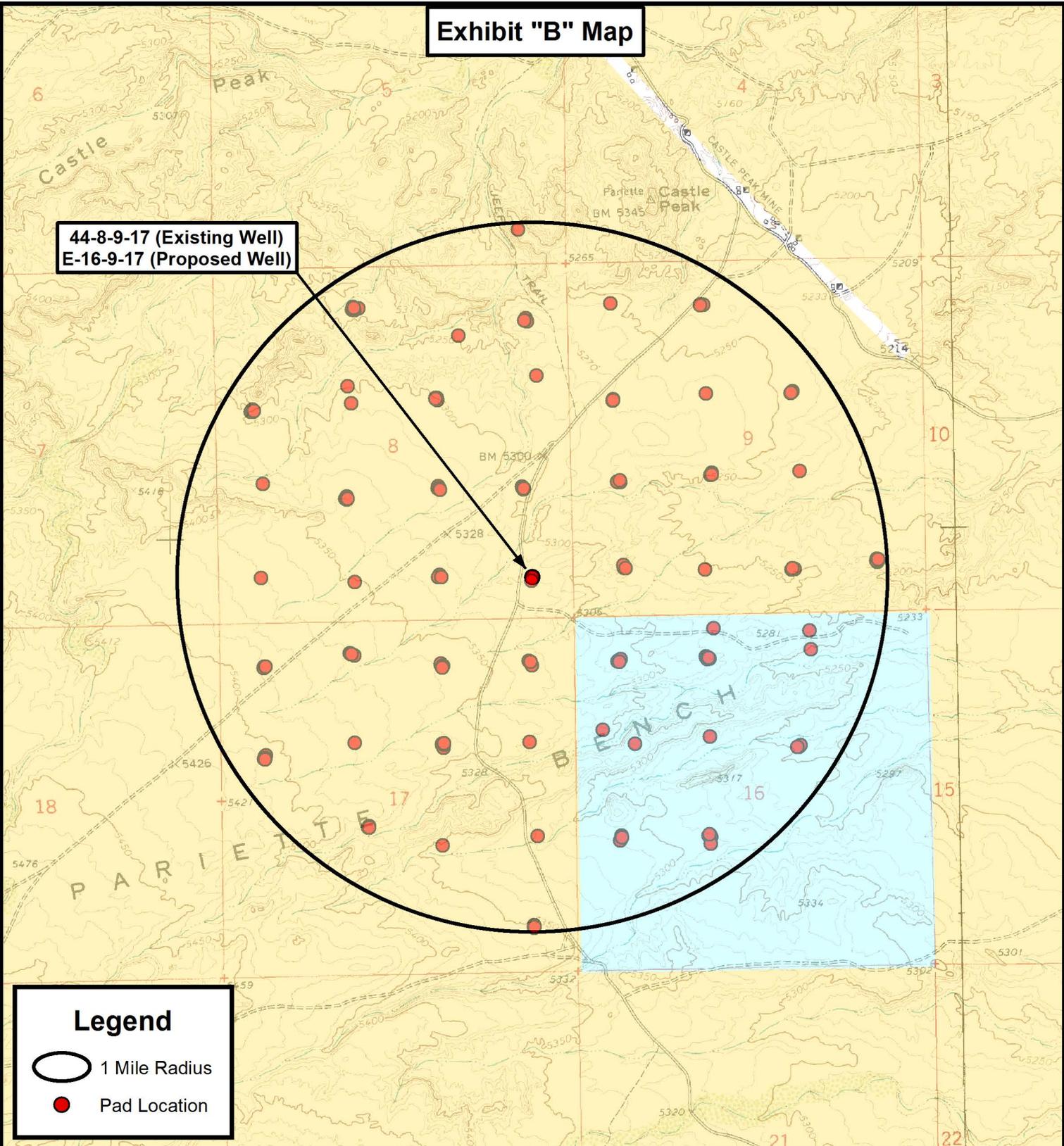
DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	10-20-2011		V1
SCALE:	1" = 2,000'		

TOPOGRAPHIC MAP

SHEET **C**

Exhibit "B" Map

44-8-9-17 (Existing Well)
E-16-9-17 (Proposed Well)



Legend

-  1 Mile Radius
-  Pad Location

THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.



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Land Surveying, Inc.**
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501
 F: (435) 781-2518



NEWFIELD EXPLORATION COMPANY

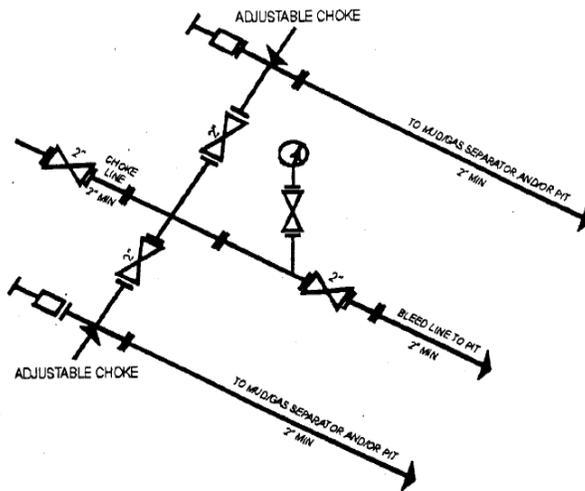
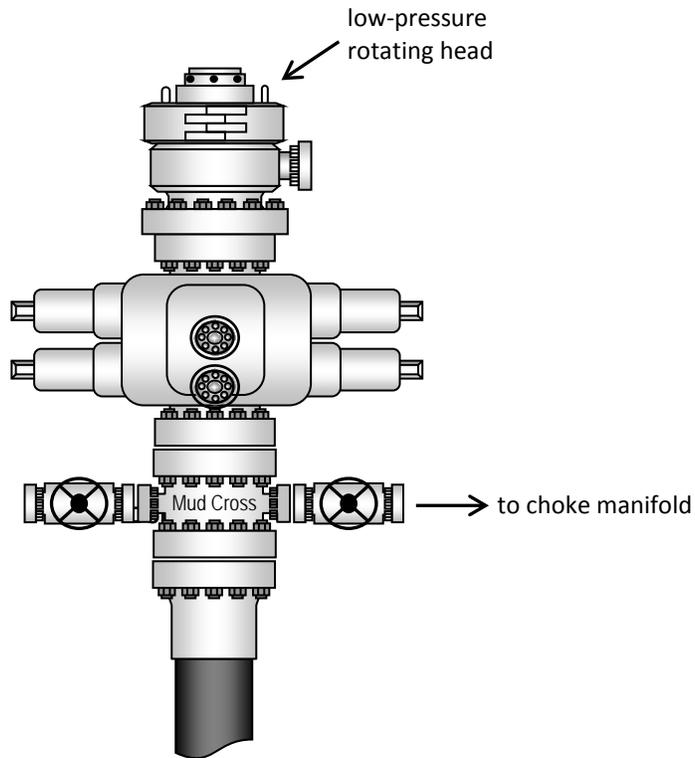
44-8-9-17 (Existing Well)
 E-16-9-17 (Proposed Well)
 SEC. 8, T9S, R17E, S.L.B.&M.
 Duchesne County, UT.

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	10-20-2011		V1
SCALE:	1" = 2,000'		

TOPOGRAPHIC MAP

SHEET **D**

Typical 2M BOP stack configuration



2M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

NEWFIELD EXPLORATION COMPANY

WELL PAD INTERFERENCE PLAT

44-8-9-17B (Existing Well)

E-16-9-17 (Proposed Well)

Pad Location: SESE Section 8, T9S, R17E, S.L.B.&M.



TOP HOLE FOOTAGES

E-16-9-17 (PROPOSED)
589' FSL & 616' FEL

CENTER OF PATTERN FOOTAGES

E-16-9-17 (PROPOSED)
10' FSL & 10' FWL

BOTTOM HOLE FOOTAGES

E-16-9-17 (PROPOSED)
161' FNL & 194' FWL

Note:

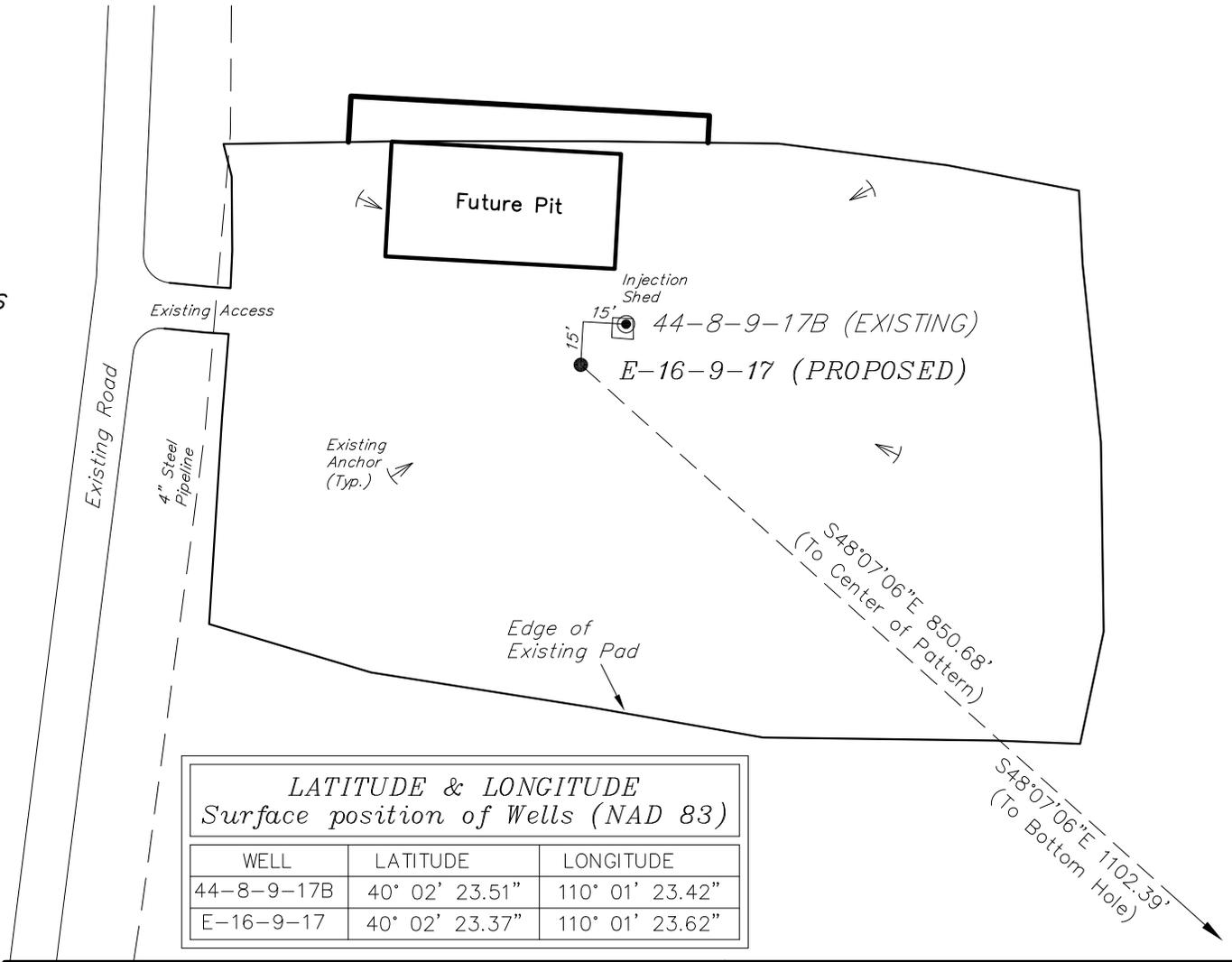
Bearings are based on GPS Observations.

RELATIVE COORDINATES
From Top Hole to C.O.P.

WELL	NORTH	EAST
E-16-9-17	-568'	633'

RELATIVE COORDINATES
From Top Hole to Bottom Hole

WELL	NORTH	EAST
E-16-9-17	-736'	821'



LATITUDE & LONGITUDE
Surface position of Wells (NAD 83)

WELL	LATITUDE	LONGITUDE
44-8-9-17B	40° 02' 23.51"	110° 01' 23.42"
E-16-9-17	40° 02' 23.37"	110° 01' 23.62"

SURVEYED BY:	S.H.	DATE SURVEYED:	09-06-11	VERSION:	V1
DRAWN BY:	F.T.M.	DATE DRAWN:	09-07-11		
SCALE:	1" = 60'	REVISED:			

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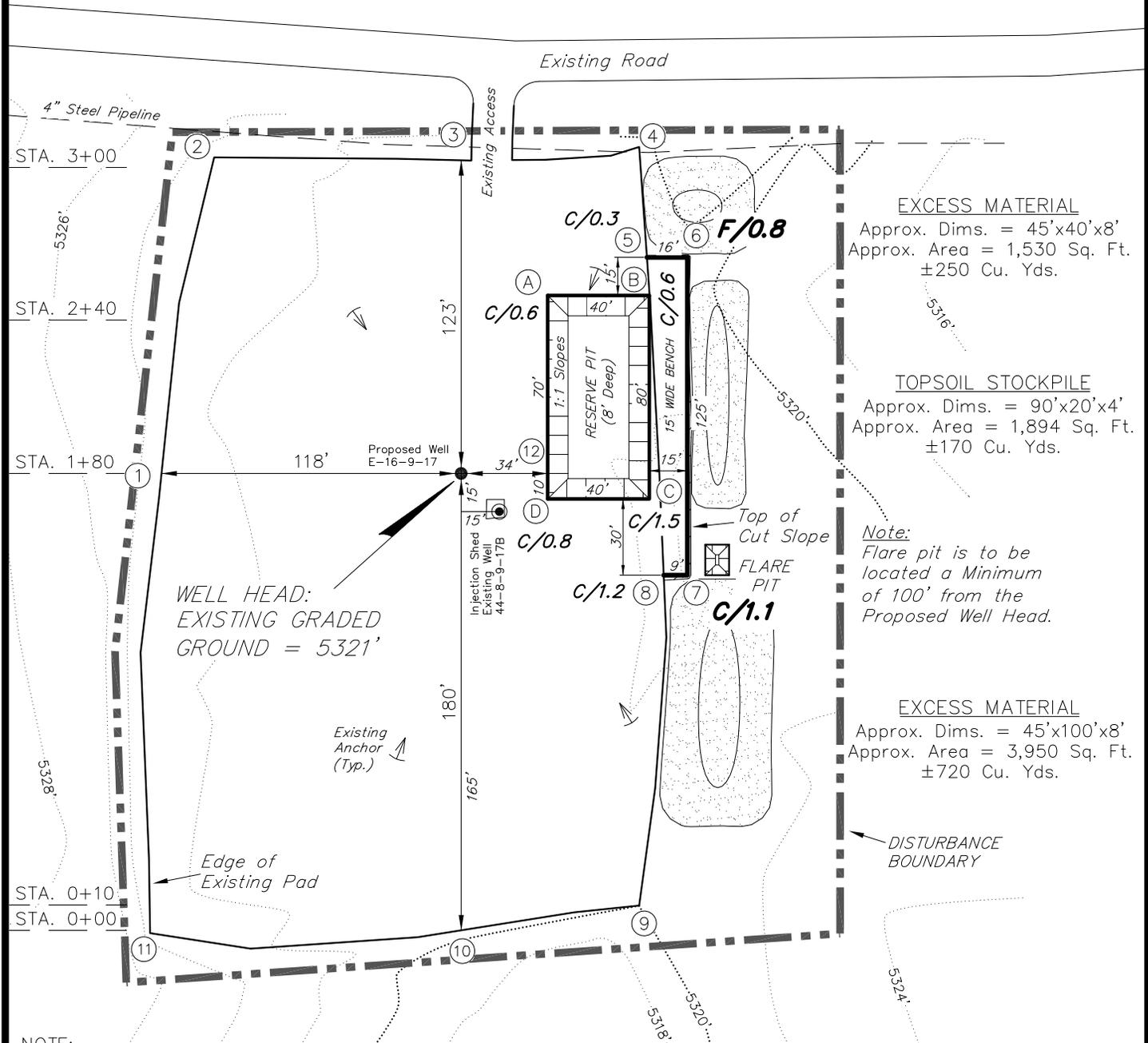
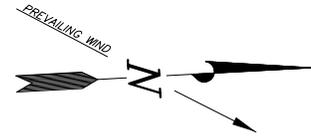
NEWFIELD EXPLORATION COMPANY

LOCATION LAYOUT

44-8-9-17B (Existing Well)

E-16-9-17 (Proposed Well)

Pad Location: SESE Section 8, T9S, R17E, S.L.B.&M.



EXCESS MATERIAL
 Approx. Dims. = 45'x40'x8'
 Approx. Area = 1,530 Sq. Ft.
 ±250 Cu. Yds.

TOPSOIL STOCKPILE
 Approx. Dims. = 90'x20'x4'
 Approx. Area = 1,894 Sq. Ft.
 ±170 Cu. Yds.

Note:
 Flare pit is to be located a Minimum of 100' from the Proposed Well Head.

EXCESS MATERIAL
 Approx. Dims. = 45'x100'x8'
 Approx. Area = 3,950 Sq. Ft.
 ±720 Cu. Yds.

Note:
 Topsoil to be Stripped From All New Construction Areas and Proposed Stock Pile Locations

NOTE:
 The topsoil & excess material areas are calculated as being mounds containing 1,140 cubic yards of dirt (a 10% fluff factor is included). The mound areas are calculated with push slopes of 1.5:1 & fall slopes of 1.5:1.

SURVEYED BY: S.H.	DATE SURVEYED: 09-06-11	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 09-07-11	V1
SCALE: 1" = 60'	REVISED:	

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

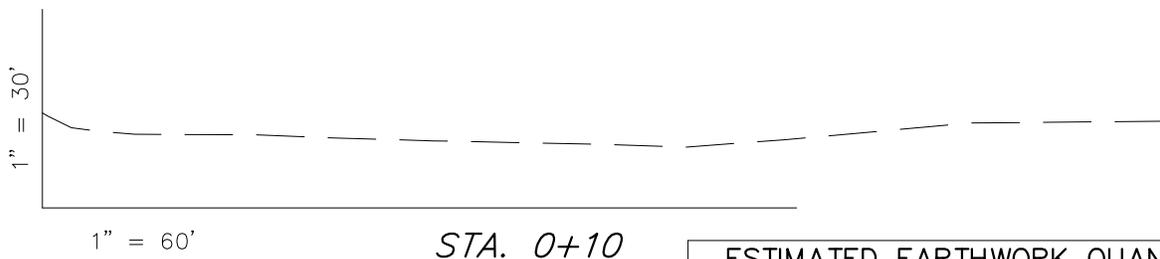
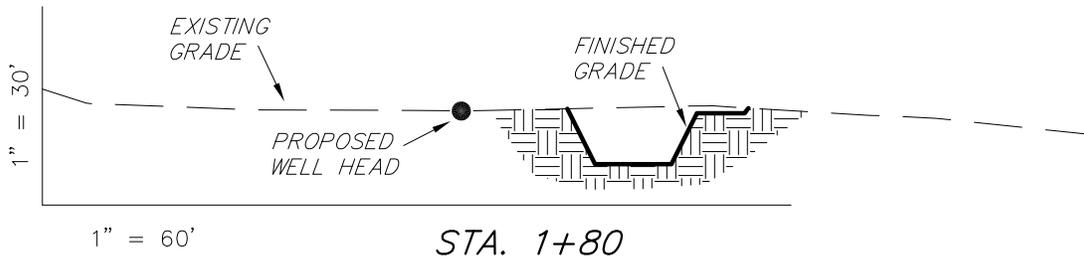
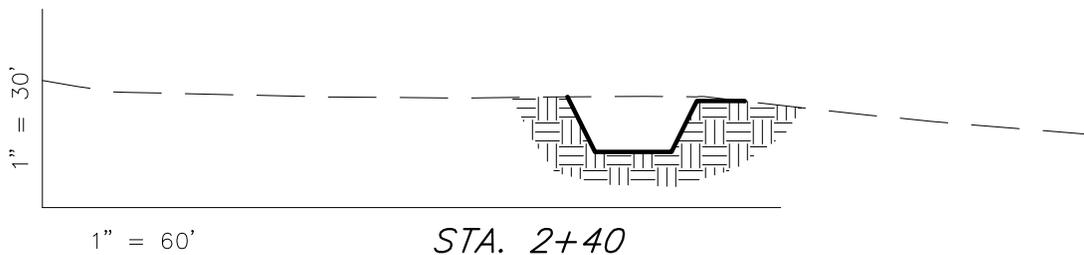
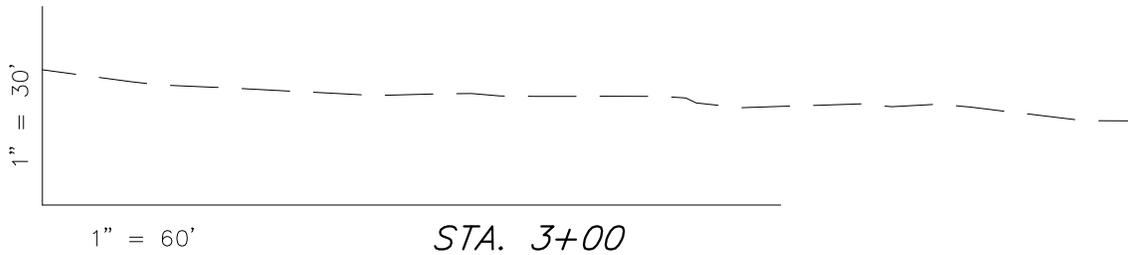
NEWFIELD EXPLORATION COMPANY

CROSS SECTIONS

44-8-9-17B (Existing Well)

E-16-9-17 (Proposed Well)

Pad Location: SESE Section 8, T9S, R17E, S.L.B.&M.



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

ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)				
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	190	0	Topsoil is not included in Pad Cut	190
PIT	690	0		690
TOTALS	880	0	150	880

SURVEYED BY: S.H.	DATE SURVEYED: 09-06-11	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 09-07-11	V1
SCALE: 1" = 60'	REVISED:	

Tri State

Land Surveying, Inc.

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

(435) 781-2501

RECEIVED: February 22, 2012

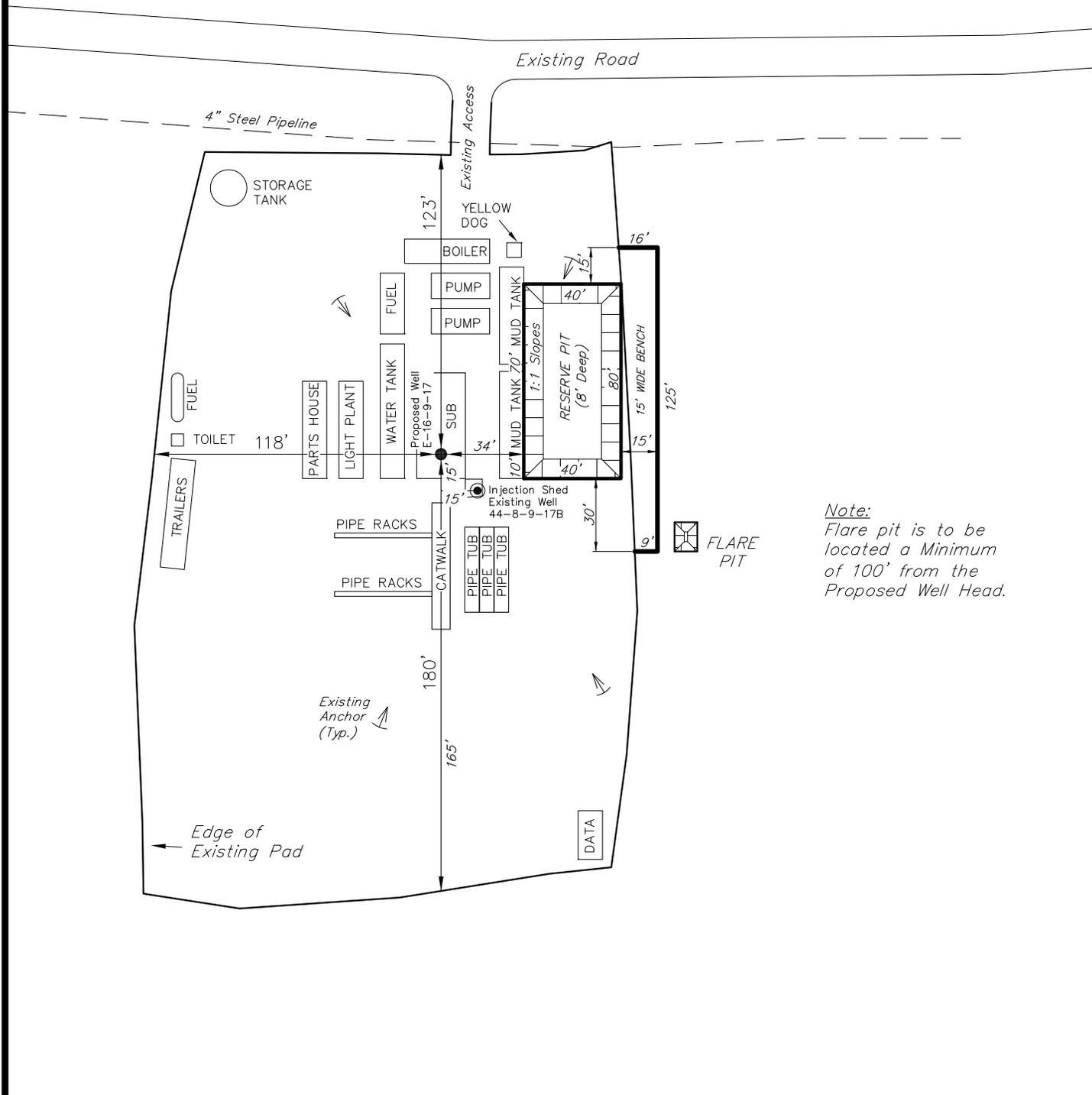
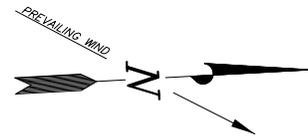
NEWFIELD EXPLORATION COMPANY

TYPICAL RIG LAYOUT

44-8-9-17B (Existing Well)

E-16-9-17 (Proposed Well)

Pad Location: SESE Section 8, T9S, R17E, S.L.B.&M.



Note:
Flare pit is to be located a Minimum of 100' from the Proposed Well Head.

SURVEYED BY: S.H.	DATE SURVEYED: 09-06-11	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 09-07-11	V1
SCALE: 1" = 60'	REVISED:	

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

RECEIVED: February 22, 2012



VIA ELECTRONIC DELIVERY

February 24, 2012

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
GMBU E-16-9-17
Greater Monument Butte (Green River) Unit

Surface Hole: T9S-R17E Section 8: SESE (UTU-74398)
589' FSL 616' FEL

At Target: T9S-R17E Section 16: NWNW (ML-3453B)
161' FSL 194' FWL

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 2/23/2012, a copy of which is attached, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

The surface hole and target locations of this well are both within the boundaries of the Greater Monument Butte Unit (UTU-87538X), of which Newfield certifies that it is the operator. Further, Newfield certifies that all lands within 460 feet of the entire directional well bore are within the Greater Monument Butte Unit.

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

NPC hereby requests our application for permit to drill be granted pursuant to R649-3-11. If you have any questions or require further information, please contact the undersigned at 303-383-4121 or by email at lburget@newfield.com. Your consideration in this matter is greatly appreciated.

Sincerely,
Newfield Production Company

A handwritten signature in blue ink that reads "Leslie Burget".

Leslie Burget
Land Associate

Form 3160-3
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU74398
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator NEWFIELD PRODUCTION COMPANY Contact: MANDIE CROZIER Email: mcrozier@newfield.com		7. If Unit or CA Agreement, Name and No. GREATER MONUMENT
3a. Address ROUTE #3 BOX 3630 MYTON, UT 84052		8. Lease Name and Well No. GMBU E-16-9-17
3b. Phone No. (include area code) Ph: 435-646-4825 Fx: 435-646-3031		9. API Well No.
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SESE 589FSL 616FEL At proposed prod. zone NWNW 161FSL 194FWL		10. Field and Pool, or Exploratory MONUMENT BUTTE
11. Sec., T., R., M., or Blk. and Survey or Area Sec 8 T9S R17E Mer SLB		12. County or Parish DUCHESNE
14. Distance in miles and direction from nearest town or post office* 13.9		13. State UT
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 161'	16. No. of Acres in Lease 40.00	17. Spacing Unit dedicated to this well 20.00
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 1555'	19. Proposed Depth 6166 MD 6050 TVD	20. BLM/BIA Bond No. on file WYB000493
21. Elevations (Show whether DF, KB, RT, GL, etc.) 5321 GL	22. Approximate date work will start 07/31/2012	23. Estimated duration 7 DAYS

24. Attachments

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

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | <ol style="list-style-type: none"> 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 5. Operator certification 6. Such other site specific information and/or plans as may be required by the authorized officer. |
|--|--|

25. Signature (Electronic Submission)	Name (Printed/Typed) MANDIE CROZIER Ph: 435-646-4825	Date 02/23/2012
Title REGULATORY ANALYST		
Approved by (Signature)	Name (Printed/Typed)	Date
Title	Office	

Application approval does not warrant or certify 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.

Additional Operator Remarks (see next page)

**Electronic Submission #131486 verified by the BLM Well Information System
For NEWFIELD PRODUCTION COMPANY, sent to the Vernal**

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

API Well Number: 43013512490000

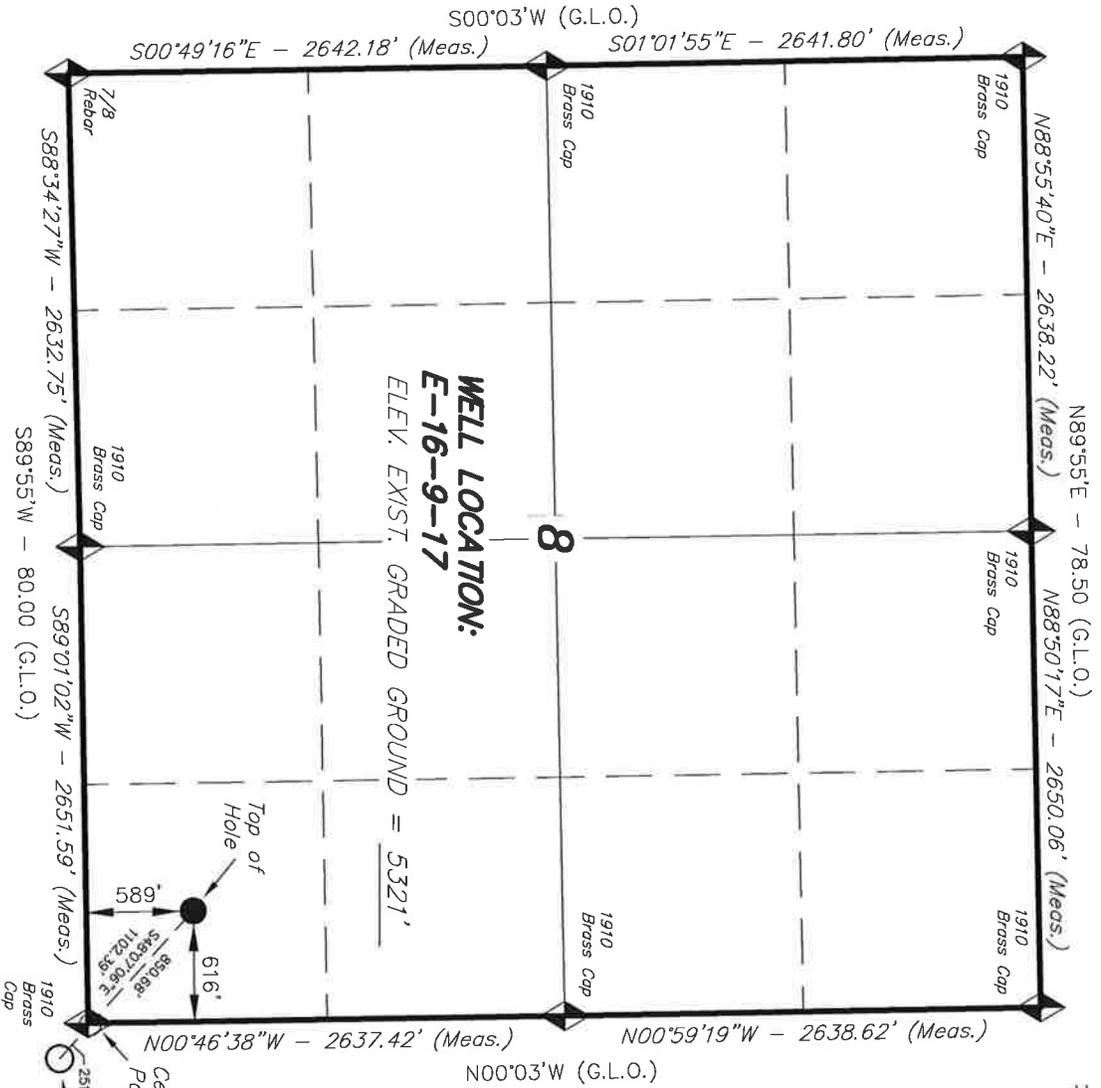
Additional Operator Remarks:

SURFACE LEASE: UTU-74398
BOTTOM HOLE LEASE: ML-3453B

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

NEWFIELD EXPLORATION COMPANY

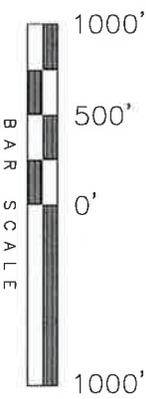
WELL LOCATION, E-16-9-17, LOCATED AS SHOWN IN THE SE 1/4 SE 1/4 OF SECTION 8, T9S, R17E, S.L.B.&M. DUCHESENE COUNTY, UTAH.



◆ = SECTION CORNERS LOCATED

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

E-16-9-17
(Surface Location) **MAD 83**
LATITUDE = 40° 02' 23.37"
LONGITUDE = 110° 01' 23.62"



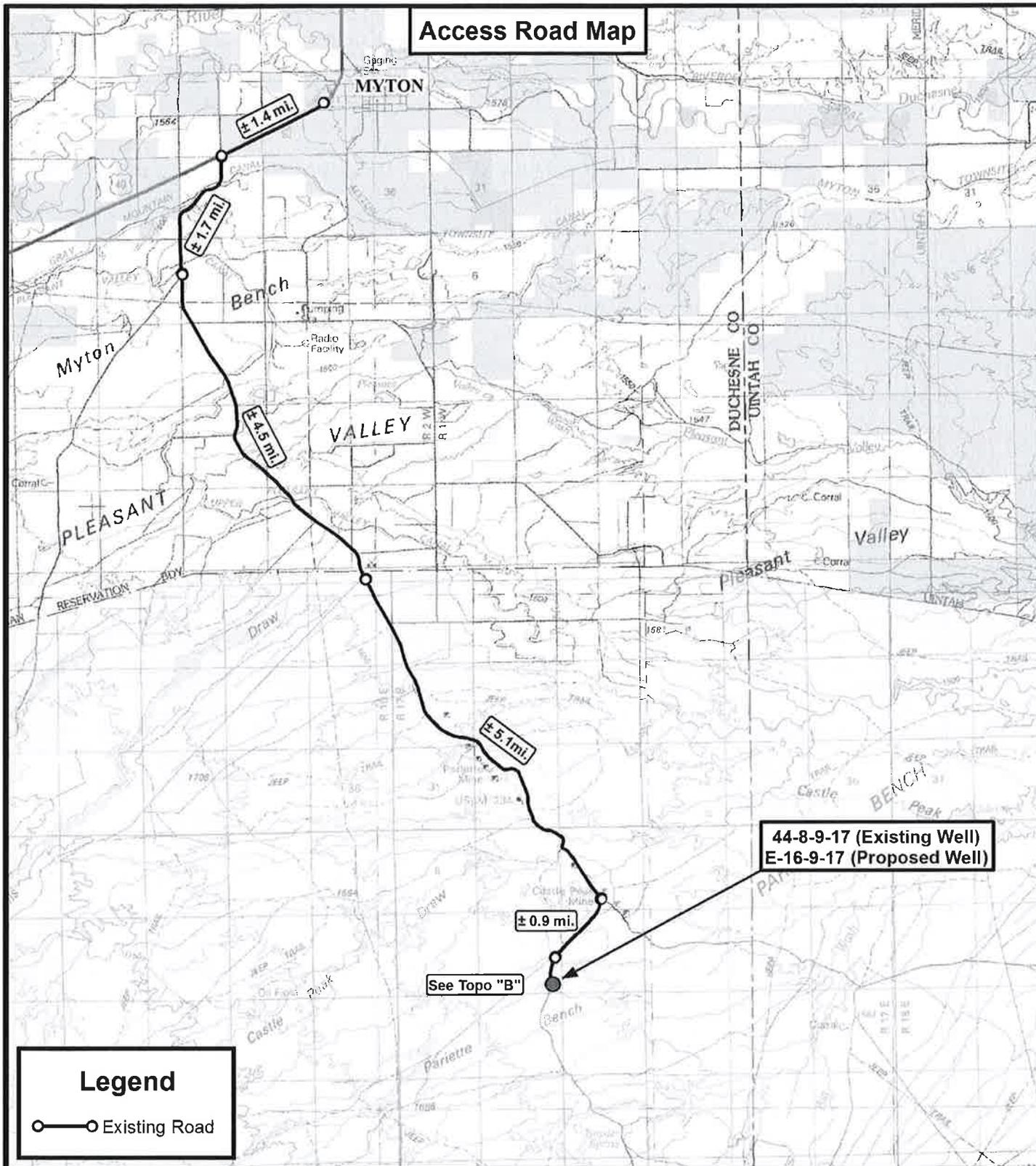
- NOTES:**
1. Well footages are measured at right angles to the Section Lines.
 2. Bearings are based on Global Positioning Satellite observations.



THIS IS TO CERTIFY THAT THE ABOVE SET WAS PREPARED FROM FIELD NOTES OF A QUALITY SURVEY 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
STATE OF UTAH
STACY W.
11-11-11
REGISTRATION NO. 189377

TRI STATE LAND SURVEYING & CONSULTING		VERSION:
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078		
DATE SURVEYED:	SURVEYED BY: S.H.	
09-06-11		
DATE DRAWN:	DRAWN BY: F.T.M.	
09-07-11		
REVISED:	SCALE: 1" = 1000'	V1



Access Road Map

**44-8-9-17 (Existing Well)
E-16-9-17 (Proposed Well)**

Legend

○—○ Existing Road



**Tri State
Land Surveying, Inc.**

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501
F: (435) 781-2518



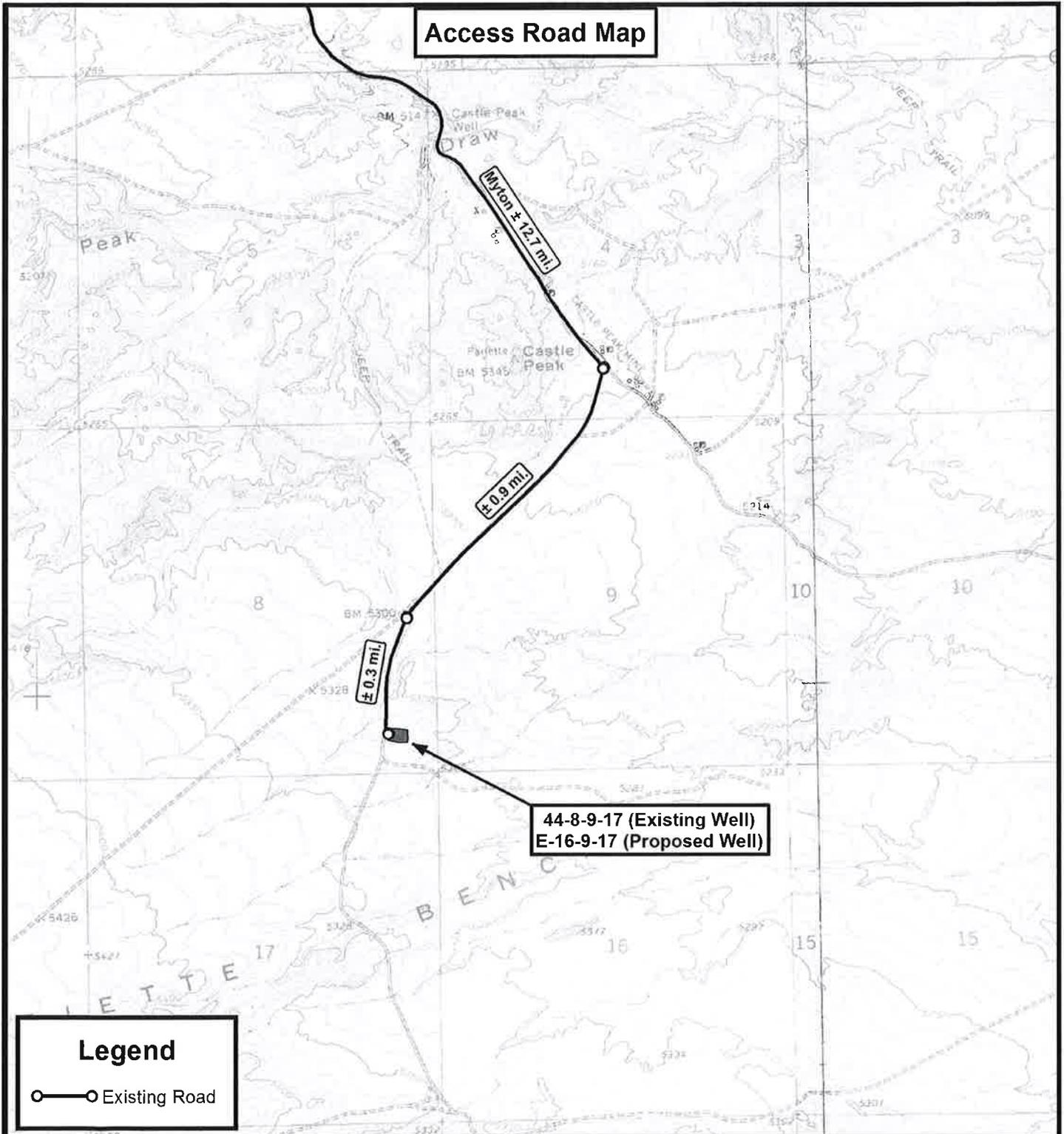
NEWFIELD EXPLORATION COMPANY

44-8-9-17 (Existing Well)
E-16-9-17 (Proposed Well)
SEC. 8, T9S, R17E, S.L.B.&M.
Duchesne County, UT.

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	10-20-2011		V1
SCALE:	1:100,000		

TOPOGRAPHIC MAP

SHEET
A



Legend

○— Existing Road

44-8-9-17 (Existing Well)
E-16-9-17 (Proposed Well)

THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.

Tri State Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501
F: (435) 781-2518



NEWFIELD EXPLORATION COMPANY

44-8-9-17 (Existing Well)
E-16-9-17 (Proposed Well)
SEC. 8, T9S, R17E, S.L.B.&M.
Duchesne County, UT.

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	10-20-2011		V1
SCALE:	1" = 2,000'		

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)

February 29, 2012

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2012 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 2012 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

API#	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-51243	GMBU G-12-9-16	Sec 12 T09S R16E 2057 FNL 2076 FWL
	BHL	Sec 12 T09S R16E 1157 FNL 1151 FWL
43-013-51244	GMBU K-8-9-17	Sec 09 T09S R17E 1998 FSL 0682 FWL
	BHL	Sec 08 T09S R17E 2364 FNL 0367 FEL
43-013-51245	GMBU H-12-9-16	Sec 12 T09S R16E 2040 FNL 2088 FWL
	BHL	Sec 12 T09S R16E 0931 FNL 2606 FEL
43-013-51246	GMBU L-12-9-16	Sec 12 T09S R16E 1865 FNL 2117 FEL
	BHL	Sec 12 T09S R16E 2298 FSL 1308 FEL
43-013-51247	GMBU X-9-9-17	Sec 16 T09S R17E 0627 FNL 1959 FWL
	BHL	Sec 09 T09S R17E 0045 FSL 1182 FWL
43-013-51249	GMBU E-16-9-17	Sec 08 T09S R17E 0589 FSL 0616 FEL
	BHL	Sec 16 T09S R17E 0161 FNL 0194 FWL
43-013-51250	GMBU T-8-9-17	Sec 09 T09S R17E 1996 FSL 0703 FWL
	BHL	Sec 08 T09S R17E 1088 FSL 0163 FWL
43-013-51251	GMBU V-9-9-17	Sec 16 T09S R17E 0880 FNL 0791 FEL
	BHL	Sec 09 T09S R17E 0322 FSL 1365 FEL

RECEIVED: February 29, 2012

API#	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-51252	GMBU I-12-9-16	Sec 12 T09S R16E 1844 FNL 2118 FEL BHL Sec 12 T09S R16E 1423 FNL 0706 FEL
43-013-51253	GMBU Y-10-9-17	Sec 16 T09S R17E 0877 FNL 0770 FEL BHL Sec 10 T09S R17E 0245 FSL 0131 FWL

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

Michael L. Coulthard

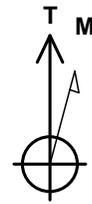
Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land
Management, ou=Branch of Minerals,
email=Michael_Coulthard@blm.gov, c=US
Date: 2012.02.29 12:09:32 -07'00'

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

MCoulthard:mc:2-29-12



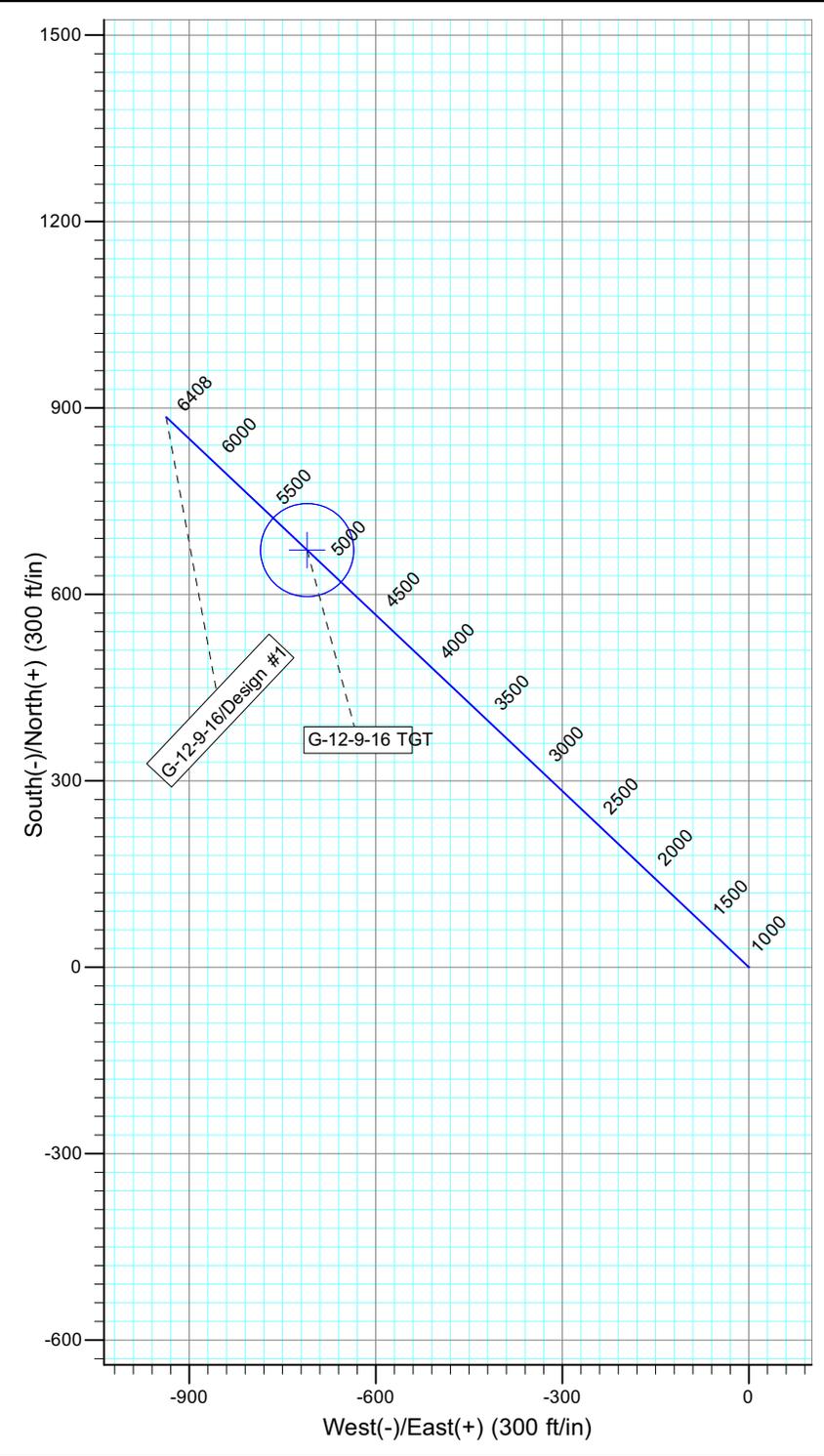
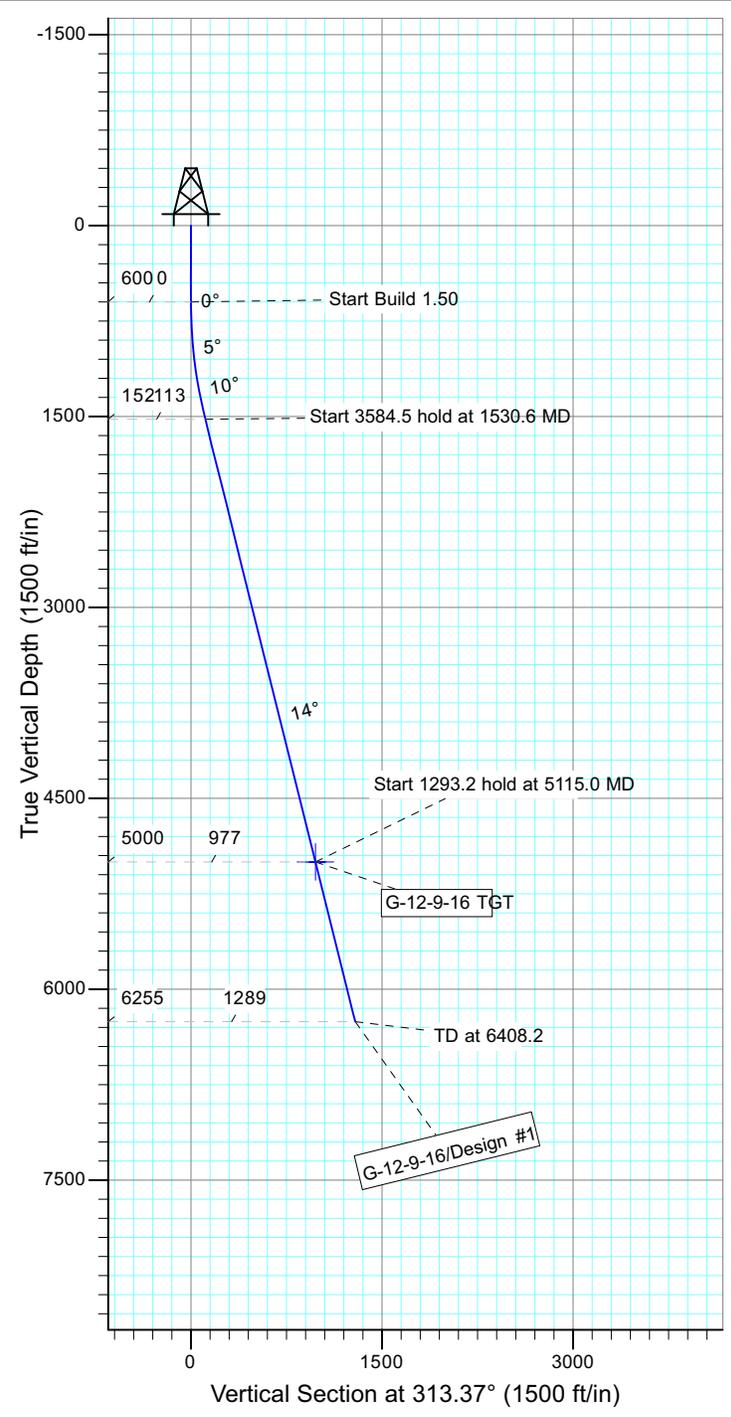
Project: USGS Myton SW (UT)
 Site: SECTION 12 T9, R16
 Well: G-12-9-16
 Wellbore: Wellbore #1
 Design: Design #1



Azimuths to True North
 Magnetic North: 11.28°

Magnetic Field
 Strength: 52246.6snT
 Dip Angle: 65.79°
 Date: 2011/09/11
 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-12-9-16 TGT	5000.0	671.2	-710.5	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	1530.6	13.96	313.37	1521.4	77.5	-82.0	1.50	313.37	112.8	
4	5115.0	13.96	313.37	5000.0	671.2	-710.5	0.00	0.00	977.4	G-12-9-16 TGT
5	6408.2	13.96	313.37	6255.0	885.4	-937.3	0.00	0.00	1289.4	





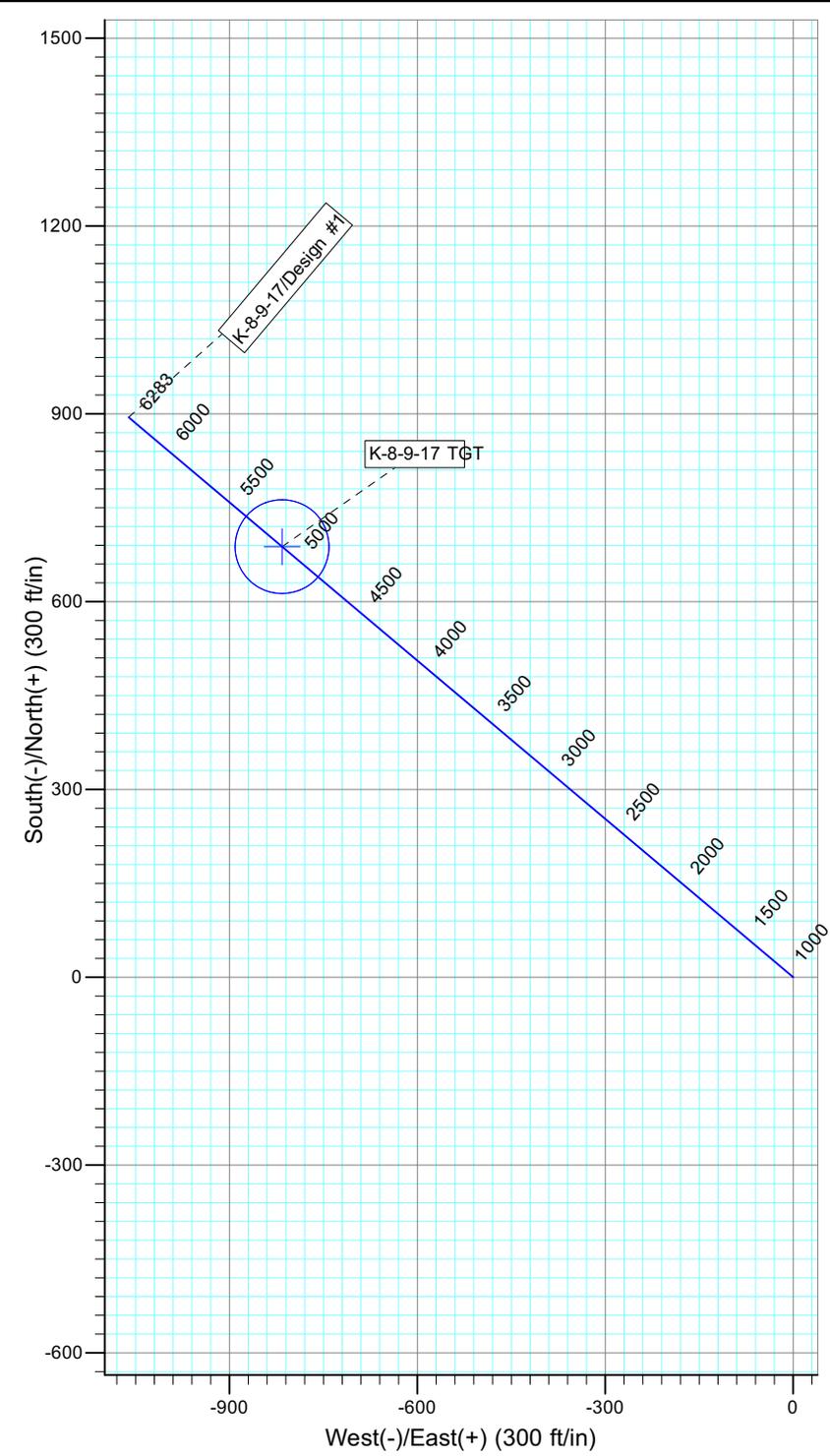
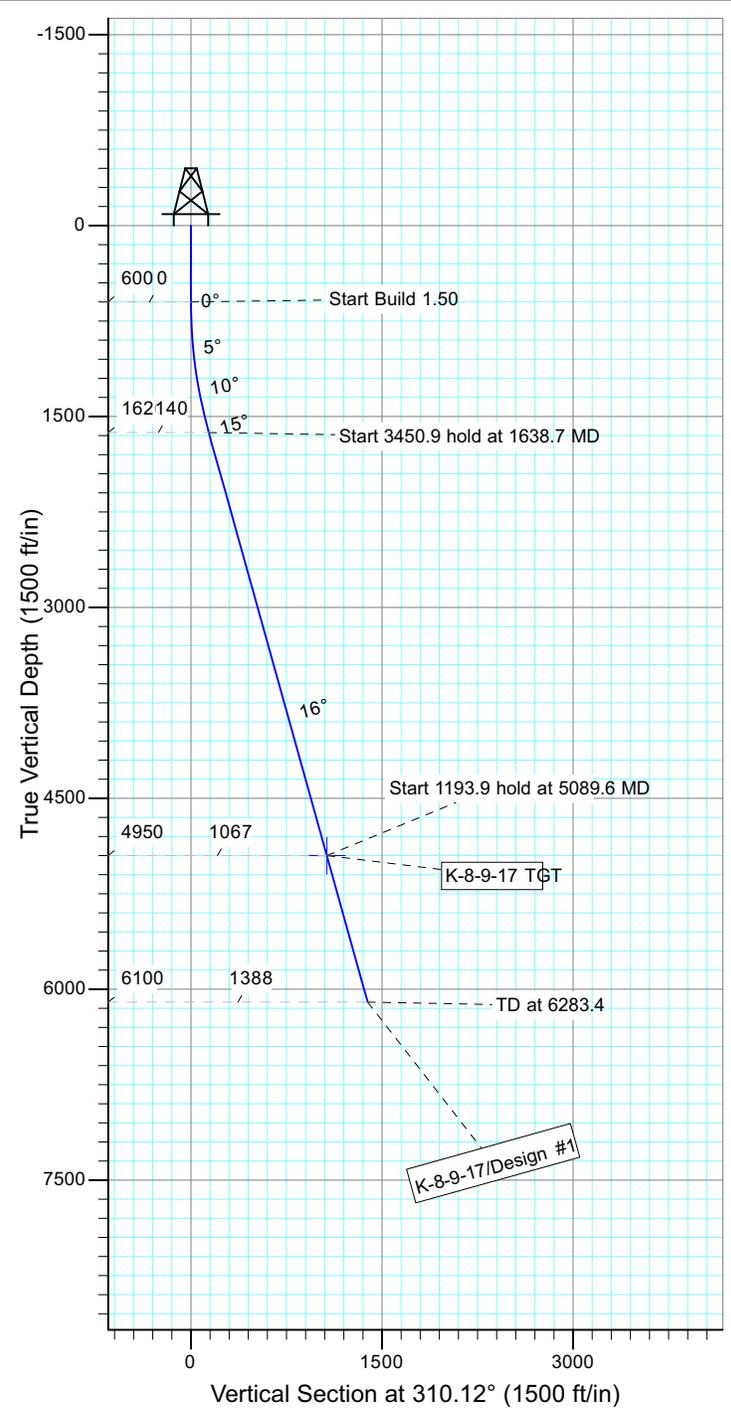
Project: USGS Myton SW (UT)
 Site: SECTION 9 T9, R17
 Well: K-8-9-17
 Wellbore: Wellbore #1
 Design: Design #1



Azimuths to True North
 Magnetic North: 11.26°

Magnetic Field
 Strength: 52253.9snT
 Dip Angle: 65.80°
 Date: 2011/09/11
 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-8-9-17 TGT	4950.0	687.7	-816.1	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	1638.7	15.58	310.12	1625.9	90.4	-107.3	1.50	310.12	140.4	
4	5089.6	15.58	310.12	4950.0	687.7	-816.1	0.00	0.00	1067.2	K-8-9-17 TGT
5	6283.4	15.58	310.12	6100.0	894.3	-1061.3	0.00	0.00	1387.9	





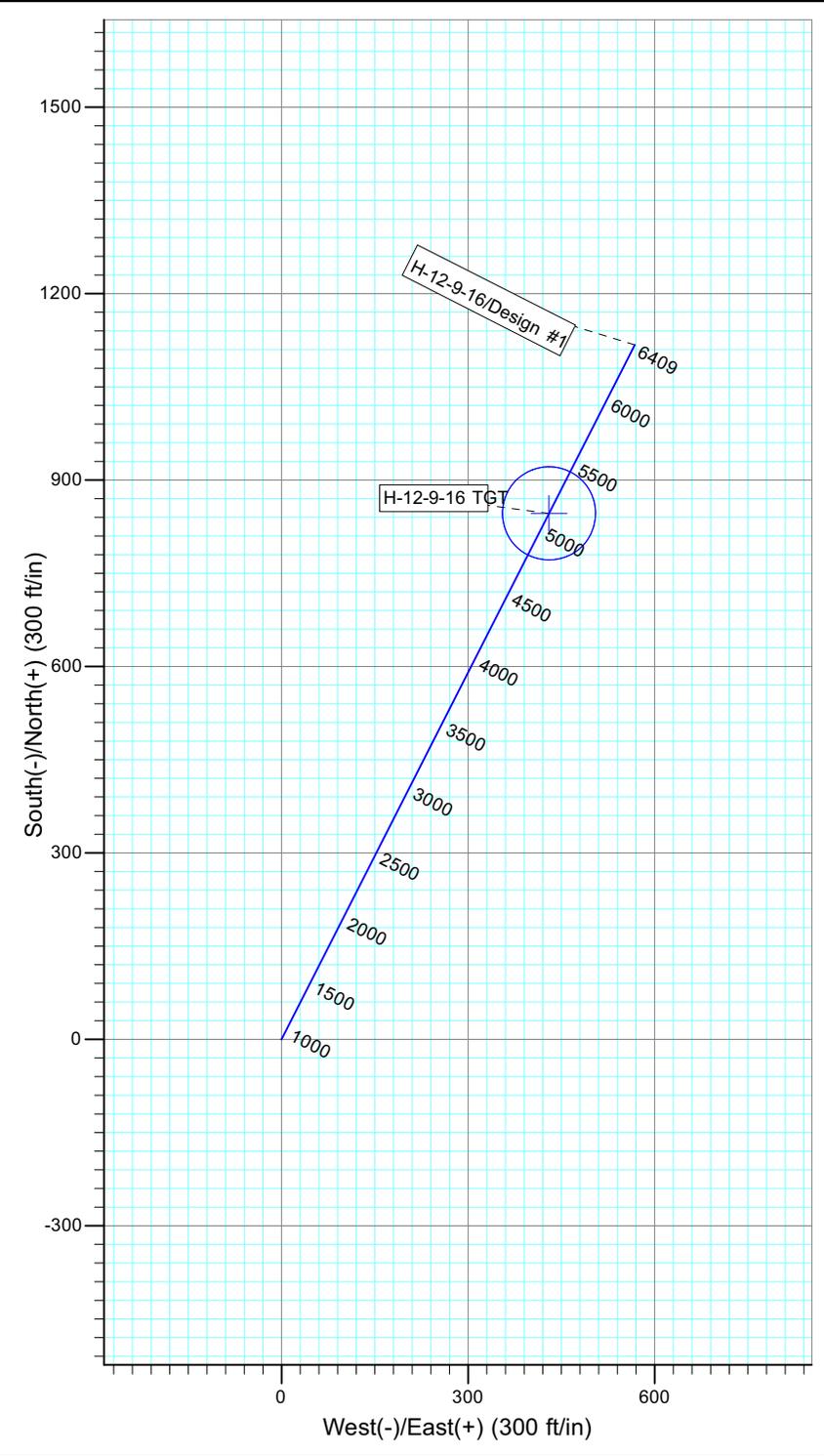
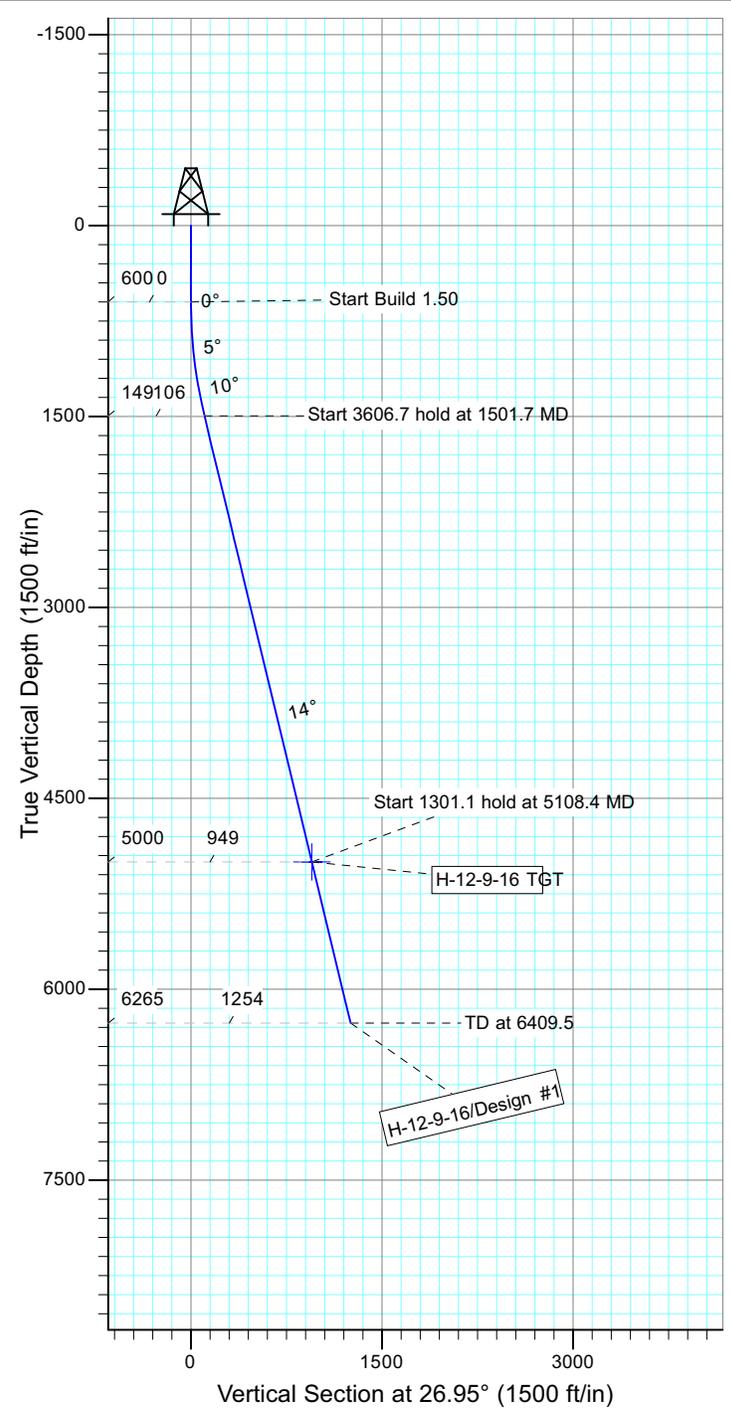
Project: USGS Myton SW (UT)
 Site: SECTION 12 T9, R16
 Well: H-12-9-16
 Wellbore: Wellbore #1
 Design: Design #1



Azimuths to True North
 Magnetic North: 11.28°

Magnetic Field
 Strength: 52246.6snT
 Dip Angle: 65.79°
 Date: 2011/09/11
 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-12-9-16 TGT	5000.0	846.4	430.3	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	1501.7	13.53	26.95	1493.4	94.4	48.0	1.50	26.95	105.9	
4	5108.4	13.53	26.95	5000.0	846.4	430.3	0.00	0.00	949.5	H-12-9-16 TGT
5	6409.5	13.53	26.95	6265.0	1117.6	568.2	0.00	0.00	1253.8	





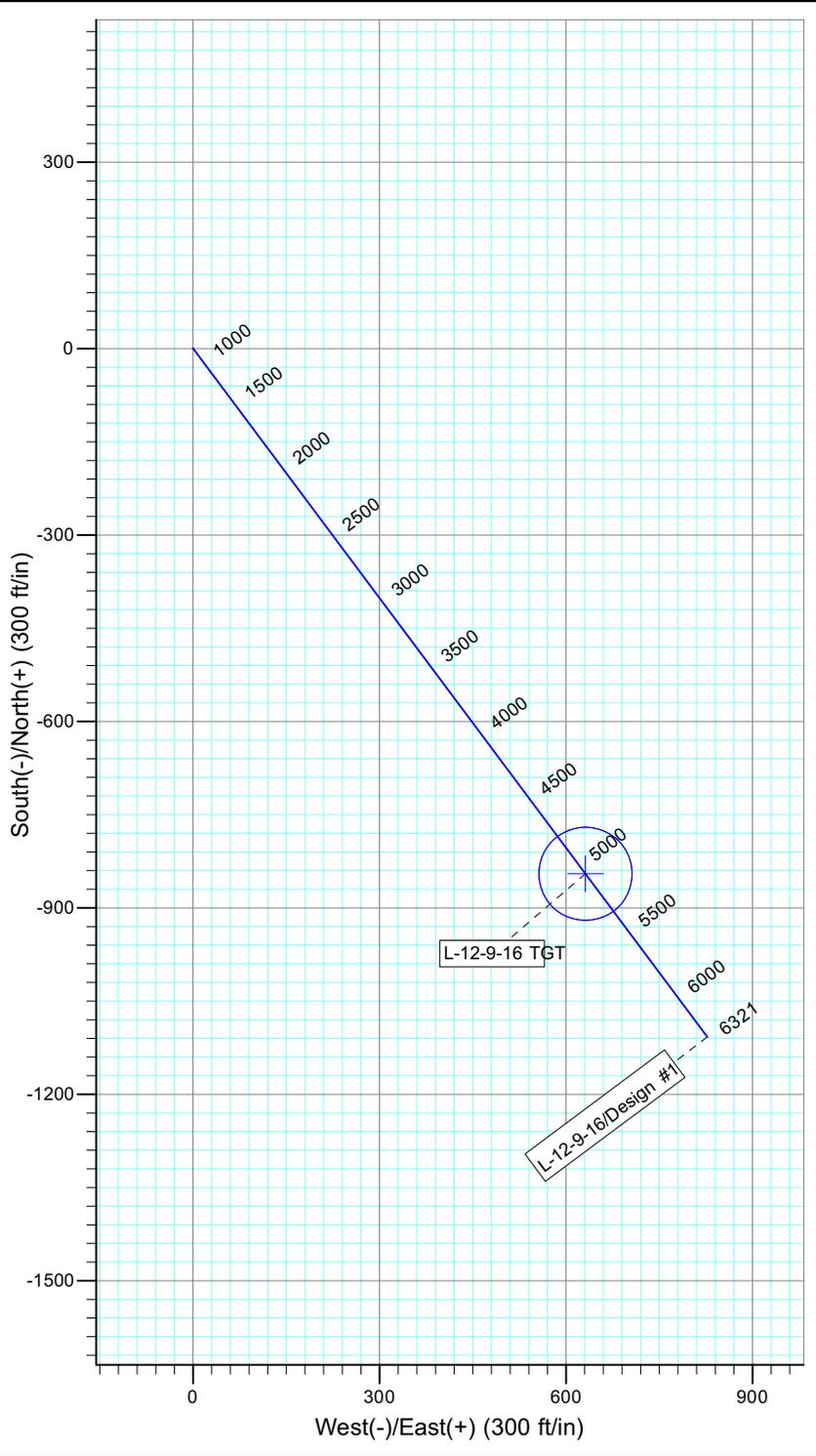
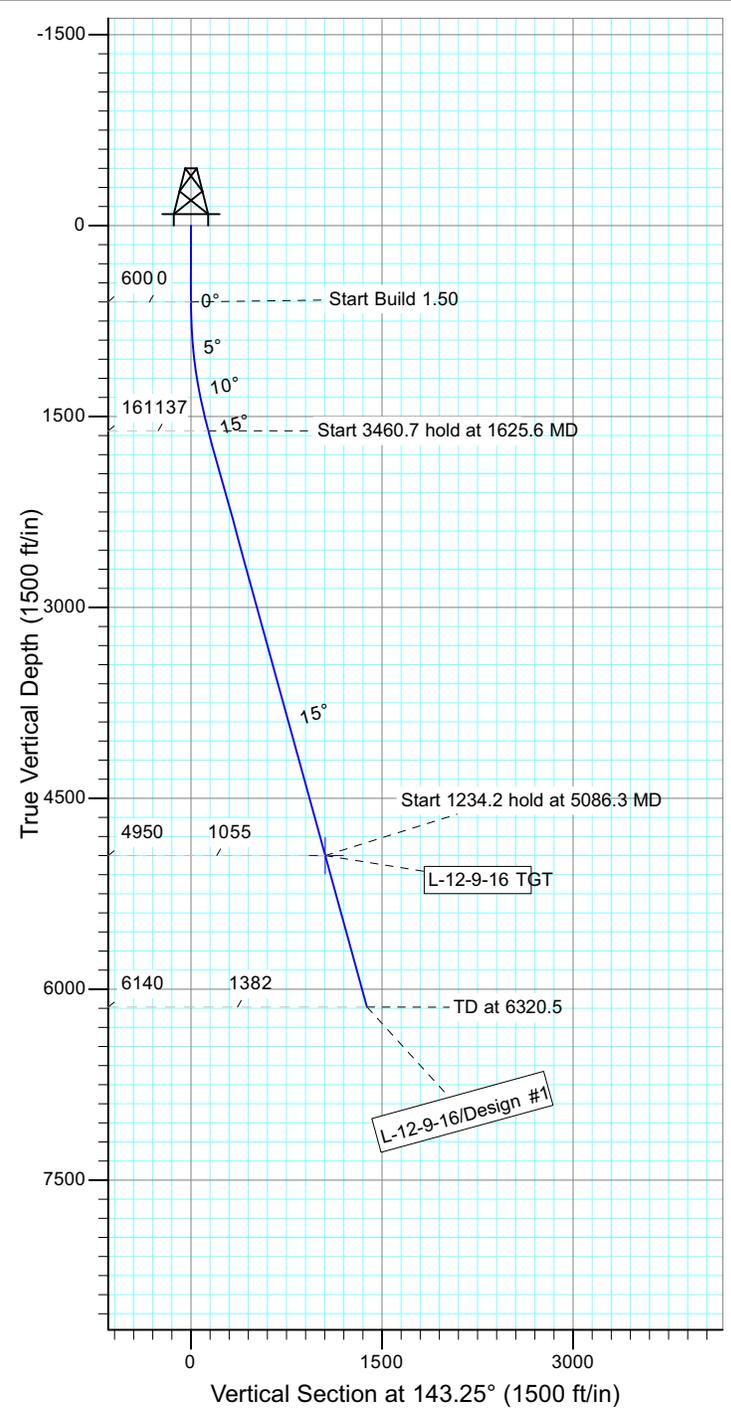
Project: USGS Myton SW (UT)
 Site: SECTION 12 T9, R16
 Well: L-12-9-16
 Wellbore: Wellbore #1
 Design: Design #1



Azimuths to True North
 Magnetic North: 11.28°

Magnetic Field
 Strength: 52248.1snT
 Dip Angle: 65.79°
 Date: 2011/09/11
 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-12-9-16 TGT	4950.0	-845.3	631.2	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	1625.6	15.38	143.25	1613.3	-109.7	81.9	1.50	143.25	136.9	
4	5086.3	15.38	143.25	4950.0	-845.3	631.2	0.00	0.00	1054.9	L-12-9-16 TGT
5	6320.5	15.38	143.25	6140.0	-1107.6	827.1	0.00	0.00	1382.4	





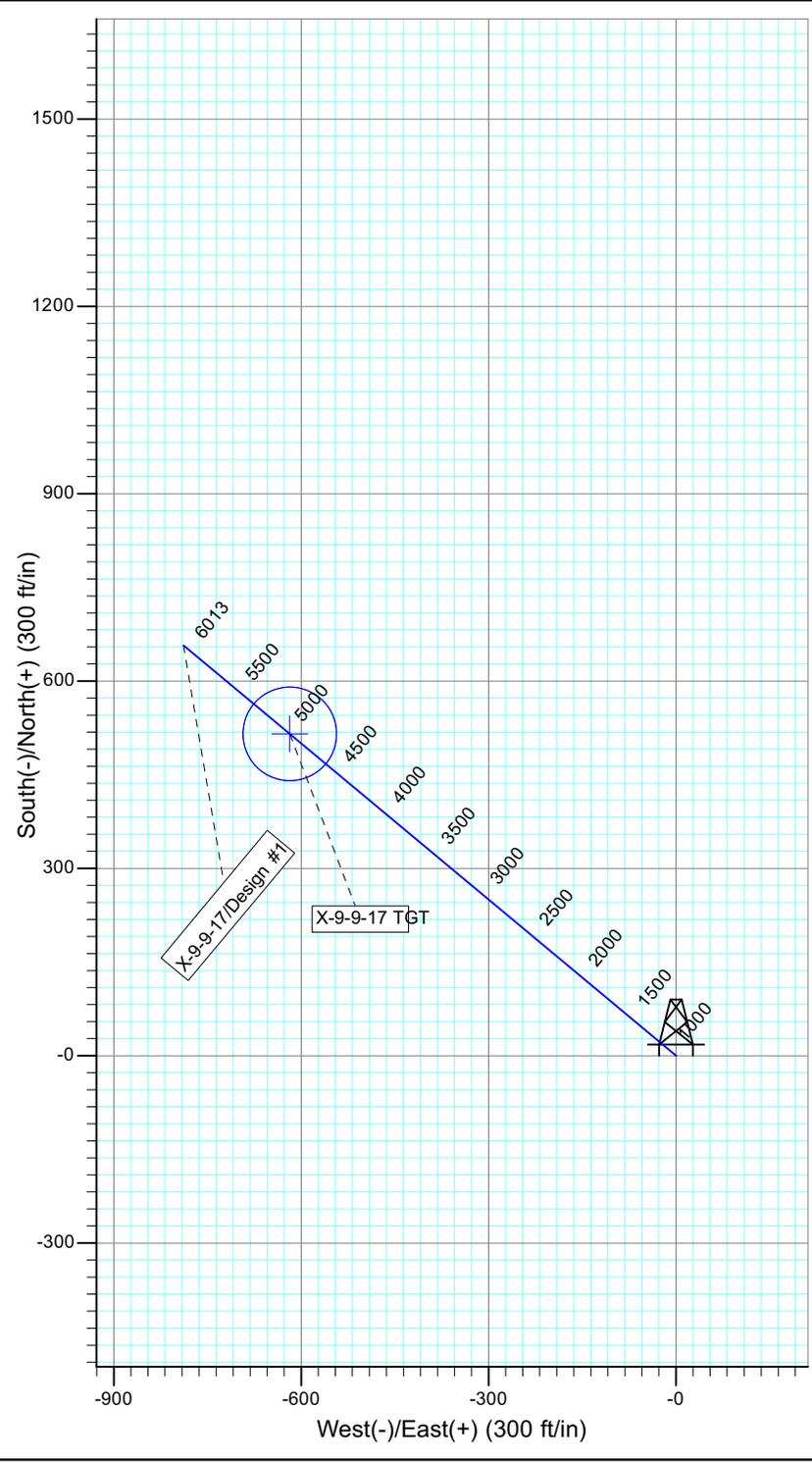
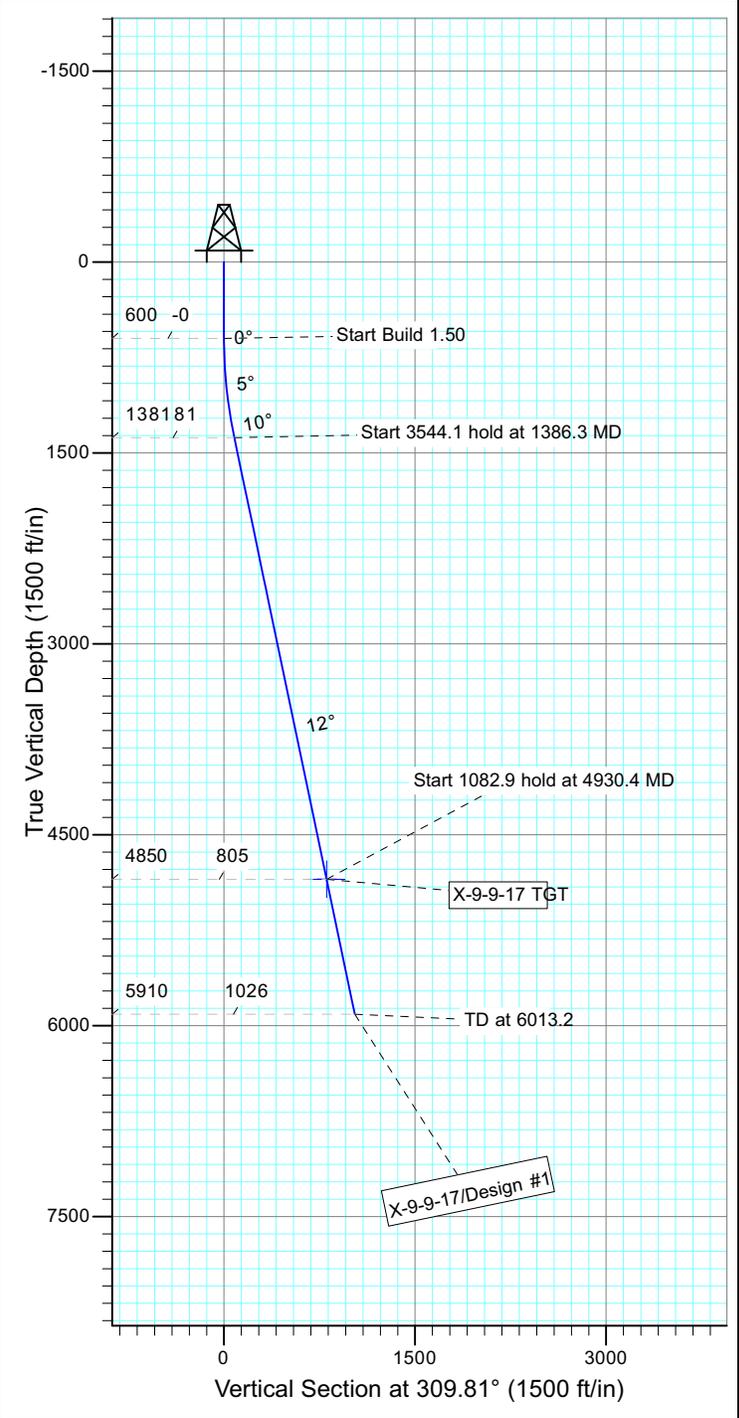
Project: USGS Myton SW (UT)
 Site: SECTION 16 T9S, R17E
 Well: X-9-9-17
 Wellbore: Wellbore #1
 Design: Design #1



Azimuths to True North
 Magnetic North: 11.32°

Magnetic Field
 Strength: 52292.8snT
 Dip Angle: 65.80°
 Date: 4/8/2011
 Model: IGRF2010

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



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
X-9-9-17 TGT	4850.0	515.4	-618.4	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	1386.3	11.79	309.81	1380.7	51.6	-61.9	1.50	309.81	80.6	
4	4930.4	11.79	309.81	4850.0	515.4	-618.4	0.00	0.00	805.0	X-9-9-17 TGT
5	6013.2	11.79	309.81	5910.0	657.1	-788.4	0.00	0.00	1026.4	





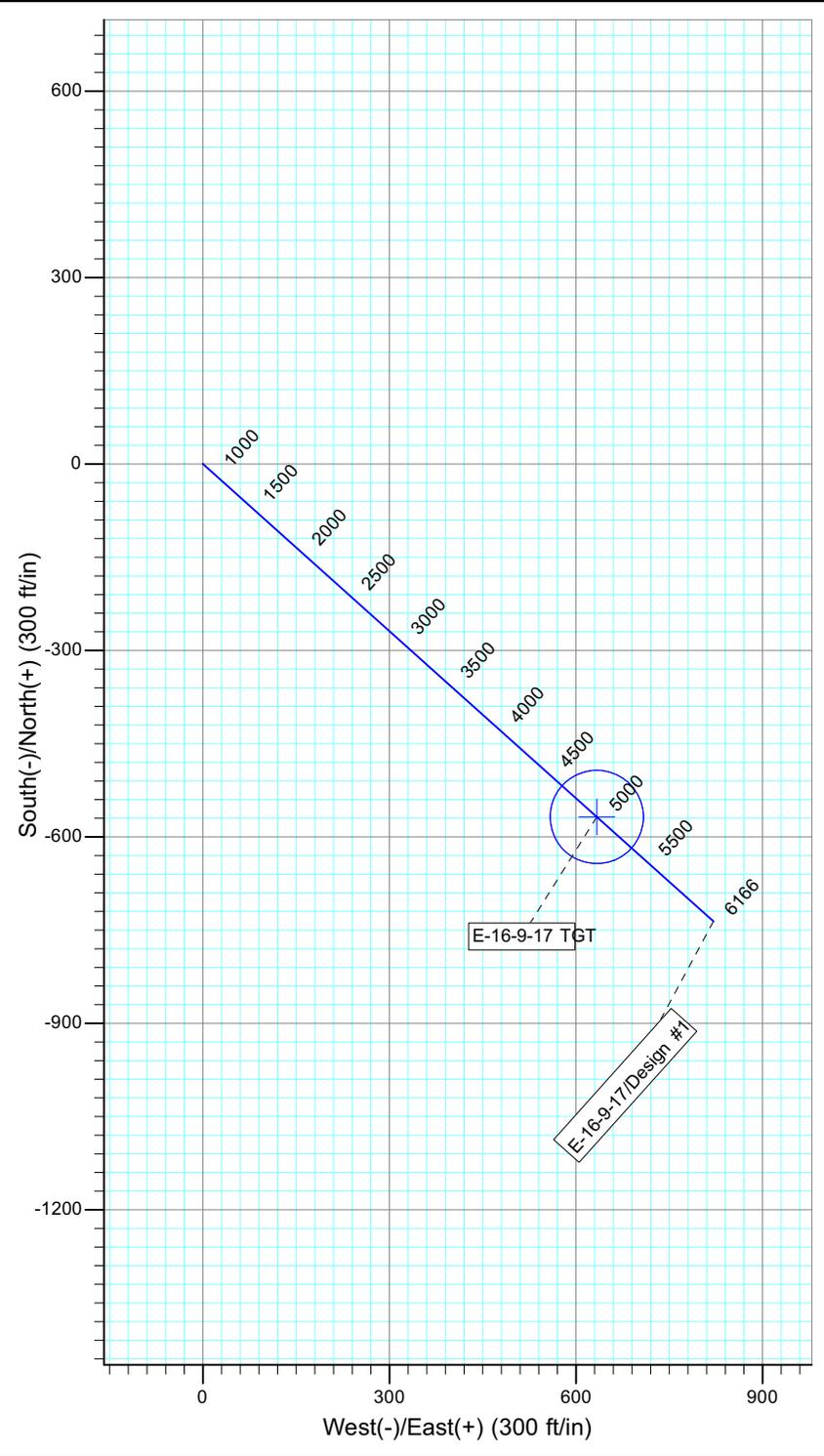
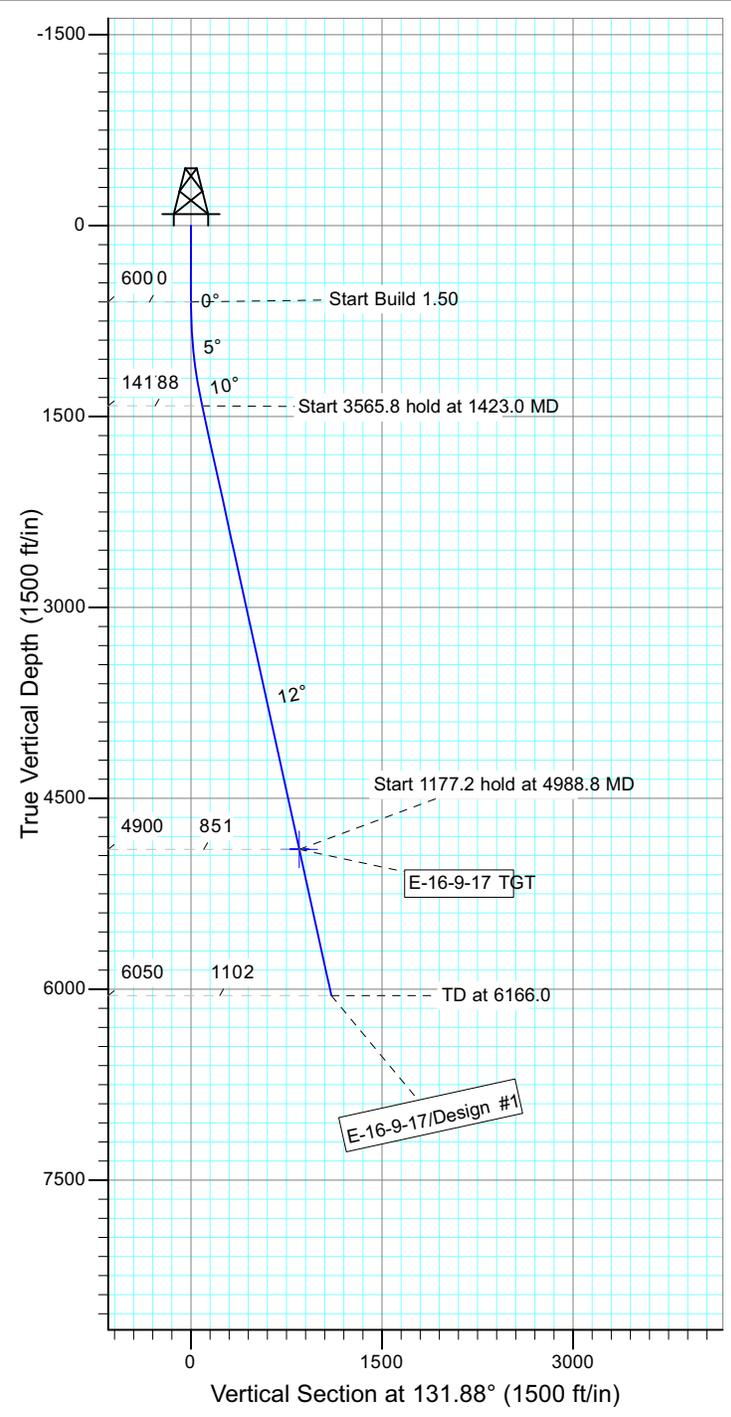
Project: USGS Myton SW (UT)
 Site: SECTION 8 T9S, R17E
 Well: E-16-9-17
 Wellbore: Wellbore #1
 Design: Design #1



Azimuths to True North
 Magnetic North: 11.26°

Magnetic Field
 Strength: 52250.0snT
 Dip Angle: 65.79°
 Date: 2011/09/14
 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-16-9-17 TGT	4900.0	-567.9	633.4	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	1423.0	12.35	131.88	1416.6	-59.0	65.8	1.50	131.88	88.3	
4	4988.8	12.35	131.88	4900.0	-567.9	633.4	0.00	0.00	850.7	E-16-9-17 TGT
5	6166.0	12.35	131.88	6050.0	-735.9	820.8	0.00	0.00	1102.4	





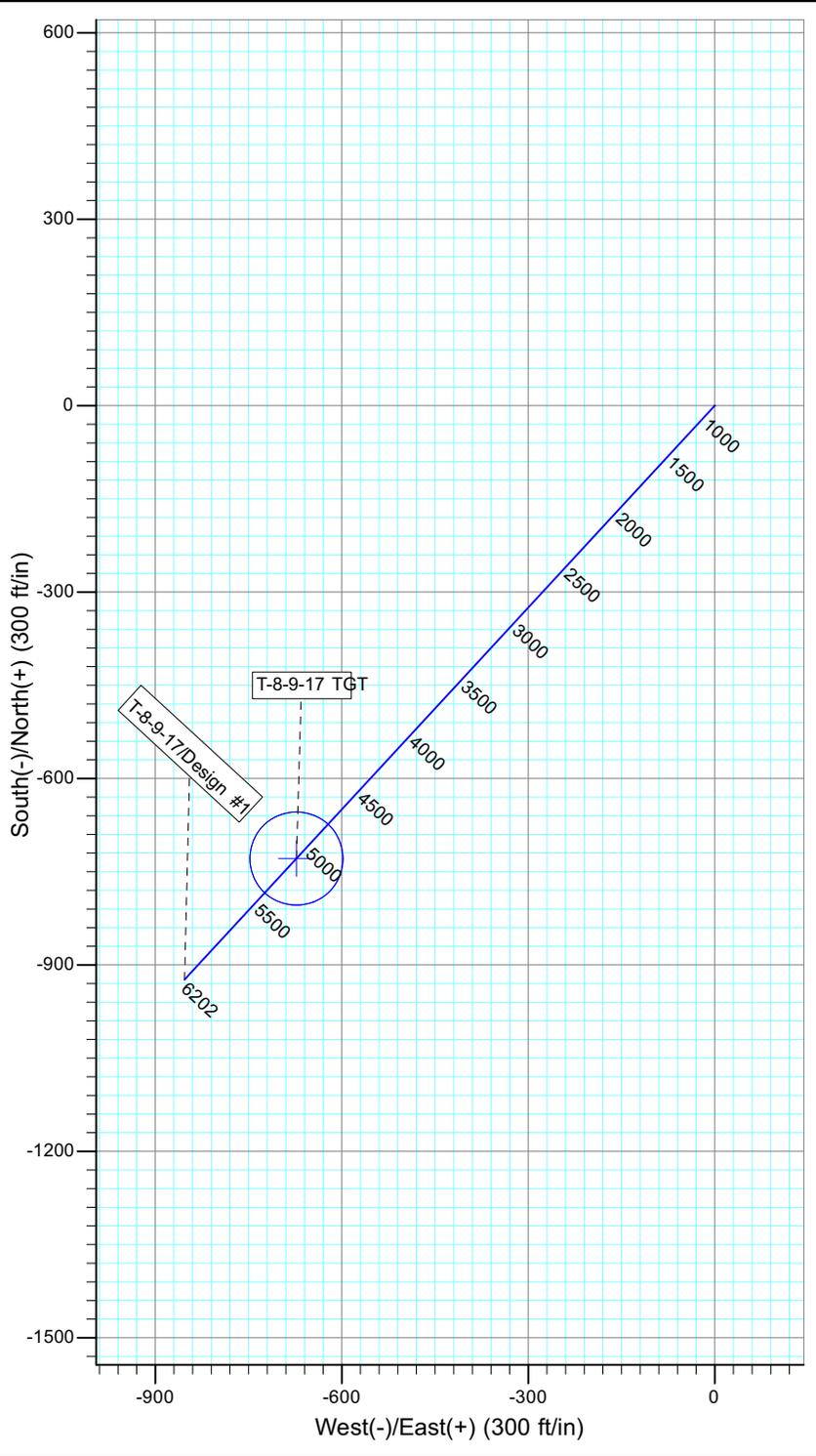
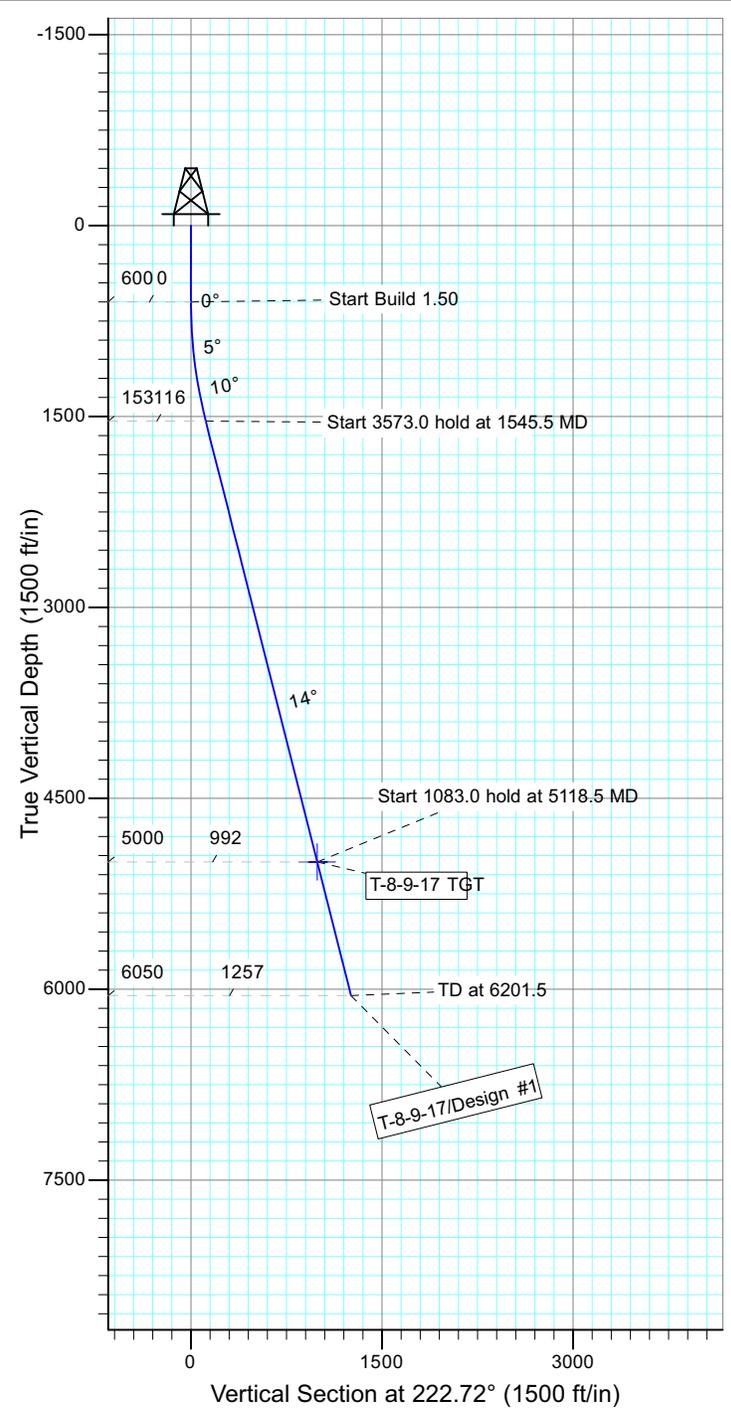
Project: USGS Myton SW (UT)
 Site: SECTION 9 T9, R17
 Well: T-8-9-17
 Wellbore: Wellbore #1
 Design: Design #1



Azimuths to True North
 Magnetic North: 11.26°

Magnetic Field
 Strength: 52253.9snT
 Dip Angle: 65.80°
 Date: 2011/09/11
 Model: IGRF2010

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



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
T-8-9-17 TGT	5000.0	-728.7	-672.9	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	1545.5	14.18	222.72	1535.9	-85.5	-79.0	1.50	222.72	116.4	
4	5118.5	14.18	222.72	5000.0	-728.7	-672.9	0.00	0.00	991.8	T-8-9-17 TGT
5	6201.5	14.18	222.72	6050.0	-923.6	-852.9	0.00	0.00	1257.2	





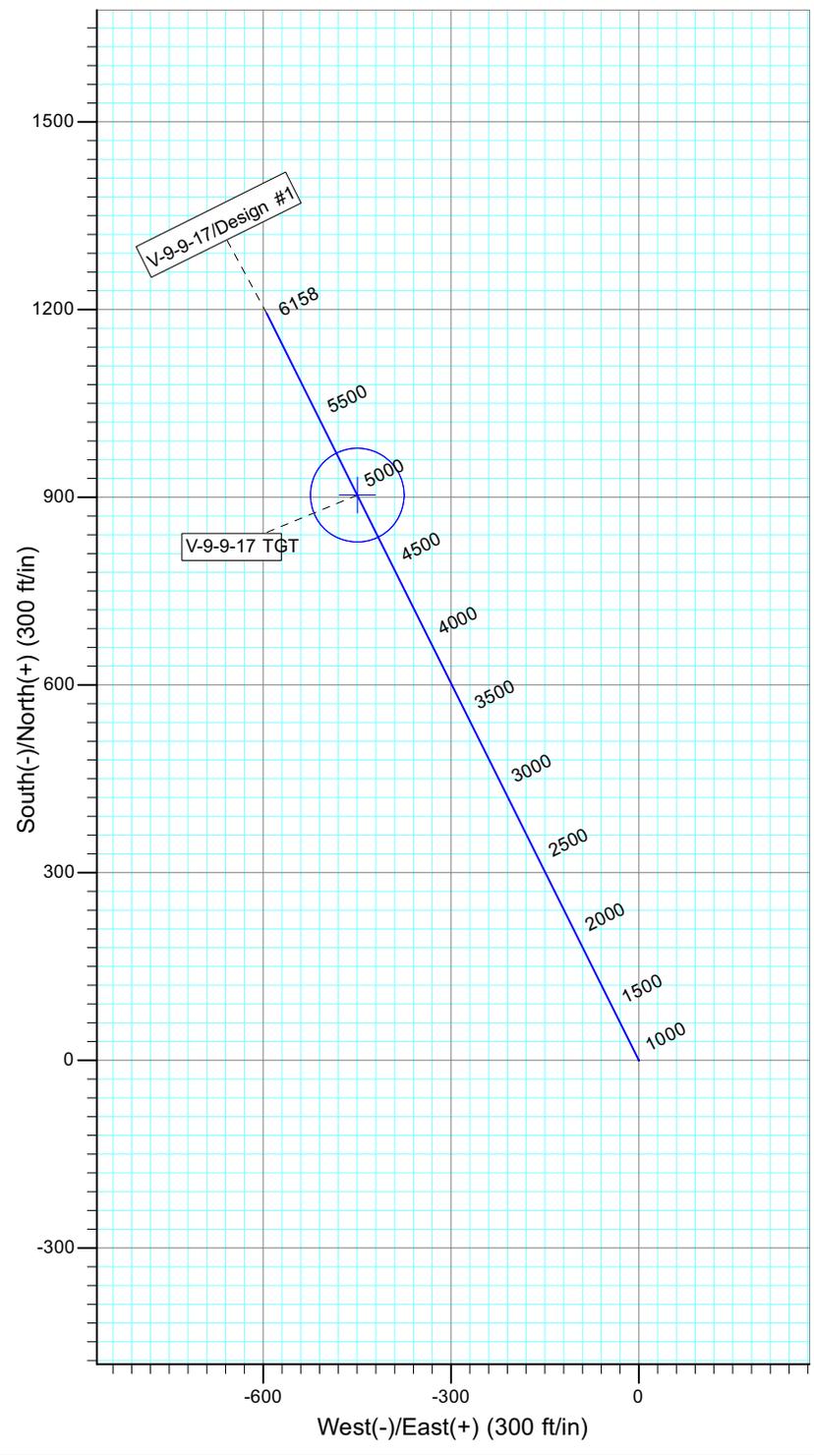
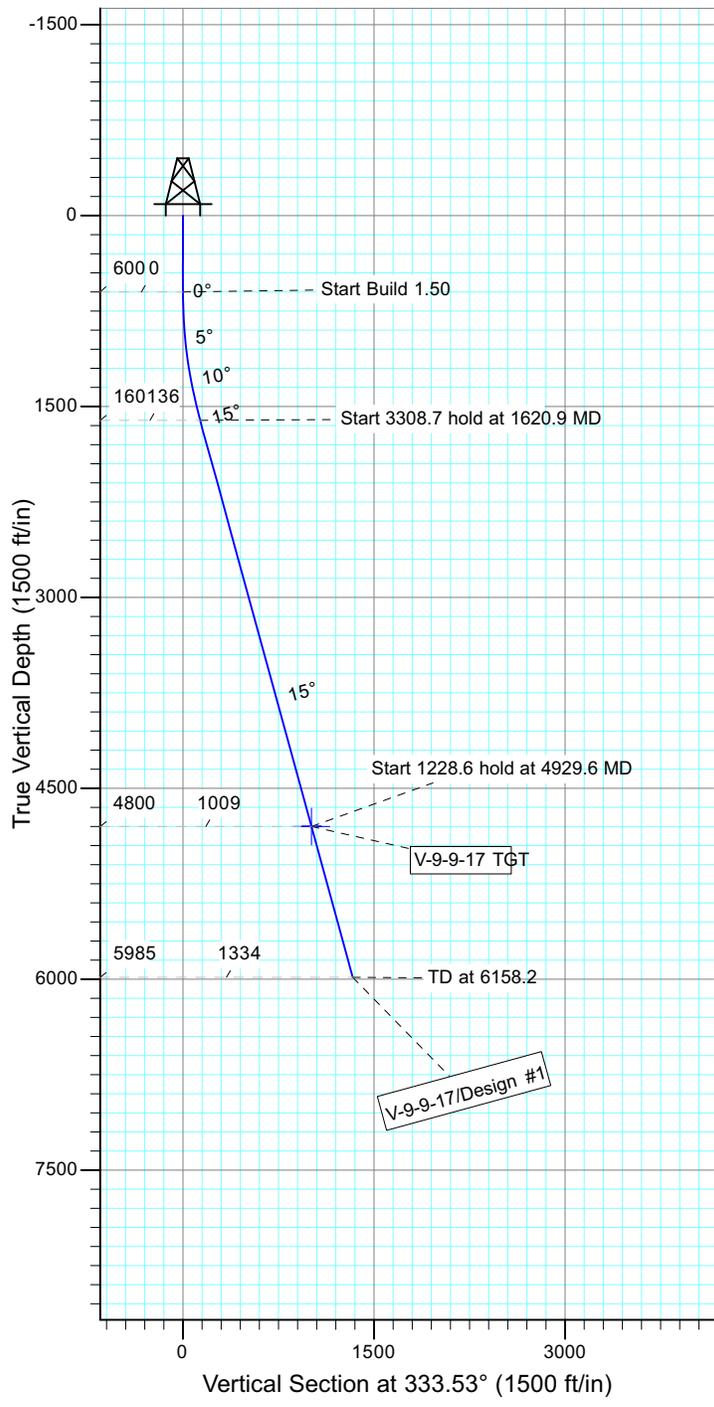
Project: USGS Myton SW (UT)
 Site: SECTION 16 T9S, R17E
 Well: V-9-9-17
 Wellbore: Wellbore #1
 Design: Design #1



Azimuths to True North
 Magnetic North: 11.26°

Magnetic Field
 Strength: 52251.0snT
 Dip Angle: 65.79°
 Date: 2011/09/14
 Model: IGRF2010

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



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
V-9-9-17 TGT	4800.0	903.6	-449.9	Circle (Radius: 75.0)

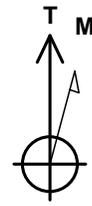
SECTION DETAILS

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	1620.9	15.31	333.53	1608.7	121.4	-60.4	1.50	333.53	135.6	
4	4929.6	15.31	333.53	4800.0	903.6	-449.9	0.00	0.00	1009.4	V-9-9-17 TGT
5	6158.2	15.31	333.53	5985.0	1194.0	-594.5	0.00	0.00	1333.9	





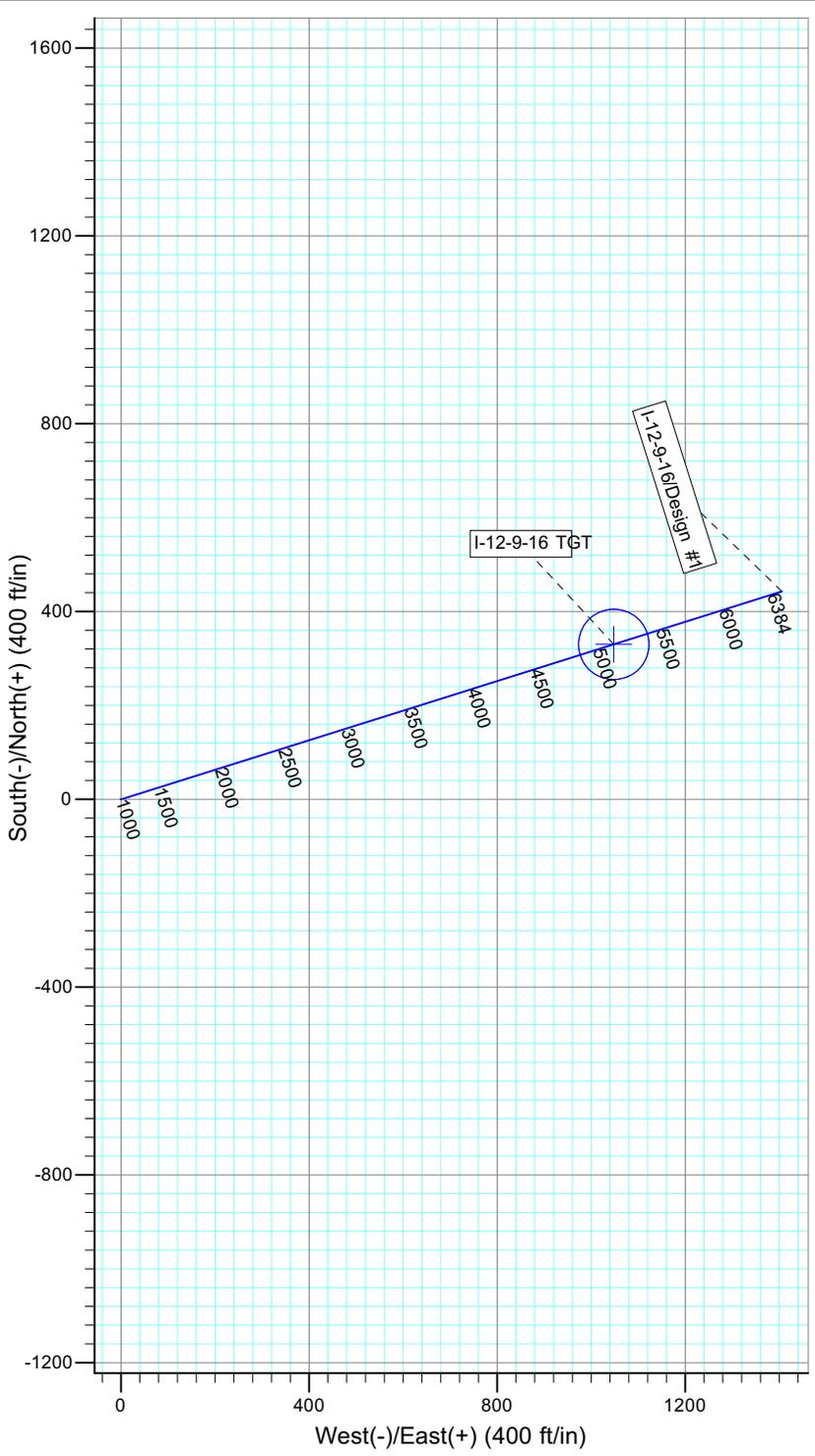
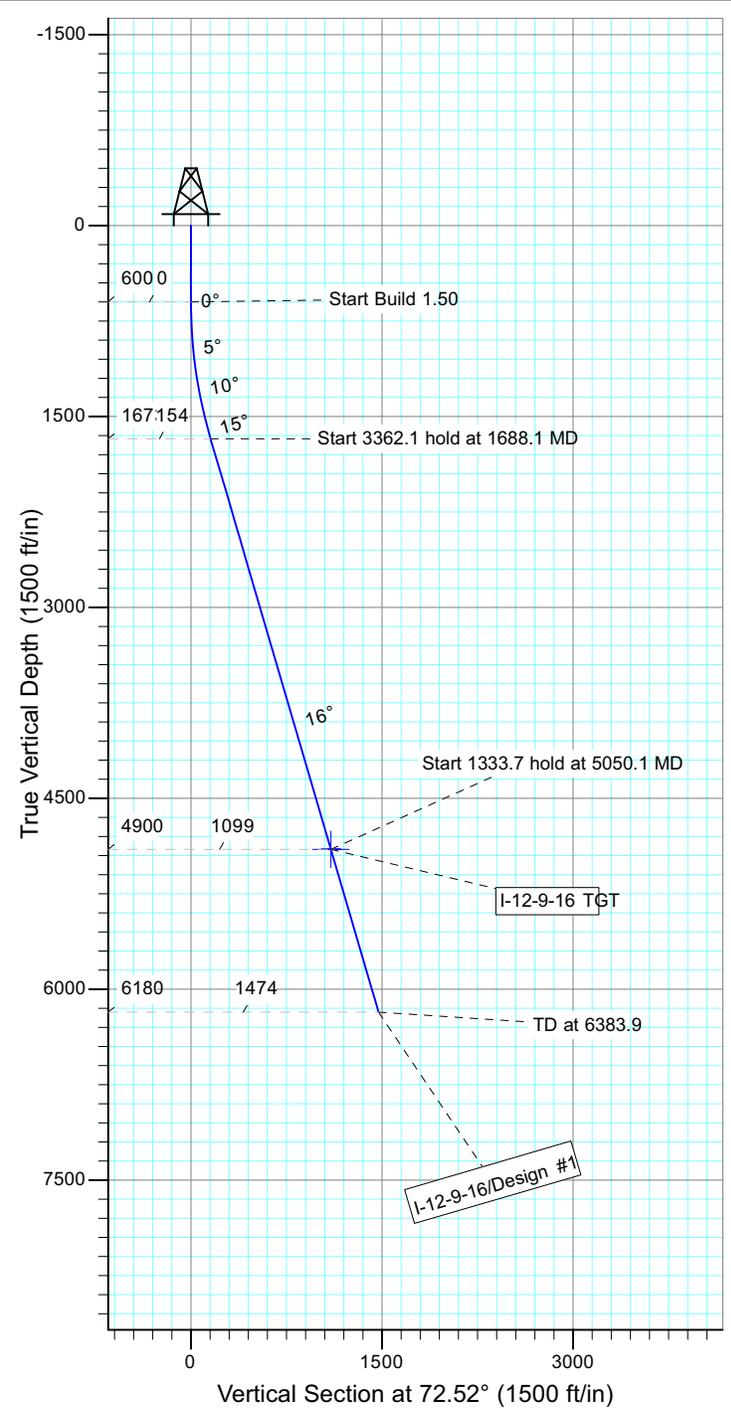
Project: USGS Myton SW (UT)
 Site: SECTION 12 T9, R16
 Well: I-12-9-16
 Wellbore: Wellbore #1
 Design: Design #1



Azimuths to True North
 Magnetic North: 11.28°

Magnetic Field
 Strength: 52248.2snT
 Dip Angle: 65.79°
 Date: 2011/09/11
 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-12-9-16 TGT	4900.0	330.1	1048.0	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	1688.1	16.32	72.52	1673.4	46.2	146.8	1.50	72.52	153.9	
4	5050.1	16.32	72.52	4900.0	330.1	1048.0	0.00	0.00	1098.7	I-12-9-16 TGT
5	6383.9	16.32	72.52	6180.0	442.7	1405.4	0.00	0.00	1473.5	





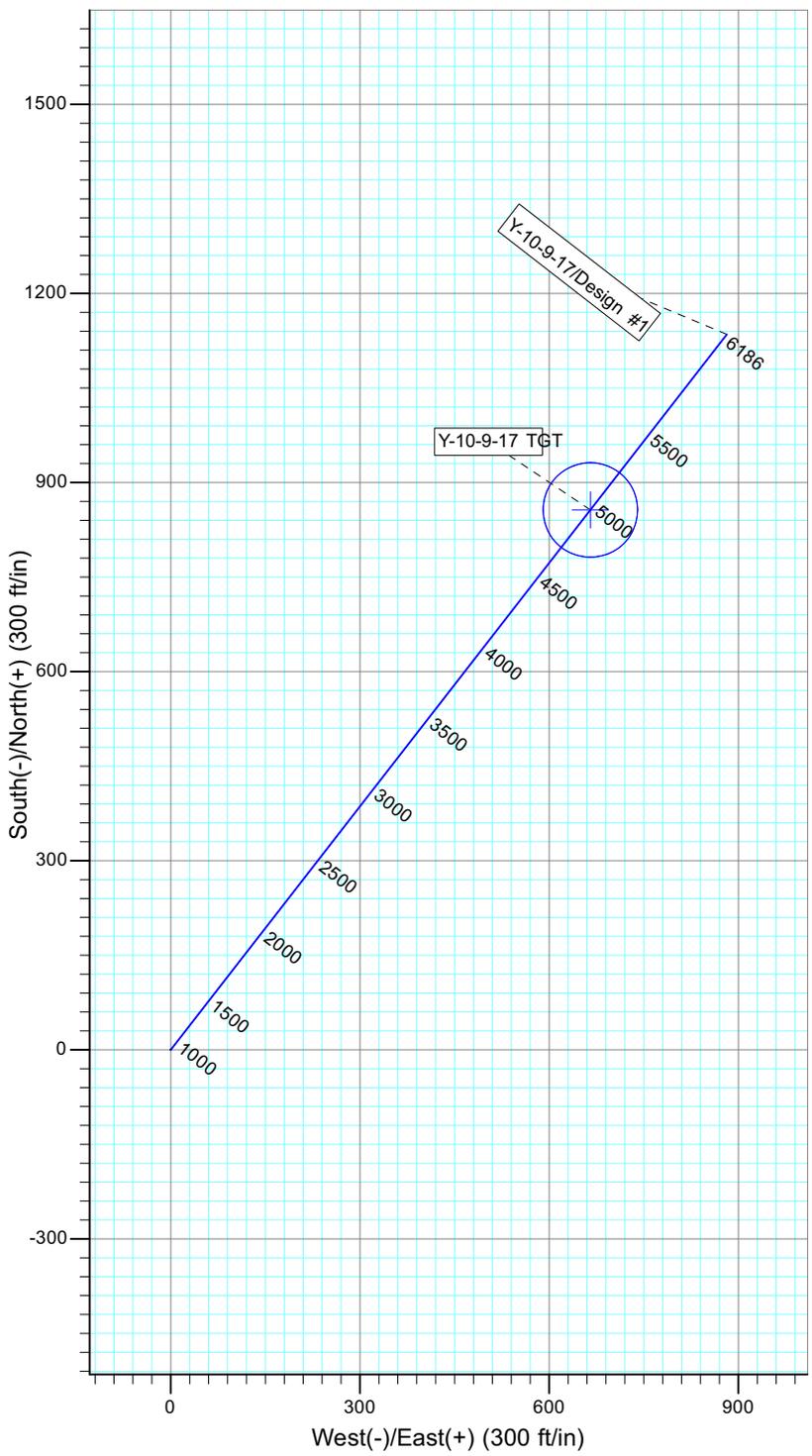
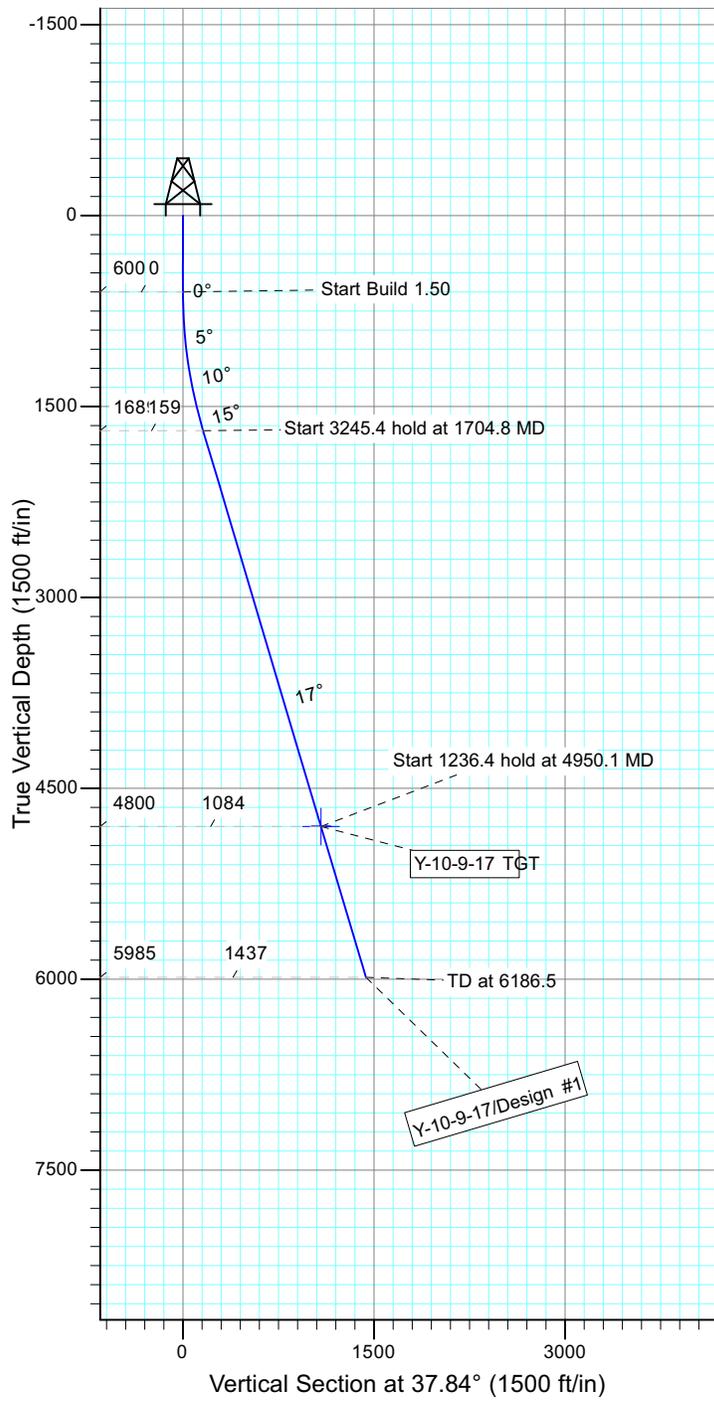
Project: USGS Myton SW (UT)
 Site: SECTION 16 T9S, R17E
 Well: Y-10-9-17
 Wellbore: Wellbore #1
 Design: Design #1



Azimuths to True North
 Magnetic North: 11.26°

Magnetic Field
 Strength: 52251.0snT
 Dip Angle: 65.79°
 Date: 2011/09/14
 Model: IGRF2010

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



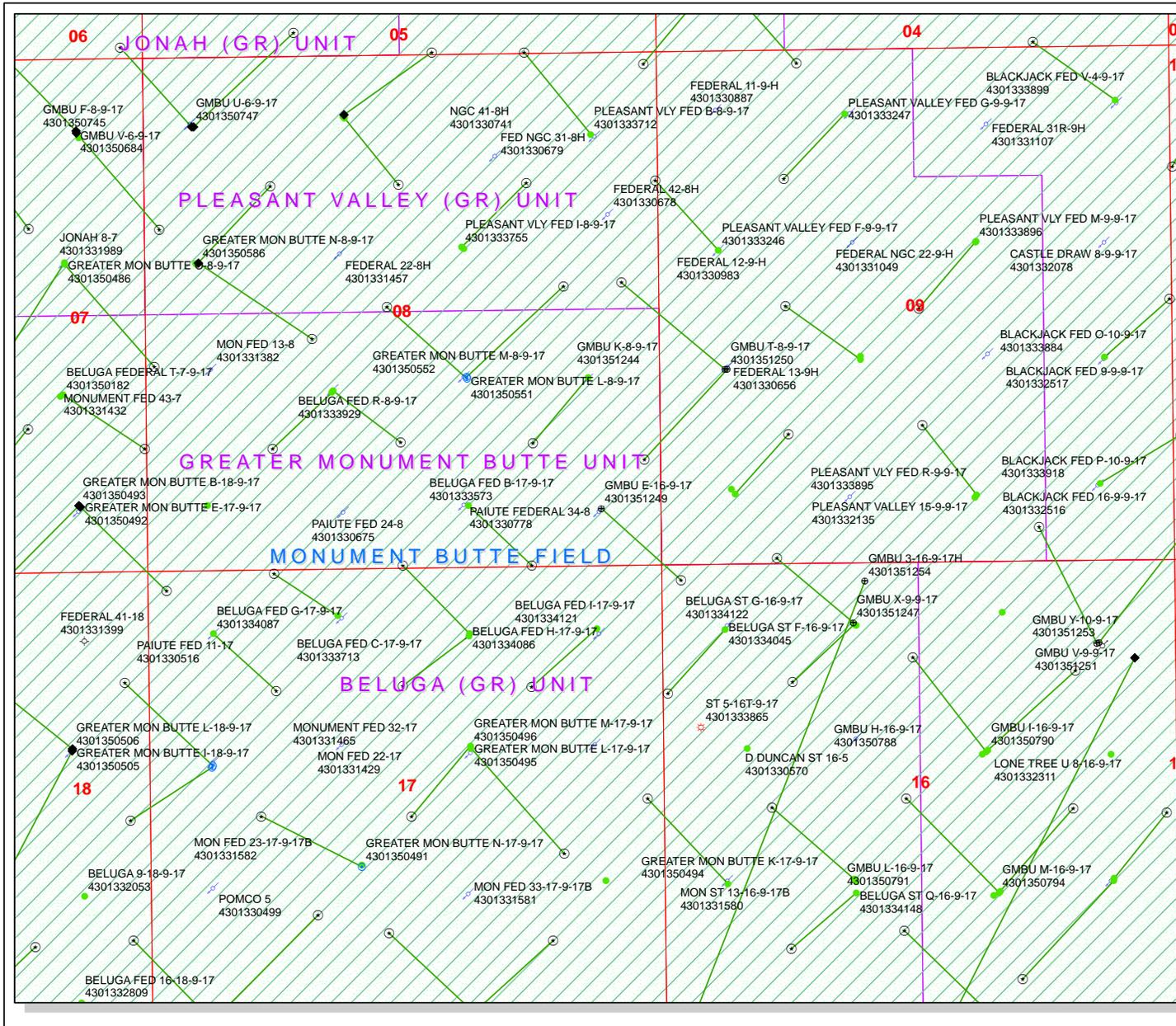
WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
Y-10-9-17 TGT	4800.0	856.3	665.2	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	1704.8	16.57	37.84	1689.4	125.3	97.3	1.50	37.84	158.7	
4	4950.1	16.57	37.84	4800.0	856.3	665.2	0.00	0.00	1084.3	Y-10-9-17 TGT
5	6186.5	16.57	37.84	5985.0	1134.7	881.5	0.00	0.00	1436.9	

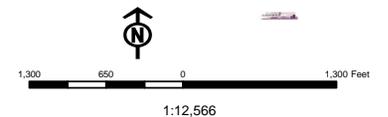
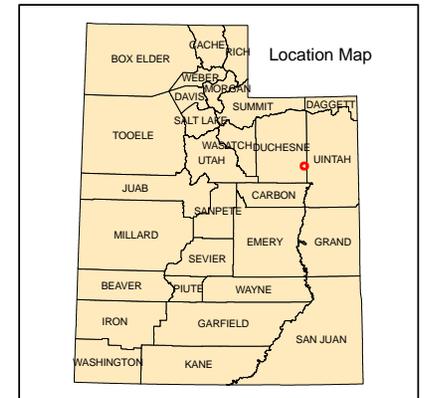




API Number: 4301351249
Well Name: GMBU E-16-9-17
Township T0.9 . Range R1.7 . Section 08
Meridian: SLBM
Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:
 Map Produced by Diana Mason

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



WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 2/22/2012

API NO. ASSIGNED: 43013512490000

WELL NAME: GMBU E-16-9-17

OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695)

PHONE NUMBER: 435 646-4825

CONTACT: Mandie Crozier

PROPOSED LOCATION: SESE 08 090S 170E

Permit Tech Review:

SURFACE: 0589 FSL 0616 FEL

Engineering Review:

BOTTOM: 0161 FNL 0194 FWL

Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.03979

LONGITUDE: -110.02313

UTM SURF EASTINGS: 583338.00

NORTHINGS: 4432631.00

FIELD NAME: MONUMENT BUTTE

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-74398

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

Commingle Approved

LOCATION AND SITING:

- R649-2-3.
- Unit: GMBU (GRRV)
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: Cause 213-11
- Effective Date: 11/30/2009
- Siting: Suspends General Siting
- R649-3-11. Directional Drill

Comments: Presite Completed

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



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: GMBU E-16-9-17
API Well Number: 43013512490000
Lease Number: UTU-74398
Surface Owner: FEDERAL
Approval Date: 3/15/2012

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 <http://oilgas.ogm.utah.gov>

Reporting Requirements:

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

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

Approved By:

A handwritten signature in black ink, appearing to read "John Rogers", written over a horizontal line.

For John Rogers
Associate Director, Oil & Gas

RECEIVED

Form 3160-3
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FEB 23 2012

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

BLM

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		3. Lease Serial No. UTU74398
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator NEWFIELD PRODUCTION COMPANY Contact: MANDIE CROZIER Email: mcrozier@newfield.com		7. If Unit or CA Agreement, Name and No. GREATER MONUMENT
3a. Address ROUTE #3 BOX 3630 MYTON, UT 84052		8. Lease Name and Well No. GMBU E-16-9-17
3b. Phone No. (include area code) Ph: 435-646-4825 Fx: 435-646-3031		9. API Well No. 43-013-51249
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SESE 589FSL 616FEL At proposed prod. zone NWNW 161FSL 194FWL Sec. 16		10. Field and Pool, or Exploratory MONUMENT BUTTE
14. Distance in miles and direction from nearest town or post office* 13.9		11. Sec., T., R., M., or Blk. and Survey or Area Sec 8 T9S R17E Mer SLB
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 161'		12. County or Parish DUCHESNE
16. No. of Acres in Lease 40.00		13. State UT
17. Spacing Unit dedicated to this well 20.00		18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 1555'
19. Proposed Depth 6166 MD 6050 TVD		20. BLM/BIA Bond No. on file WYB000493
21. Elevations (Show whether DF, KB, RT, GL, etc.) 5321 GL		22. Approximate date work will start 07/31/2012
		23. Estimated duration 7 DAYS

24. Attachments

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

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

25. Signature (Electronic Submission)	Name (Printed/Typed) MANDIE CROZIER Ph: 435-646-4825	Date 02/23/2012
Title REGULATORY ANALYST		
Approved by (Signature)	Name (Printed/Typed) Jerry Kenczka	Date AUG 30 2012
Title Assistant Field Manager Lands & Mineral Resources		
Office VERNAL FIELD OFFICE		

Application approval does not warrant or certify 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.

Additional Operator Remarks (see next page)

Electronic Submission #131486 verified by the BLM Well Information System
For NEWFIELD PRODUCTION COMPANY, sent to the Vernal
Committed to AFMSS for processing by LESLIE ROBINSON on 02/29/2012 ()

UDOGM
RECEIVED

NOTICE OF APPROVAL

SEP 10 2012

DIV. OF OIL, GAS & MINING

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

ms-12/01/11



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

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



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	Newfield Production Company	Location:	SESE, Sec. 8, T9S, R17E
Well No:	GMBU E-16-9-17	Lease No:	UTU-74398
API No:	43-013-51249	Agreement:	Greater Monument Butte (GR)

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: blm 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.

Wildlife

In accordance with the Record of Decision for the Castle Peak and Eightmile Flat Oil and Gas Expansion Project, Newfield Rocky Mountains Inc., the following COA's are required:

- WFM-1 On level or gently sloping ground (5 percent slope or less) Newfield will elevate surface pipelines (4 inches or greater in diameter) a minimum of 6 inches above the ground to allow passage of small animals beneath the pipe. This ground clearance will be achieved by placing the pipeline on blocks at intervals of 150 to 200 feet.
- WFM-4 Newfield will install noise reduction devices on all pump jacks to reduce intermittent noise to 45 dBA at 660 feet from the source.

COA's derived from mitigating measures in the EA:

- Newfield will contract a qualified biologist to conduct a breeding bird survey within 330 feet (100 meters) from proposed surface disturbance activities associated with well-field development (e.g. well pads, roads, pipelines, power lines, and ancillary facilities) that would occur during the breeding season from April 1 through July 31. If an active nest for important migratory bird species (USFWS Bird of Conservation Concern, Partners in Flight Priority Bird Species, Utah Sensitive Species) is documented during the survey, Newfield will coordinate with to determine if any additional protection measures will be required. Alternatively, prior to surface disturbance activities within that year, Newfield will clear vegetation within the year of surface disturbance activities outside of the breeding season (April 1 through July 31).

If construction and drilling is anticipated during any of the following wildlife seasonal spatial restrictions, a BLM biologist or a qualified consulting firm biologist must conduct applicable surveys using an accepted protocol prior to any ground disturbing activities.

- The proposed project is within 0.25 mile of burrowing owl habitat. If construction or drilling is proposed from March 1-August 31, then a nesting survey will be conducted by a qualified biologist according to protocol. If no nests are located, then permission to proceed may be granted by the BLM Authorized Officer. If a nest is located, then the timing restriction will remain in effect.

For protection of T&E Fish if drawing water from the Green River

- For areas of fresh water collection, an infiltration gallery will be constructed in a Service approved location. An infiltration gallery is basically a pit or trench dug within the floodplain to a depth below the water table. Water is drawn from the pit rather than from the river directly. If this is not possible, limit pumping within the river to off-channel locations that do not connect to the river during high spring flows.
- If water cannot be drawn using the measures above and the pump head will be located in the river channel where larval fish are known to occur, the following measures apply:
 - Avoid pumping from low-flow or no-flow areas as these habitats tend to concentrate larval fish
 - Avoid pumping to the greatest extent possible, during that period of the year when larval fish may be present (see previous bullet); and
 - Avoid pumping, to the greatest extent possible, during the midnight hours (10:00 p.m. to 2:00 a.m.) as larval drift studies indicate that this is a period of greatest daily activity. Dusk is the preferred pumping time, as larval drift abundance is lowest during this time.
 - Screen all pump intakes with 3/32-inch mesh material.
 -
- Report any fish impinged on the intake screen to the FWS office (801.975.3330) and the:
Utah Division of Wildlife Resources
Northeastern Region
152 East 100 North
Vernal, UT 84078
(435) 781-9453

Air Quality

1. All internal combustion equipment will be kept in good working order.
2. Water or other approved dust suppressants will be used at construction sites and along roads, as determined appropriate by the Authorized Officer. Dust suppressant such as magnesium chloride or fresh water may be used, as needed, during the drilling phase.
3. Open burning of garbage or refuse will not occur at well sites or other facilities.
4. Drill rigs will be equipped with Tier II or better diesel engines.
5. Low bleed pneumatics will be installed on separator dump valves and other controllers.
6. During completion, not venting would occur, and flaring will be limited as much as possible. Production equipment and gathering lines will be installed as soon as possible.
7. Telemetry will be installed to remotely monitor and control production.
8. Signs will be installed on the access road, reducing speed to 25 MPH, during the drilling phase.
9. When feasible, two or more rigs (including drilling and completion rigs) will not be run simultaneously within 200 meters of each other. If two or more rigs must be run simultaneously within 200 meters of each other, then effective public health buffer zones out to 200 meters (m) from the nearest emission source will be implemented. Examples of an effective public health protection buffer zone include the demarcation of a public access exclusion zone by signage at intervals of every 250 feet that is visible from a distance of 125 feet during daylight hours, and a physical buffer such as active surveillance to ensure the property is not accessible by the public during drilling operations. Alternatively, the proponent may demonstrate compliance with the 1-hour NO₂ National Ambient Air Quality Standards (NAAQS) with appropriate and accepted near-field modeling. As part of this demonstration, the proponent may propose alternative mitigation that

could include but is not limited to natural gas-fired drill rigs, installation of NO_x controls, time/use restrictions, and/or drill rig spacing.

10. 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 grams 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-hour.
11. All new and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 grams of NO_x per horsepower-hour.
12. Green completions will be used for all well completion activities where technically feasible.
13. Employ enhanced VOC emission controls with 95% control efficiency on production equipment having a potential to emit greater than 5 tons per year.

S.O.P.s

- 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 revegetation.
- All operator employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's, ROW, COAs permits/authorizations on their person(s) during all phases of construction.

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 and the Green River District Reclamation Guidelines (2011). Reclamation success will be determined in accordance with the 2011 Guidelines.

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) 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).
- Prior to beginning new surface disturbance, the operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) providing the results of the noxious weed inventory described in the *Green River District Reclamation Guidelines* (2011). If weeds are found the report shall include 1) A GPS location recorded in North American Datum 1983; 2) species; 3) canopy cover or number of plants; 4) and size of infestation (estimate square feet or acres. Information shall be also documented in the reclamation report.

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

SITE SPECIFIC DOWNHOLE COAs:

- Newfield Production Company 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 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 BLM_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 ($\frac{1}{4}\frac{1}{4}$, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs,

core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

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

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Ross 29 Submitted By
Branden Arnold Phone Number 435-401-0223
Well Name/Number GMBU E-~~10~~¹⁰-9-17
Qtr/Qtr SE/Se Section 8 Township 9S Range 17E
Lease Serial Number UTU-74398
API Number 43-013-51249

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

Date/Time 10/1/12 8:00 AM PM

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

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

Date/Time 10/1/12 3:00 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 _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

SUBMIT IN TRIPLICATE - Other Instructions on page 2

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
NEWFIELD PRODUCTION COMPANY

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

3b. Phone (include are code)
435.646.3721

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

SESE 8 9S 17E

5. Lease Serial No.
USA UTU-74398

6. If Indian, Allottee or Tribe Name.

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

8. Well Name and No.
GMBU E-16-9-17

9. API Well No.
4301351249

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

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

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

On 10/1/12 MIRU Ross #29. Spud well @9:00 AM. Drill 320' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24# csgn. Set @ 321.97. On 10/2/12 cement with 160 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.

I hereby certify that the foregoing is true and correct (Printed/ Typed) Branden Arnold	Title
Signature <i>Branden Arnold</i>	Date 10/02/2012

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)

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OCT 05 2012

DIV. OF OIL, GAS & MINING

Casing / Liner Detail

Well GMBU E-16-9-17
Prospect Monument Butte
Foreman
Run Date:
String Type Surface, 8.625", 24#, J-55, STC (Generic)

- Detail From Top To Bottom -

Depth	Length	JTS	Description	OD	ID
321.97			10' KB		
10.00	1.42		Wellhead		
11.42	265.30	6	8 5/8 Casing	8.625	
276.72	44.35	1	Guide Shoe	8.625	
321.07	0.90		Shoe joint	8.625	
321.97					

Cement Detail

Cement Company: BJ

Slurry	# of Sacks	Weight (ppg)	Yield	Volume (ft ³)	Description - Slurry Class and Additives
Slurry 1	160	15.8	1.17	187.2	Class "G"+2%CaCl Mixed@ 15.8ppg W/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:	17
Mud Returns:	
Centralizer Type And Placement:	

Middle of first, top of second and third for a total of three.

Cement To Surface?	Yes
Est. Top of Cement:	0
Plugs Bumped?	Yes
Pressure Plugs Bumped:	330
Floats Holding?	No
Casing Stuck On / Off Bottom?	No
Casing Reciprocated?	No
Casing Rotated?	No
CIP:	10:02
Casing Wt Prior To Cement:	
Casing Weight Set On Slips:	



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 **N2895**

ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					DQ	SD	TP	RG	COUNTY		
B	99999	17400	4301350880	GMBU 8-14T-9-16	SENE	14	9S	16E	DUCHESNE	9/13/2012	10/24/12
WELL 1 COMMENTS GRRV											
A	99999	18753	4301351390	MORRILL 4-23-3-2WH	NWNW	23	3S	2W	DUCHESNE	9/11/2012	10/24/12
WELL 1 COMMENTS GRRV											
B	99999	17400	4301350821	GMBU Y-35-8-17	NENE	3	9S	17E	DUCHESNE	9/26/2012	10/24/12
WELL 1 COMMENTS GRRV BHL: 8S-17E TBS SWSW This well's range is 9S-17E at the surface of the whole, and 8S-17E at the bottom of the whole											
B	99999	17400	4301351174	GMBU O-10-9-16	SENE	9	9S	16E	DUCHESNE	9/29/2012	10/24/12
WELL 1 COMMENTS GRRV S10 NWSW											
B	99999	17400	4301351173	GMBU L-9-9-16	SENE	9	9S	16E	DUCHESNE	9/18/2012	10/24/12
WELL 1 COMMENTS GRRV BHL: NWSW											
A	99999	18754	4301351412	LUSTY 1-11-3-3W	NENE	11	3S	3W	DUCHESNE	9/28/2012	10/24/12
WELL 1 COMMENTS WSTC NENE											
B	99999	17400	4301351249	GMBU E-16-9-17	SESE	8	9S	17E	DUCHESNE	10/1/2012	10/24/12
WELL 1 COMMENTS GRRV BHL: 16 NWNW											

CONFIDENTIAL

CONFIDENTIAL

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Reassign well from one existing entity to another existing entity
- D - Reassign well from one existing entity to a new entity
- E - Other (explain in Comments section)

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OCT 12 2012

Tasha Robison
Signature

Tasha Robison

Production Clerk

10/03/12

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
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.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-74398	
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)	
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		8. WELL NAME and NUMBER: GMBU E-16-9-17	
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052		9. API NUMBER: 43013512490000	
PHONE NUMBER: 435 646-4825 Ext		9. FIELD and POOL or WILDCAT: MONUMENT BUTTE	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0589 FSL 0616 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 08 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		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 10/31/2012	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.			
The above well was placed on production on 10/31/2012 at 17:30 hours.			
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY November 07, 2012			
NAME (PLEASE PRINT) Jennifer Peatross		PHONE NUMBER 435 646-4885	TITLE Production Technician
SIGNATURE N/A		DATE 11/7/2012	

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-74398

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

2. Name of Operator
NEWFIELD EXPLORATION COMPANY

7. Unit or CA Agreement Name and No.
GMBU (GRRV)

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

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

8. Lease Name and Well No.
GMBU E-16-9-17

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface 589' FSL & 616' FEL (SE/SE) SEC. 8, T9S, R17E (UTU-74398)

10. Field and Pool or Exploratory
MONUMENT BUTTE

11. Sec., T., R., M., on Block and Survey or Area
SEC. 8, T9S, R17E

At top prod. interval reported below 146' FSL & 108' FEL (SE/SE) SEC. 8, T9S, R17E (UTU-74398)
At total depth 129' FNL & 178' FWL (NW/NW) SEC. 16, T9S, R17E (ML-45431) **BHL by HSM**

12. County or Parish
DUCHESNE

13. State
UT

14. Date Spudded
10/01/2012

15. Date T.D. Reached
10/10/2012

16. Date Completed
10/31/2012
 D & A Ready to Prod.

18. Total Depth: MD 6060'
TVD 5955'

19. Plug Back T.D.: MD 6026'
TVD **5921**

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	322'		160 CLASS "G"			
7-7/8"	5-1/2" J-55	15.5#	0	6050'		240 PREMLITE		138'	
						440 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 @ 5683'	TA @ 5585'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Green River	4006' MD	5597' MD	4006-5597' MD	0.34"	75	
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
4006-5597' MD	Frac w/ 211315# 20/40 white sand in 1427 bbls Lightning 17 fluid, in 4 stages.

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JAN 29 2013

DIV. OF OIL, GAS & MINING

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
11/1/12	11/11/12	24	→	64	117	55			2-1/2" x 1-3/4" x 20' x 21' x 24' RHAC
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→					PRODUCING	

28a. Production - Interval B

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

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

28b. Production - Interval C

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

28c. Production - Interval D

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

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

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	4006' MD	5597' MD		GARDEN GULCH MRKR	3593'
				GARDEN GULCH 1	3792'
				GARDEN GULCH 2	3909'
				POINT 3 MRKR	4148'
				X MRKR	4423'
				Y MRKR	4458'
				DOUGLAS CREEK MRKR	4589'
BI-CARBONATE	4823'				
B LIMESTONE	4943'				
CASTLE PEAK	5433'				
BASAL CARBONATE	5860'				
WASATCH	5986'				

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 *Jennifer Peatross* Date 01/08/2013

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

NEWFIELD

NEWFIELD EXPLORATION

USGS Myton SW (UT)

SECTION 8 T9S, R17E

E-16-9-17

Wellbore #1

Design: Actual

Standard Survey Report

07 January, 2013





Payzone Directional Survey Report



Company:	NEWFIELD EXPLORATION	Local Co-ordinate Reference:	Well E-16-9-17
Project:	USGS Myton SW (UT)	TVD Reference:	E-16-9-17 @ 5333.0ft (NDSI SS #2)
Site:	SECTION 8 T9S, R17E	MD Reference:	E-16-9-17 @ 5333.0ft (NDSI SS #2)
Well:	E-16-9-17	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 8 T9S, R17E, SEC 8 T8S, R17E				
Site Position:		Northing:	7,189,610.00ft	Latitude:	40° 2' 53.026 N
From:	Lat/Long	Easting:	2,051,781.00ft	Longitude:	110° 1' 49.660 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.94 °

Well	E-16-9-17, SHL LAT: 40 02 23.37 LONG: -110 01 23.62					
Well Position	+N/-S	0.0 ft	Northing:	7,186,643.14 ft	Latitude:	40° 2' 23.370 N
	+E/-W	0.0 ft	Easting:	2,053,855.18 ft	Longitude:	110° 1' 23.620 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	5,333.0 ft	Ground Level:	5,321.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	9/14/2011	11.26	65.79	52,250

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	131.88	

Survey Program	Date 1/7/2013				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
346.0	6,060.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
346.0	1.27	102.60	346.0	-0.8	3.7	3.3	0.37	0.37	0.00
376.0	0.80	121.96	376.0	-1.0	4.2	3.8	1.93	-1.57	64.53
407.0	1.60	123.00	407.0	-1.4	4.8	4.5	2.58	2.58	3.35
438.0	2.50	126.00	437.9	-2.0	5.7	5.6	2.92	2.90	9.68
468.0	2.90	133.00	467.9	-2.9	6.8	7.0	1.73	1.33	23.33
499.0	4.00	135.27	498.8	-4.2	8.1	8.9	3.57	3.55	7.32
529.0	4.50	139.60	528.8	-5.8	9.6	11.1	1.98	1.67	14.43
559.0	4.20	136.40	558.7	-7.5	11.1	13.3	1.29	-1.00	-10.67
589.0	4.40	136.60	588.6	-9.2	12.7	15.6	0.67	0.67	0.67
620.0	4.80	133.00	619.5	-10.9	14.5	18.1	1.59	1.29	-11.61
650.0	5.80	129.20	649.4	-12.7	16.5	20.8	3.53	3.33	-12.67
680.0	5.70	123.00	679.2	-14.5	19.0	23.8	2.10	-0.33	-20.67



Payzone Directional
Survey Report



Company: NEWFIELD EXPLORATION
 Project: USGS Myton SW (UT)
 Site: SECTION 8 T9S, R17E
 Well: E-16-9-17
 Wellbore: Wellbore #1
 Design: Actual

Local Co-ordinate Reference: Well E-16-9-17
 TVD Reference: E-16-9-17 @ 5333.0ft (NDSI SS #2)
 MD Reference: E-16-9-17 @ 5333.0ft (NDSI SS #2)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Database: EDM 2003.21 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
711.0	6.10	130.00	710.1	-16.4	21.5	27.0	2.65	1.29	22.58
742.0	6.40	129.50	740.9	-18.6	24.1	30.3	0.98	0.97	-1.61
772.0	6.70	129.30	770.7	-20.7	26.8	33.8	1.00	1.00	-0.67
802.0	7.10	129.20	800.5	-23.0	29.6	37.4	1.33	1.33	-0.33
833.0	7.60	129.20	831.2	-25.5	32.6	41.3	1.61	1.61	0.00
863.0	8.00	129.40	860.9	-28.1	35.8	45.4	1.34	1.33	0.67
894.0	8.60	126.20	891.6	-30.8	39.3	49.9	2.44	1.94	-10.32
924.0	8.70	128.30	921.3	-33.6	42.9	54.4	1.10	0.33	7.00
955.0	9.50	128.20	951.9	-36.6	46.8	59.2	2.58	2.58	-0.32
986.0	9.70	126.80	982.4	-39.7	50.9	64.4	0.99	0.65	-4.52
1,016.0	9.50	128.00	1,012.0	-42.8	54.8	69.4	0.94	-0.67	4.00
1,060.0	10.40	132.20	1,055.4	-47.7	60.6	77.0	2.63	2.05	9.55
1,104.0	10.50	134.90	1,098.6	-53.2	66.4	85.0	1.14	0.23	6.14
1,148.0	11.50	133.40	1,141.8	-59.0	72.4	93.3	2.36	2.27	-3.41
1,192.0	11.60	133.10	1,184.9	-65.1	78.9	102.2	0.27	0.23	-0.68
1,235.0	12.30	130.40	1,227.0	-71.0	85.5	111.1	2.08	1.63	-6.28
1,279.0	13.20	129.60	1,269.9	-77.2	92.9	120.8	2.08	2.05	-1.82
1,323.0	13.00	131.70	1,312.8	-83.7	100.5	130.7	1.17	-0.45	4.77
1,367.0	13.40	133.60	1,355.6	-90.5	107.9	140.8	1.34	0.91	4.32
1,410.0	13.00	132.70	1,397.5	-97.2	115.1	150.6	1.05	-0.93	-2.09
1,454.0	13.00	134.90	1,440.3	-104.1	122.2	160.5	1.12	0.00	5.00
1,498.0	12.70	135.00	1,483.2	-111.0	129.1	170.3	0.68	-0.68	0.23
1,541.0	12.00	131.50	1,525.2	-117.3	135.8	179.4	2.38	-1.63	-8.14
1,586.0	11.70	130.60	1,569.3	-123.4	142.8	188.7	0.78	-0.67	-2.00
1,629.0	11.50	130.10	1,611.4	-129.0	149.4	197.3	0.52	-0.47	-1.16
1,673.0	11.30	132.50	1,654.5	-134.7	155.9	206.0	1.17	-0.45	5.45
1,716.0	11.10	133.10	1,696.7	-140.4	162.0	214.4	0.54	-0.47	1.40
1,760.0	11.10	130.00	1,739.9	-146.0	168.4	222.8	1.36	0.00	-7.05
1,804.0	11.30	125.60	1,783.1	-151.2	175.1	231.4	1.99	0.45	-10.00
1,848.0	10.90	123.30	1,826.2	-156.0	182.1	239.8	1.36	-0.91	-5.23
1,891.0	10.60	124.50	1,868.5	-160.5	188.8	247.7	0.87	-0.70	2.79
1,935.0	11.00	123.30	1,911.7	-165.1	195.6	255.9	1.04	0.91	-2.73
1,979.0	11.30	125.60	1,954.9	-169.9	202.6	264.3	1.22	0.68	5.23
2,023.0	10.90	131.40	1,998.0	-175.2	209.2	272.7	2.69	-0.91	13.18
2,067.0	11.10	134.20	2,041.2	-180.9	215.4	281.1	1.30	0.45	6.36
2,110.0	11.90	134.70	2,083.4	-186.9	221.5	289.7	1.87	1.86	1.16
2,154.0	12.40	136.50	2,126.4	-193.5	228.0	298.9	1.43	1.14	4.09
2,198.0	11.70	136.80	2,169.4	-200.2	234.3	308.1	1.60	-1.59	0.68
2,242.0	11.40	137.80	2,212.5	-206.7	240.3	316.9	0.82	-0.68	2.27
2,286.0	12.00	140.30	2,255.6	-213.4	246.1	325.7	1.78	1.36	5.68
2,329.0	11.90	135.30	2,297.7	-220.0	252.1	334.6	2.42	-0.23	-11.63
2,373.0	11.60	138.40	2,340.8	-226.5	258.2	343.5	1.59	-0.68	7.05
2,417.0	11.50	135.30	2,383.9	-232.9	264.2	352.3	1.43	-0.23	-7.05
2,461.0	12.08	130.00	2,426.9	-239.0	270.9	361.2	2.79	1.32	-12.05
2,504.0	12.57	130.80	2,469.0	-245.0	277.9	370.4	1.21	1.14	1.86
2,548.0	12.10	132.30	2,511.9	-251.2	284.9	379.8	1.29	-1.07	3.41
2,592.0	12.30	128.90	2,554.9	-257.3	291.9	389.1	1.69	0.45	-7.73
2,636.0	12.40	128.40	2,597.9	-263.1	299.3	398.5	0.33	0.23	-1.14
2,680.0	12.88	129.80	2,640.9	-269.2	306.8	408.1	1.29	1.09	3.18
2,723.0	12.35	131.98	2,682.8	-275.3	313.9	417.5	1.66	-1.23	5.07
2,767.0	12.20	129.20	2,725.8	-281.4	321.0	426.9	1.39	-0.34	-6.32
2,811.0	12.90	127.10	2,768.8	-287.3	328.5	436.4	1.90	1.59	-4.77
2,855.0	13.10	124.60	2,811.6	-293.1	336.5	446.2	1.36	0.45	-5.68
2,898.0	12.70	127.20	2,853.5	-298.8	344.3	455.8	1.64	-0.93	6.05



Payzone Directional Survey Report



Company: NEWFIELD EXPLORATION
 Project: USGS Myton SW (UT)
 Site: SECTION 8 T9S, R17E
 Well: E-16-9-17
 Wellbore: Wellbore #1
 Design: Actual

Local Co-ordinate Reference: Well E-16-9-17
 TVD Reference: E-16-9-17 @ 5333.0ft (NDSI SS #2)
 MD Reference: E-16-9-17 @ 5333.0ft (NDSI SS #2)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Database: EDM 2003.21 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
2,942.0	12.10	124.80	2,896.5	-304.3	351.9	465.2	1.80	-1.36	-5.45
2,986.0	11.50	124.00	2,939.6	-309.4	359.3	474.1	1.41	-1.36	-1.82
3,030.0	11.70	128.70	2,982.7	-314.6	366.5	482.9	2.19	0.45	10.68
3,073.0	12.40	128.40	3,024.7	-320.2	373.5	491.9	1.63	1.63	-0.70
3,117.0	12.79	130.10	3,067.7	-326.3	380.9	501.4	1.22	0.89	3.86
3,161.0	12.10	131.70	3,110.7	-332.5	388.1	510.9	1.75	-1.57	3.64
3,205.0	12.00	132.50	3,153.7	-338.7	394.9	520.1	0.44	-0.23	1.82
3,249.0	11.35	132.20	3,196.8	-344.7	401.5	529.0	1.48	-1.48	-0.68
3,292.0	11.10	131.80	3,239.0	-350.3	407.7	537.4	0.61	-0.58	-0.93
3,336.0	11.87	129.70	3,282.1	-356.0	414.3	546.1	1.99	1.75	-4.77
3,380.0	11.70	132.70	3,325.1	-361.9	421.1	555.1	1.44	-0.39	6.82
3,423.0	12.00	130.30	3,367.2	-367.7	427.7	563.9	1.34	0.70	-5.58
3,467.0	11.40	132.60	3,410.3	-373.6	434.4	572.9	1.73	-1.36	5.23
3,511.0	10.90	132.50	3,453.5	-379.4	440.7	581.4	1.14	-1.14	-0.23
3,555.0	10.80	128.10	3,496.7	-384.8	447.0	589.6	1.90	-0.23	-10.00
3,598.0	11.30	130.70	3,538.9	-390.0	453.3	597.9	1.64	1.16	6.05
3,642.0	11.00	130.80	3,582.1	-395.5	459.8	606.4	0.68	-0.68	0.23
3,686.0	11.30	134.40	3,625.2	-401.3	466.0	614.9	1.72	0.68	8.18
3,730.0	11.00	132.30	3,668.4	-407.1	472.2	623.4	1.15	-0.68	-4.77
3,774.0	11.20	132.20	3,711.6	-412.8	478.5	631.9	0.46	0.45	-0.23
3,817.0	10.70	135.40	3,753.8	-418.5	484.4	640.0	1.83	-1.16	7.44
3,861.0	10.70	134.70	3,797.0	-424.3	490.2	648.2	0.30	0.00	-1.59
3,905.0	11.80	134.70	3,840.2	-430.3	496.3	656.8	2.50	2.50	0.00
3,949.0	11.10	135.20	3,883.3	-436.5	502.5	665.5	1.61	-1.59	1.14
3,993.0	11.40	136.30	3,926.5	-442.6	508.4	674.0	0.84	0.68	2.50
4,036.0	10.80	138.20	3,968.7	-448.7	514.1	682.3	1.63	-1.40	4.42
4,080.0	10.00	139.00	4,011.9	-454.7	519.3	690.2	1.85	-1.82	1.82
4,124.0	11.10	134.80	4,055.2	-460.5	524.8	698.2	3.05	2.50	-9.55
4,168.0	11.80	133.70	4,098.3	-466.6	531.1	706.9	1.67	1.59	-2.50
4,211.0	11.90	135.00	4,140.4	-472.8	537.4	715.7	0.66	0.23	3.02
4,255.0	11.00	133.90	4,183.5	-478.9	543.6	724.5	2.10	-2.05	-2.50
4,299.0	10.60	130.80	4,226.8	-484.5	549.7	732.7	1.60	-0.91	-7.05
4,342.0	11.20	129.30	4,269.0	-489.7	555.9	740.8	1.54	1.40	-3.49
4,386.0	11.90	129.30	4,312.1	-495.3	562.8	749.6	1.59	1.59	0.00
4,430.0	11.00	133.10	4,355.2	-501.0	569.3	758.4	2.67	-2.05	8.64
4,474.0	11.00	130.10	4,398.4	-506.6	575.6	766.8	1.30	0.00	-6.82
4,518.0	11.10	131.50	4,441.6	-512.1	582.0	775.2	0.65	0.23	3.18
4,561.0	11.20	129.80	4,483.8	-517.5	588.3	783.5	0.80	0.23	-3.95
4,605.0	10.30	133.60	4,527.0	-523.0	594.4	791.7	2.60	-2.05	8.64
4,649.0	10.40	132.70	4,570.3	-528.4	600.2	799.6	0.43	0.23	-2.05
4,693.0	10.90	132.60	4,613.5	-533.9	606.2	807.7	1.14	1.14	-0.23
4,736.0	11.20	137.70	4,655.7	-539.7	612.0	816.0	2.38	0.70	11.86
4,781.0	10.50	133.90	4,699.9	-545.8	617.9	824.4	2.22	-1.56	-8.44
4,824.0	10.20	135.10	4,742.2	-551.2	623.4	832.1	0.86	-0.70	2.79
4,868.0	11.00	135.90	4,785.5	-557.0	629.1	840.2	1.85	1.82	1.82
4,912.0	11.43	138.10	4,828.6	-563.2	634.9	848.7	1.38	0.98	5.00
4,956.0	11.30	136.00	4,871.8	-569.6	640.8	857.4	0.99	-0.30	-4.77
4,982.5	11.23	137.84	4,897.7	-573.4	644.3	862.5	1.38	-0.25	6.95
E-16-9-17 TGT									
4,999.0	11.20	139.00	4,913.9	-575.8	646.5	865.7	1.38	-0.21	7.01
5,043.0	10.70	137.80	4,957.1	-582.0	652.0	874.0	1.25	-1.14	-2.73
5,087.0	11.65	134.50	5,000.3	-588.2	657.9	882.5	2.60	2.16	-7.50
5,131.0	12.00	136.20	5,043.4	-594.6	664.3	891.5	1.12	0.80	3.86
5,175.0	11.50	135.90	5,086.5	-601.0	670.5	900.4	1.14	-1.14	-0.68



Payzone Directional Survey Report



Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 8 T9S, R17E
Well: E-16-9-17
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference: Well E-16-9-17
TVD Reference: E-16-9-17 @ 5333.0ft (NDSI SS #2)
MD Reference: E-16-9-17 @ 5333.0ft (NDSI SS #2)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.21 Single User Db

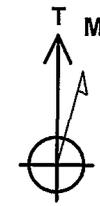
Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,218.0	12.30	138.70	5,128.5	-607.5	676.5	909.3	2.29	1.86	6.51
5,262.0	12.30	137.90	5,171.5	-614.5	682.7	918.6	0.39	0.00	-1.82
5,306.0	12.00	135.90	5,214.5	-621.3	689.1	927.8	1.17	-0.68	-4.55
5,350.0	12.88	134.70	5,257.5	-628.0	695.7	937.3	2.08	2.00	-2.73
5,393.0	12.90	134.70	5,299.4	-634.8	702.5	946.8	0.05	0.05	0.00
5,437.0	12.00	135.36	5,342.4	-641.5	709.2	956.3	2.07	-2.05	1.50
5,481.0	12.00	133.20	5,385.4	-647.9	715.8	965.5	1.02	0.00	-4.91
5,525.0	12.88	129.90	5,428.4	-654.2	722.9	974.9	2.57	2.00	-7.50
5,568.0	12.70	130.80	5,470.3	-660.3	730.1	984.4	0.62	-0.42	2.09
5,612.0	12.70	128.20	5,513.2	-666.5	737.6	994.1	1.30	0.00	-5.91
5,656.0	12.00	128.50	5,556.2	-672.3	745.0	1,003.5	1.60	-1.59	0.68
5,699.0	11.20	130.10	5,598.4	-677.8	751.7	1,012.1	2.01	-1.86	3.72
5,743.0	10.90	130.90	5,641.5	-683.3	758.1	1,020.6	0.77	-0.68	1.82
5,787.0	10.30	134.50	5,684.8	-688.7	764.0	1,028.7	2.03	-1.36	8.18
5,831.0	9.70	131.90	5,728.1	-694.0	769.6	1,036.3	1.71	-1.36	-5.91
5,875.0	9.30	132.50	5,771.5	-698.9	775.0	1,043.6	0.94	-0.91	1.36
5,918.0	9.00	135.40	5,814.0	-703.6	779.9	1,050.4	1.28	-0.70	6.74
5,962.0	8.20	138.80	5,857.5	-708.4	784.4	1,056.9	2.15	-1.82	7.73
6,006.0	8.00	134.40	5,901.0	-712.9	788.7	1,063.1	1.48	-0.45	-10.00
6,060.0	8.00	134.40	5,954.5	-718.2	794.0	1,070.6	0.00	0.00	0.00

Checked By: _____ Approved By: _____ Date: _____

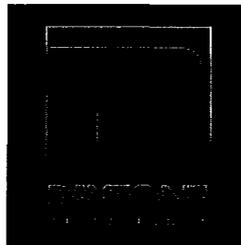
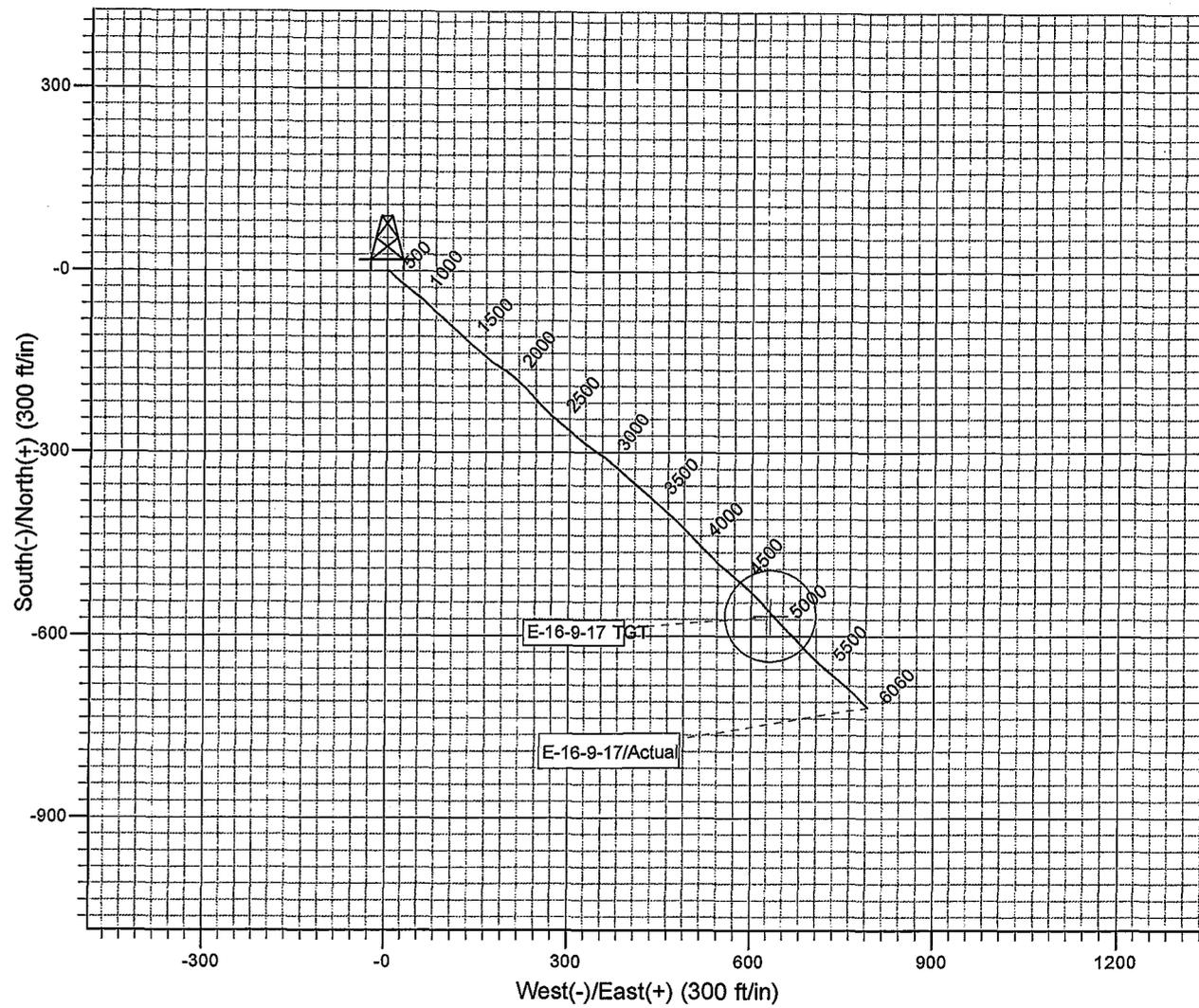
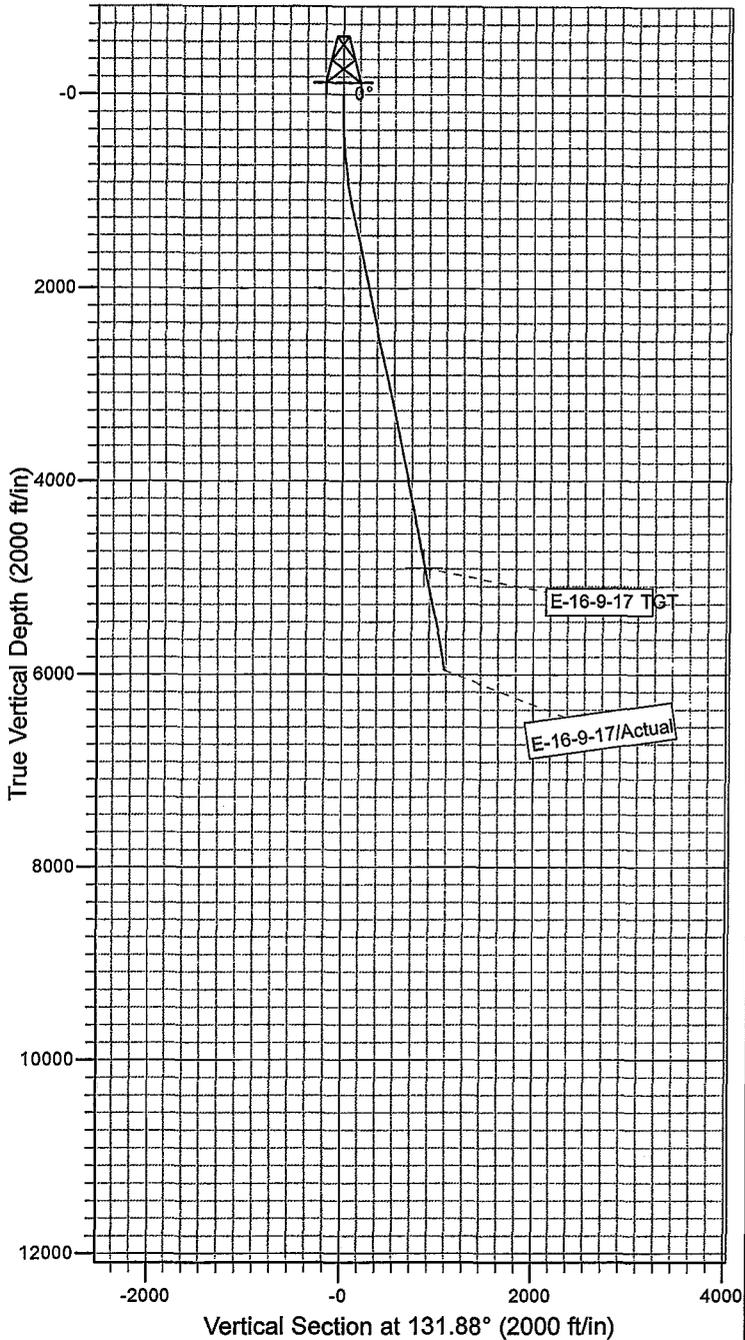


Project: USGS Myton SW (UT)
 Site: SECTION 8 T9S, R17E
 Well: E-16-9-17
 Wellbore: Wellbore #1
 Design: Actual



Azimuths to True North
 Magnetic North: 11.26

Magnetic Field
 Strength: 52250.0sn
 Dip Angle: 65.79
 Date: 9/14/201
 Model: IGRF201



Design: Actual (E-16-9-17/Wellbore #1)

Created By: Sarah Webb Date: 10:38, January 07 20

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