

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 I-21-9-16				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT MONUMENT BUTTE				
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME GMBU (GRRV)				
6. NAME OF OPERATOR NEWFIELD PRODUCTION COMPANY						7. OPERATOR PHONE 435 646-4825				
8. ADDRESS OF OPERATOR Rt 3 Box 3630 , Myton, UT, 84052						9. OPERATOR E-MAIL mcrozier@newfield.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU-64379			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		2144 FNL 1963 FEL		SWNE	21	9.0 S	16.0 E	S		
Top of Uppermost Producing Zone		1687 FNL 1762 FEL		SWNE	21	9.0 S	16.0 E	S		
At Total Depth		1283 FNL 1568 FEL		NWNE	21	9.0 S	16.0 E	S		
21. COUNTY DUCHESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 1283			23. NUMBER OF ACRES IN DRILLING UNIT 20				
27. ELEVATION - GROUND LEVEL 6010			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 987			26. PROPOSED DEPTH MD: 5968 TVD: 5880				
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 - 5968	15.5	J-55 LT&C	8.3	Premium Lite High Strength	274	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 Heather Calder				TITLE Production Technician				PHONE 435 646-4936		
SIGNATURE				DATE 07/31/2013				EMAIL hcalder@newfield.com		
API NUMBER ASSIGNED 43013523410000				APPROVAL  Permit Manager						

NEWFIELD PRODUCTION COMPANY
 GMBU I-21-9-16
 AT SURFACE: SW/NE SECTION 21, T9S R16E
 DUCHESNE COUNTY, UTAH

TEN POINT DRILLING PROGRAM

1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

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

Uinta	0' – 3,630'
Green River	3,630'
Wasatch	6,200'
Proposed TD	5,968'(MD) 5,880' (TVD)

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

Green River Formation (Oil) 3,630' – 6,200'

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 I-21-9-16**

Size	Interval		Weight	Grade	Coupling	Design Factors		
	Top	Bottom				Burst	Collapse	Tension
Surface casing 8-5/8"	0'	300'	24.0	J-55	STC	2,950 17.53	1,370 14.35	244,000 33.89
Prod casing 5-1/2"	0'	5,968'	15.5	J-55	LTC	4,810 2.53	4,040 2.13	217,000 2.35

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 I-21-9-16**

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	3,968'	Prem Lite II w/ 10% gel + 3% KCl	274	30%	11.0	3.26
			894			
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 PBDT 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

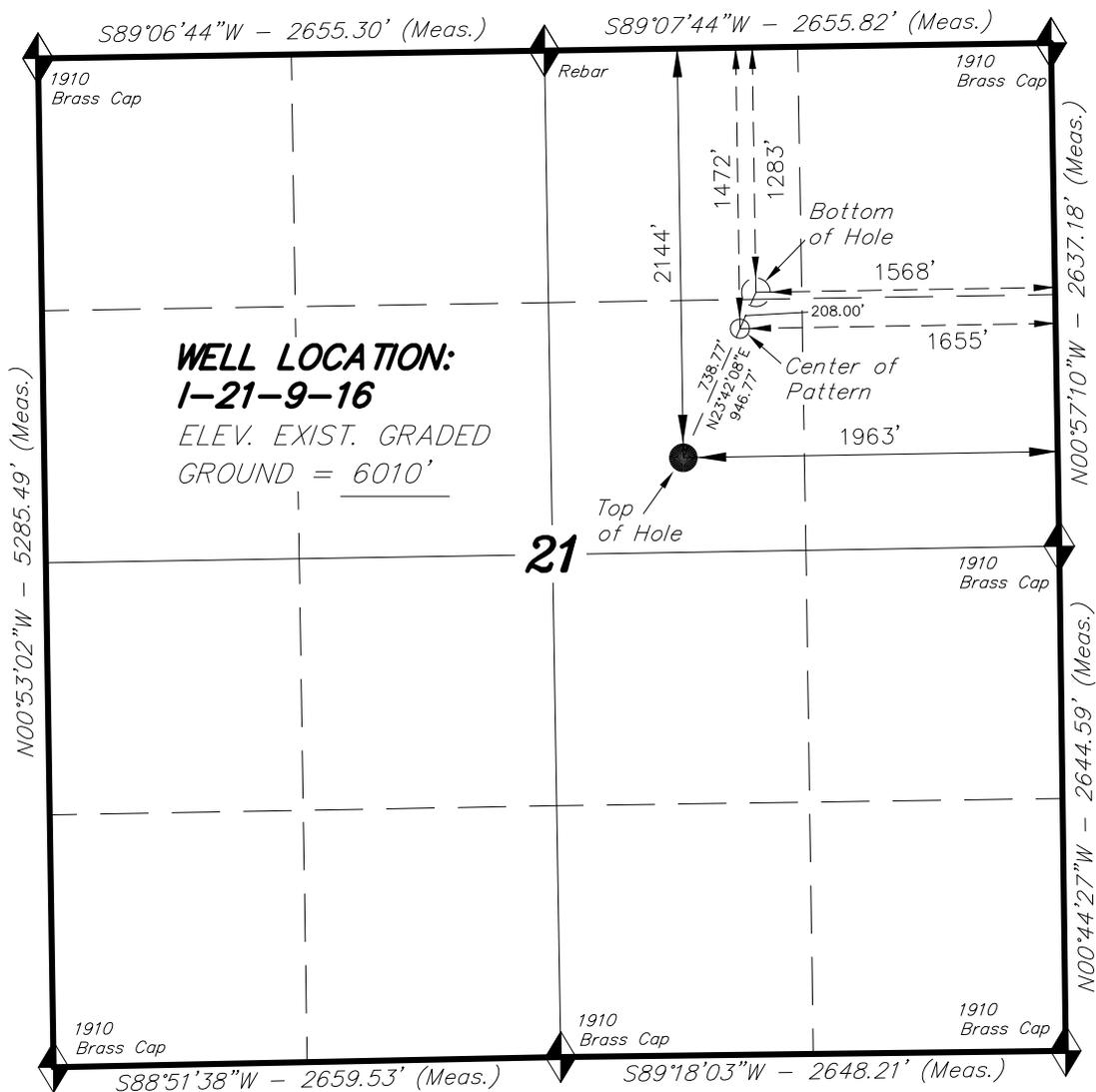
bottomhole pressure will approximately equal total depth in feet multiplied by a 0.433 psi/foot gradient.

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

It is anticipated that the drilling operations will commence the fourth quarter of 2013, and take approximately seven (7) days from spud to rig release.

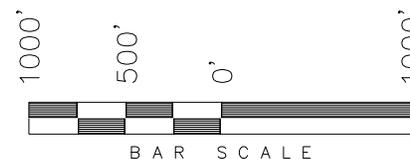
T9S, R16E, S.L.B.&M.

NEWFIELD EXPLORATION COMPANY



WELL LOCATION, I-21-9-16, LOCATED AS SHOWN IN THE SW 1/4 NE 1/4 OF SECTION 21, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.

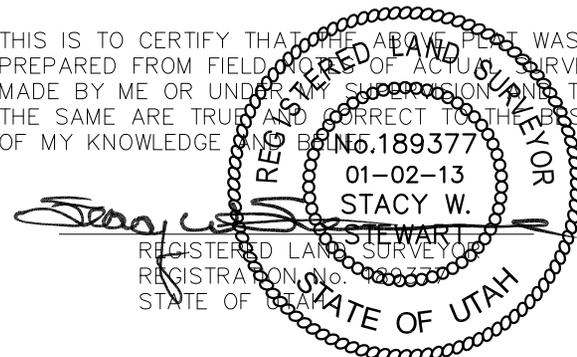
TARGET BOTTOM HOLE, I-21-9-16, LOCATED AS SHOWN IN THE NW 1/4 NE 1/4 OF SECTION 21, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



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'

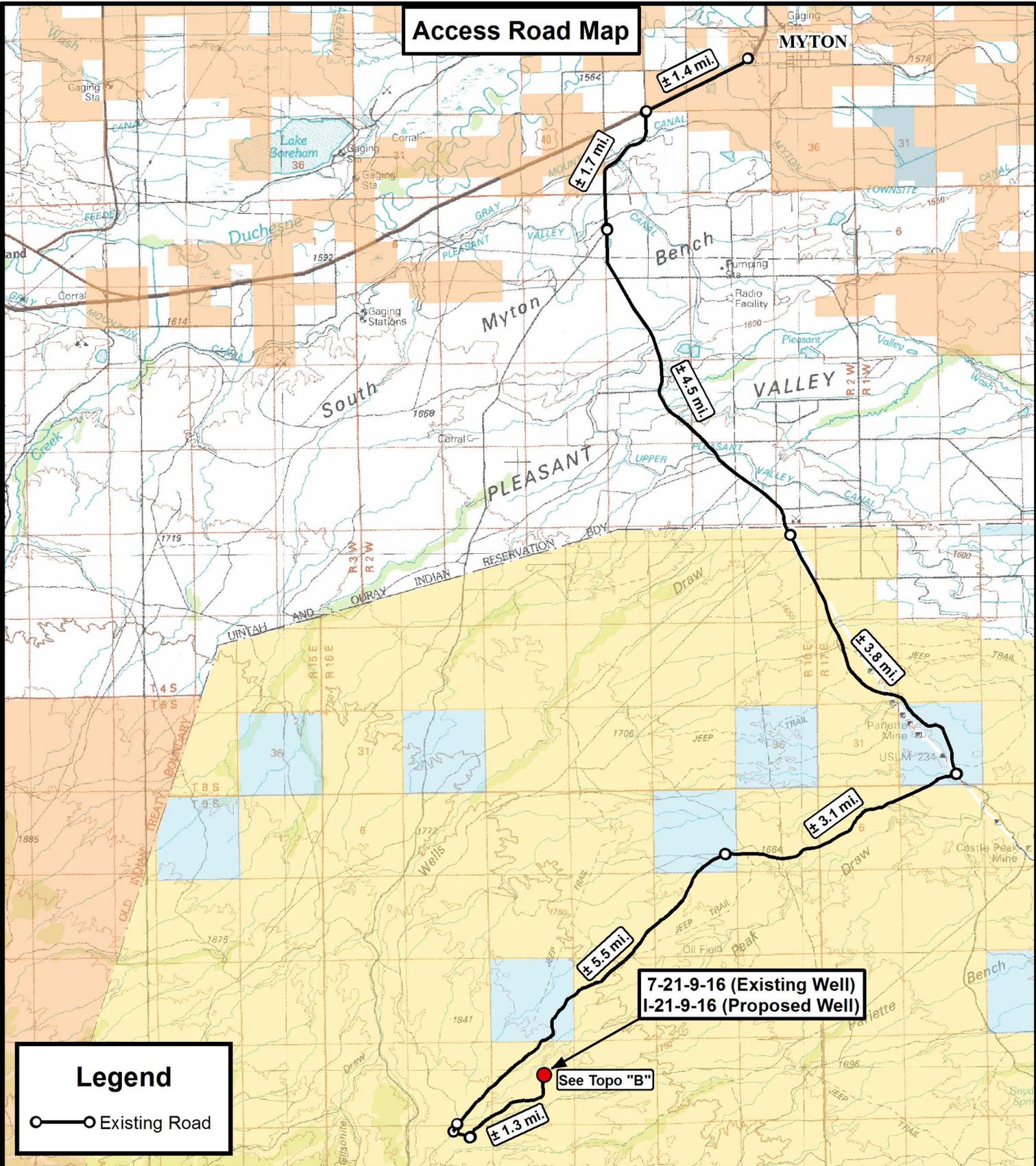
NAD 83 (SURFACE LOCATION)	
LATITUDE = 40°01'03.84"	
LONGITUDE = 110°07'18.50"	
NAD 27 (SURFACE LOCATION)	
LATITUDE = 40°01'03.97"	
LONGITUDE = 110°07'15.95"	
NAD 83 (CENTER OF PATTERN)	NAD 83 (BOTTOM HOLE LOCATION)
LATITUDE = 40°01'10.48"	LATITUDE = 40°01'12.34"
LONGITUDE = 110°07'14.55"	LONGITUDE = 110°07'13.43"
NAD 27 (CENTER OF PATTERN)	NAD 27 (BOTTOM HOLE LOCATION)
LATITUDE = 40°01'10.61"	LATITUDE = 40°01'12.48"
LONGITUDE = 110°07'12.00"	LONGITUDE = 110°07'10.89"

TRI STATE LAND SURVEYING & CONSULTING

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

DATE SURVEYED: 11-30-12	SURVEYED BY: S.H.	VERSION:
DATE DRAWN: 01-02-13	DRAWN BY: V.H.	V1
REVISED:	SCALE: 1" = 1000'	

Access Road Map



7-21-9-16 (Existing Well)
I-21-9-16 (Proposed Well)

Legend

○—○ Existing Road

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

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F: (435) 781-2518



NEWFIELD EXPLORATION COMPANY

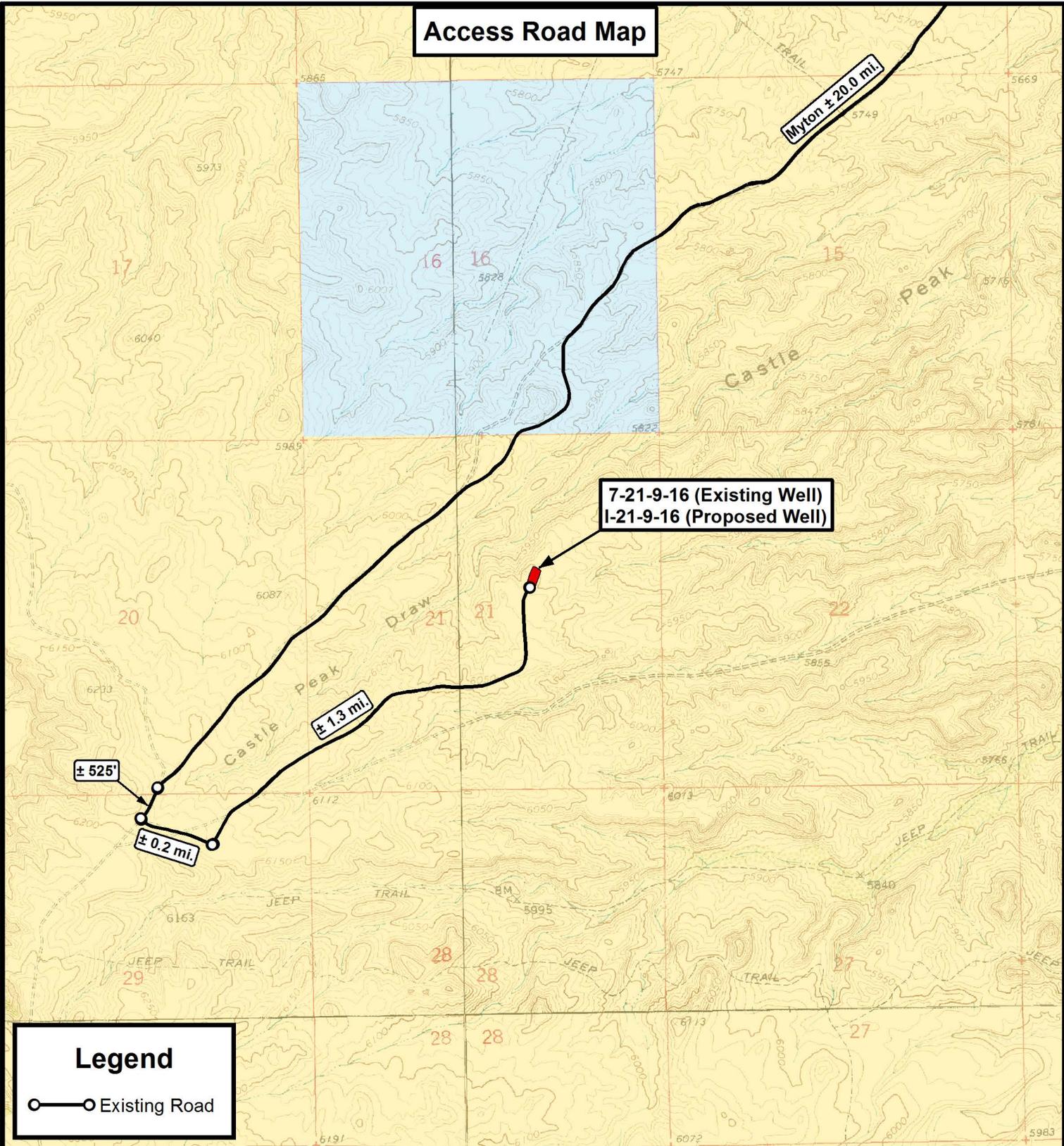
7-21-9-16 (Existing Well)
I-21-9-16 (Proposed Well)
SEC. 21, T9S, R16E, S.L.B.&M.
Duchesne County, UT.

DRAWN BY:	D.C.R.	REVISED:	VERSION:
DATE:	01-08-2013		V1
SCALE:	1:100,000		

TOPOGRAPHIC MAP

SHEET
A

Access Road Map



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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NEWFIELD EXPLORATION COMPANY

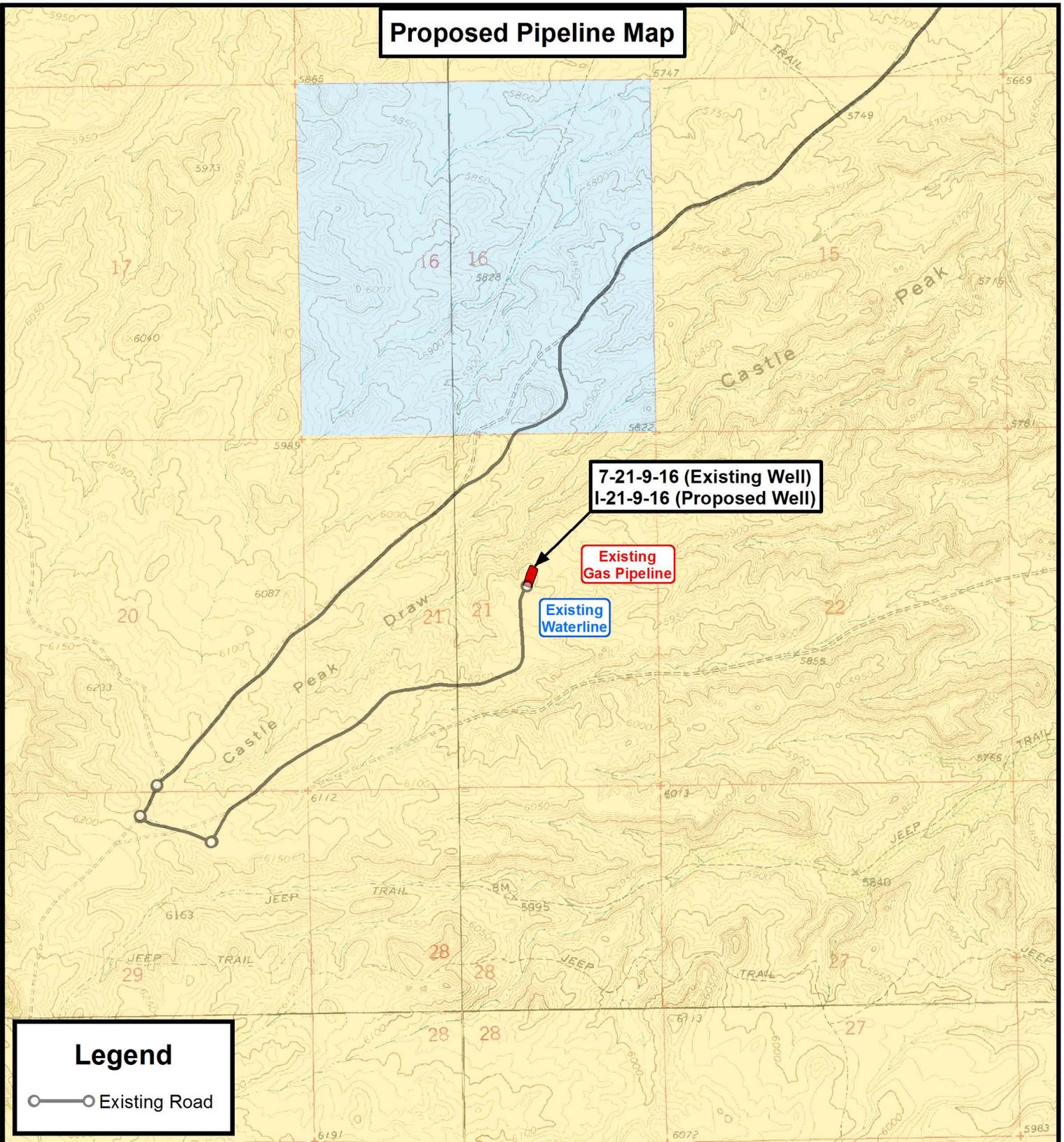
7-21-9-16 (Existing Well)
I-21-9-16 (Proposed Well)
SEC. 21, T9S, R16E, S.L.B.&M.
Duchesne County, UT.

DRAWN BY:	D.C.R.	REVISED:	VERSION:
DATE:	01-08-2013		V1
SCALE:	1" = 2,000'		

TOPOGRAPHIC MAP

SHEET **B**

Proposed Pipeline Map



Legend

○—○ Existing Road

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NEWFIELD EXPLORATION COMPANY

7-21-9-16 (Existing Well)
I-21-9-16 (Proposed Well)
SEC. 21, T9S, R16E, S.L.B.&M.
Duchesne County, UT.

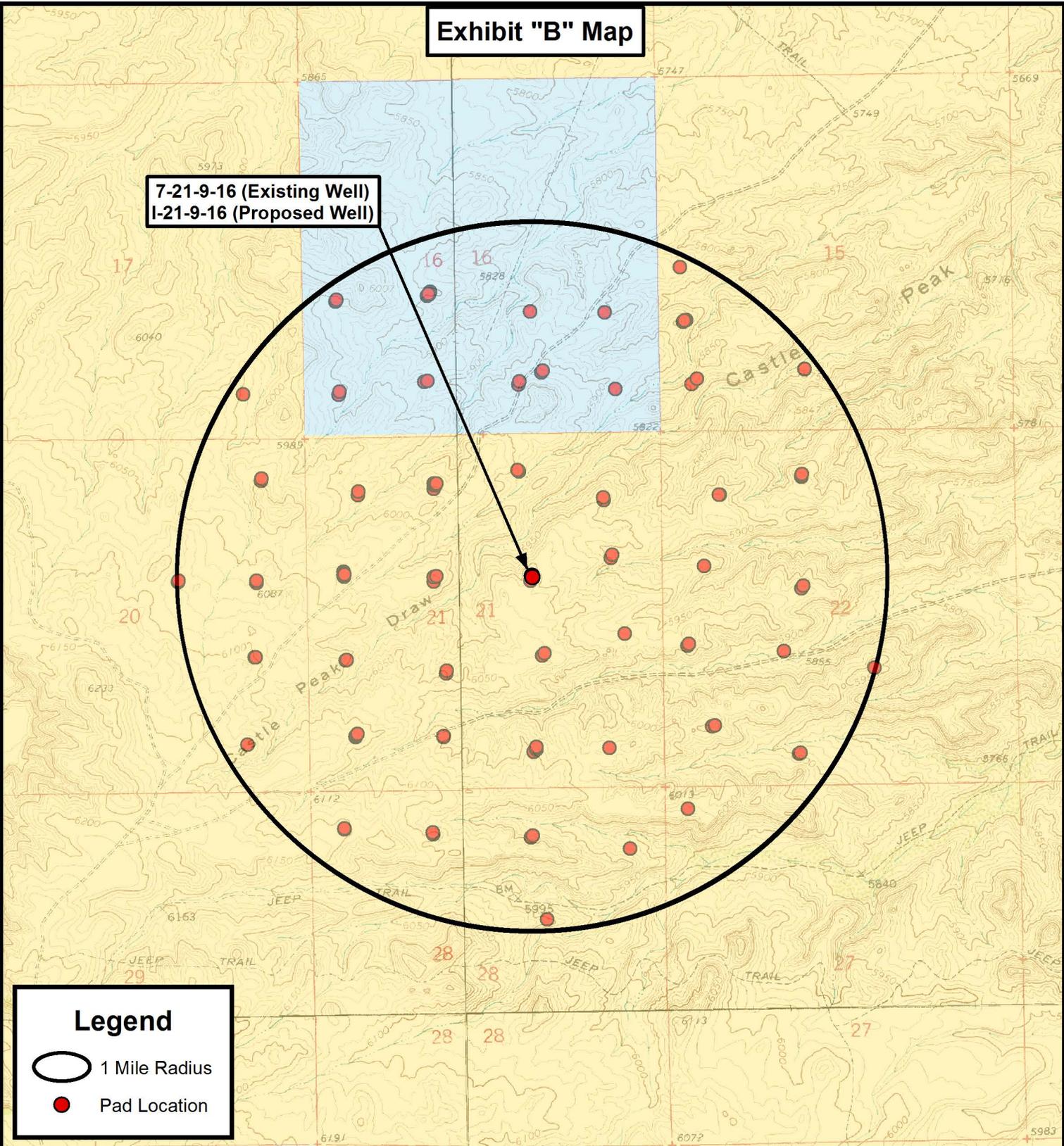
DRAWN BY:	D.C.R.	REVISED:	VERSION:
DATE:	01-08-2013		V1
SCALE:	1" = 2,000'		

TOPOGRAPHIC MAP

SHEET **C**

Exhibit "B" Map

7-21-9-16 (Existing Well)
I-21-9-16 (Proposed Well)



Legend

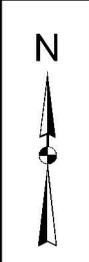
-  1 Mile Radius
-  Pad Location

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NEWFIELD EXPLORATION COMPANY

7-21-9-16 (Existing Well)
 I-21-9-16 (Proposed Well)
 SEC. 21, T9S, R16E, S.L.B.&M.
 Duchesne County, UT.

DRAWN BY:	D.C.R.	REVISED:	VERSION:
DATE:	01-08-2013		V1
SCALE:	1" = 2,000'		

TOPOGRAPHIC MAP

SHEET **D**

Coordinate Report

Well Number	Feature Type	Latitude (NAD 83) (DMS)	Longitude (NAD 83) (DMS)
7-21-9-16	Surface Hole	40° 01' 04.03" N	110° 07' 18.60" W
I-21-9-16	Surface Hole	40° 01' 03.84" N	110° 07' 18.50" W
I-21-9-16	Center of Pattern	40° 01' 10.48" N	110° 07' 14.55" W
I-21-9-16	Bottom of Hole	40° 01' 12.34" N	110° 07' 13.43" W
Well Number	Feature Type	Latitude (NAD 83) (DD)	Longitude (NAD 83) (DD)
7-21-9-16	Surface Hole	40.017787	110.121834
I-21-9-16	Surface Hole	40.017733	110.121804
I-21-9-16	Center of Pattern	40.019577	110.120707
I-21-9-16	Bottom of Hole	40.020096	110.120398
Well Number	Feature Type	Northing (NAD 83) (UTM Meters)	Longitude (NAD 83) (UTM Meters)
7-21-9-16	Surface Hole	4430100.659	574941.014
I-21-9-16	Surface Hole	4430094.752	574943.634
I-21-9-16	Center of Pattern	4430300.309	575035.241
I-21-9-16	Bottom of Hole	4430358.183	575061.033
Well Number	Feature Type	Latitude (NAD 27) (DMS)	Longitude (NAD 27) (DMS)
7-21-9-16	Surface Hole	40° 01' 04.17" N	110° 07' 16.06" W
I-21-9-16	Surface Hole	40° 01' 03.97" N	110° 07' 15.95" W
I-21-9-16	Center of Pattern	40° 01' 10.61" N	110° 07' 12.00" W
I-21-9-16	Bottom of Hole	40° 01' 12.48" N	110° 07' 10.89" W
Well Number	Feature Type	Latitude (NAD 27) (DD)	Longitude (NAD 27) (DD)
7-21-9-16	Surface Hole	40.017824	110.121128
I-21-9-16	Surface Hole	40.017770	110.121098
I-21-9-16	Center of Pattern	40.019614	110.120000
I-21-9-16	Bottom of Hole	40.020133	110.119692
Well Number	Feature Type	Northing (NAD 27) (UTM Meters)	Longitude (NAD 27) (UTM Meters)
7-21-9-16	Surface Hole	4429895.325	575003.266
I-21-9-16	Surface Hole	4429889.418	575005.886
I-21-9-16	Center of Pattern	4430094.975	575097.493
I-21-9-16	Bottom of Hole	4430152.850	575123.284



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NEWFIELD EXPLORATION COMPANY

7-21-9-16 (Existing Well)
I-21-9-16 (Proposed Well)
SEC. 21, T9S, R16E, S.L.B.&M.
Duchesne County, UT.

DRAWN BY: D.C.R.
DATE: 01-08-2013
VERSION: V1

REVISED:

COORDINATE REPORT

SHEET

1

RECEIVED: July 31, 2013



NEWFIELD EXPLORATION

**USGS Myton SW (UT)
SECTION 21 T9S, R16E
I-21-9-16**

Wellbore #1

Plan: Design #1

Standard Planning Report

07 January, 2013





Payzone Directional
Planning Report



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well I-21-9-16
Company:	NEWFIELD EXPLORATION	TVD Reference:	I-21-9-16 @ 6022.0ft (Original Well Elev)
Project:	USGS Myton SW (UT)	MD Reference:	I-21-9-16 @ 6022.0ft (Original Well Elev)
Site:	SECTION 21 T9S, R16E	North Reference:	True
Well:	I-21-9-16	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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

Site	SECTION 21 T9S, R16E				
Site Position:		Northing:	7,178,195.78 ft	Latitude:	40° 1' 4.650 N
From:	Lat/Long	Easting:	2,023,590.50 ft	Longitude:	110° 7' 54.390 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.88 °

Well	I-21-9-16, SHL LAT: 40 01 03.84 LONG: -110 07 18.50					
Well Position	+N/-S	-82.1 ft	Northing:	7,178,156.69 ft	Latitude:	40° 1' 3.840 N
	+E/-W	2,792.1 ft	Easting:	2,026,383.50 ft	Longitude:	110° 7' 18.500 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	6,022.0 ft	Ground Level:	6,010.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/29/2012	11.15	65.73	52,099

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	23.70

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	
1,326.8	10.90	23.70	1,322.5	63.1	27.7	1.50	1.50	3.26	23.70	
4,868.3	10.90	23.70	4,800.0	676.5	297.0	0.00	0.00	0.00	0.00	I-21-9-16 TGT
5,968.2	10.90	23.70	5,880.0	866.9	380.6	0.00	0.00	0.00	0.00	



Payzone Directional
Planning Report



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well I-21-9-16
Company:	NEWFIELD EXPLORATION	TVD Reference:	I-21-9-16 @ 6022.0ft (Original Well Elev)
Project:	USGS Myton SW (UT)	MD Reference:	I-21-9-16 @ 6022.0ft (Original Well Elev)
Site:	SECTION 21 T9S, R16E	North Reference:	True
Well:	I-21-9-16	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	1.50	23.70	700.0	1.2	0.5	1.3	1.50	1.50	0.00
800.0	3.00	23.70	799.9	4.8	2.1	5.2	1.50	1.50	0.00
900.0	4.50	23.70	899.7	10.8	4.7	11.8	1.50	1.50	0.00
1,000.0	6.00	23.70	999.3	19.2	8.4	20.9	1.50	1.50	0.00
1,100.0	7.50	23.70	1,098.6	29.9	13.1	32.7	1.50	1.50	0.00
1,200.0	9.00	23.70	1,197.5	43.1	18.9	47.0	1.50	1.50	0.00
1,300.0	10.50	23.70	1,296.1	58.6	25.7	64.0	1.50	1.50	0.00
1,326.8	10.90	23.70	1,322.5	63.1	27.7	68.9	1.50	1.50	0.00
1,400.0	10.90	23.70	1,394.3	75.8	33.3	82.8	0.00	0.00	0.00
1,500.0	10.90	23.70	1,492.5	93.1	40.9	101.7	0.00	0.00	0.00
1,600.0	10.90	23.70	1,590.7	110.4	48.5	120.6	0.00	0.00	0.00
1,700.0	10.90	23.70	1,688.9	127.8	56.1	139.5	0.00	0.00	0.00
1,800.0	10.90	23.70	1,787.1	145.1	63.7	158.4	0.00	0.00	0.00
1,900.0	10.90	23.70	1,885.3	162.4	71.3	177.4	0.00	0.00	0.00
2,000.0	10.90	23.70	1,983.5	179.7	78.9	196.3	0.00	0.00	0.00
2,100.0	10.90	23.70	2,081.7	197.0	86.5	215.2	0.00	0.00	0.00
2,200.0	10.90	23.70	2,179.9	214.3	94.1	234.1	0.00	0.00	0.00
2,300.0	10.90	23.70	2,278.1	231.7	101.7	253.0	0.00	0.00	0.00
2,400.0	10.90	23.70	2,376.3	249.0	109.3	271.9	0.00	0.00	0.00
2,500.0	10.90	23.70	2,474.4	266.3	116.9	290.8	0.00	0.00	0.00
2,600.0	10.90	23.70	2,572.6	283.6	124.5	309.7	0.00	0.00	0.00
2,700.0	10.90	23.70	2,670.8	300.9	132.1	328.7	0.00	0.00	0.00
2,800.0	10.90	23.70	2,769.0	318.3	139.7	347.6	0.00	0.00	0.00
2,900.0	10.90	23.70	2,867.2	335.6	147.3	366.5	0.00	0.00	0.00
3,000.0	10.90	23.70	2,965.4	352.9	154.9	385.4	0.00	0.00	0.00
3,100.0	10.90	23.70	3,063.6	370.2	162.5	404.3	0.00	0.00	0.00
3,200.0	10.90	23.70	3,161.8	387.5	170.1	423.2	0.00	0.00	0.00
3,300.0	10.90	23.70	3,260.0	404.8	177.7	442.1	0.00	0.00	0.00
3,400.0	10.90	23.70	3,358.2	422.2	185.3	461.1	0.00	0.00	0.00
3,500.0	10.90	23.70	3,456.4	439.5	192.9	480.0	0.00	0.00	0.00
3,600.0	10.90	23.70	3,554.6	456.8	200.5	498.9	0.00	0.00	0.00
3,700.0	10.90	23.70	3,652.8	474.1	208.1	517.8	0.00	0.00	0.00
3,800.0	10.90	23.70	3,751.0	491.4	215.7	536.7	0.00	0.00	0.00
3,900.0	10.90	23.70	3,849.2	508.8	223.4	555.6	0.00	0.00	0.00
4,000.0	10.90	23.70	3,947.4	526.1	231.0	574.5	0.00	0.00	0.00
4,100.0	10.90	23.70	4,045.6	543.4	238.6	593.5	0.00	0.00	0.00
4,200.0	10.90	23.70	4,143.8	560.7	246.2	612.4	0.00	0.00	0.00
4,300.0	10.90	23.70	4,242.0	578.0	253.8	631.3	0.00	0.00	0.00
4,400.0	10.90	23.70	4,340.2	595.3	261.4	650.2	0.00	0.00	0.00
4,500.0	10.90	23.70	4,438.3	612.7	269.0	669.1	0.00	0.00	0.00
4,600.0	10.90	23.70	4,536.5	630.0	276.6	688.0	0.00	0.00	0.00
4,700.0	10.90	23.70	4,634.7	647.3	284.2	706.9	0.00	0.00	0.00
4,800.0	10.90	23.70	4,732.9	664.6	291.8	725.9	0.00	0.00	0.00
4,868.3	10.90	23.70	4,800.0	676.5	297.0	738.8	0.00	0.00	0.00
4,900.0	10.90	23.70	4,831.1	681.9	299.4	744.8	0.00	0.00	0.00
5,000.0	10.90	23.70	4,929.3	699.3	307.0	763.7	0.00	0.00	0.00
5,100.0	10.90	23.70	5,027.5	716.6	314.6	782.6	0.00	0.00	0.00



Payzone Directional
Planning Report

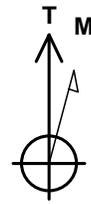


Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well I-21-9-16
Company:	NEWFIELD EXPLORATION	TVD Reference:	I-21-9-16 @ 6022.0ft (Original Well Elev)
Project:	USGS Myton SW (UT)	MD Reference:	I-21-9-16 @ 6022.0ft (Original Well Elev)
Site:	SECTION 21 T9S, R16E	North Reference:	True
Well:	I-21-9-16	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,200.0	10.90	23.70	5,125.7	733.9	322.2	801.5	0.00	0.00	0.00
5,300.0	10.90	23.70	5,223.9	751.2	329.8	820.4	0.00	0.00	0.00
5,400.0	10.90	23.70	5,322.1	768.5	337.4	839.3	0.00	0.00	0.00
5,500.0	10.90	23.70	5,420.3	785.9	345.0	858.3	0.00	0.00	0.00
5,600.0	10.90	23.70	5,518.5	803.2	352.6	877.2	0.00	0.00	0.00
5,700.0	10.90	23.70	5,616.7	820.5	360.2	896.1	0.00	0.00	0.00
5,800.0	10.90	23.70	5,714.9	837.8	367.8	915.0	0.00	0.00	0.00
5,900.0	10.90	23.70	5,813.1	855.1	375.4	933.9	0.00	0.00	0.00
5,968.2	10.90	23.70	5,880.0	866.9	380.6	946.8	0.00	0.00	0.00

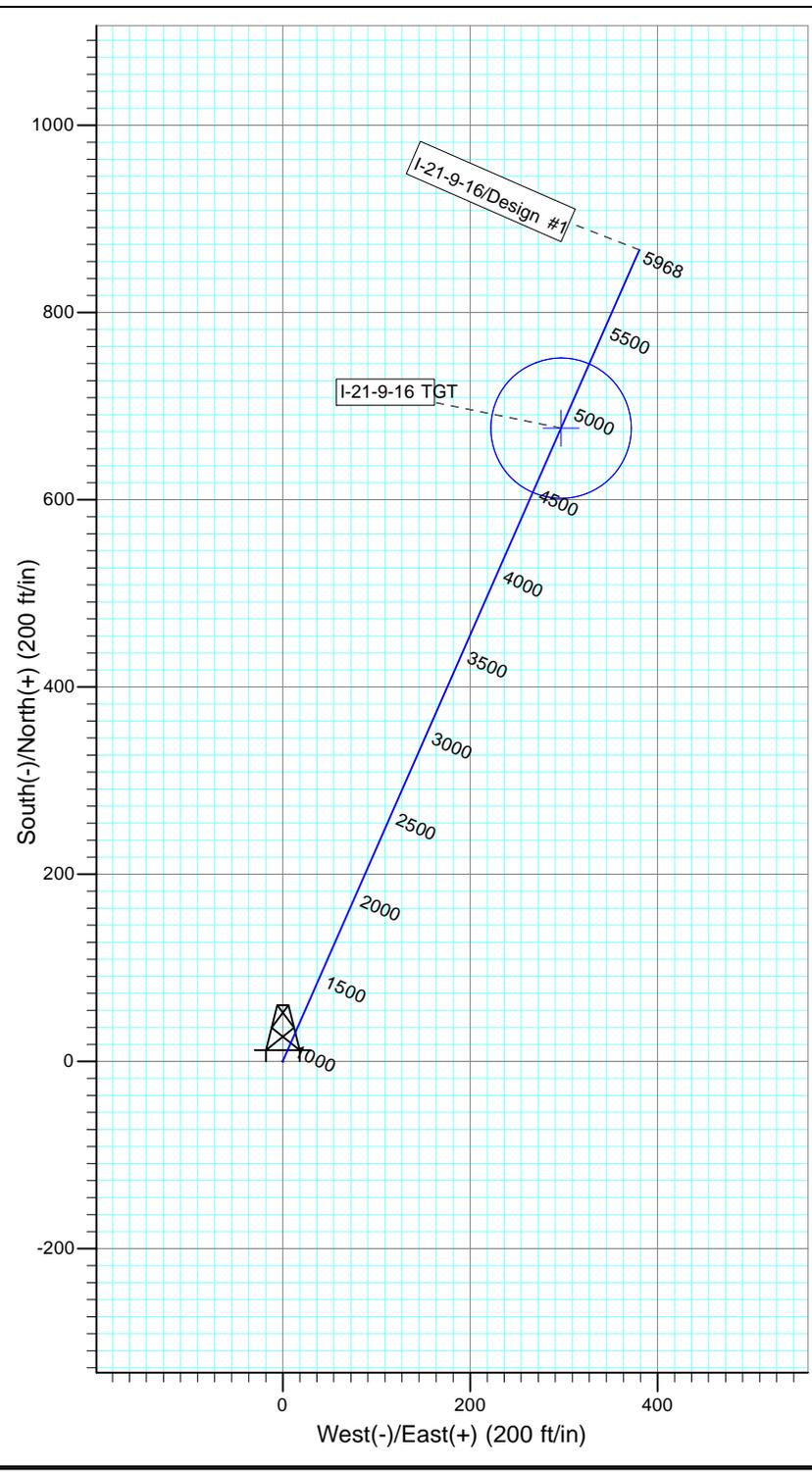
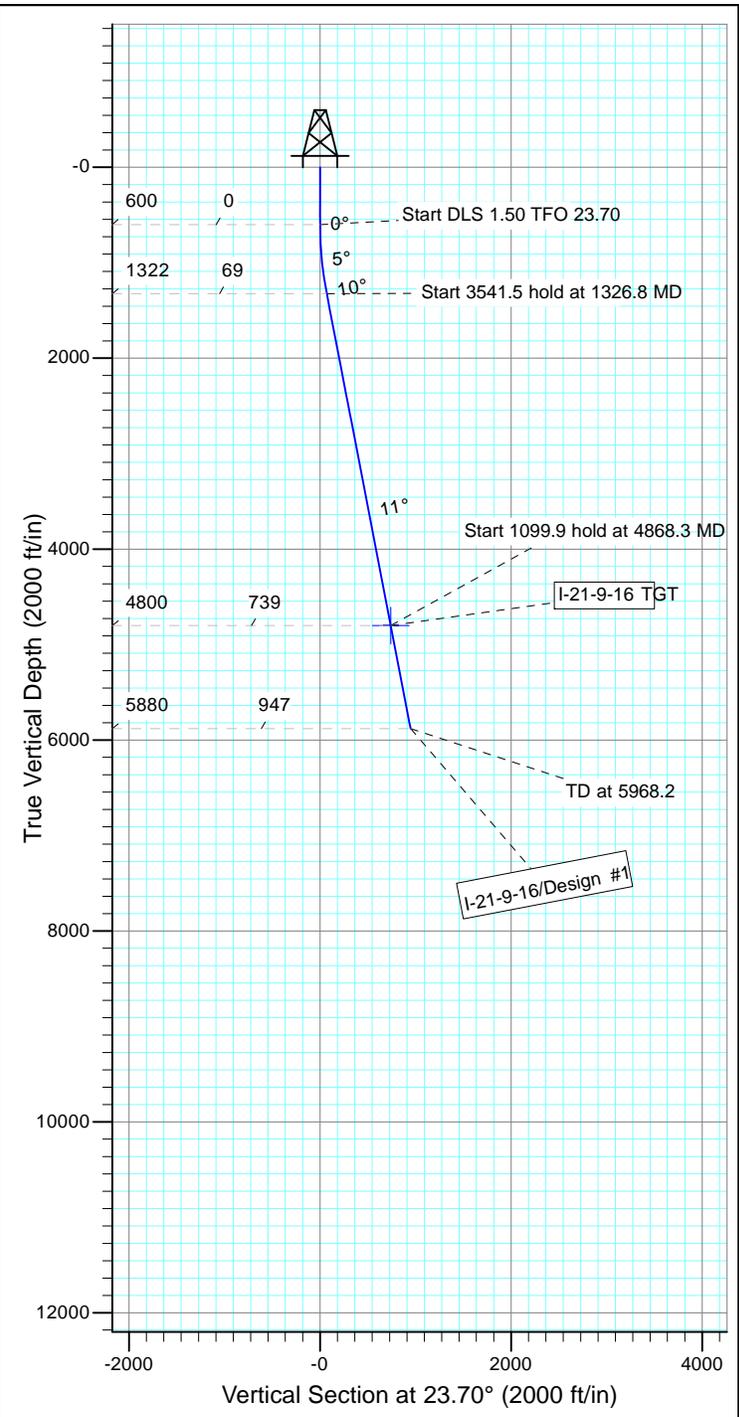


Project: USGS Myton SW (UT)
 Site: SECTION 21 T9S, R16E
 Well: I-21-9-16
 Wellbore: Wellbore #1
 Design: Design #1



Azimuths to True North
 Magnetic North: 11.15°

Magnetic Field
 Strength: 52099.3snT
 Dip Angle: 65.72°
 Date: 11/29/2012
 Model: IGRF2010



WELLBORE TARGET DETAILS				
Name	TVD	+N/-S	+E/-W	Shape
I-21-9-16 TGT	4800.0	676.5	297.0	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	1326.8	10.90	23.70	1322.5	63.1	27.7	1.50	23.70	68.9	
4	4868.3	10.90	23.70	4800.0	676.5	297.0	0.00	0.00	738.8	I-21-9-16 TGT
5	5968.2	10.90	23.70	5880.0	866.9	380.6	0.00	0.00	946.8	



**NEWFIELD PRODUCTION COMPANY
GMBU I-21-9-16
AT SURFACE: SW/NE SECTION 21, T9S R16E
DUCHESNE COUNTY, UTAH
ONSHORE ORDER NO. 1**

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. EXISTING ROADS

See attached Topographic Map "A"

To reach Newfield Production Company well location site GMBU I-21-9-16 located in the SW 1/4 NE 1/4 Section 21, T9S, R16E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 – 1.4 miles ± to the junction of this highway and UT State Hwy 53; proceed in a southeasterly direction – 10.0 miles ± to it's junction with an existing road to the west; proceed in a southwesterly direction – 8.6 miles ± to it's junction with an existing road to the east; proceed in a northeasterly direction – 1.3 miles ± to it's junction with the beginning of the access road to the existing 7-21-9-16 well location.

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

The roads for access during the drilling, completion and production phase will be maintained at the standards required by the State of Utah, or other controlling agencies. This maintenance will consist of some minor grader work for smoothing road surfaces and for snow removal. Any necessary fill material for repair will be purchase and hauled from private sources.

2. PLANNED ACCESS ROAD

There is no proposed access road for this location. The proposed well will be drilled directionally off of the existing 7-21-9-16 well pad. See attached **Topographic Map "B"**.

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

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

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

3. LOCATION OF EXISTING WELLS

Refer to Exhibit "B".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

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

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

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

Tank batteries will be built to State specifications.

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

5. **LOCATION AND TYPE OF WATER SUPPLY**

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

Johnson Water District
Water Right : 43-7478

Maurice Harvey Pond
Water Right: 47-1358

Neil Moon Pond
Water Right: 43-11787

Newfield Collector Well
Water Right: 47-1817 (A30414DVA, contracted with the Duchesne County Conservancy District).

There will be no water well drilled at this site.

6. **SOURCE OF CONSTRUCTION MATERIALS**

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

A mineral material application is not required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

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

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

A portable toilet will be provided for human waste.

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

8. **ANCILLARY FACILITIES**

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

9. **WELL SITE LAYOUT**

See attached Location Layout Sheet.

Fencing Requirements

- a) All pits will be fenced or have panels installed consistent with the following minimum standards:
 1. The wire shall be no more than two (2) inches above the ground. If barbed wire is utilized it will be installed three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.
 2. Corner posts shall be centered and/or braced in such a manner to keep tight and upright at all times
 3. Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.

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

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

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

- a) Producing Location

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

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

- b) Dry Hole Abandoned Location

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

11. **SURFACE OWNERSHIP** – Bureau of Land Management.

12. **OTHER ADDITIONAL INFORMATION**

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report # 13-168 7/11/13, prepared by Montgomery Archaeological Consultants. . Paleontological Resource Survey prepared by, SWCA Environmental Consultants, Report No. UT13-14273-50, May 2013. See attached report cover pages, Exhibit "D".

Water Disposal

After first production, if the production water meets quality guidelines, it will be transported to the Ashley, Monument Butte, Jonah, South Wells Draw and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project. Water not meeting quality criteria, will be disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E), Federally approved surface disposal facilities or at a State of Utah approved surface disposal facilities.

Additional Surface Stipulations

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

Hazardous Material Declaration

Newfield Production Company guarantees that during the drilling and completion of the GMBU I-21-9-16, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the GMBU I-21-9-16, Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

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

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

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

Representative

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

Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well # I-21-9-16, Section 21, Township 9S, Range 16E: Lease UTU-64379 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Federal Bond #WYB000493.

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

Date 7/30/13

Heather Calder
Production Technician
Newfield Production Company

Typical 2M BOP stack configuration



2M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

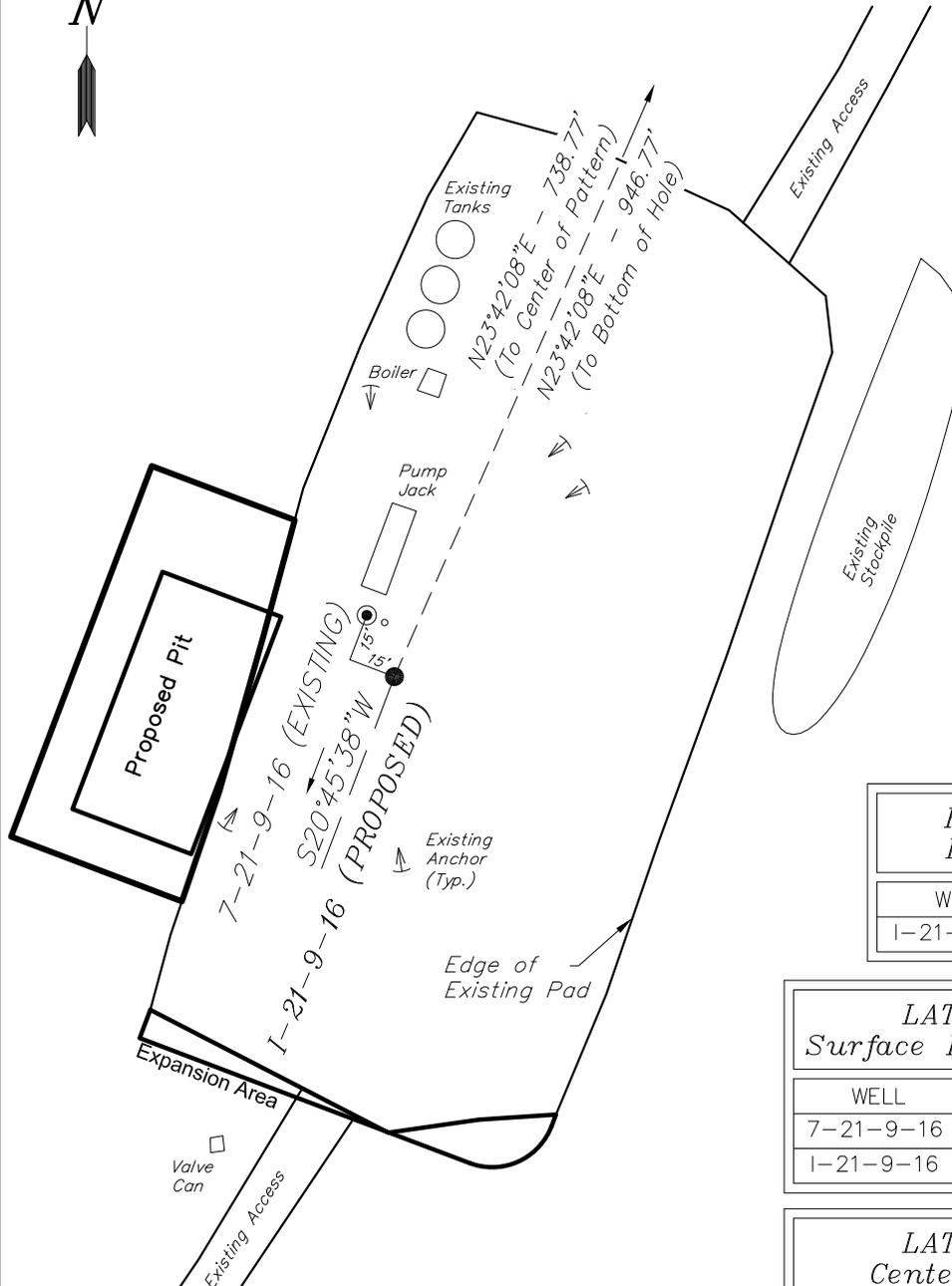
NEWFIELD EXPLORATION COMPANY

WELL PAD INTERFERENCE PLAT

7-21-9-16 (Existing Well)

1-21-9-16 (Proposed Well)

Pad Location: SWNE Section 21, T9S, R16E, S.L.B.&M.



TOP HOLE FOOTAGES

1-21-9-16
2144' FNL & 1963' FEL

CENTER OF PATTERN FOOTAGES

1-21-9-16
1472' FNL & 1655' FEL

BOTTOM HOLE FOOTAGES

1-21-9-16
1283' FNL & 1568' FEL

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

WELL	NORTH	EAST
1-21-9-16	676'	297'

**LATITUDE & LONGITUDE
Surface Position of Wells (NAD 83)**

WELL	LATITUDE	LONGITUDE
7-21-9-16	40° 01' 04.03"	110° 07' 18.60"
1-21-9-16	40° 01' 03.84"	110° 07' 18.50"

**LATITUDE & LONGITUDE
Center of Pattern (NAD 83)**

WELL	LATITUDE	LONGITUDE
1-21-9-16	40° 01' 10.48"	110° 07' 14.55"

**LATITUDE & LONGITUDE
Bottom Hole Position (NAD 83)**

WELL	LATITUDE	LONGITUDE
1-21-9-16	40° 01' 12.34"	110° 07' 13.43"

**RELATIVE COORDINATES
From Top Hole to Bottom Hole**

WELL	NORTH	EAST
1-21-9-16	867'	381'

Note:
Bearings are based on GPS Observations.

SURVEYED BY: S.H.	DATE SURVEYED: 11-30-12	VERSION:
DRAWN BY: V.H.	DATE DRAWN: 01-02-13	V1
SCALE: 1" = 60'	REVISED:	

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

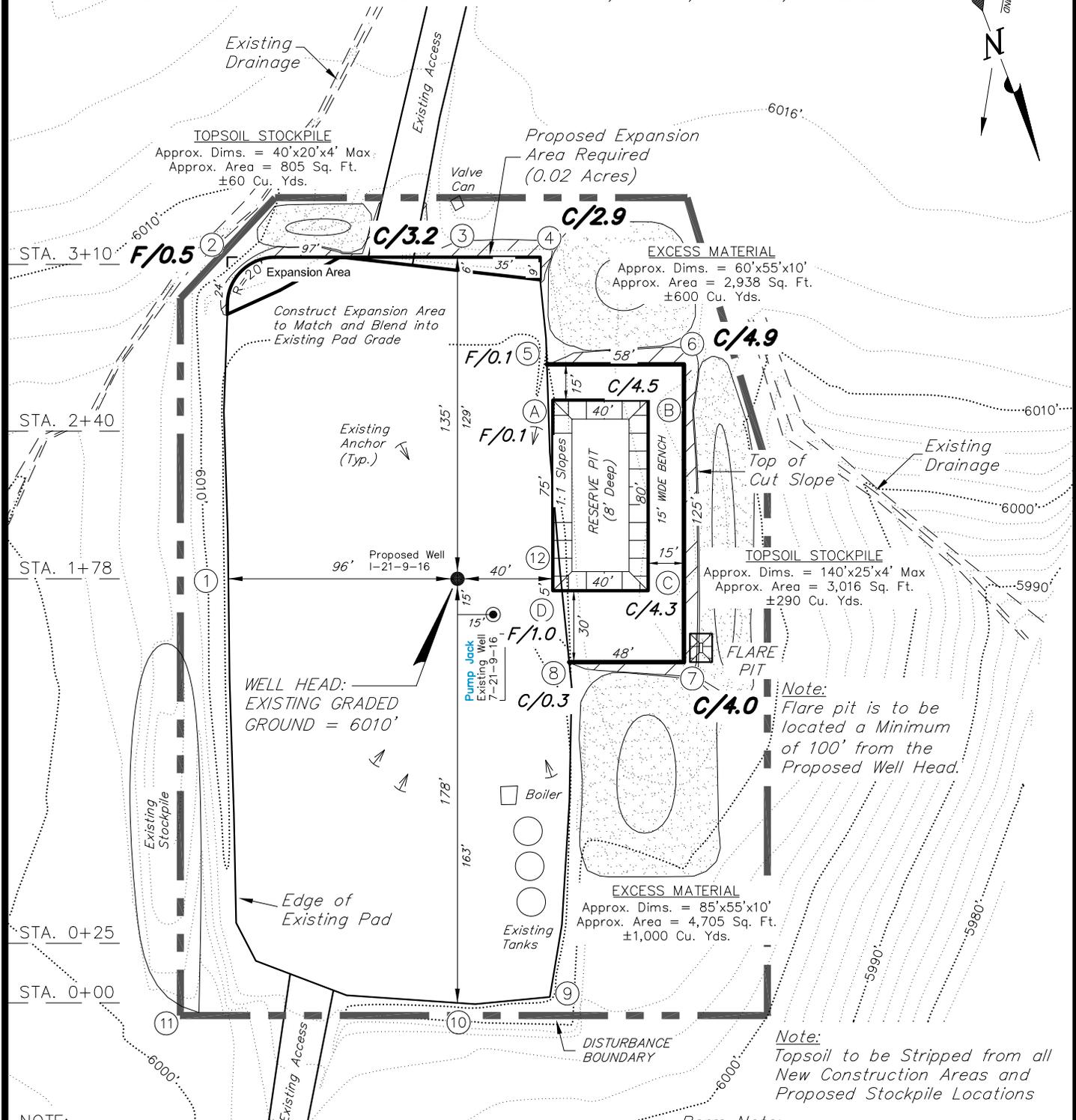
NEWFIELD EXPLORATION COMPANY

LOCATION LAYOUT

7-21-9-16 (Existing Well)

I-21-9-16 (Proposed Well)

Pad Location: SWNE Section 21, T9S, R16E, S.L.B.&M.



NOTE:
 The topsoil & excess material areas are calculated as being mounds containing 1,950 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.

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

Note:
 Topsoil to be Stripped from all New Construction Areas and Proposed Stockpile Locations

Berm Note:
 Construct 2' High Berm around Perimeter of Pad, Except when Cut Exceeds 2'. Blend new Constructed Berm into Existing Pad Berm where Required.

SURVEYED BY: S.H.	DATE SURVEYED: 11-30-12	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 01-02-13	V1
SCALE: 1" = 60'	REVISED:	

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

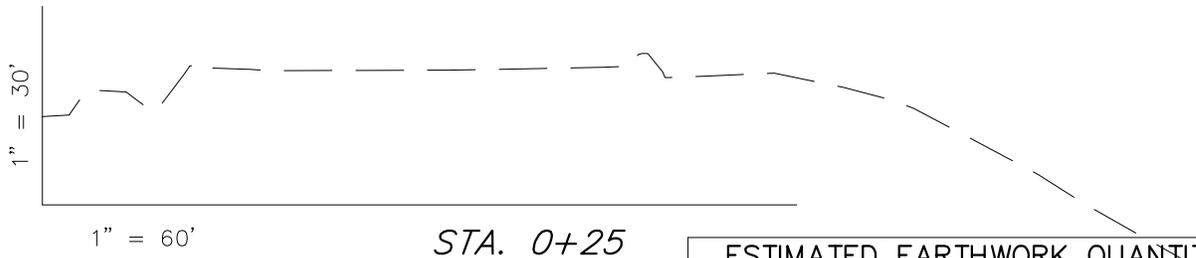
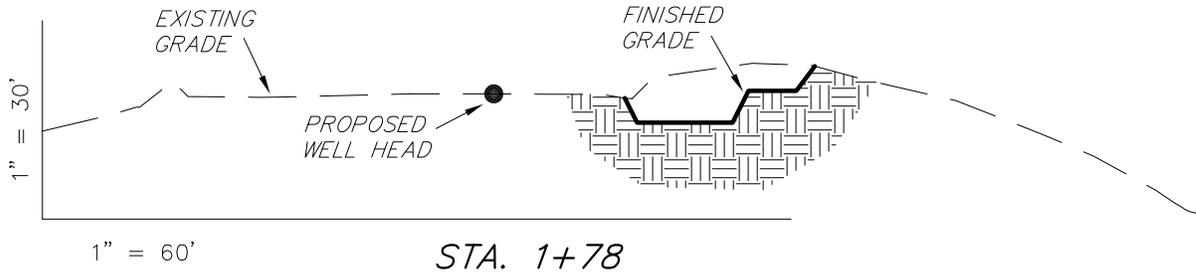
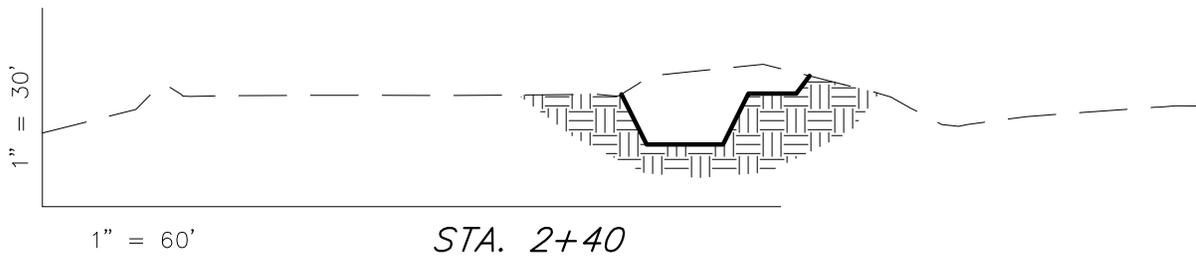
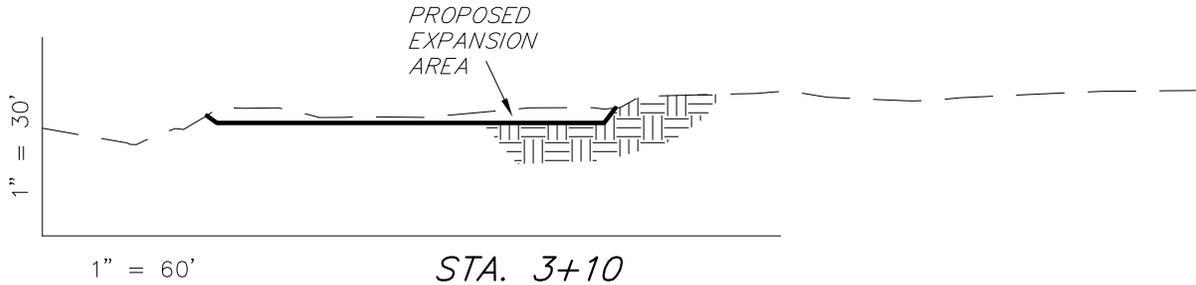
NEWFIELD EXPLORATION COMPANY

CROSS SECTIONS

7-21-9-16 (Existing Well)

I-21-9-16 (Proposed Well)

Pad Location: SWNE Section 21, T9S, R16E, S.L.B.&M.



ESTIMATED EARTHWORK QUANTITIES
(No Shrink or swell adjustments have been used)
(Expressed in Cubic Yards)

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	790	20	Topsoil is not included in Pad Cut	770
PIT	690	0		690
TOTALS	1,480	20	320	1,460

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

SURVEYED BY: S.H.	DATE SURVEYED: 11-30-12	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 01-02-13	V1
SCALE: 1" = 60'	REVISED:	

Tri State

Land Surveying, Inc.

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

(435) 781-2501

RECEIVED: July 31, 2013

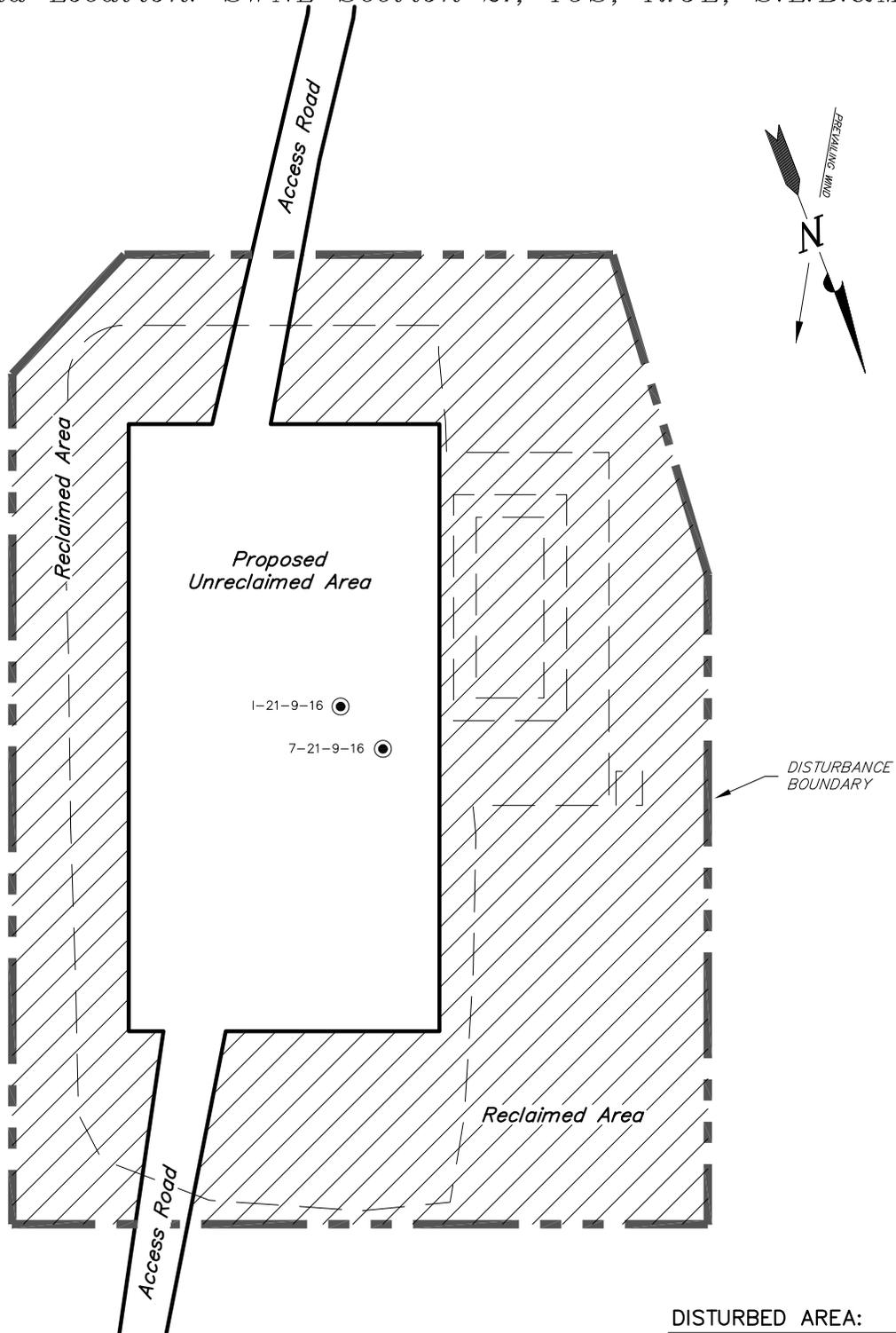
NEWFIELD EXPLORATION COMPANY

RECLAMATION LAYOUT

7-21-9-16 (Existing Well)

I-21-9-16 (Proposed Well)

Pad Location: SWNE Section 21, T9S, R16E, S.L.B.&M.



Notes:

1. Reclaimed Area to Include Seeding of Approved Vegetation and Sufficient Storm Water Management System.
2. Actual Equipment Layout and Reclaimed Pad Surface Area May Change due to Production Requirements or Site Conditions.

DISTURBED AREA:

TOTAL DISTURBED AREA = 1.88 ACRES
 TOTAL RECLAIMED AREA = 1.28 ACRES
 UNRECLAIMED AREA = 0.60 ACRES

SURVEYED BY: S.H.	DATE SURVEYED: 11-30-12	VERSION: V1
DRAWN BY: F.T.M.	DATE DRAWN: 01-02-13	
SCALE: 1" = 60'	REVISED:	

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

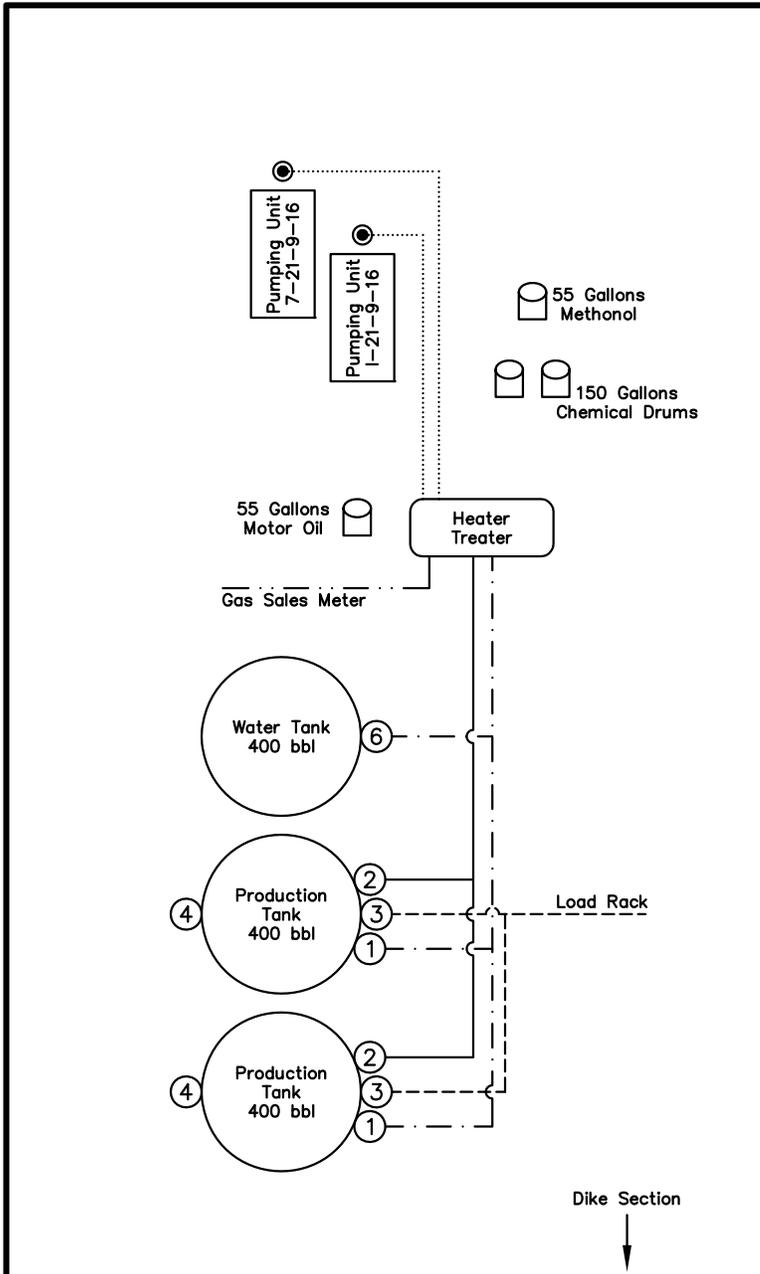
NEWFIELD EXPLORATION COMPANY

PROPOSED SITE FACILITY DIAGRAM

7-21-9-16 (Existing Well) UTU-64379

I-21-9-16 (Proposed Well) UTU-64379

Pad Location: SWNE Section 21, T9S, R16E, S.L.B.&M.
Duchesne County, Utah



Legend

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

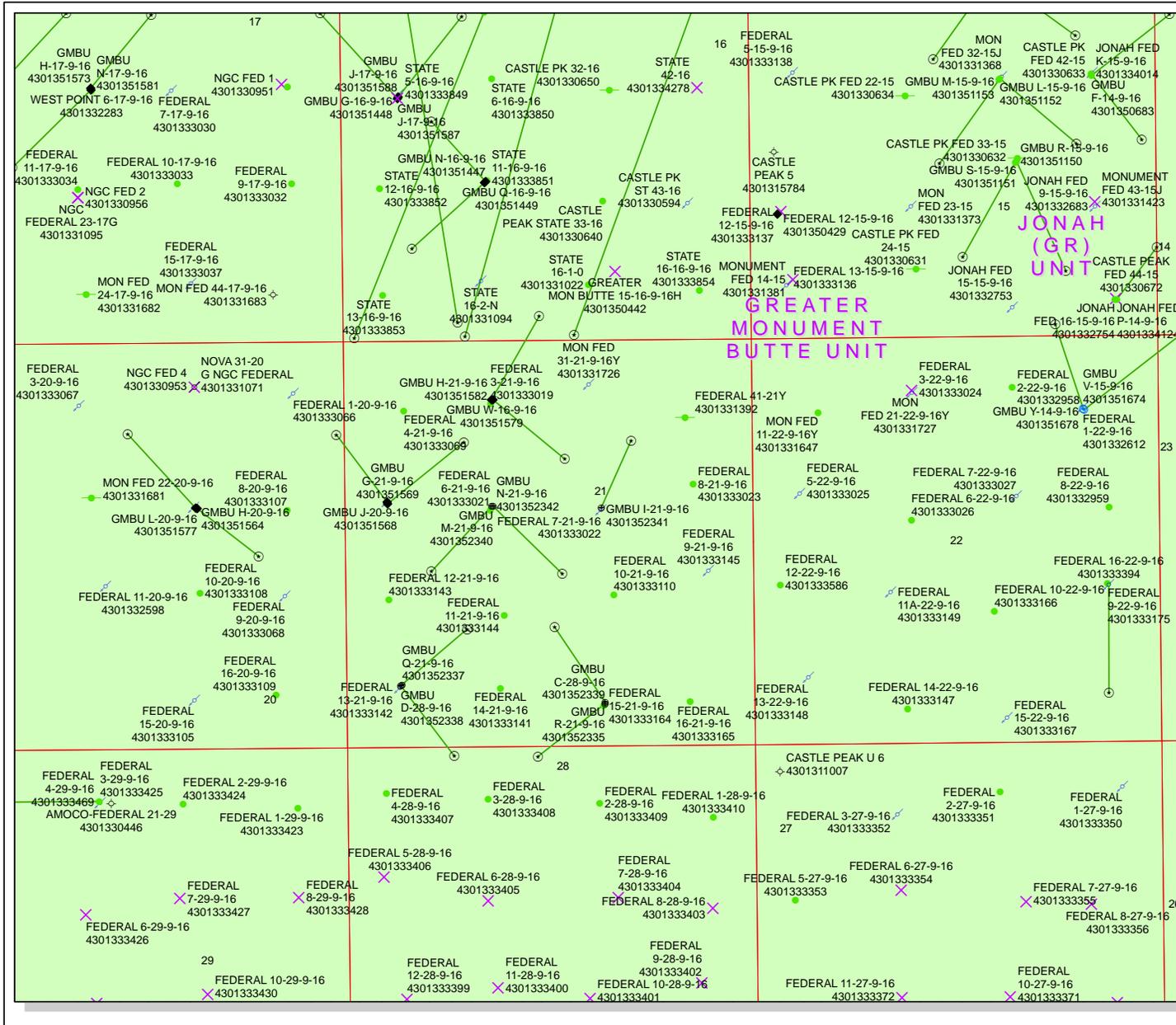
NOT TO SCALE

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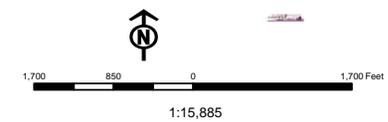
Tri State (435) 781-2501
Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

API Number: 4301352341
Well Name: GMBU I-21-9-16
Township T09.0S Range R16.0E Section 21
Meridian: SLBM
Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:
Map Produced by Diana Mason



- Units STATUS
- ACTIVE
 - EXPLORATORY
 - GAS STORAGE
 - NF PP OIL
 - NF SECONDARY
 - PI OIL
 - PP GAS
 - PP GEOTHERMAL
 - PP OIL
 - SECONDARY
 - TERMINATED



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
440 West 200 South, Suite 500
Salt Lake City, UT 84101

IN REPLY REFER TO:
3160
(UT-922)

August 5, 2013

Memorandum

To: Assistant Field Office Manager Minerals,
Vernal Field Office

From: Michael Coulthard, Petroleum Engineer

Subject: 2013 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 2013 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-047-53920	GMBU M-26-8-17	Sec 26 T08S R17E 1952 FSL 2190 FEL BHL Sec 26 T08S R17E 2491 FNL 2563 FWL
43-047-53921	GMBU S-26-8-17	Sec 26 T08S R17E 1969 FSL 2178 FEL BHL Sec 26 T08S R17E 1158 FSL 1106 FEL
43-013-52334	GMBU X-9-9-16	Sec 16 T09S R16E 0684 FNL 0855 FWL BHL Sec 09 T09S R16E 0282 FSL 1494 FWL
43-013-52335	GMBU R-21-9-16	Sec 21 T09S R16E 0604 FSL 1937 FEL BHL Sec 21 T09S R16E 1585 FSL 2584 FEL
43-013-52337	GMBU Q-21-9-16	Sec 21 T09S R16E 0843 FSL 0716 FWL BHL Sec 21 T09S R16E 1563 FSL 1567 FWL
43-013-52338	GMBU D-28-9-16	Sec 21 T09S R16E 0829 FSL 0700 FWL BHL Sec 28 T09S R16E 0089 FNL 1383 FWL
43-013-52339	GMBU C-28-9-16	Sec 21 T09S R16E 0583 FSL 1936 FEL BHL Sec 28 T09S R16E 0097 FNL 2470 FWL
43-013-52340	GMBU M-21-9-16	Sec 21 T09S R16E 2107 FNL 1926 FWL BHL Sec 21 T09S R16E 2276 FSL 2481 FEL
43-013-52341	GMBU I-21-9-16	Sec 21 T09S R16E 2144 FNL 1963 FEL BHL Sec 21 T09S R16E 1283 FNL 1568 FEL
43-013-52342	GMBU N-21-9-16	Sec 21 T09S R16E 2113 FNL 1906 FWL BHL Sec 21 T09S R16E 2312 FSL 1117 FWL

RECEIVED: August 06, 2013

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

Michael Coulthard  Digitally signed by Michael Coulthard
DN: cn=Michael Coulthard, o=Bureau of Land
Management, ou=Division of Minerals,
email=mcoultha@blm.gov, c=US
Date: 2013.08.05 14:48:46 -0600

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

MCoulthard:mc:8-5-13

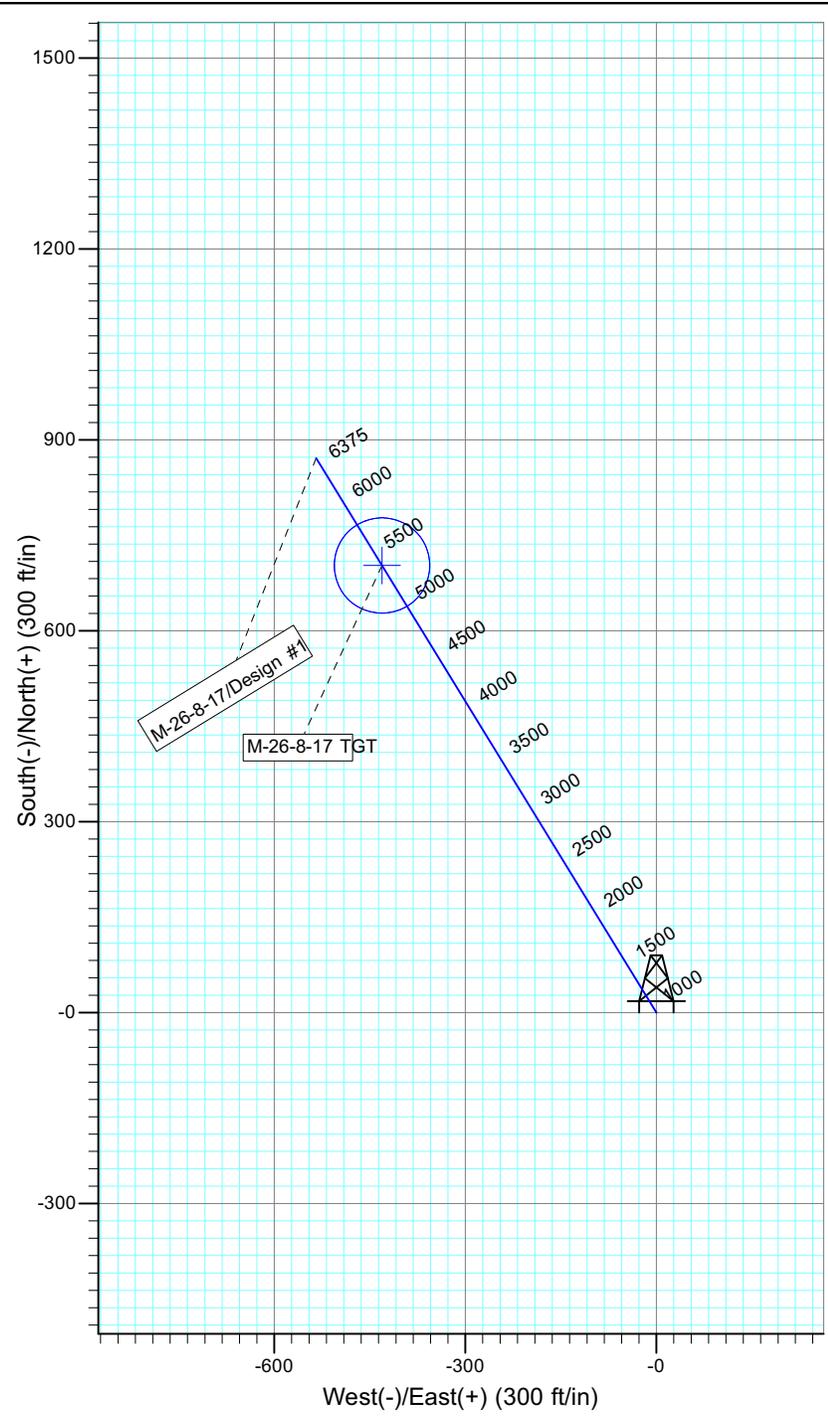
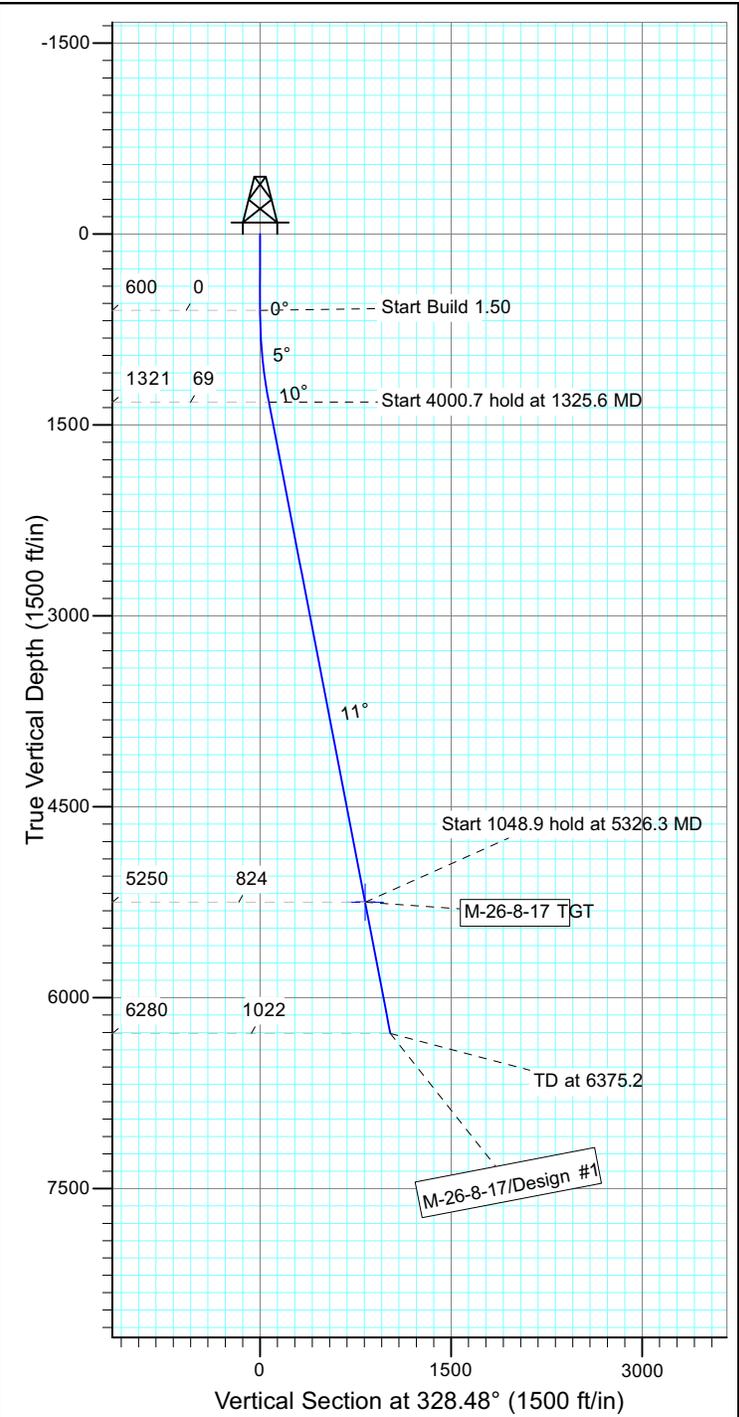


Project: USGS Myton SW (UT)
 Site: SECTION 26 T8, R17
 Well: M-26-8-17
 Wellbore: Wellbore #1
 Design: Design #1



Azimuths to True North
 Magnetic North: 11.03°

Magnetic Field
 Strength: 52110.5snT
 Dip Angle: 65.80°
 Date: 6/14/2013
 Model: IGRF2010



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
M-26-8-17 TGT	5250.0	702.6	-430.9	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	1325.6	10.88	328.48	1321.3	58.6	-35.9	1.50	328.48	68.7	
4	5326.3	10.88	328.48	5250.0	702.6	-430.9	0.00	0.00	824.1	M-26-8-17 TGT
5	6375.2	10.88	328.48	6280.0	871.4	-534.4	0.00	0.00	1022.2	



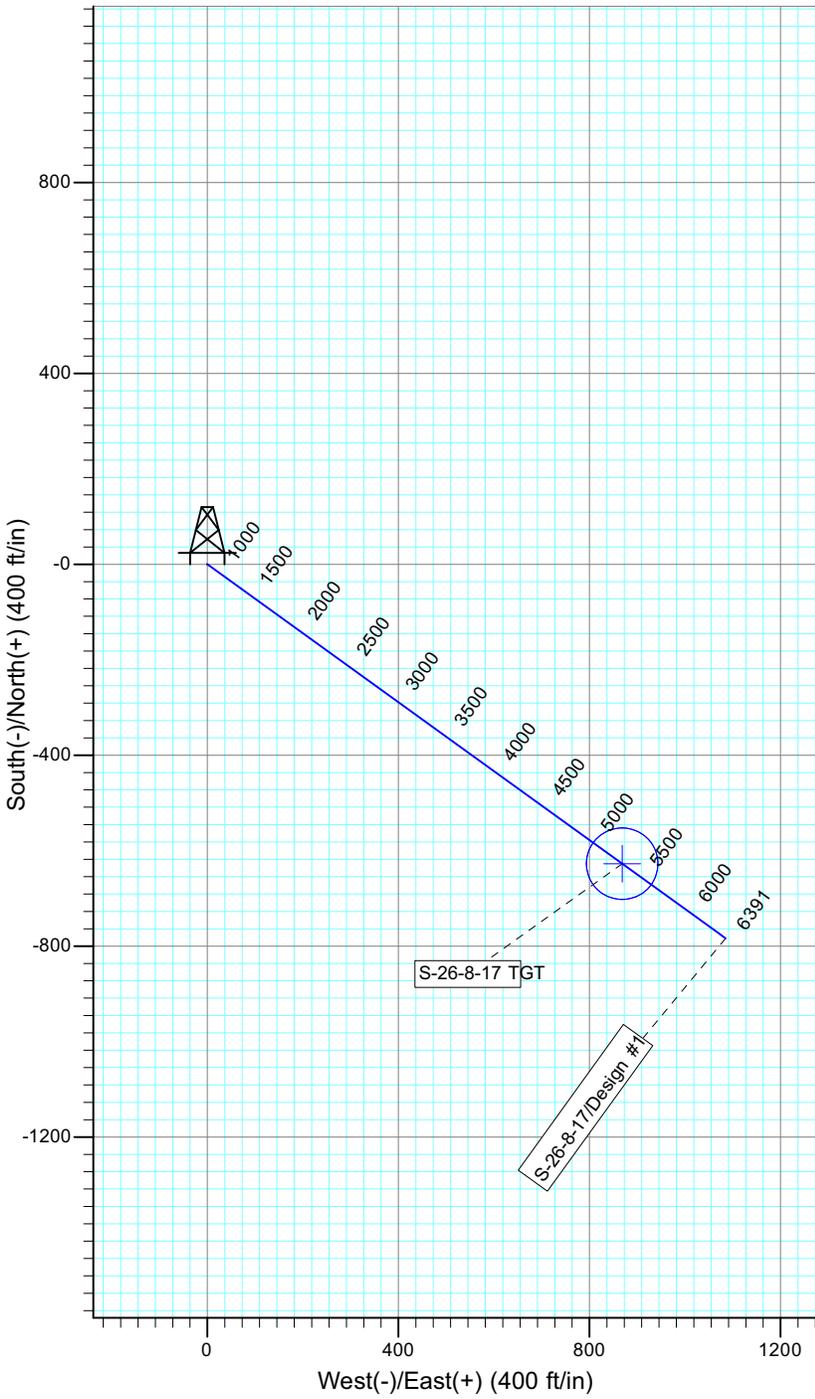
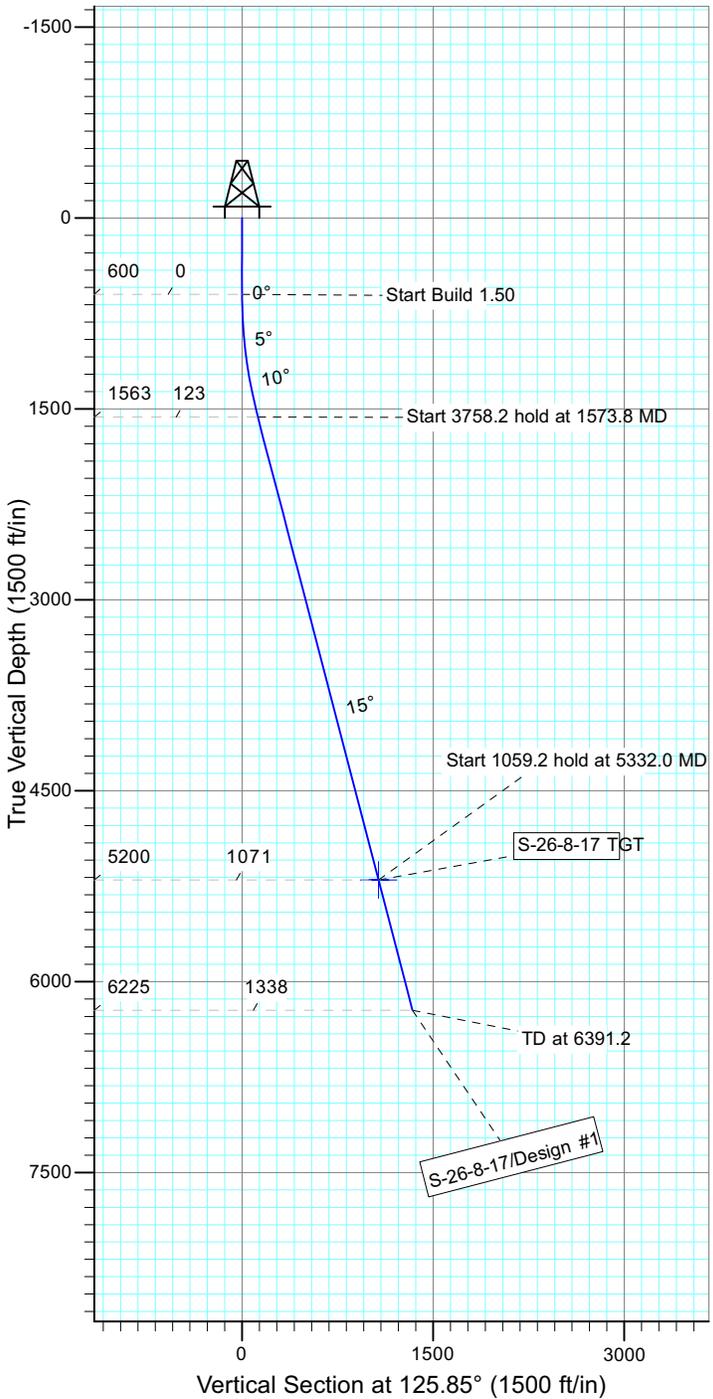


Project: USGS Myton SW (UT)
 Site: SECTION 26 T8, R17
 Well: S-26-8-17
 Wellbore: Wellbore #1
 Design: Design #1



Azimuths to True North
 Magnetic North: 11.03°

Magnetic Field
 Strength: 52112.7snT
 Dip Angle: 65.80°
 Date: 6/12/2013
 Model: IGRF2010



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
S-26-8-17 TGT	5200.0	-627.4	868.2	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	1573.8	14.61	125.85	1563.2	-72.3	100.1	1.50	125.85	123.4	
4	5332.0	14.61	125.85	5200.0	-627.4	868.2	0.00	0.00	1071.2	S-26-8-17 TGT
5	6391.2	14.61	125.85	6225.0	-783.8	1084.8	0.00	0.00	1338.3	



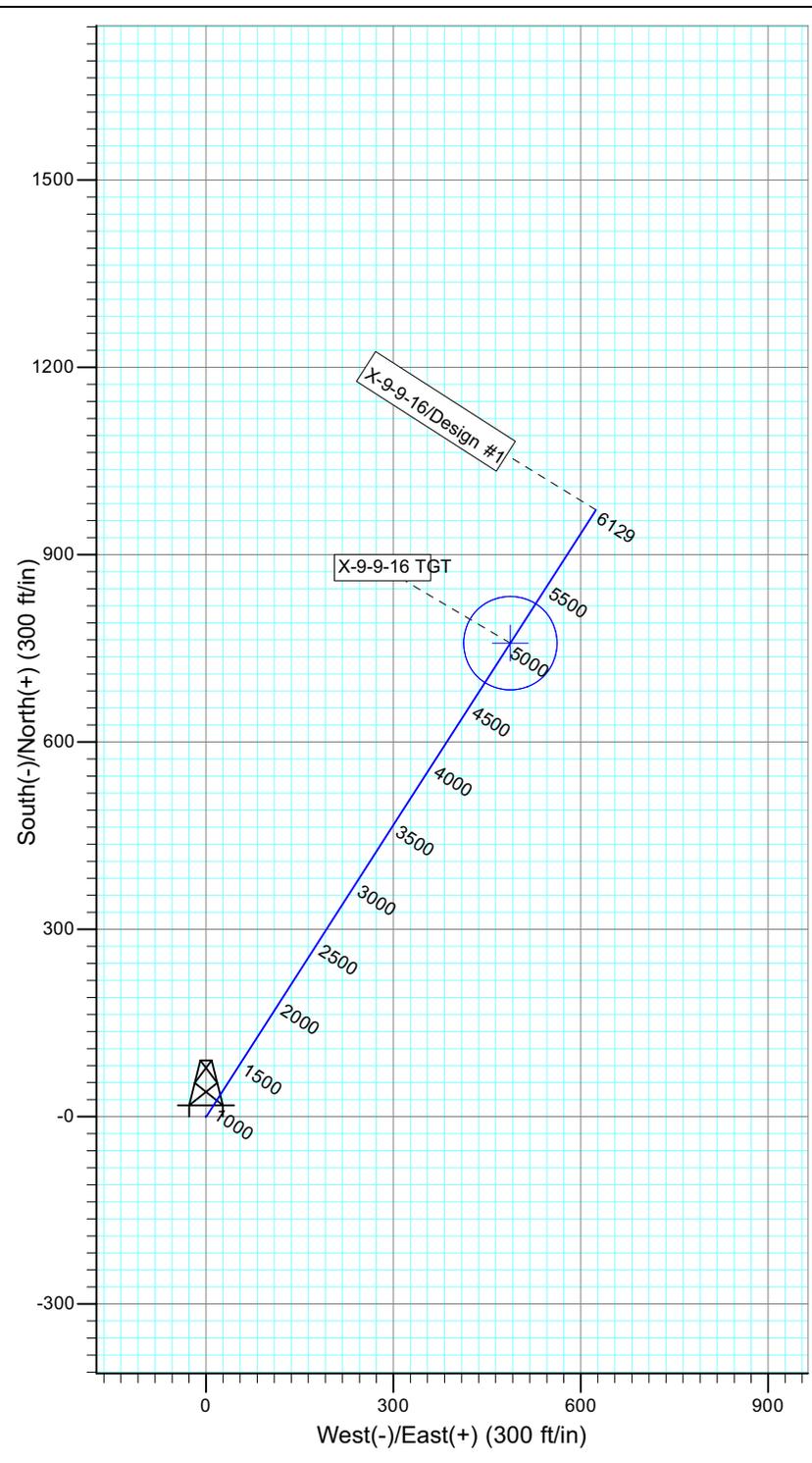
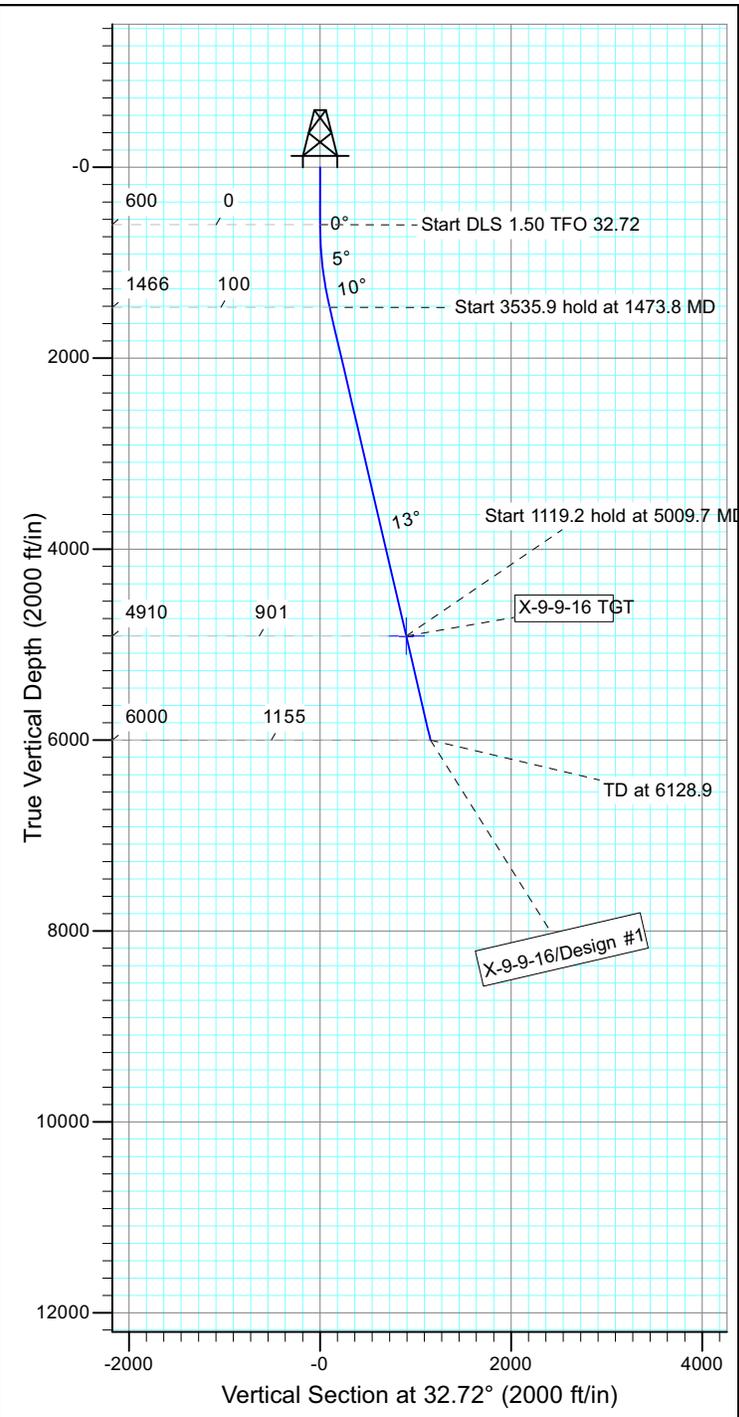


Project: USGS Myton SW (UT)
 Site: SECTION 16 T9S, R16E
 Well: X-9-9-16
 Wellbore: Wellbore #1
 Design: Design #1



Azimuths to True North
 Magnetic North: 11.15°

Magnetic Field
 Strength: 52108.8snT
 Dip Angle: 65.74°
 Date: 11/30/2012
 Model: IGRF2010



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
X-9-9-16 TGT	4910.0	758.4	487.2	Circle (Radius: 75.0)

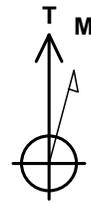
SECTION DETAILS

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	1473.8	13.11	32.72	1466.2	83.7	53.8	1.50	32.72	99.5	
4	5009.7	13.11	32.72	4910.0	758.4	487.2	0.00	0.00	901.4	X-9-9-16 TGT
5	6128.9	13.11	32.72	6000.0	971.9	624.3	0.00	0.00	1155.2	



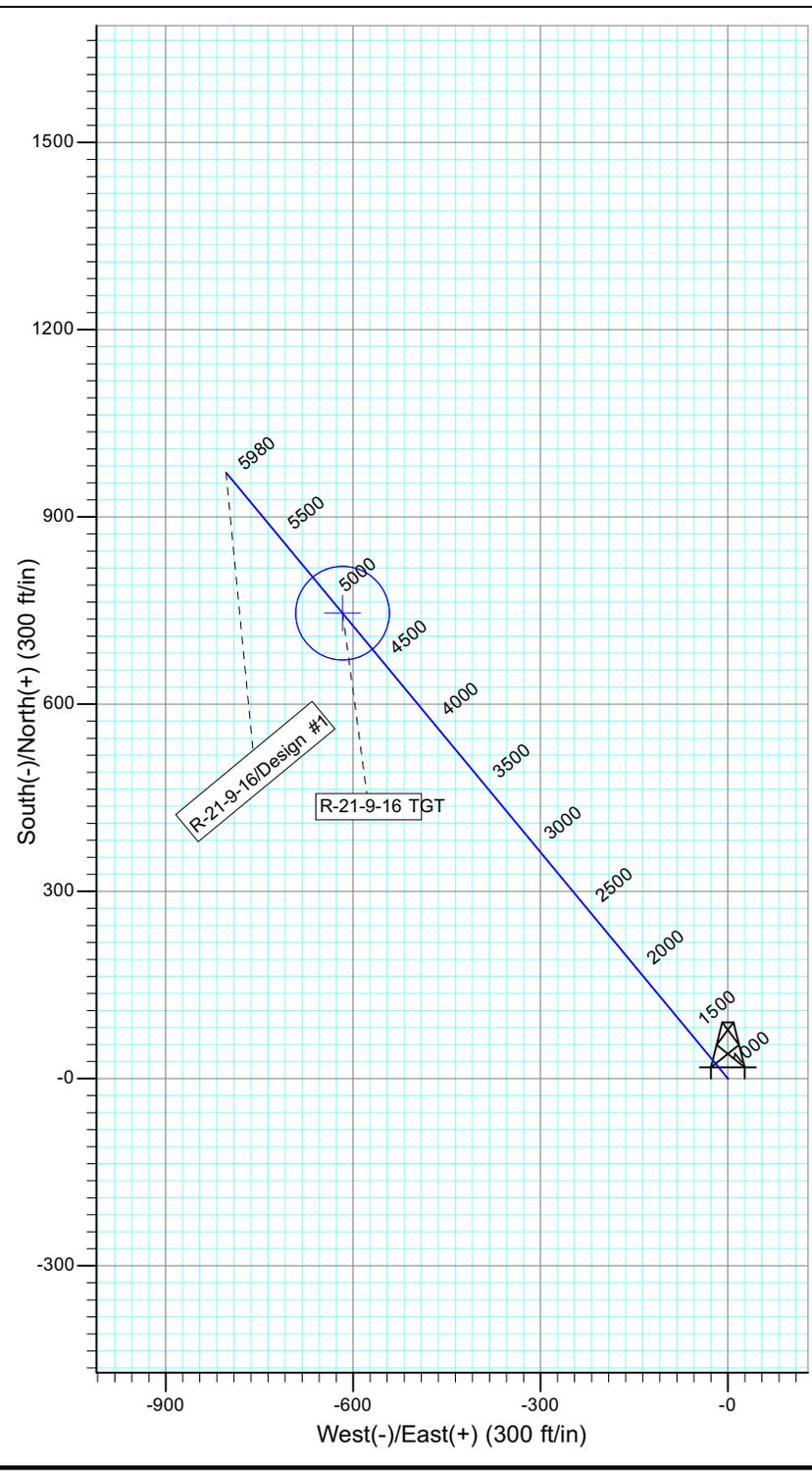
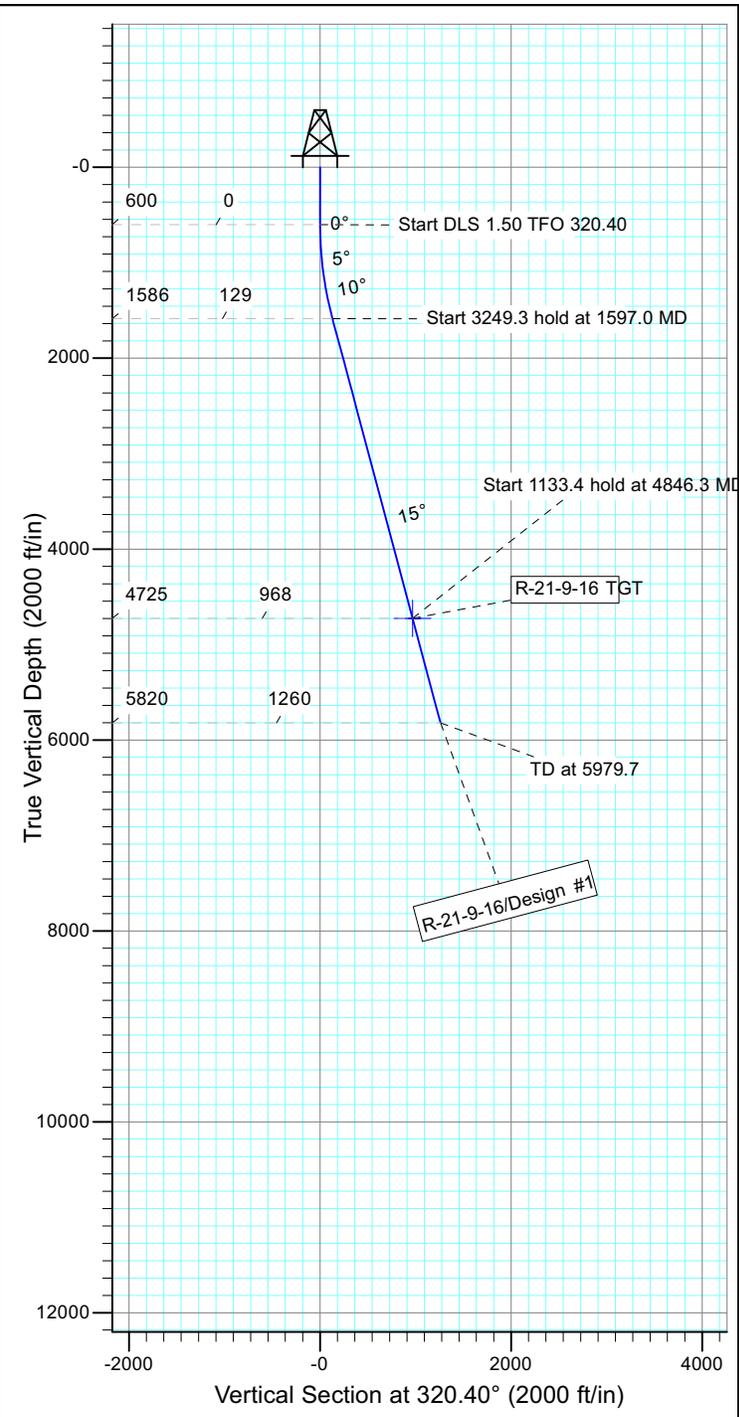


Project: USGS Myton SW (UT)
 Site: SECTION 21 T9S, R16E
 Well: R-21-9-16
 Wellbore: Wellbore #1
 Design: Design #1



Azimuths to True North
 Magnetic North: 11.14°

Magnetic Field
 Strength: 52095.2snT
 Dip Angle: 65.72°
 Date: 11/29/2012
 Model: IGRF2010



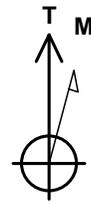
WELLBORE TARGET DETAILS				
Name	TVD	+N/-S	+E/-W	Shape
R-21-9-16 TGT	4725.0	745.8	-617.0	Circle (Radius: 75.0)

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	1597.0	14.96	320.40	1585.7	99.7	-82.5	1.50	320.40	129.4	
4	4846.3	14.96	320.40	4725.0	745.8	-617.0	0.00	0.00	967.9	R-21-9-16 TGT
5	5979.7	14.96	320.40	5820.0	971.2	-803.4	0.00	0.00	1260.4	



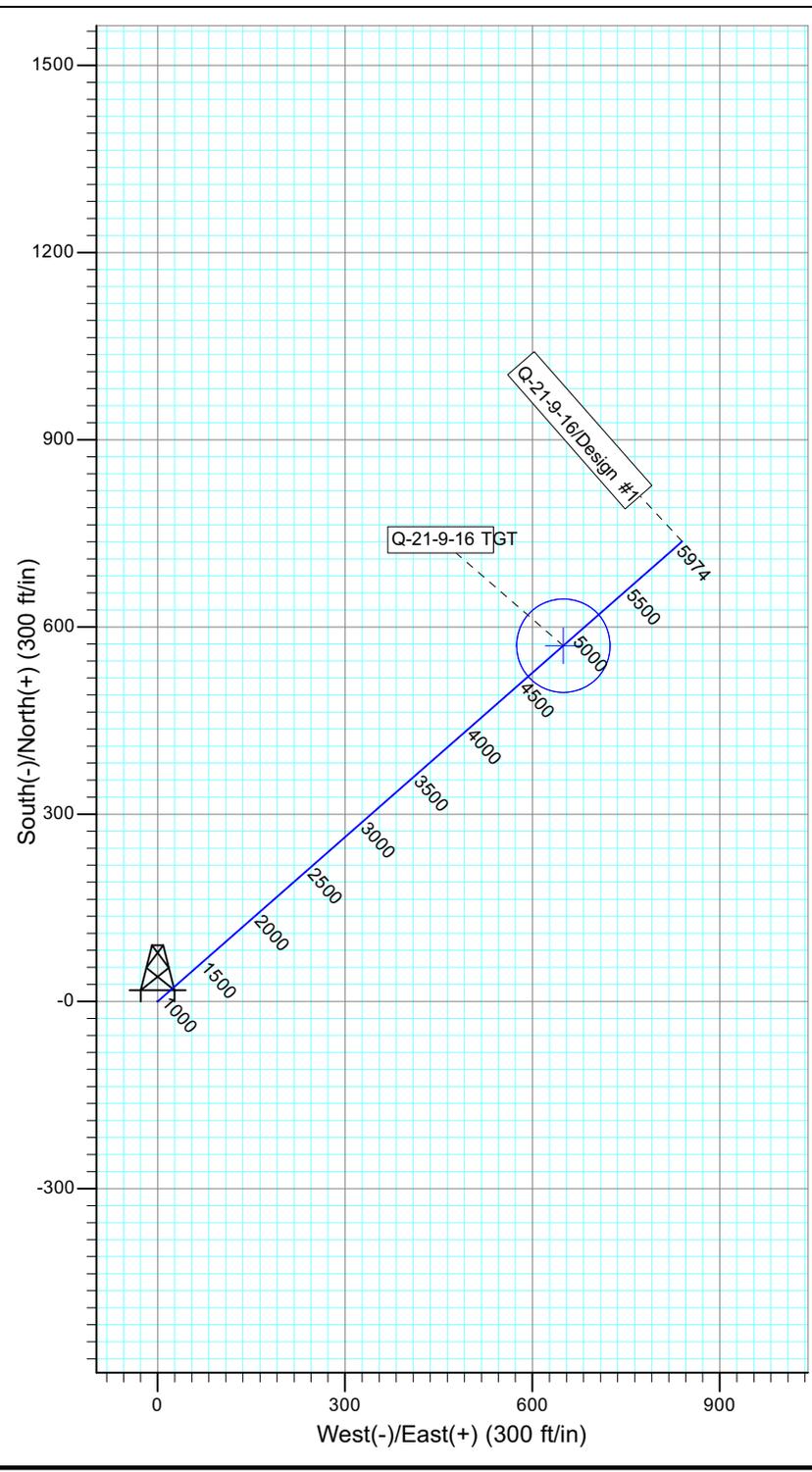
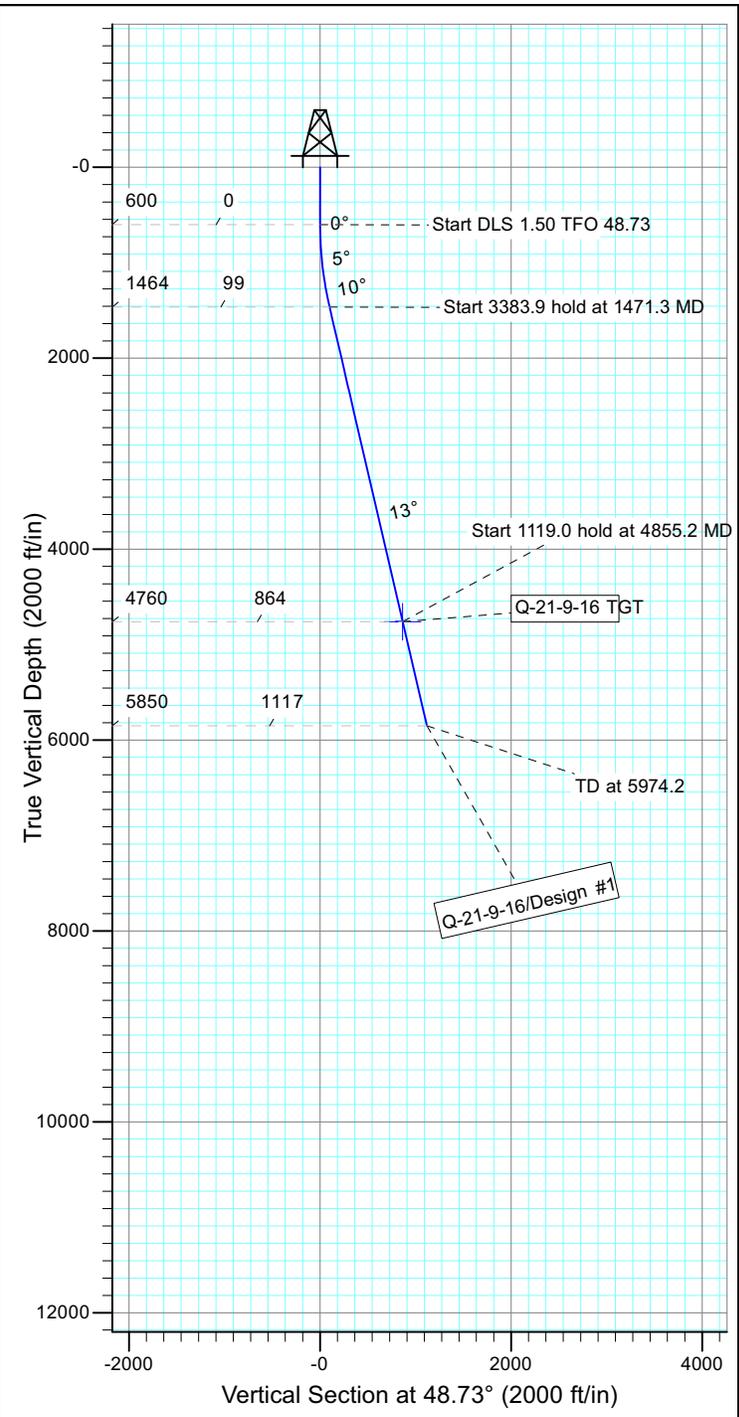


Project: USGS Myton SW (UT)
 Site: SECTION 21 T9S, R16E
 Well: Q-21-9-16
 Wellbore: Wellbore #1
 Design: Design #1



Azimuths to True North
 Magnetic North: 11.15°

Magnetic Field
 Strength: 52093.7snT
 Dip Angle: 65.72°
 Date: 11/29/2012
 Model: IGRF2010



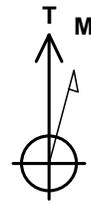
WELLBORE TARGET DETAILS				
Name	TVD	+N/-S	+E/-W	Shape
Q-21-9-16 TGT	4760.0	570.1	649.5	Circle (Radius: 75.0)

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	1471.3	13.07	48.73	1463.8	65.3	74.4	1.50	48.73	98.9	
4	4855.2	13.07	48.73	4760.0	570.1	649.5	0.00	0.00	864.2	Q-21-9-16 TGT
5	5974.2	13.07	48.73	5850.0	737.0	839.7	0.00	0.00	1117.2	



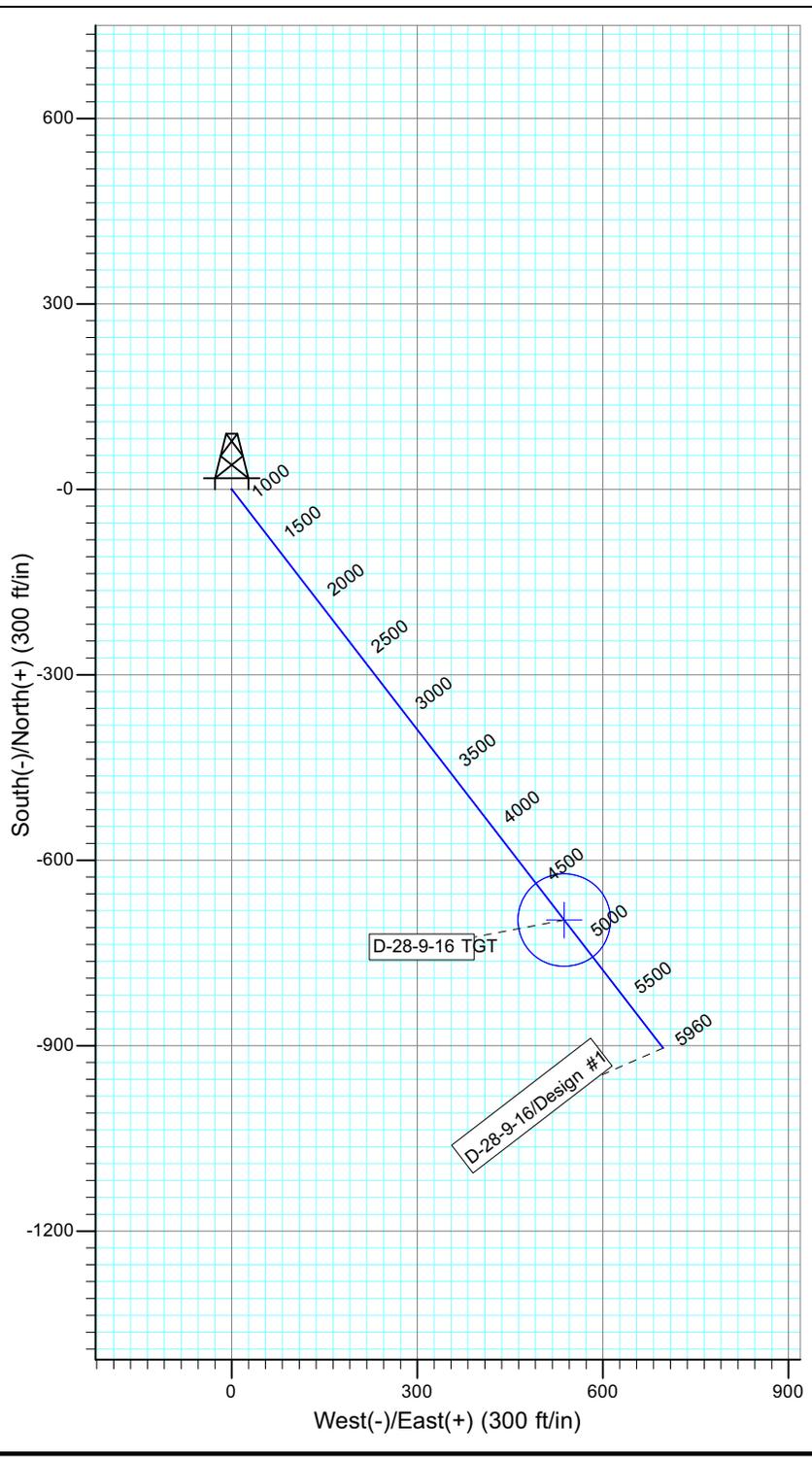
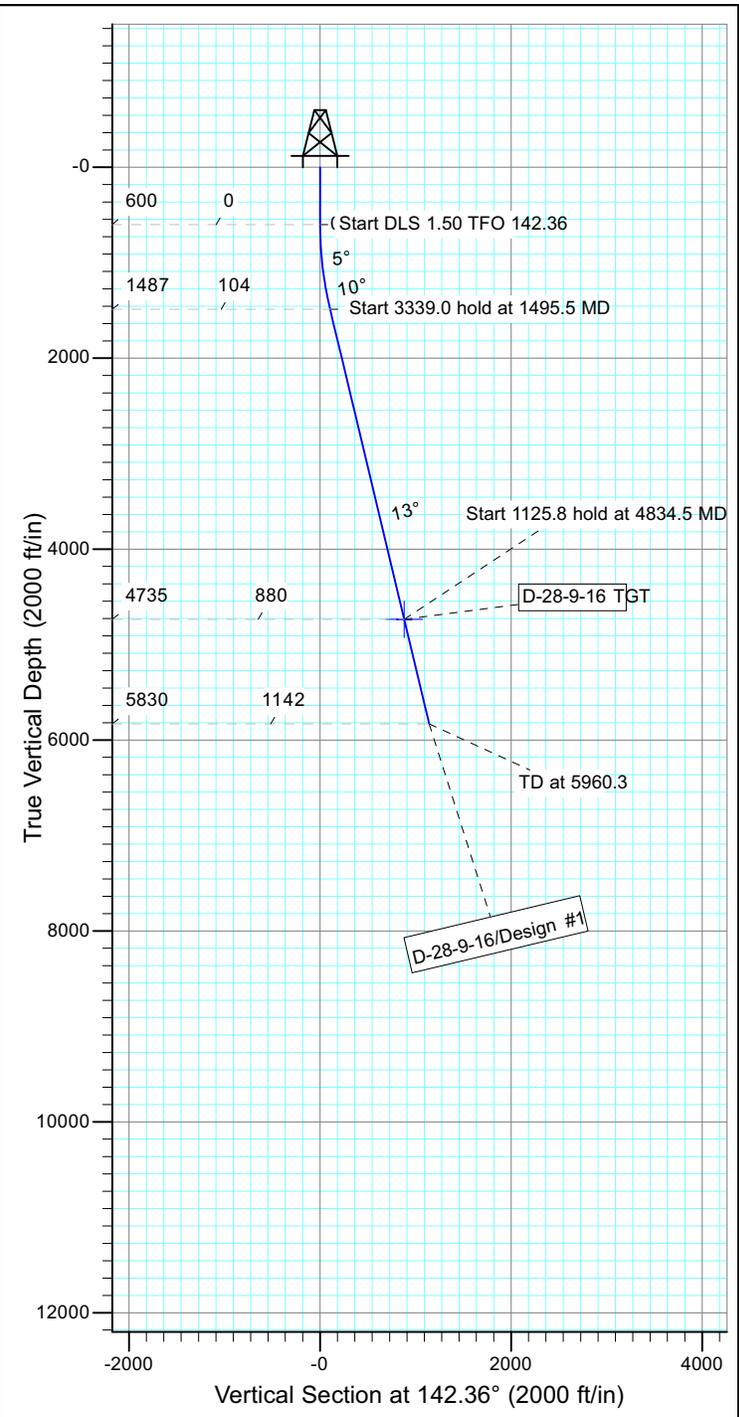


Project: USGS Myton SW (UT)
 Site: SECTION 21 T9S, R16E
 Well: D-28-9-16
 Wellbore: Wellbore #1
 Design: Design #1



Azimuths to True North
 Magnetic North: 11.15°

Magnetic Field
 Strength: 52093.7snT
 Dip Angle: 65.72°
 Date: 11/29/2012
 Model: IGRF2010



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
D-28-9-16 TGT	4735.0	-697.0	537.5	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	1495.5	13.43	142.36	1487.3	-82.7	63.8	1.50	142.36	104.5	
4	4834.5	13.43	142.36	4735.0	-697.0	537.5	0.00	0.00	880.1	D-28-9-16 TGT
5	5960.3	13.43	142.36	5830.0	-904.0	697.2	0.00	0.00	1141.7	



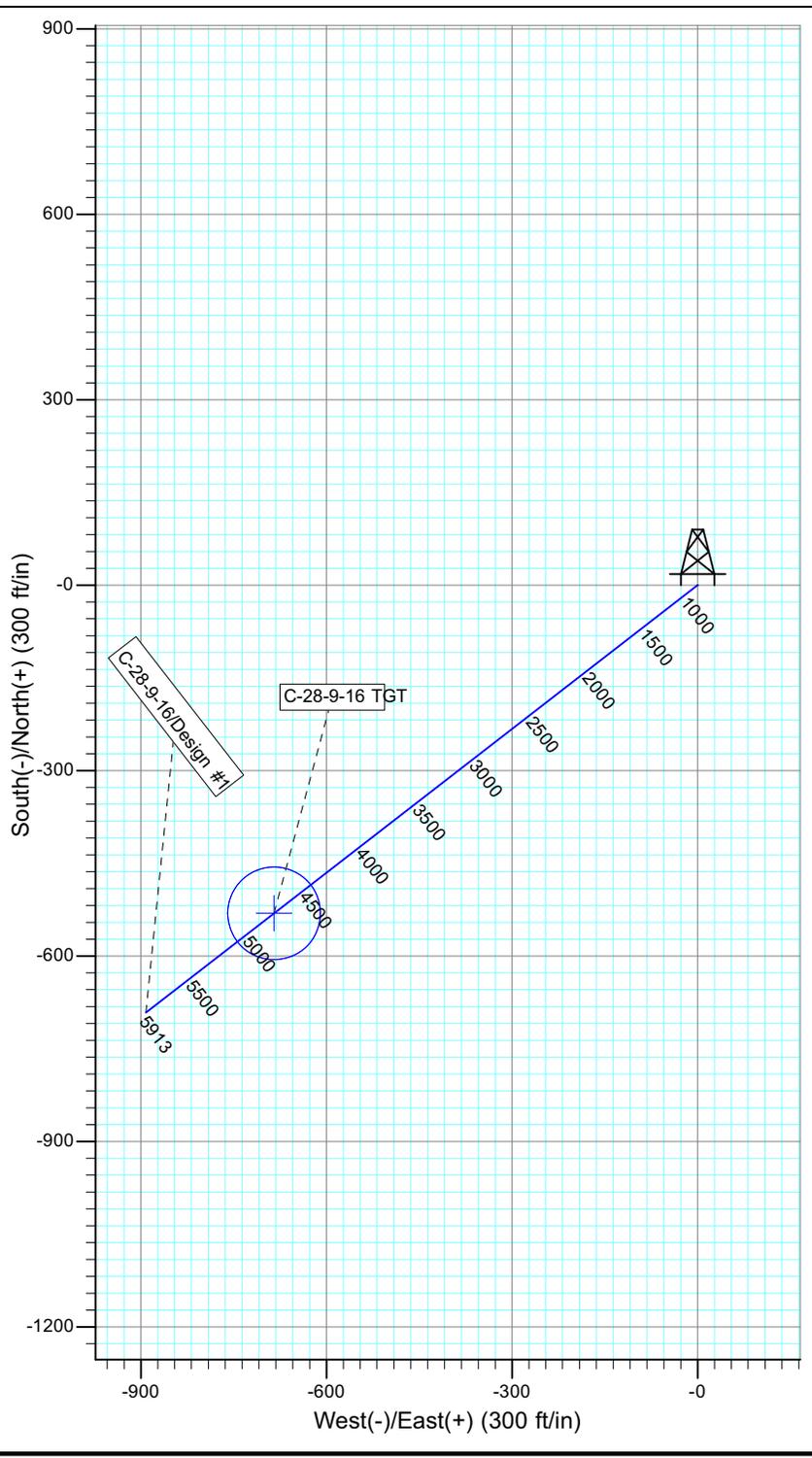
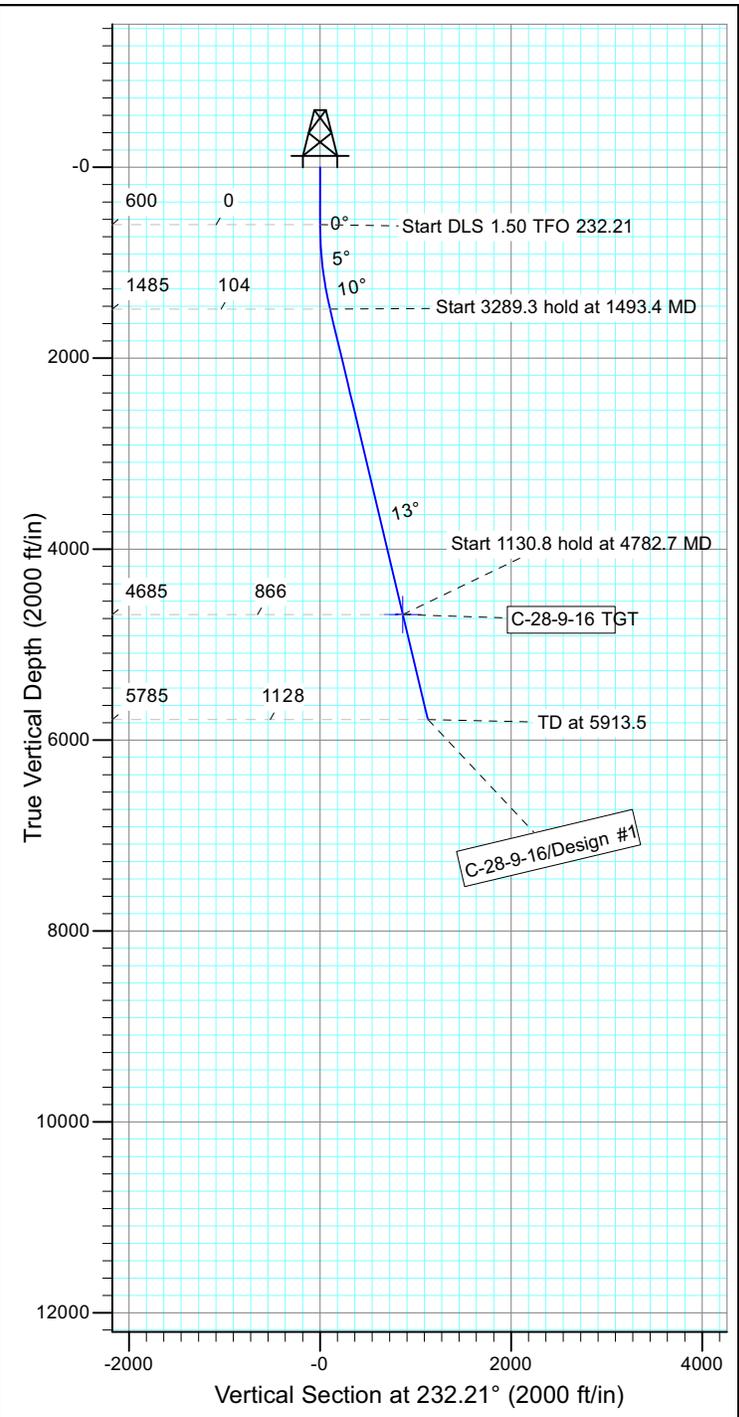


Project: USGS Myton SW (UT)
 Site: SECTION 21 T9S, R16E
 Well: C-28-9-16
 Wellbore: Wellbore #1
 Design: Design #1



Azimuths to True North
 Magnetic North: 11.14°

Magnetic Field
 Strength: 52095.2snT
 Dip Angle: 65.72°
 Date: 11/29/2012
 Model: IGRF2010



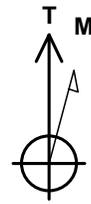
WELLBORE TARGET DETAILS				
Name	TVD	+N/-S	+E/-W	Shape
C-28-9-16 TGT	4685.0	-530.9	-684.7	Circle (Radius: 75.0)

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	1493.4	13.40	232.21	1485.3	-63.7	-82.2	1.50	232.21	104.0	
4	4782.7	13.40	232.21	4685.0	-530.9	-684.7	0.00	0.00	866.4	C-28-9-16 TGT
5	5913.5	13.40	232.21	5785.0	-691.5	-891.8	0.00	0.00	1128.5	



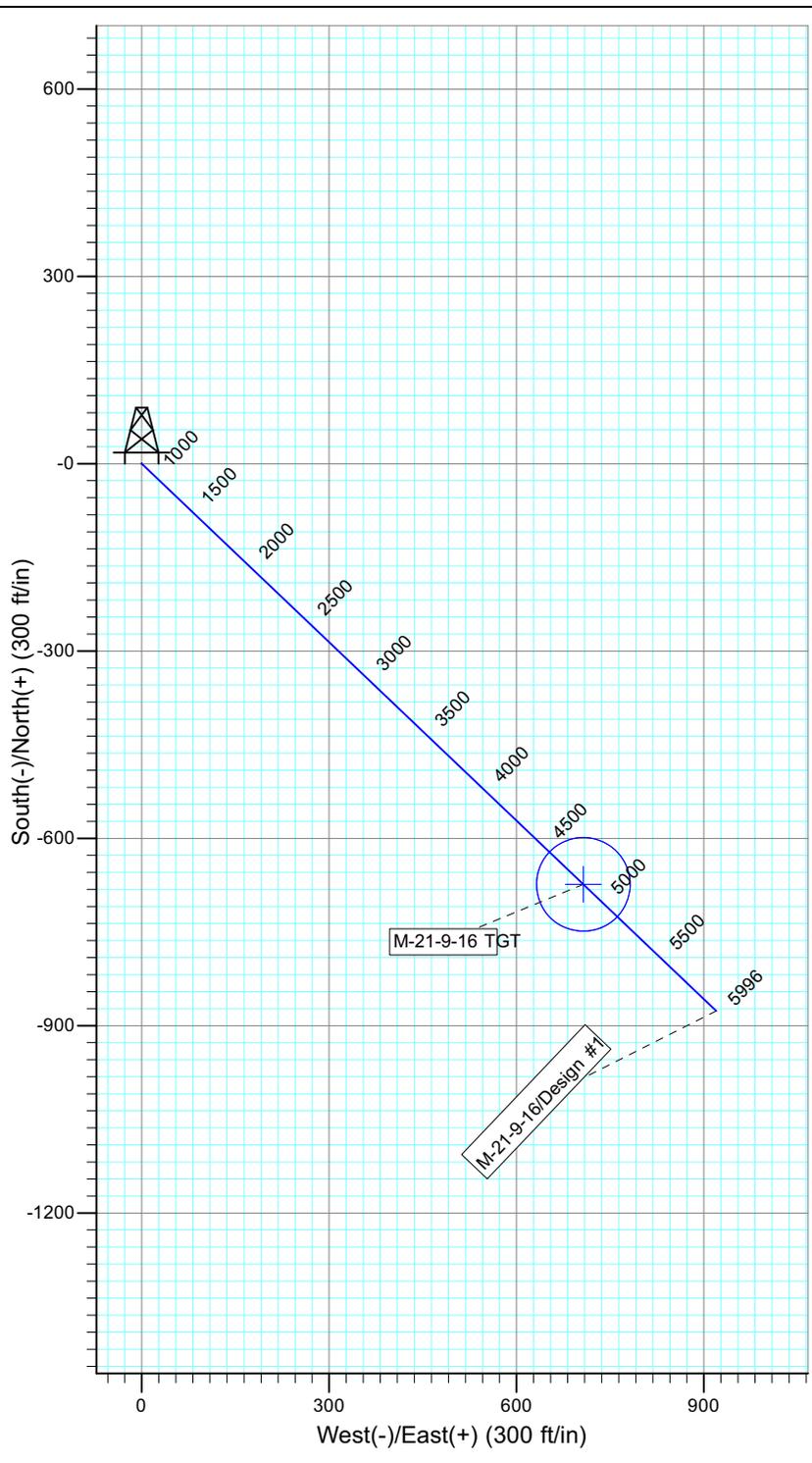
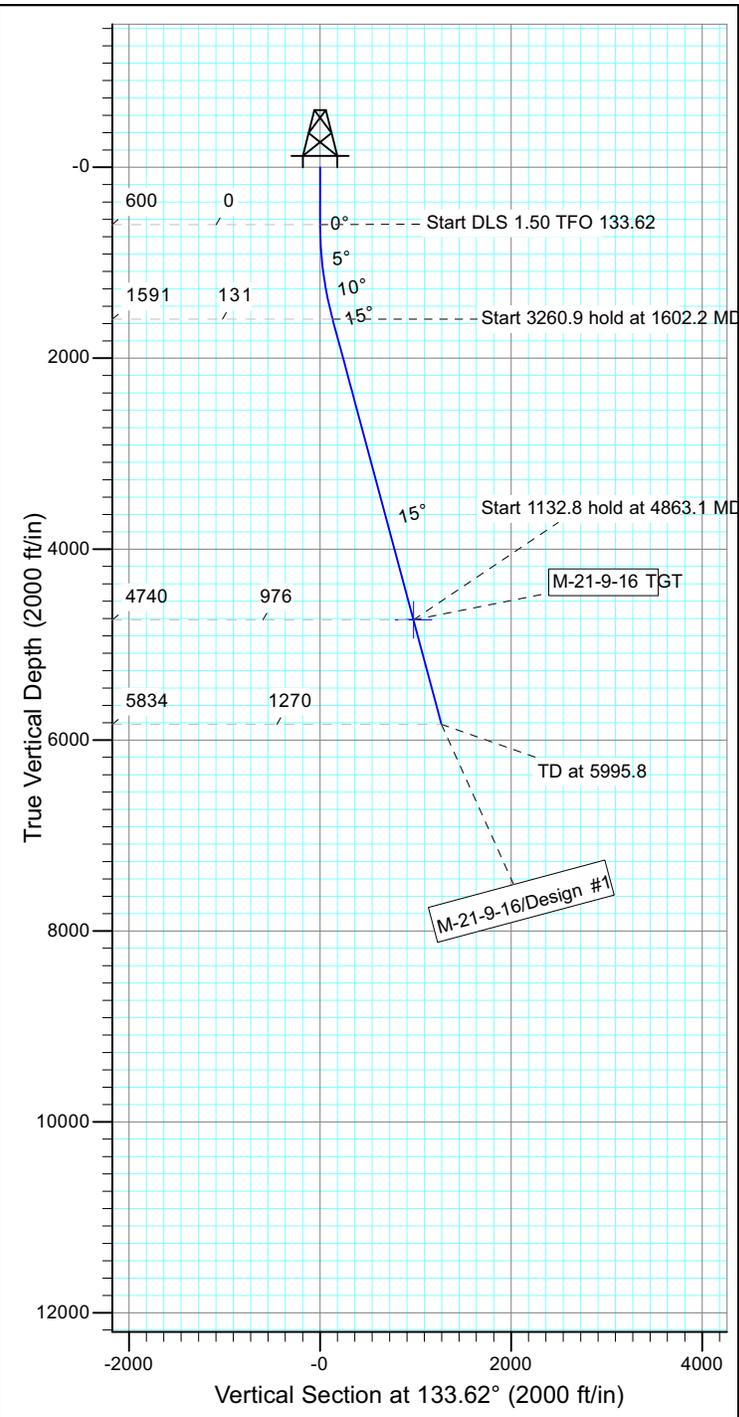


Project: USGS Myton SW (UT)
 Site: SECTION 21 T9S, R16E
 Well: M-21-9-16
 Wellbore: Wellbore #1
 Design: Design #1



Azimuths to True North
 Magnetic North: 11.15°

Magnetic Field
 Strength: 52100.9snT
 Dip Angle: 65.72°
 Date: 11/20/2012
 Model: IGRF2010



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
M-21-9-16 TGT	4740.0	-673.7	706.9	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	1602.2	15.03	133.62	1590.7	-90.2	94.6	1.50	133.62	130.7	
4	4863.1	15.03	133.62	4740.0	-673.7	706.9	0.00	0.00	976.5	M-21-9-16 TGT
5	5995.8	15.03	133.62	5834.0	-876.3	919.6	0.00	0.00	1270.3	



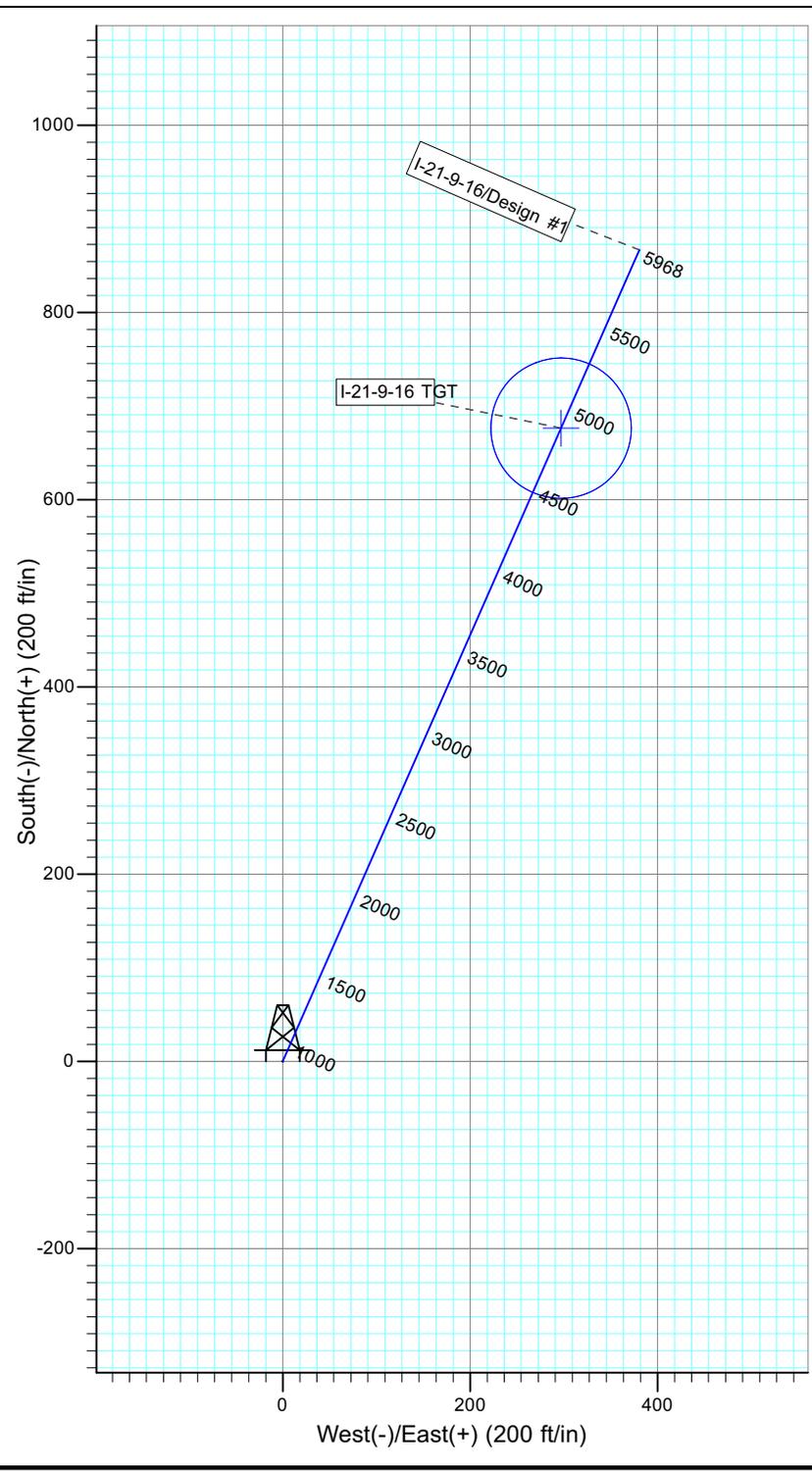
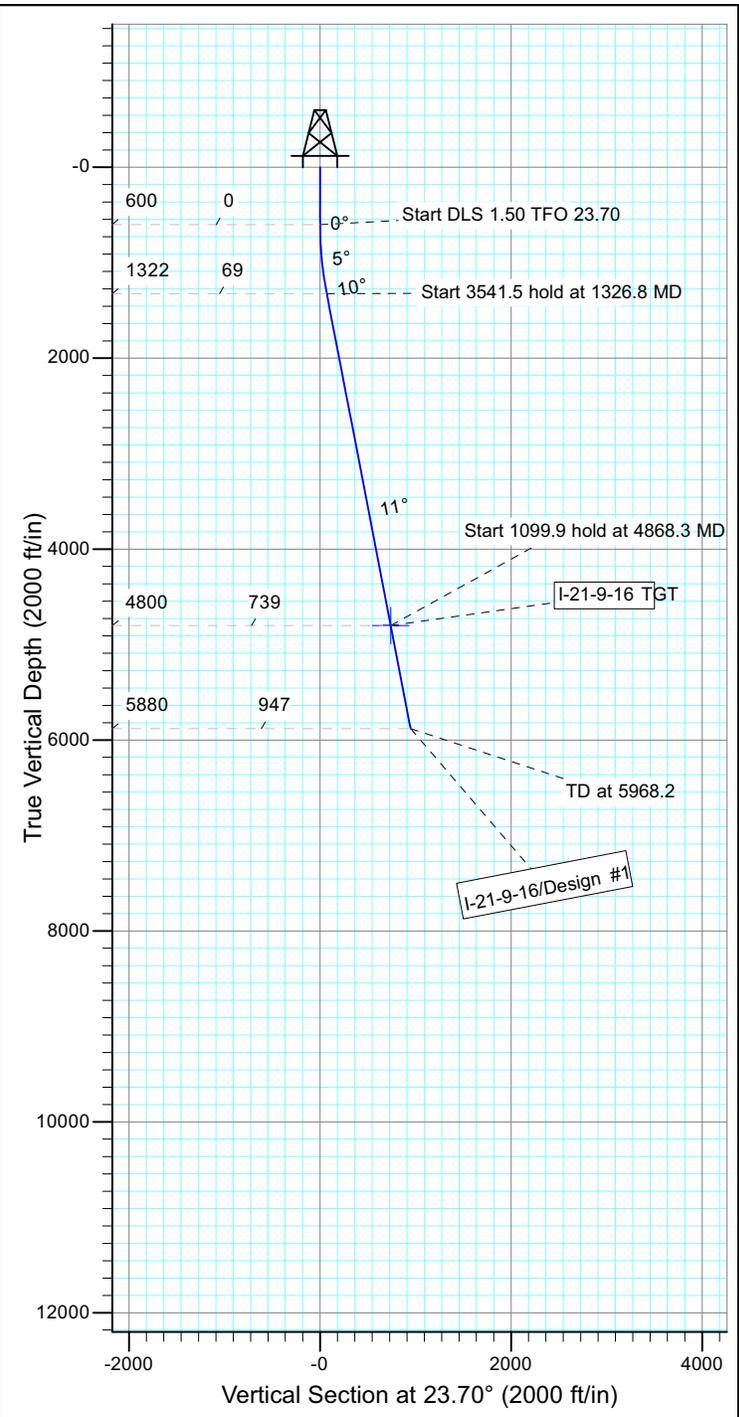


Project: USGS Myton SW (UT)
 Site: SECTION 21 T9S, R16E
 Well: I-21-9-16
 Wellbore: Wellbore #1
 Design: Design #1



Azimuths to True North
 Magnetic North: 11.15°

Magnetic Field
 Strength: 52099.3snT
 Dip Angle: 65.72°
 Date: 11/29/2012
 Model: IGRF2010



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
I-21-9-16 TGT	4800.0	676.5	297.0	Circle (Radius: 75.0)

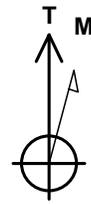
SECTION DETAILS

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	1326.8	10.90	23.70	1322.5	63.1	27.7	1.50	23.70	68.9	
4	4868.3	10.90	23.70	4800.0	676.5	297.0	0.00	0.00	738.8	I-21-9-16 TGT
5	5968.2	10.90	23.70	5880.0	866.9	380.6	0.00	0.00	946.8	



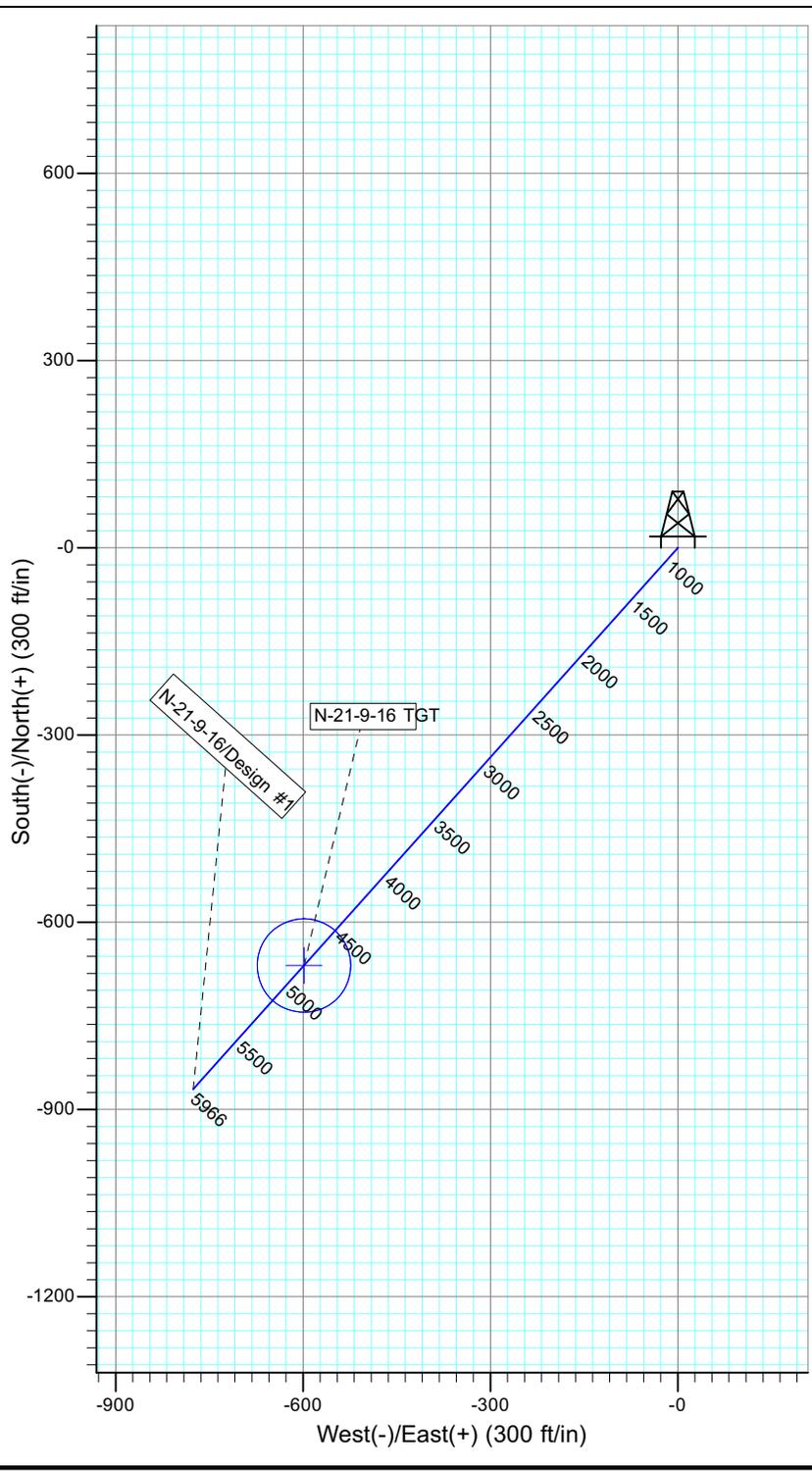
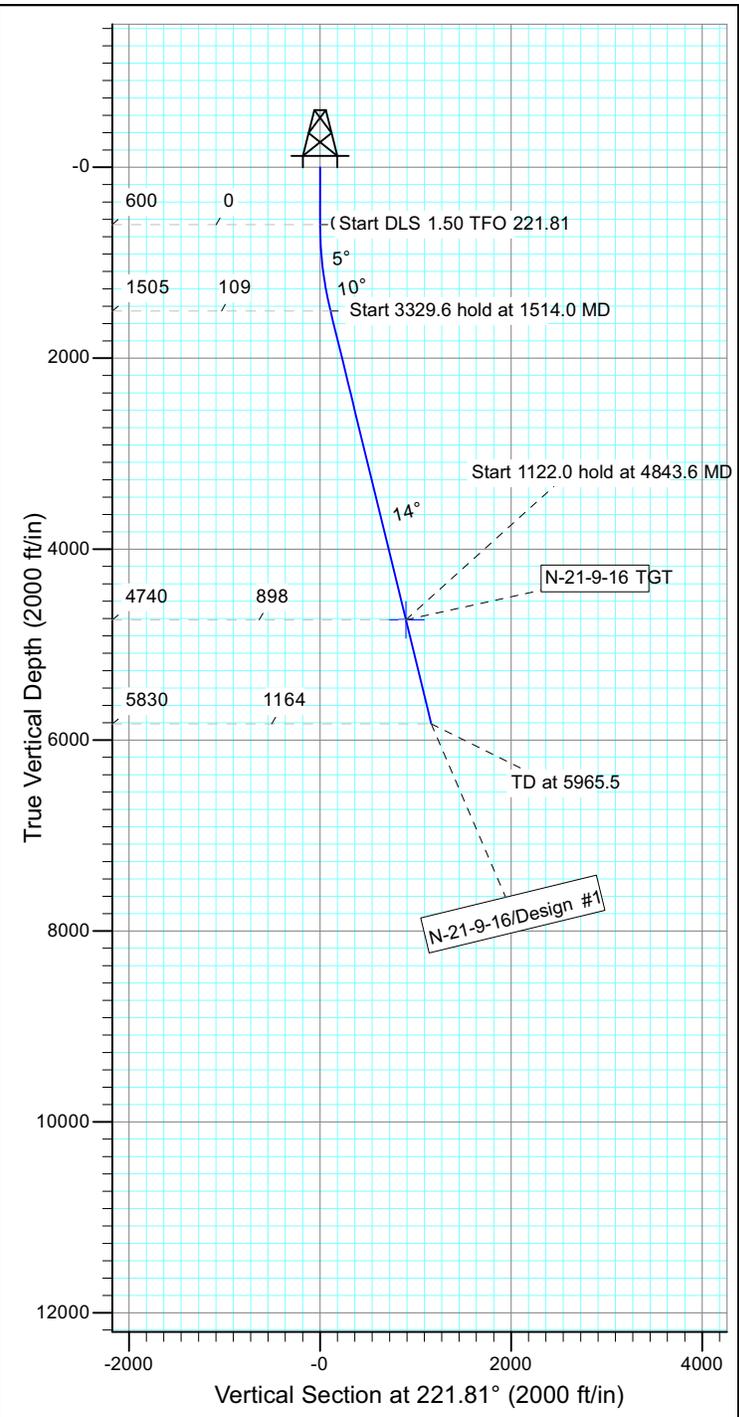


Project: USGS Myton SW (UT)
 Site: SECTION 21 T9S, R16E
 Well: N-21-9-16
 Wellbore: Wellbore #1
 Design: Design #1



Azimuths to True North
 Magnetic North: 11.15°

Magnetic Field
 Strength: 52100.9snT
 Dip Angle: 65.72°
 Date: 11/20/2012
 Model: IGRF2010



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
N-21-9-16 TGT	4740.0	-669.3	-598.6	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1514.0	13.71	221.81	1505.3	-81.1	-72.6	1.50	221.81	108.8	
4	4843.6	13.71	221.81	4740.0	-669.3	-598.6	0.00	0.00	897.9	N-21-9-16 TGT
5	5965.5	13.71	221.81	5830.0	-867.5	-775.9	0.00	0.00	1163.9	



NEWFIELD



VIA ELECTRONIC DELIVERY

Newfield Exploration Company

1001 17th Street | Suite 2000
Denver, Colorado 80202
PH 303-893-0102 | FAX 303-893-0103

August 6, 2013

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 I-21-9-16
Greater Monument Butte (Green River) Unit

Surface Hole: T9S-R16E Section 21: SWNE (UTU-64379)
2144' FNL 1963' FEL

At Target: T9S-R16E Section 21: NWNE (UTU-64379)
1283' FNL 1568' FEL

Duchesne County, Utah

Dear Ms. Mason:

Pursuant to the filing by Newfield Production Company (NPC) of an Application for Permit to Drill the above referenced well dated 8/1/2013, 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. UTU64379
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 EXPLORATION		7. If Unit or CA Agreement, Name and No. GMBU
Contact: HEATHER CALDER E-Mail: hcalder@newfield.com		8. Lease Name and Well No. GMBU I-21-9-16
3a. Address ROUTE 3 BOX 3630 MYTON, UT 84052	3b. Phone No. (include area code) Ph: 435-646-4936 Fx: 435-646-4936	9. API Well No.
4. Location of Well (Report location clearly and in accordance with any State requirements.*) At surface SWNE 2144FNL 1963FEL At proposed prod. zone NWNE 1283FNL 1568FEL		10. Field and Pool, or Exploratory MONUMENT BUTTE
14. Distance in miles and direction from nearest town or post office* 21.5 MILES SOUTH OF MYTON, UT		11. Sec., T., R., M., or Blk. and Survey or Area Sec 21 T9S R16E Mer SLB
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1283'	16. No. of Acres in Lease 1626.40	12. County or Parish DUCHESNE
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 987'	19. Proposed Depth 5968 MD 5880 TVD	13. State UT
21. Elevations (Show whether DF, KB, RT, GL, etc.) 6010 GL	22. Approximate date work will start 09/01/2013	17. Spacing Unit dedicated to this well 20.00
		20. BLM/BIA Bond No. on file WYB000493
		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) HEATHER CALDER Ph: 435-646-4936	Date 08/01/2013
Title PRODUCTION TECHNICIAN		
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 #215605 verified by the BLM Well Information System
For NEWFIELD EXPLORATION, sent to the Vernal**

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

API Well Number: 43013523410000

Additional Operator Remarks:

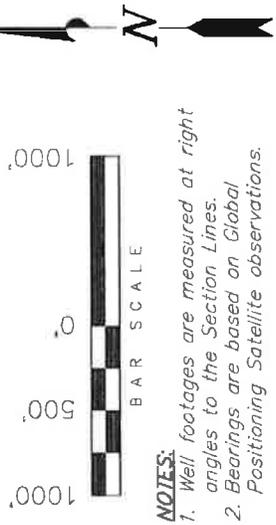
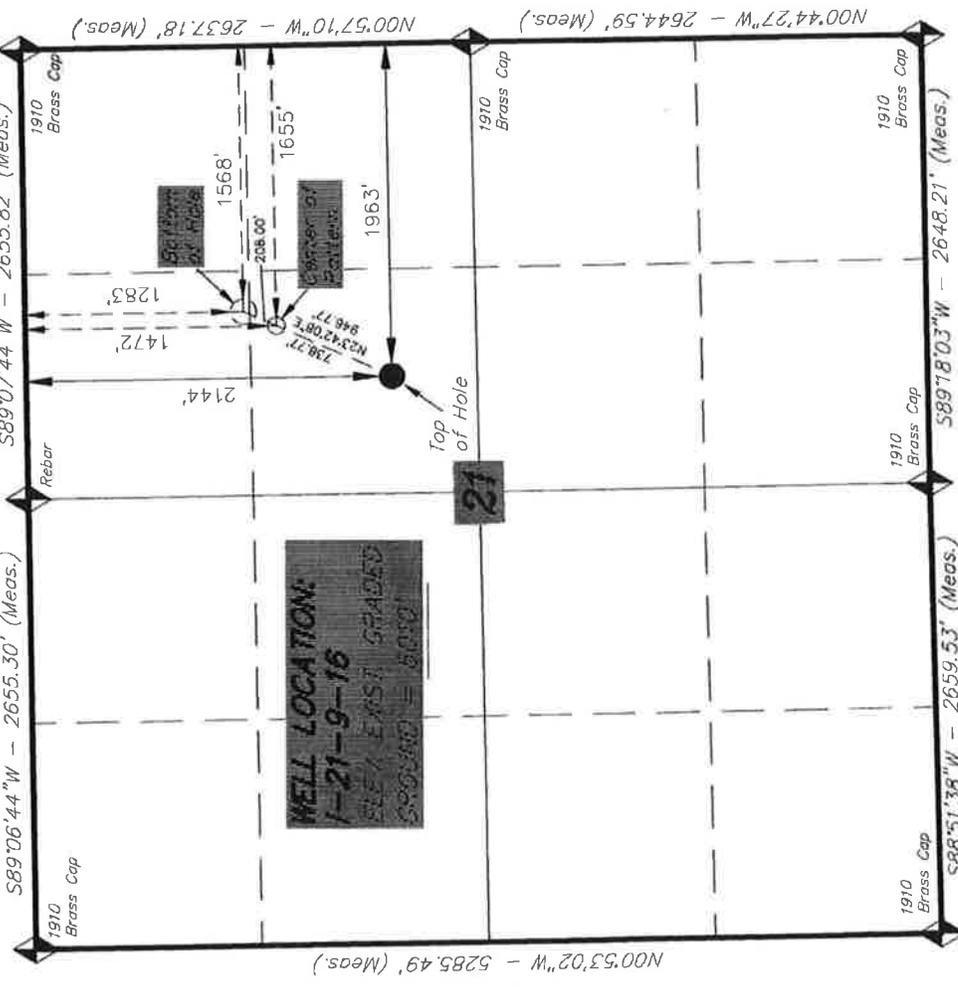
SURFACE HOLE LEASE:UTU64379
BOTTOM HOLE LEASE:UTU64379

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

NEWFIELD EXPLORATION COMPANY

WELL LOCATION, I-21-9-16, LOCATED AS SHOWN IN THE SW 1/4 NE 1/4 OF SECTION 21, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.

TARGET BOTTOM HOLE, I-21-9-16, LOCATED AS SHOWN IN THE NW 1/4 NE 1/4 OF SECTION 21, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



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

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

STACY W. STACY W. REGISTERED LAND SURVEYOR REGISTRATION NO. 189377 01-02-13 STATE OF UTAH

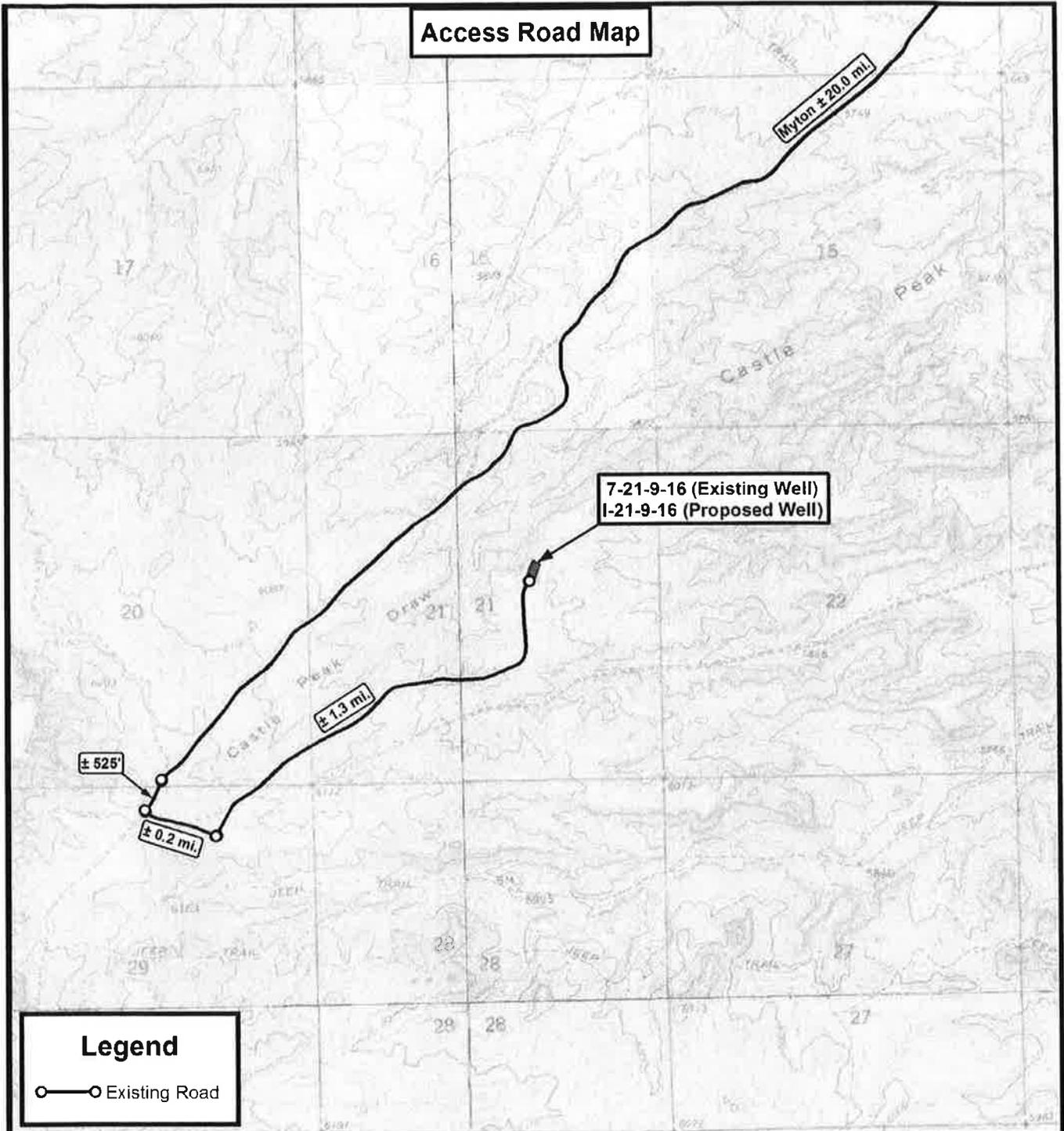
TRI STATE LAND SURVEYING & CONSULTING
 180 NORTH VERNAL AVE. - VERNAL, UTAH 84078
 (435) 781-2501

NAD 83 (CENTER OF PATTERN)	NAD 83 (SURFACE LOCATION)
LATITUDE = 40°01'10.48"	LATITUDE = 40°01'03.84"
LONGITUDE = 110°07'14.55"	LONGITUDE = 110°07'18.50"
NAD 27 (CENTER OF PATTERN)	NAD 27 (SURFACE LOCATION)
LATITUDE = 40°01'10.61"	LATITUDE = 40°01'03.97"
LONGITUDE = 110°07'12.00"	LONGITUDE = 110°07'15.95"
NAD 83 (BOTTOM HOLE LOCATION)	NAD 83 (BOTTOM HOLE LOCATION)
LATITUDE = 40°01'12.34"	LATITUDE = 40°01'12.34"
LONGITUDE = 110°07'13.45"	LONGITUDE = 110°07'13.45"

◆ = 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'

DATE SURVEYED: 11-30-12	SURVEYED BY: S.H.	VERSION:
DATE DRAWN: 01-02-13	DRAWN BY: V.H.	V1
REVISED:	SCALE: 1" = 1000'	



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.

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



NEWFIELD EXPLORATION COMPANY
 7-21-9-16 (Existing Well)
 I-21-9-16 (Proposed Well)
 SEC. 21, T9S, R16E, S.L.B.&M.
 Duchesne County, UT.

DRAWN BY:	D.C.R.	REVISED:	VERSION:
DATE:	01-08-2013		V1
SCALE:	1" = 2,000'		

TOPOGRAPHIC MAP SHEET **B**

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 7/31/2013

API NO. ASSIGNED: 43013523410000

WELL NAME: GMBU I-21-9-16

OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695)

PHONE NUMBER: 435 646-4936

CONTACT: Heather Calder

PROPOSED LOCATION: SWNE 21 090S 160E

Permit Tech Review:

SURFACE: 2144 FNL 1963 FEL

Engineering Review:

BOTTOM: 1283 FNL 1568 FEL

Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.01766

LONGITUDE: -110.12189

UTM SURF EASTINGS: 574936.00

NORTHINGS: 4430087.00

FIELD NAME: MONUMENT BUTTE

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-64379

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 I-21-9-16
API Well Number: 43013523410000
Lease Number: UTU-64379
Surface Owner: FEDERAL
Approval Date: 8/7/2013

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

AUG 06 2013

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

Form 3160-3
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

BLM Vernal UT

5. Lease Serial No.
UTU64379

APPLICATION FOR PERMIT TO DRILL OR REENTER

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No.
GMBU

8. Lease Name and Well No.
GMBU I-21-9-16

9. API Well No.
4301352341

10. Field and Pool, or Exploratory
MONUMENT BUTTE

11. Sec., T., R., M., or Blk. and Survey or Area
Sec 21 T9S R16E Mer SLB

12. County or Parish
DUCHESNE

13. State
UT

17. Spacing Unit dedicated to this well
20.00

20. BLM/BIA Bond No. on file
WYB000493

23. Estimated duration
7 DAYS

1a. Type of Work: DRILL REENTER

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

2. Name of Operator
NEWFIELD EXPLORATION
Contact: HEATHER CALDER
E-Mail: hcalder@newfield.com

3a. Address
ROUTE 3 BOX 3630
MYTON, UT 84052

3b. Phone No. (include area code)
Ph: 435-646-4936
Fx: 435-646-4936

4. Location of Well (Report location clearly and in accordance with any State requirements.)*
At surface SWNE 2144FNL 1963FEL
At proposed prod. zone NWNE 1283FNL 1568FEL

14. Distance in miles and direction from nearest town or post office*
21.5 MILES SOUTH OF MYTON, UT

15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)
1283'

16. No. of Acres in Lease
1626.40

18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.
987'

19. Proposed Depth
5968 MD
5880 TVD

21. Elevations (Show whether DF, KB, RT, GL, etc.)
6010 GL

22. Approximate date work will start
09/01/2013

24. Attachments

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

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

25. Signature
(Electronic Submission)

Name (Printed/Typed)
HEATHER CALDER Ph: 435-646-4936

Date
08/01/2013

Title
PRODUCTION TECHNICIAN

Approved by (Signature)

Name (Printed/Typed)
Jerry Kenczka

Date
DEC 23 2013

Title
Assistant Field Manager

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 #215605 verified by the BLM Well Information System
For NEWFIELD EXPLORATION, sent to the Vernal
Committed to AFMSS for processing by LESLIE BUHLER on 08/09/2013 ()

NOTICE OF APPROVAL

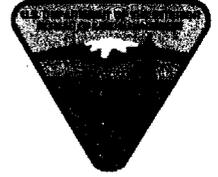
UDOGM

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



**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:	SWNE, Sec. 21, T9S, R16E
Well No:	GMBU I-21-9-16	Lease No:	UTU-64379
API No:	43-013-52341	Agreement:	

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.

STANDARD STIPULATIONS

Green River District Reclamation Guidelines

The Operator will comply with the requirements of the ***Green River District (GRD) Reclamation Guidelines*** formalized by Green River District Instructional Memo UTG000-2011-003 on March 28, 2011. Documentation of the compliance will be as follows:

- 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 GRD 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 GRD 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.

CONDITIONS OF APPROVAL

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:

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

- All internal combustion equipment will be kept in good working order.
- 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.
- Open burning of garbage or refuse will not occur at well sites or other facilities.
- Drill rigs will be equipped with Tier II or better diesel engines.
- Low bleed pneumatics will be installed on separator dump valves and other controllers.
- During completion, no venting will occur, and flaring will be limited as much as possible. Production equipment and gathering lines will be installed as soon as possible.
- Telemetry will be installed to remotely monitor and control production.
- 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.

- Green completions will be used for all well completion activities where technically feasible.
- Employ enhanced VOC emission controls with 95% control efficiency on production equipment having a potential to emit greater than 5 tons per year.

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

SITE SPECIFIC DOWNHOLE COAs:

Well specific down-hole COA's:

- If applicable, Variances to OO2, Section III.E shall be granted as requested regarding the air drilling program for the surface hole.
- Newfield Production Co. shall comply with all applicable requirements in the SOP (version: "Greater Monument Butte Green River Development Program", June 24, 2008).
- Cement for the production casing shall be brought 200 feet above the surface casing shoe.

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 by CD (compact disc). 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.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: October 31, 2014

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
UTU64379

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 PRODUCTION COMPANY

7. Unit or CA Agreement Name and No.
UTU87538X

3. Address ROUTE #3 BOX 3630
MYTON, UT 84052

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

8. Lease Name and Well No.
GMBU I-21-9-16

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

 At surface 2144' FNL 1963' FEL (SW/NE) SEC 21 T9S R16E (UTU-64379)

 At top prod. interval reported below 1501' FNL 1677' FEL (SW/NE) SEC 21 T9S R16E (UTU-64379)

 At total depth 1203' FNL 1584' FEL (NW/NE) SEC 21 T9S R16E (UTU-64379)

9. API Well No.
43-013-52341

10. Field and Pool or Exploratory
MONUMENT BUTTE

11. Sec., T., R., M., on Block and
Survey or Area SEC 21 T9S R16E Mer SLB

12. County or Parish DUCHESNE
13. State UT

14. Date Spudded
03/10/2014

15. Date T.D. Reached
03/25/2014

16. Date Completed 04/11/2014
 D & A Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
6010' GL 6020' KB

18. Total Depth: MD 6188'
TVD 6039'

19. Plug Back T.D.: MD 6098'
TVD

20. Depth Bridge Plug Set: MD
TVD

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

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

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cement Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24	0'	320'		193 CLASS G			
7-7/8"	5-1/2" J-55	15.50	0'	6145'		270 Econocem 470Expandacem		50'	

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@5998'	TA@5840'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Green River	4728'	5922'	4728' - 5922' MD	0.34	46	
B)						
C)						
D)						

26. Perforation Record

Depth Interval	Amount and Type of Material
4728' - 5922' MD	Frac w/ 190,980#s of 20/40 white sand in 1,776 bbls of Lightning 17 fluid, in 3 stages.

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

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
4/11/14	4/21/14	24	➔	32	13	62			2.5 X 1.75 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.)

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers
GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GARDEN GULCH MARK GARDEN GULCH 1	3672' 3893'
				GARDEN GULCH 2 POINT 3	4005' 4246'
				X MRKR Y MRKR	4537' 4573'
				DOUGLAS CREEK MRK BI CARBONATE MRK	4693' 4936'
				B LIMESTONE MRK CASTLE PEAK	5038' 5579'
				BASAL CARBONATE WASATCH	6059' 6189'

32. Additional remarks (include plugging procedure):

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

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

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

Name (please print) Heather Calder Title Regulatory Technician
 Signature Heather Calder Date 05/06/2014

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 EXPLORATION

USGS Myton SW (UT)
SECTION 21 T9S, R16E
I-21-9-16
Wellbore #1

Design: Actual

End of Well Report

26 March, 2014





Payzone Directional

End of Well Report



Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 21 T9S, R16E
Well: I-21-9-16
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference:
TVD Reference: I-21-9-16 @ 6020.0usft (SS #1)
MD Reference: I-21-9-16 @ 6020.0usft (SS #1)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Well I-21-9-16
 I-21-9-16 @ 6020.0usft (SS #1)
 I-21-9-16 @ 6020.0usft (SS #1)
 True
 Minimum Curvature
 EDM 5000.1 Single User Db

Project USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: Utah Central Zone

System Datum: Mean Sea Level

Site SECTION 21 T9S, R16E

Site Position: Northing: 7,178,195.78 usft Latitude: 40° 1' 4.650 N
 From: Easting: 2,023,590.50 usft Longitude: 110° 7' 54.390 W
Position Uncertainty: Slot Radius: 13-3/16 " Grid Convergence: 0.88 °

Well I-21-9-16, SHL LAT: 40.01 03.84 LONG: -110.07 18.50

Well Position +N/-S 0.0 usft Northing: 7,178,156.68 usft Latitude: 40° 1' 3.840 N
 +E/-W 0.0 usft Easting: 2,026,383.50 usft Longitude: 110° 7' 18.500 W
Position Uncertainty Wellhead Elevation: 6,020.0 usft Ground Level: 6,010.0 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/29/2012	11.15	65.73	52,099

Design Actual

Audit Notes:

Version: 1.0 Phase: ACTUAL Tie On Depth: 0.0

Vertical Section: Depth From (TVD) (usft) +N/-S (usft) +E/-W (usft) Direction (°)

0.0	0.0	0.0	21.93
-----	-----	-----	-------

Survey Program Date 3/26/2014

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
345.0	6,168.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard

Payzone Directional

End of Well Report



Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 21 T9S, R16E
Well: I-21-9-16
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference:
TVD Reference: Well I-21-9-16
MD Reference: I-21-9-16 @ 6020.0usft (SS #1)
North Reference: I-21-9-16 @ 6020.0usft (SS #1)
Survey Calculation Method: True
Database: Minimum Curvature
 EDM 5000.1 Single User Db

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	345.0	1.40	14.30	345.0	4.2	4.1	1.0	0.41	0.41	0.00
	375.0	1.30	29.90	375.0	4.9	4.7	1.3	1.27	-0.33	52.00
	406.0	1.10	25.90	406.0	5.5	5.3	1.6	0.70	-0.65	-12.90
	437.0	1.00	24.30	436.9	6.1	5.8	1.8	0.34	-0.32	-5.16
	468.0	0.50	33.20	467.9	6.5	6.2	2.0	1.65	-1.61	28.71
	499.0	0.60	2.90	498.9	6.8	6.5	2.1	0.98	0.32	-97.74
	529.0	0.30	307.70	528.9	6.9	6.7	2.1	1.65	-1.00	-184.00
	560.0	0.70	200.10	559.9	6.8	6.5	1.9	2.71	1.29	-347.10
	591.0	0.90	164.00	590.9	6.4	6.1	1.9	1.71	0.65	-116.45
	622.0	1.30	154.30	621.9	6.0	5.6	2.2	1.42	1.29	-31.29
	652.0	2.00	158.00	651.9	5.4	4.8	2.5	2.36	2.33	12.33
	683.0	2.30	150.20	682.9	4.6	3.7	3.0	1.35	0.97	-25.16
	714.0	2.50	151.80	713.9	3.8	2.6	3.6	0.68	0.65	5.16
	745.0	2.60	153.60	744.8	2.9	1.4	4.3	0.41	0.32	5.81
	775.0	3.20	158.00	774.8	1.8	0.0	4.9	2.13	2.00	14.67
	806.0	3.70	152.90	805.7	0.5	-1.7	5.7	1.89	1.61	-16.45
	837.0	3.70	146.90	836.7	-0.7	-3.4	6.7	1.25	0.00	-19.35
	868.0	3.90	142.70	867.6	-1.8	-5.1	7.9	1.11	0.65	-13.55
	899.0	4.00	140.40	898.5	-2.9	-6.8	9.2	0.60	0.32	-7.42
	929.0	4.40	137.70	928.5	-3.9	-8.4	10.6	1.49	1.33	-9.00
	960.0	4.80	137.50	959.4	-4.9	-10.3	12.3	1.29	1.29	-0.65
	991.0	5.30	136.50	990.2	-6.1	-12.3	14.2	1.64	1.61	-3.23
	1,022.0	5.80	136.50	1,021.1	-7.3	-14.4	16.2	1.61	1.61	0.00
	1,052.0	6.50	138.20	1,050.9	-8.7	-16.8	18.4	2.41	2.33	5.67
	1,098.0	7.00	132.60	1,096.6	-10.9	-20.6	22.2	1.80	1.09	-12.17
	1,144.0	7.30	127.30	1,142.2	-12.6	-24.3	26.6	1.57	0.65	-11.52

Payzone Directional

End of Well Report



Company: NEWFIELD EXPLORATION
Project: USGS Mylon SW (UT)
Site: SECTION 21 T9S, R16E
Well: I-21-9-16
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference:
TVD Reference: Well I-21-9-16
MD Reference: I-21-9-16 @ 6020.0usft (SS #1)
North Reference: I-21-9-16 @ 6020.0usft (SS #1)
Survey Calculation Method: True
Database: Minimum Curvature
 EDM 5000.1 Single User Db

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
	1,190.0	7.70	123.00	1,187.8	-14.0	-27.8	31.5	1.50	0.87	-9.35
	1,236.0	8.20	118.70	1,233.4	-15.0	-31.0	37.0	1.69	1.09	-9.35
	1,281.0	7.80	114.00	1,278.0	-15.5	-33.8	42.6	1.70	-0.89	-10.44
	1,327.0	8.00	110.50	1,323.5	-15.5	-36.2	48.4	1.13	0.43	-7.61
	1,373.0	7.90	103.20	1,369.1	-14.9	-38.0	54.5	2.20	-0.22	-15.87
	1,419.0	7.60	98.90	1,414.7	-13.8	-39.2	60.6	1.42	-0.65	-9.35
	1,465.0	7.20	90.10	1,460.3	-12.0	-39.7	66.5	2.61	-0.87	-19.13
	1,508.0	6.90	83.00	1,503.0	-9.8	-39.4	71.7	2.14	-0.70	-16.51
	1,554.0	6.10	78.00	1,548.7	-7.1	-38.5	76.9	2.13	-1.74	-10.87
	1,600.0	5.30	67.20	1,594.4	-4.2	-37.2	81.2	2.90	-1.74	-23.48
	1,646.0	4.60	57.60	1,640.3	-1.2	-35.4	84.7	2.35	-1.52	-20.87
	1,690.0	4.80	52.30	1,684.1	1.8	-33.3	87.7	1.09	0.45	-12.05
	1,735.0	4.40	43.50	1,729.0	5.1	-30.9	90.3	1.80	-0.89	-19.56
	1,781.0	4.10	12.90	1,774.9	8.3	-28.0	91.9	4.91	-0.65	-66.52
	1,825.0	4.50	3.60	1,818.7	11.5	-24.8	92.4	1.82	0.91	-21.14
	1,871.0	5.40	359.80	1,864.6	15.2	-20.8	92.5	2.08	1.96	-8.26
	1,917.0	6.50	359.80	1,910.3	19.6	-16.1	92.5	2.39	2.39	0.00
	1,963.0	8.00	359.70	1,955.9	25.0	-10.3	92.4	3.26	3.26	-0.22
	2,008.0	9.20	359.30	2,000.4	31.2	-3.5	92.4	2.67	2.67	-0.89
	2,054.0	10.50	359.20	2,045.8	38.5	4.3	92.3	2.83	2.83	-0.22
	2,098.0	11.80	359.90	2,088.9	46.4	12.9	92.2	2.97	2.95	1.59
	2,142.0	12.80	0.00	2,131.9	55.1	22.2	92.2	2.27	2.27	0.23
	2,188.0	13.90	2.10	2,176.7	65.0	32.8	92.4	2.61	2.39	4.57
	2,279.0	15.00	8.00	2,264.8	86.7	55.4	94.5	2.02	1.21	6.48
	2,325.0	15.10	11.30	2,309.2	98.4	67.2	96.5	1.88	0.22	7.17
	2,369.0	15.40	13.80	2,351.7	109.8	78.5	99.0	1.64	0.68	5.68
	2,415.0	15.30	17.60	2,396.0	121.9	90.2	102.3	2.20	-0.22	8.26

Payzone Directional

End of Well Report



Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 21 T9S, R16E
Well: I-21-9-16
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference: Well I-21-9-16
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MD Reference: I-21-9-16 @ 6020.0usft (SS #1)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
	2,461.0	15.20	19.00	2,440.4	134.0	101.7	106.1	0.83	-0.22	3.04
	2,507.0	15.10	17.80	2,484.8	146.0	113.1	109.9	0.72	-0.22	-2.61
	2,552.0	14.90	16.60	2,528.3	157.6	124.2	113.3	0.82	-0.44	-2.67
	2,598.0	14.90	16.70	2,572.7	169.3	135.6	116.7	0.06	0.00	0.22
	2,644.0	15.10	18.70	2,617.2	181.2	146.9	120.3	1.21	0.43	4.35
	2,690.0	15.20	21.20	2,661.6	193.2	158.2	124.4	1.44	0.22	5.43
	2,733.0	15.70	23.70	2,703.0	204.7	168.8	128.8	1.94	1.16	5.81
	2,779.0	15.90	25.30	2,747.3	217.2	180.2	134.0	1.04	0.43	3.48
	2,825.0	16.20	25.30	2,791.5	229.9	191.7	139.4	0.65	0.65	0.00
	2,869.0	16.10	24.40	2,833.8	242.1	202.8	144.6	0.61	-0.23	-2.05
	2,915.0	15.40	24.10	2,878.0	254.6	214.2	149.7	1.53	-1.52	-0.65
	2,960.0	15.10	23.70	2,921.4	266.4	225.0	154.5	0.71	-0.67	-0.89
	3,006.0	15.00	22.50	2,965.9	278.4	236.0	159.2	0.71	-0.22	-2.61
	3,052.0	14.60	20.60	3,010.3	290.1	246.9	163.5	1.37	-0.87	-4.13
	3,098.0	14.10	18.30	3,054.9	301.5	257.6	167.3	1.65	-1.09	-5.00
	3,142.0	14.50	17.10	3,097.5	312.3	268.0	170.6	1.13	0.91	-2.73
	3,185.0	14.50	16.80	3,139.2	323.1	278.3	173.7	0.17	0.00	-0.70
	3,231.0	14.80	14.90	3,183.7	334.6	289.5	176.9	1.23	0.65	-4.13
	3,277.0	14.90	12.80	3,228.1	346.3	300.9	179.7	1.19	0.22	-4.57
	3,323.0	15.10	11.20	3,272.6	358.0	312.6	182.2	1.00	0.43	-3.48
	3,368.0	15.20	10.60	3,316.0	369.6	324.1	184.4	0.41	0.22	-1.33
	3,412.0	15.20	10.80	3,358.5	380.9	335.5	186.6	0.12	0.00	0.45
	3,459.0	15.30	11.50	3,403.8	393.0	347.6	189.0	0.45	0.21	1.49
	3,504.0	15.20	12.70	3,447.2	404.7	359.2	191.4	0.74	-0.22	2.67
	3,550.0	15.00	13.20	3,491.6	416.5	370.8	194.1	0.52	-0.43	1.09
	3,596.0	14.50	13.50	3,536.1	428.1	382.2	196.8	1.10	-1.09	0.65
	3,639.0	13.90	14.70	3,577.8	438.5	392.5	199.4	1.55	-1.40	2.79



Payzone Directional

End of Well Report



Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 21 T9S, R16E
Well: I-21-9-16
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference: Well I-21-9-16
TVD Reference: I-21-9-16 @ 6020.0usft (SS #1)
MD Reference: I-21-9-16 @ 6020.0usft (SS #1)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
	3,685.0	13.50	15.60	3,622.5	449.4	403.0	202.2	0.99	-0.87	1.96
	3,729.0	13.60	15.60	3,665.3	459.6	412.9	205.0	0.23	0.23	0.00
	3,773.0	13.70	16.00	3,708.0	469.9	422.9	207.8	0.31	0.23	0.91
	3,819.0	14.00	16.60	3,752.7	480.9	433.5	210.9	0.72	0.65	1.30
	3,863.0	13.80	18.20	3,795.4	491.4	443.6	214.1	0.98	-0.45	3.64
	3,907.0	13.70	20.30	3,838.1	501.9	453.4	217.5	1.16	-0.23	4.77
	3,953.0	13.60	20.20	3,882.8	512.7	463.6	221.3	0.22	-0.22	-0.22
	3,997.0	13.20	19.20	3,925.6	522.9	473.2	224.7	1.05	-0.91	-2.27
	4,040.0	13.00	19.90	3,967.5	532.6	482.4	228.0	0.59	-0.47	1.63
	4,086.0	13.00	19.10	4,012.4	543.0	492.2	231.4	0.39	0.00	-1.74
	4,132.0	13.50	19.10	4,057.1	553.5	502.1	234.9	1.09	1.09	0.00
	4,178.0	14.10	19.00	4,101.8	564.5	512.5	238.5	1.31	1.30	-0.22
	4,224.0	14.50	19.50	4,146.4	575.8	523.2	242.2	0.91	0.87	1.09
	4,268.0	14.30	21.20	4,189.0	586.8	533.5	246.0	1.06	-0.45	3.86
	4,313.0	14.00	20.40	4,232.6	597.8	543.8	249.9	0.80	-0.67	-1.78
	4,359.0	14.10	20.20	4,277.2	608.9	554.2	253.8	0.24	0.22	-0.43
	4,405.0	15.10	20.30	4,321.8	620.5	565.1	257.8	2.17	2.17	0.22
	4,451.0	15.60	20.40	4,366.1	632.7	576.5	262.1	1.09	1.09	0.22
	4,497.0	15.80	21.60	4,410.4	645.1	588.1	266.5	0.83	0.43	2.61
	4,542.0	15.00	21.80	4,453.8	657.1	599.2	270.9	1.78	-1.78	0.44
	4,586.0	14.80	20.30	4,496.3	668.4	609.8	275.0	0.99	-0.45	-3.41
	4,632.0	14.50	18.70	4,540.8	680.0	620.8	278.9	1.10	-0.65	-3.48
	4,678.0	14.50	18.60	4,585.3	691.5	631.7	282.6	0.05	0.00	-0.22
	4,724.0	14.60	18.50	4,629.9	703.0	642.6	286.2	0.22	0.22	-0.22
	4,770.0	14.90	17.70	4,674.4	714.7	653.8	289.9	0.79	0.65	-1.74
	4,815.0	14.40	17.00	4,717.9	726.1	664.6	293.3	1.18	-1.11	-1.56
	4,859.0	13.50	17.40	4,760.6	736.6	674.8	296.4	2.06	-2.05	0.91

Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 21 T9S, R16E
Well: I-21-9-16
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference: Well I-21-9-16
TVD Reference: I-21-9-16 @ 6020.0usft (SS #1)
MD Reference: I-21-9-16 @ 6020.0usft (SS #1)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Buid (°/100usft)	Turn (°/100usft)
	4,903.0	13.40	16.70	4,803.4	746.8	684.6	299.4	0.43	-0.23	-1.59
	4,949.0	13.20	18.10	4,848.2	757.4	694.6	302.6	0.82	-0.43	3.04
	4,993.0	12.80	18.60	4,891.0	767.3	704.0	305.7	0.94	-0.91	1.14
	5,039.0	12.10	17.30	4,935.9	777.2	713.5	308.8	1.64	-1.52	-2.83
	5,084.0	11.60	16.10	4,980.0	786.4	722.3	311.4	1.24	-1.11	-2.67
	5,130.0	11.40	17.20	5,025.1	795.5	731.1	314.0	0.65	-0.43	2.39
	5,176.0	12.00	21.00	5,070.1	804.8	739.9	317.1	2.12	1.30	8.26
	5,222.0	13.10	20.10	5,115.0	814.8	749.3	320.6	2.43	2.39	-1.96
	5,268.0	12.70	19.20	5,159.8	825.1	759.0	324.1	0.97	-0.87	-1.96
	5,311.0	12.90	21.10	5,201.8	834.6	767.9	327.3	1.08	0.47	4.42
	5,357.0	13.00	17.00	5,246.6	844.9	777.6	330.7	2.01	0.22	-8.91
	5,403.0	12.00	14.90	5,291.5	854.8	787.2	333.4	2.39	-2.17	-4.57
	5,449.0	11.90	13.80	5,336.5	864.2	796.4	335.8	0.54	-0.22	-2.39
	5,495.0	12.00	15.20	5,381.5	873.7	805.6	338.2	0.67	0.22	3.04
	5,540.0	12.40	15.90	5,425.5	883.1	814.8	340.7	0.95	0.89	1.56
	5,584.0	12.30	14.30	5,468.5	892.5	823.9	343.2	0.81	-0.23	-3.64
	5,628.0	11.90	14.90	5,511.5	901.6	832.8	345.5	0.95	-0.91	1.36
	5,674.0	12.90	16.10	5,556.4	911.4	842.3	348.2	2.24	2.17	2.61
	5,720.0	13.00	18.70	5,601.3	921.7	852.2	351.2	1.29	0.22	5.65
	5,765.0	13.10	19.00	5,645.1	931.8	861.8	354.5	0.27	0.22	0.67
	5,809.0	12.70	17.40	5,688.0	941.6	871.1	357.6	1.22	-0.91	-3.64
	5,855.0	12.60	15.80	5,732.9	951.7	880.8	360.5	0.79	-0.22	-3.48
	5,901.0	12.70	18.00	5,777.8	961.7	890.4	363.4	1.07	0.22	4.78
	5,945.0	12.70	19.50	5,820.7	971.4	899.6	366.5	0.75	0.00	3.41
	5,990.0	12.10	19.00	5,864.6	981.0	908.7	369.7	1.35	-1.33	-1.11
	6,036.0	11.20	17.30	5,909.7	990.3	917.5	372.6	2.09	-1.96	-3.70
	6,081.0	10.70	15.10	5,953.9	998.8	925.7	375.0	1.45	-1.11	-4.89



Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 21 T9S, R16E
Well: I-21-9-16
Wellbore: Wellbore #1
Design: Actual

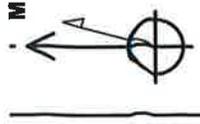
Local Co-ordinate Reference:
TVD Reference: I-21-9-16 @ 6020.0usft (SS #1)
MD Reference: I-21-9-16 @ 6020.0usft (SS #1)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Well I-21-9-16
 I-21-9-16 @ 6020.0usft (SS #1)
 I-21-9-16 @ 6020.0usft (SS #1)
 True
 Minimum Curvature
 EDM 5000.1 Single User Db

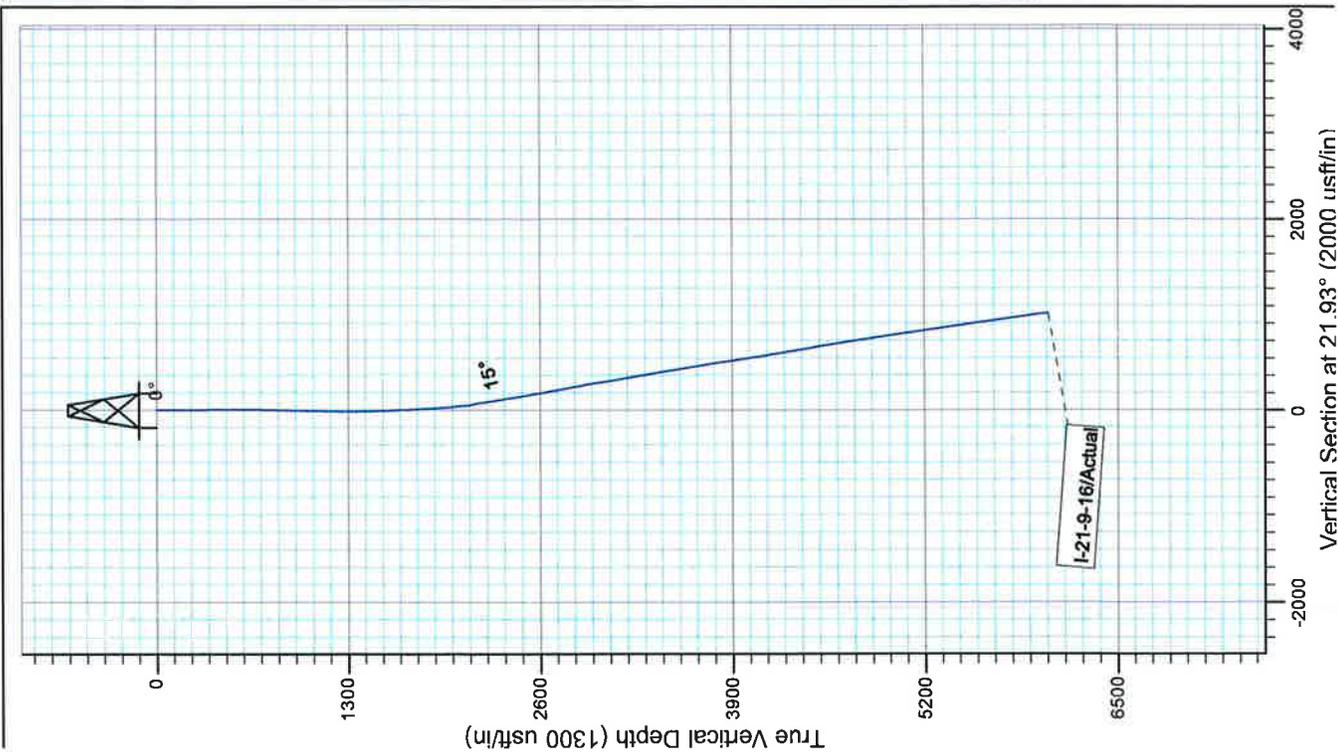
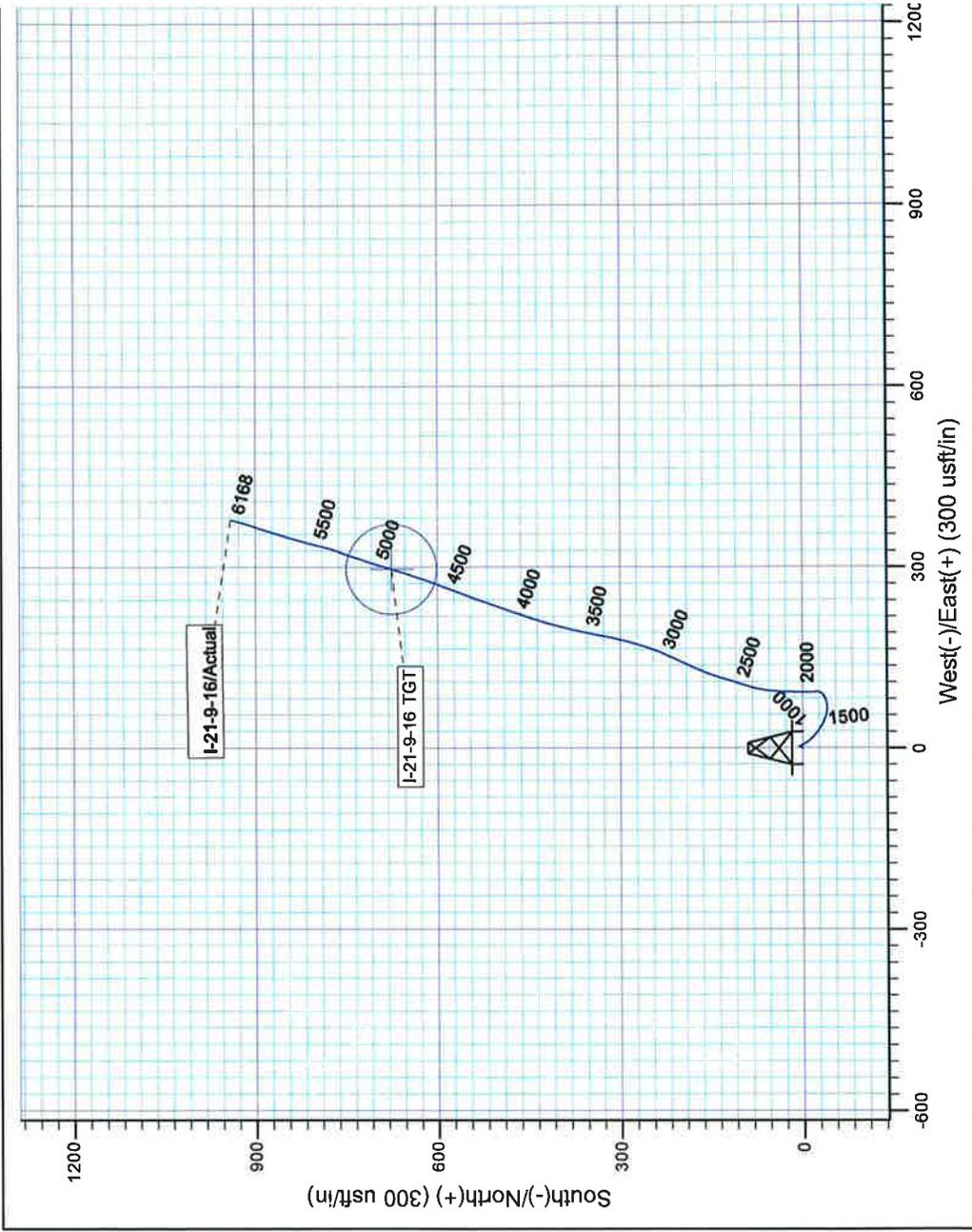
Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
	6,168.0	10.70	14.20	6,039.4	1,014.8	941.3	379.1	0.19	0.00	-1.03

Checked By: _____ Approved By: _____ Date: _____

Azimuths to True North
 Magnetic North: 11.15°
 Magnetic Field
 Strength: 52099.3snT
 Dip Angle: 65.73°
 Date: 11/29/2012
 Model: IGRF2010

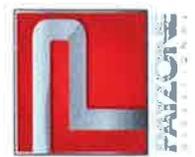


Project: USGS Myton SW (U1)
 Site: SECTION 21 T9S, R16E
 Well: I-21-9-16
 Wellbore: Wellbore #1
 Design: Actual



Design: Actual (I-21-9-16/Wellbore #1)

Created By: *Matthew Emberton* Date: 6:51, March 26 20



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



Well Name: GMBU I-21-9-16

Summary Rig Activity

Job Category		Job Start Date	Job End Date
Daily Operations			
Report Start Date	4/7/2014	24hr Activity Summary	Report End Date
Start Time	05:00	NU frac stack, RU Extreme wireline & run CBL, RU B&C & test csg & frac stack, Perforate 1st stg.	End Time
Start Time	07:00	Comment NU FMC FRAC VALVE & KNIGHT SINGLE BLINDS	End Time
Start Time	09:00	Comment RU EXTREME WIRELINE MU & RIH W/ CEMENT BOND LOG TOOLS, TAG @ 6076', PBTD @ 6098', LOG WELL W/ 0 PSI, LOG SHORT JOINT @ 3427'-26', ESTIMATED CEMENT TOP @ 50', LD LOGGING TOOLS, SWI	End Time
Start Time	11:00	Comment RU B&C TEST UNIT, TEST HYD CHAMBERS ON BOPS, TEST CSG, FRAC STACK & ALL COMPONENTS TO 250 PSI 5-MIN LOW & 4300 PSI 10 & 30-MIN HIGHS, ALL GOOD	End Time
Start Time	11:30	Comment MU & RIH W/ 3 1/8" DISPOSABLE SLICK GUNS (.34 EHD, 16 GR CHG, 21" PEN, 2 SPF), PERFORATE CP-4 @ 5920'-22', 5910'-14' & CP-1 @ 5660'-62' (16-HOLES), POOH W/WIRELINE, LD PERF GUNS, SWI, RD WIRELINE	End Time
Start Time	11:30	Comment SDFN	End Time
Report Start Date	4/8/2014	24hr Activity Summary	Report End Date
Start Time	00:00	Frac 3 of 3 stgs. SWI for 24 hrs. to Durakleen soak, Set kill plug, MIRUSU	End Time
Start Time	06:00	Comment SDFN	End Time
Start Time	07:00	Spot in & RU HES frac equipment.	End Time
Start Time	07:30	Comment (Sig #1 17# Frac) (CP-4 & CP-1) RU HES frac equipment, Press test lines to 4800 psi, Open well w/ 12 psi, Break down formation w/ 3.5 bbls 7% KCL @ 6.9 bpm @ 3450 psi, Bring rate to 26.6 bpm & pump 78 bbls & shut down (ISIP 1776 psi, F.G. .76), Frac well w/ 652 bbls 7% KCL, Pumped ttl of 68,200# 20/40 white sand in formation, ISIP 1927 psi, F.G. .79, Max press 3905 psi, Avg press 2462 psi, Max rate 32.9, Avg rate 32.3 bpm, (5-min 1767 psi, 10-min 1521 psi, 15-min 1497 psi) Pumped 510 gal Durakleen in beginning of job.	End Time
Start Time	07:30	Comment (Sig #2), RU The Extreme wireline, Press test lube to 4,000 psi, MU RIH w/ 3 1/8" disposable slick guns (.34 EHD, 180 deg phasing, 16 gram charges, 2 spf) Set WFT 5 1/2" 6K CFTP @ 5010', Perforate B-Half @ 4946'-50', C-Sand @ 4890'-92', 4884'-85' & D-3 @ 4843'-44' (16-Holes), POOH RD wireline, SWI	End Time
Start Time	08:15	Comment (Sig #2 17# Frac) (B-Half, C-Sand & D-3), RU HES frac equipment, Press test lines to 4800 psi, Open well w/ 1409 psi, Break down formation w/ 7.0 bbls 7% KCL @ 6.4 bpm @ 3865 psi, Bring rate to 23.3 bpm & pump 34 bbls & shut down (ISIP 1355 psi, F.G. .73), Frac well w/ 603 bbls 7% KCL, Pumped ttl of 67,300# 20/40 white sand in formation, ISIP 2126 psi, F.G. .89, Max press 3081 psi, Avg press 2621 psi, Max rate 36.8, Avg rate 35.8, (5-min 1835 psi, 10-min 1683 psi, 15-min 1576 psi) Pumped 503 gal Durakleen in beginning of job.	End Time
Start Time	08:45	Comment (Sig #3), RU Extreme wireline, Press test lube to 4,000 psi, MU RIH w/ 3 1/8" disposable slick guns (.34 EHD, 180 deg phasing, 16 gram charges, 2 spf) Set WFT 5 1/2" 6K CFTP @ 4820', Perforate D-2 @ 4774'-78' & D-1 @ 4749'-50', 4744'-45', 4728'-29', (14-Holes), POOH RD wireline, SWI	End Time
Start Time	09:15	Comment (Sig #3 17# Frac) (D-1 & D-2), RU HES frac equipment, Press test lines to 4800 psi, Open well w/ 1163 psi, Break down formation w/ 4.5 bbls 7% KCL @ 6.7 bpm @ 3554 psi, Bring rate to 19.7 bpm & pump 33.4 bbls & shut down (ISIP 1148 psi, F.G. .69), Frac well w/ 521 bbls 7% KCL, Pumped ttl of 55,480# 20/40 white sand in formation, ISIP 1992 psi, F.G. .87, Max press 2751 psi, Avg press 2288 psi, Max rate 28.4, Avg rate 28.2, (5-min 1704 psi, 10-min 1554 psi, 15-min 1490 psi) Pumped 420 gal Durakleen in beginning of job.	End Time



Well Name: GMBU I-21-9-16

Summary Rig Activity

Start Time	09:45	End Time	10:00	Comment
Start Time	10:00	End Time	10:45	SWI for 24 hrs to allow DuraKleen soak.
Start Time	10:45	End Time	12:15	RU EXTREME WIRELINE, MU & RIH W/ WFT 5 1/2" 6K KILL PLUG, SET PLUG @ 4650', POOH W/ WIRELINE, SWI, BLEED OFF WELL & MONITOR FOR 30-MIN, WELL DEAD, RD WIRELINE
Start Time	12:15	End Time	14:15	ND FMC FRAC VALVE, NU KNIGHT DRILL OUT BOPS
Start Time	14:15	End Time	16:00	RU B&C QUICK TEST, TEST DRILL OUT BOPS & COMPONENTS, GOOD TESTS
Start Time	16:00	End Time	17:30	MIRUSU, RU PUMP & LINES
Start Time	17:30	End Time	00:00	CREW TRAVEL
Start Time	00:00	End Time	05:30	SDFN
Report Start Date	4/9/2014	Report End Date	4/10/2014	24hr Activity Summary
Start Time	05:30	End Time	07:00	MU drill out BHA, PU tbg, Drill out plugs, Clean out to PBTD, Trip tbg above top perfs.
Start Time	07:00	End Time	07:15	SDFN
Start Time	07:15	End Time	09:00	CREW TRAVEL
Start Time	09:00	End Time	13:00	JSA SAFETY MEETING
Start Time	13:00	End Time	13:30	WAITED ON TBG AND FORKLIFT, SET PIPE RACKS, UNLOADED TBG
Start Time	13:30	End Time	14:00	REMOVED THREAD PROTECTORS, TALLIED TBG, PU 142-JTS OF TBG, TAGGED KILL PLUG, LD 1-JT OF TBG, SWIVELED UP
Start Time	14:00	End Time	16:00	CAUGHT CIRCULATION W/ 2 BBLs, DRILL OUT PLUG IN 25 MIN
Start Time	16:00	End Time	17:00	CAUGHT CIRCULATION W/ 2 BBLs, DRILL OUT PLUG IN 45 MIN, CHASED PLUG DOWN TO 4980', DRILLED DOWN TO 5010
Start Time	17:00	End Time	18:00	SWIVELED IN 5-JTS OF TBG, TAGGED PLUG @ 4820'
Start Time	18:00	End Time	19:00	CAUGHT CIRCULATION RIGHT OFF, DRILL OUT PLUG IN 45 MIN, CHASED PLUG DOWN TO 4980', DRILLED DOWN TO 5010
Start Time	19:00	End Time	20:00	TAGGED 3RD PLUG @ 5010', DRILL OUT IN 45 MIN
Start Time	20:00	End Time	21:30	CHASED PLUG DOWN TO 6008', TAGGED SAND, DRILL DOWN TO 6098'
Start Time	21:30	End Time	00:00	CREW TRAVEL
Start Time	00:00	End Time	05:30	CIRCULATED HOLE CLEAN W/ 120 BBLs
Start Time	05:30	End Time	07:00	HUNG SWIVEL BACK ON TRAILER, TOOH 42-JTS OF TBG ABOVE PERFS, SIWFN
Start Time	07:00	End Time	07:15	CREW TRAVEL
Start Time	07:15	End Time	09:00	CREW TRAVEL
Start Time	09:00	End Time	13:00	SDFN
Report Start Date	4/10/2014	Report End Date	4/11/2014	24hr Activity Summary
Start Time	00:00	End Time	05:30	Continue TOOH w/ tbg, TIH w/ production tbg, Set TAC & land tbg on hanger, ND BOPS, NU wellhead, PU pump & rods.
Start Time	05:30	End Time	07:00	SDFN



Well Name: GMBU I-21-9-16

Summary Rig Activity

Start Time	05:30	End Time	07:00	Comment
Start Time	07:00	End Time	07:15	CREW TRAVEL
Start Time	07:15	End Time	09:00	JSA SAFETY MEETING
Start Time	09:00	End Time	11:00	TOOH 137-JTS OF TBG, LD BIT AND SUB
Start Time	11:00	End Time	12:30	TIH PRODUCTION TBG AS FOLLOWS: 2 7/8" PURGE VALVE, 2-JTS 2 7/8" J-55 TBG, 1-#3 DESANDER, 1-2" X 7/8" PUP SUB, 1-JT 2 7/8" J-55 TBG, 2 7/8" PSN, 1-JT 2 7/8" J-55 TBG, 5 1/2" B2-C TAC, 177-JTS OF TBG
Start Time	12:30	End Time	13:30	SET TAC W/ 18K# TENSION, RD RIG FLOOR, ND DOUBLE PIPE BOPS, SINGLE BLIND BOPS, NU WELLHEAD
Start Time	13:30	End Time	18:30	CHANGE OVER TO ROD EQUIPMENT
Start Time	18:30	End Time	20:00	PU ROD STRING, HAD TO GO SLOW DUE TO WIND
Start Time	20:00	End Time	21:30	SEATED PUMP, SPACED OUT RODS, PU POLISH ROD, LOADED TBG W/ 5 BBLs, STROKE TESTED PUMP TO 800 PSI, GOOD TEST, RACKED OUT PUMP, SIWFN
Start Time	21:30	End Time	00:00	CREW TRAVEL
Start Time	00:00	End Time	05:30	SDFN
Start Time	05:30	End Time	07:00	CREW TRAVEL
Start Time	07:00	End Time	07:15	JSA SAFETY MEETING
Start Time	07:15	End Time	08:30	WAITED ON MECHANIC FOR INITIAL START UP OF PUMPING UNIT, HANG HORSE HEAD, HUNG RODS ON BRIDLE, CLEANED LOCATION
Start Time	08:30	End Time	09:30	RDMO
Report Start Date	4/11/2014	Report End Date	4/12/2014	24hr Activity Summary
Start Time	00:00	End Time	05:30	RU pumping unit & hang off rods, PWOP @ 9:30

NEWFIELD

Schematic

Well Name: GMBU I-21-9-16

43-013-52341

Surface Legal Location SWNE 2144 FNL 1963 FEL Sec 21 T9S R16E		API/UWI 43013523410000	Well RC 500346532	Lease UTU64379	State/Province Utah	Field Name GMBU CTB6	County Duchesne
Spud Date 3/21/2014	Rig Release Date 3/25/2014	On Production Date 4/11/2014	Original KB Elevation (ft) 6,020	Ground Elevation (ft) 6,010	Total Depth All (TVD) (ftKB) Original Hole - 6,039.4	PBTD (All) (ftKB) Original Hole - 6,098.2	

Most Recent Job

Job Category Initial Completion	Primary Job Type Fracture Treatment	Secondary Job Type P&P	Job Start Date 4/7/2014	Job End Date 4/11/2014
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TD: 6,168.0

Slant - Original Hole, 5/5/2014 10:36:17 AM

