API Well Number: 43013510900000

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 M-11-9-15

2. TYPE OF WORK
DRILL NEW WELL ■ REENTER P&A WELL ☐ DEEPEN WELL ☐

3. FIELD OR WILDCAT
MONUMENT BUTTE

4. TYPE OF WELL
Oil Well Coalbed Methane Well: NO

5. UNIT or COMMUNITIZATION AGREEMENT NAME
GMBU (GRRV)

6. NAME OF OPERATOR
NEWFIELD PRODUCTION COMPANY

7. OPERATOR PHONE
435 646-4825

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

9. OPERATOR E-MAIL
mcrozier@newfield.com

10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)
UTU-74826

11. MINERAL OWNERSHIP
FEDERAL ■ INDIAN ☐ STATE ☐ FEE ☐

12. SURFACE OWNERSHIP
FEDERAL ■ INDIAN ☐ STATE ☐ FEE ☐

13. NAME OF SURFACE OWNER (if box 12 = 'fee')

14. SURFACE OWNER PHONE (if box 12 = 'fee')

15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')

16. SURFACE OWNER E-MAIL (if box 12 = 'fee')

17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')

18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS
YES ☐ (Submit Commingling Application) NO ■

19. SLANT
VERTICAL ☐ DIRECTIONAL ■ HORIZONTAL ☐

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	1945 FSL 1974 FWL	NESW	11	9.0 S	15.0 E	S
Top of Uppermost Producing Zone	2434 FSL 2305 FWL	NESW	11	9.0 S	15.0 E	S
At Total Depth	2338 FNL 2624 FEL	SWNE	11	9.0 S	15.0 E	S

21. COUNTY
DUCHESNE

22. DISTANCE TO NEAREST LEASE LINE (Feet)
2338

23. NUMBER OF ACRES IN DRILLING UNIT
20

25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)
676

26. PROPOSED DEPTH
MD: 6537 TVD: 6405

27. ELEVATION - GROUND LEVEL
6165

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 - 6405	15.5	J-55 LT&C	8.3	Premium Lite High Strength	313	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

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

NAME Mandie Crozier | **TITLE** Regulatory Tech | **PHONE** 435 646-4825

SIGNATURE | **DATE** 11/29/2011 | **EMAIL** mcrozier@newfield.com

API NUMBER ASSIGNED
43013510900000

APPROVAL
Permit Manager

RECEIVED: December 05, 2011

NEWFIELD PRODUCTION COMPANY
GMBU M-11-9-15
AT SURFACE: NE/SW SECTION 11, T9S R15E
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' – 1660'
Green River	1660'
Wasatch	6285'
Proposed TD	6537'

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

Green River Formation (Oil) 1660' – 6285'

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)

RECEIVED: November 29, 2011

4. *PROPOSED CASING PROGRAM*

a. Casing Design: GMBU M-11-9-15

Size	Interval		Weight	Grade	Coupling	Design Factors		
	Top	Bottom				Burst	Collapse	Tension
Surface casing 8-5/8"	0'	300'	24.0	J-55	STC	2,950 17.53	1,370 14.35	244,000 33.89
Prod casing 5-1/2"	0'	6,537'	15.5	J-55	LTC	4,810 2.31	4,040 1.94	217,000 2.14

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 M-11-9-15

Job	Fill	Description	Sacks ft^3	OH Excess*	Weight (ppg)	Yield (ft^3/sk)
Surface casing	300'	Class G w/ 2% CaCl	138 161	30%	15.8	1.17
Prod casing Lead	4,537'	Prem Lite II w/ 10% gel + 3% KCl	313 1022	30%	11.0	3.26
Prod casing Tail	2,000'	50/50 Poz w/ 2% gel + 3% KCl	363 451	30%	14.3	1.24

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

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

The 8-5/8" surface casing shall in all cases be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

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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 ½" blooie line that is straight run and securely anchored. The blooie line is used with a discharge less than 100 ft from the wellbore in order to minimize the well pad size. The blooie line is not equipped with an automatic igniter or continuous pilot light and the compressor is located less than 100 ft from the well bore due to the low possibility of combustion with the air dust mixture. The trailer mounted compressor (capacity of 2000 CFM) has a safety shut-off valve which is located 15 feet from the air rig. A truck with 70 bbls of water is on stand by to be used as kill fluid, if necessary. From about ±300 feet to TD, a fresh water system will be utilized. Clay inhibition and hole stability will be achieved with a KCl substitute additive. This additive will be identified in the APD and reviewed to determine if the reserve pit shall be lined. This fresh water system will typically contain Total Dissolved Solids (TDS) of less than 3000 PPM. Anticipated mud weight is 8.4 lbs/gal. If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite

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

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

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

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

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

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

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

The logging program will consist of a Dual Induction, Gamma Ray and Caliper log from TD to base of surface casing @ 300' +/-, and a Compensated Neutron-Formation Density Log from TD to 3500' +-. A cement bond log will be run from PBTD to cement top. No drill stem testing or coring is planned for this well.

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

No abnormal temperatures or pressures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated

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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 second quarter of 2012, and take approximately seven (7) days from spud to rig release.

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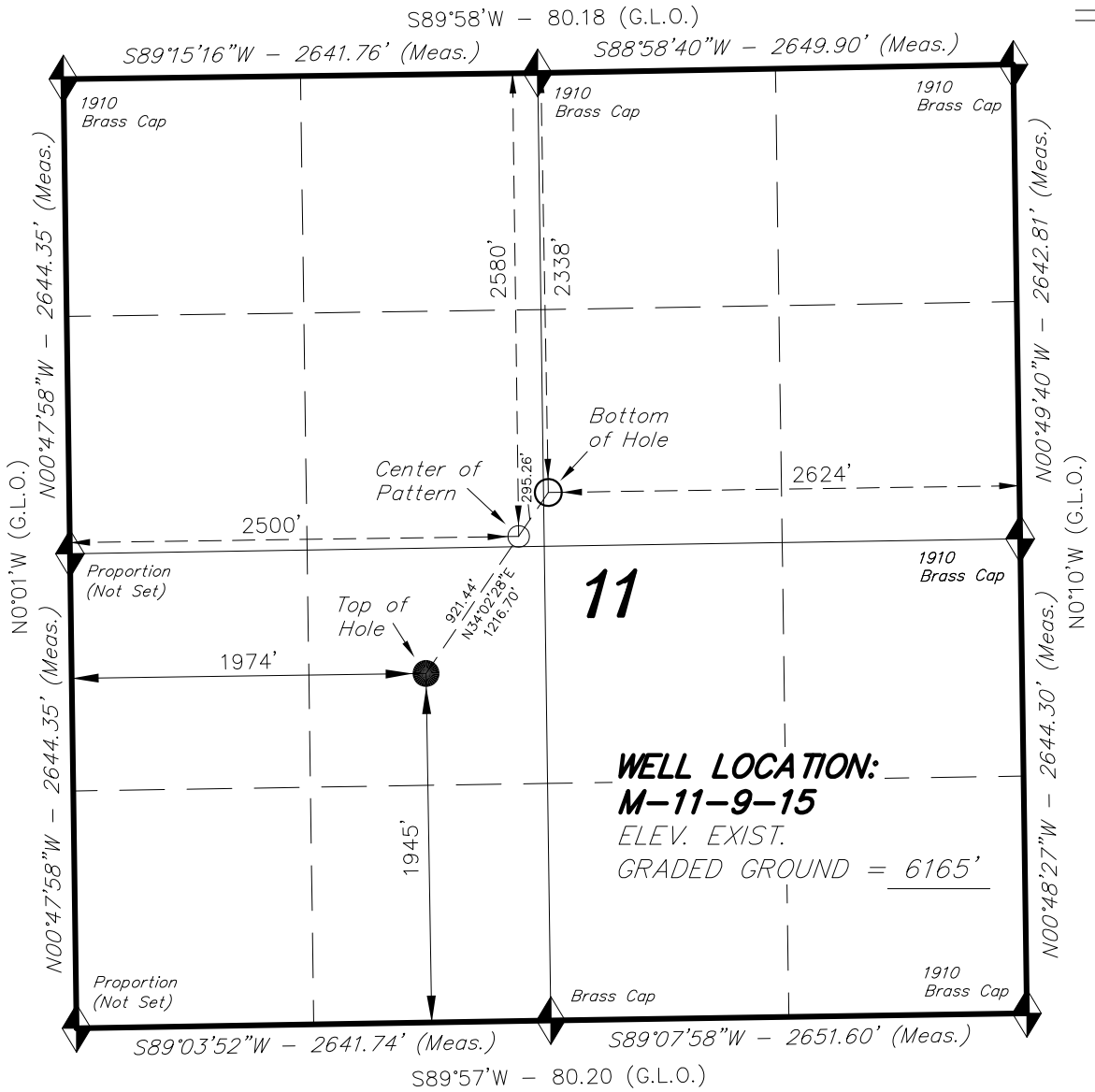
T9S, R15E, S.L.B.&M.

NEWFIELD EXPLORATION COMPANY



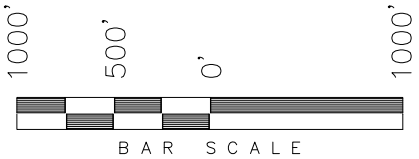
= SECTION CORNERS LOCATED

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'

M-11-9-15
(Surface Location) *NAD 83*
LATITUDE = 40° 02' 36.63"
LONGITUDE = 110° 12' 06.52"

WELL LOCATION, M-11-9-15, LOCATED AS SHOWN IN THE NE 1/4 SW 1/4 OF SECTION 11, T9S, R15E, S.L.B.&M. DUCHESNE COUNTY, UTAH.

TARGET BOTTOM HOLE, M-11-9-15, LOCATED AS SHOWN IN THE SW 1/4 NE 1/4 OF SECTION 11, T9S, R15E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



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

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

REGISTERED LAND SURVEYOR No.189377 08-15-11 STACY W. STEWART STATE OF UTAH

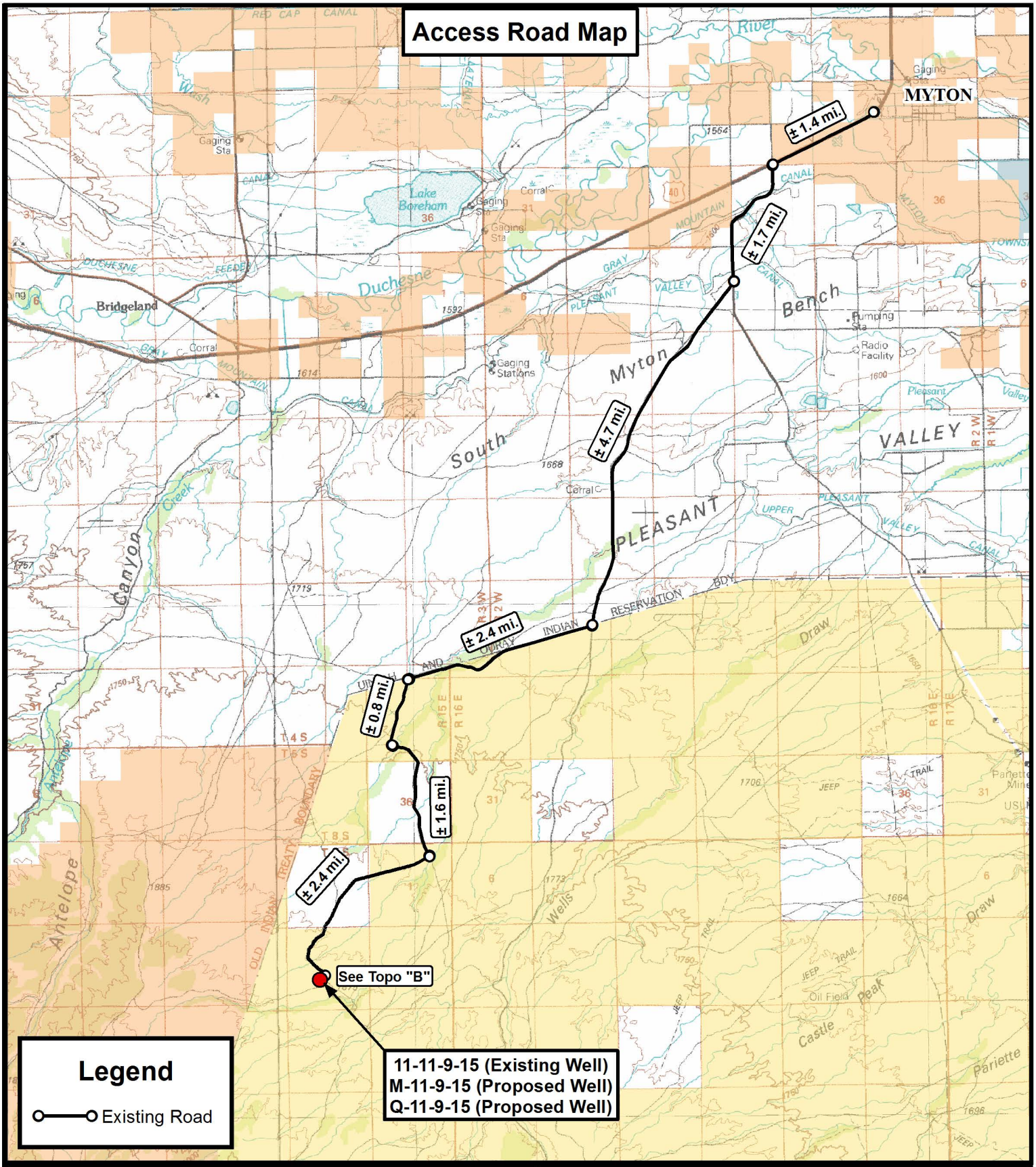
STACY W. STEWART
REGISTERED LAND SURVEYOR
REGISTRATION No. 189377
STATE OF UTAH

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

DATE SURVEYED: 07-26-11	SURVEYED BY: K.S.	VERSION:
DATE DRAWN: 08-05-11	DRAWN BY: F.T.M.	V1
REVISED:	SCALE: 1" = 1000'	

RECEIVED: November 29, 2011

API Well Number: 43013510900000



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

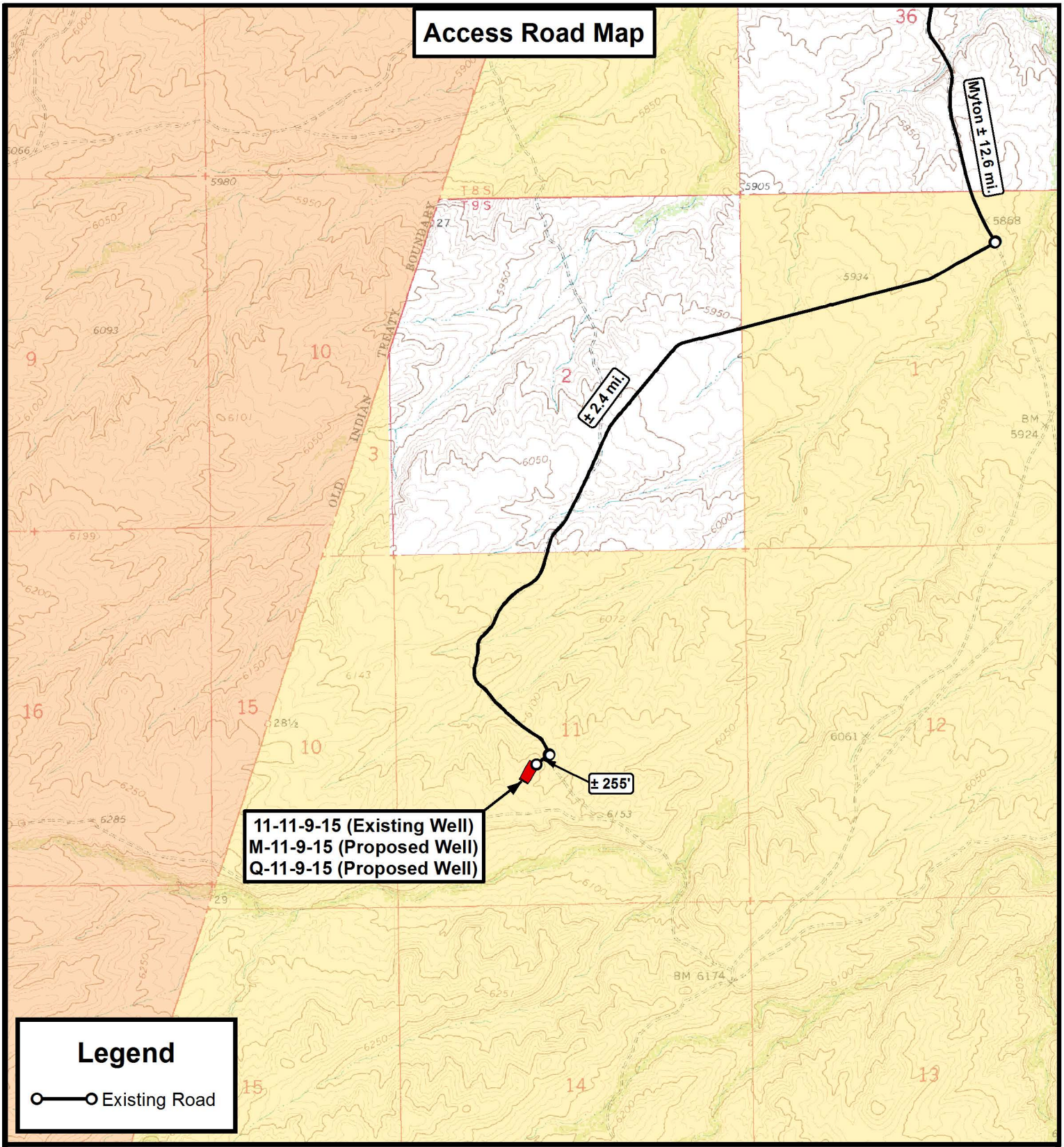
N

NEWFIELD EXPLORATION COMPANY

11-11-9-15 (Existing Well)
M-11-9-15 (Proposed Well)
Q-11-9-15 (Proposed Well)
SEC. 11, T9S, R15E, S.L.B.&M. Duchesne County, UT.

DRAWN BY: D.C.R.	REVISED:	VERSION:	TOPOGRAPHIC MAP
DATE: 08-03-2011		V1	SHEET A
SCALE: 1:100,000			

API Well Number: 43013510900000



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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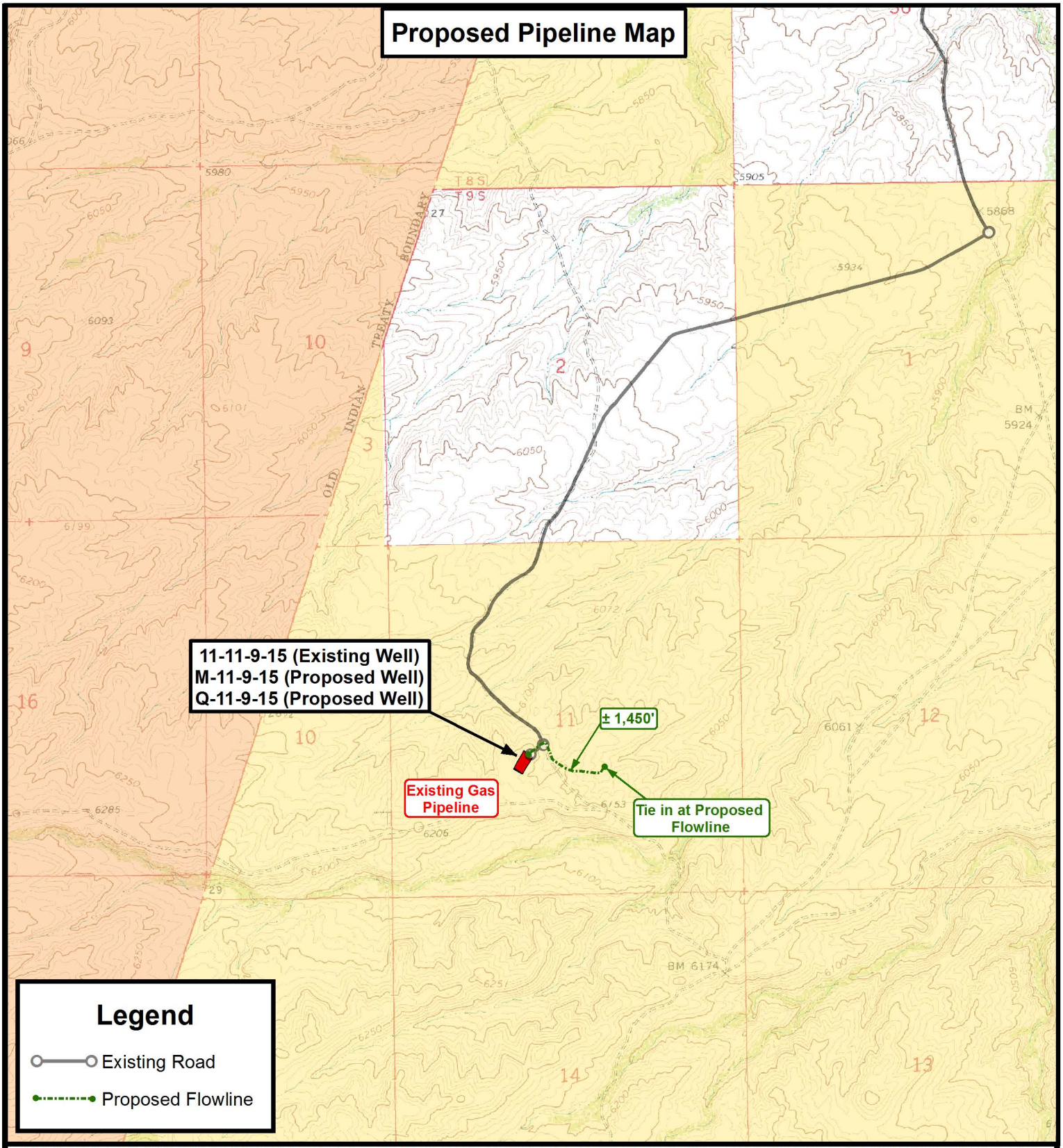
N

NEWFIELD EXPLORATION COMPANY

11-11-9-15 (Existing Well)
M-11-9-15 (Proposed Well)
Q-11-9-15 (Proposed Well)
SEC. 11, T9S, R15E, S.L.B.&M. Duchesne County, UT.

DRAWN BY: D.C.R.	REVISED:	VERSION:	TOPOGRAPHIC MAP
DATE: 08-03-2011		V1	SHEET B
SCALE: 1 " = 2,000 '			

API Well Number: 43013510900000



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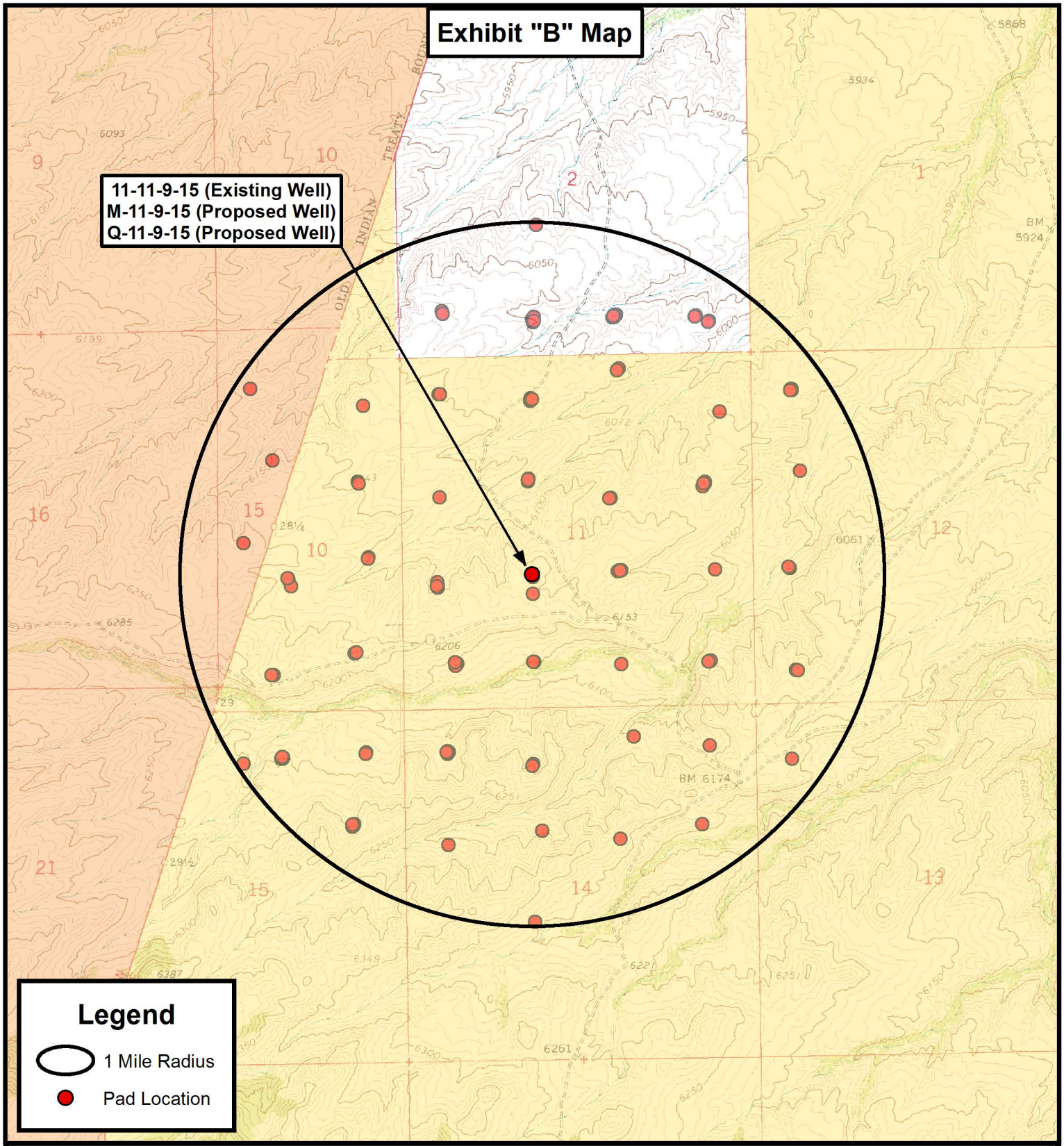
NEWFIELD EXPLORATION COMPANY

11-11-9-15 (Existing Well)
M-11-9-15 (Proposed Well)
Q-11-9-15 (Proposed Well)
SEC. 11, T9S, R15E, S.L.B.&M. Duchesne County, UT.

DRAWN BY: D.C.R.	REVISED:	VERSION:	TOPOGRAPHIC MAP
DATE: 08-03-2011		V1	SHEET C
SCALE: 1 " = 2,000 '			

API Well Number: 43013510900000



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NEWFIELD EXPLORATION COMPANY

11-11-9-15 (Existing Well)
M-11-9-15 (Proposed Well)
Q-11-9-15 (Proposed Well)
SEC. 11, T9S, R15E, S.L.B.&M. Duchesne County, UT.

DRAWN BY: D.C.R.	REVISED:	VERSION:	TOPOGRAPHIC MAP
DATE: 08-03-2011		V1	SHEET D
SCALE: 1 " = 2,000 '			

NEWFIELD EXPLORATION

USGS Myton SW (UT)
SECTION 11 T 9S R15E
M-11-9-15

Wellbore #1

Plan: Design #1

Standard Planning Report

11 August, 2011

RECEIVED: November 29, 2011

NEWFIELD

PayZone Directional Services, LLC.

Planning Report

PAYZONE DIRECTIONAL

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well M-11-9-15
Company:	NEWFIELD EXPLORATION	**TVD Reference:**	M-11-9-15 @ 6177.0ft (Original Well Elev)
Project:	USGS Myton SW (UT)	**MD Reference:**	M-11-9-15 @ 6177.0ft (Original Well Elev)
Site:	SECTION 11 T 9S R15E	**North Reference:**	True
Well:	M-11-9-15	**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 11 T 9S R15E

Site Position:		**Northing:**	7,188,000.00 ft	**Latitude:**	40° 2' 44.351 N
From:	Lat/Long	**Easting:**	2,004,500.00 ft	**Longitude:**	110° 11' 57.926 W
Position Uncertainty:	0.0 ft	**Slot Radius:**	"	**Grid Convergence:**	0.83 °

Well M-11-9-15, SHL LAT: 40 02 36.63 LONG: -110 12 06.52

Well Position	**+N/-S**	-781.3 ft	**Northing:**	7,187,209.11 ft	**Latitude:**	40° 2' 36.630 N
	+E/-W	-668.3 ft	**Easting:**	2,003,843.10 ft	**Longitude:**	110° 12' 6.520 W
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	6,177.0 ft	**Ground Level:**	6,165.0 ft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2011/08/11	11.35	65.76	52,229

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 (°)
	5,100.0	0.0	0.0	34.04

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	
1,449.8	12.75	34.04	1,442.8	78.0	52.7	1.50	1.50	0.00	34.04	
5,199.4	12.75	34.04	5,100.0	763.5	515.8	0.00	0.00	0.00	0.00	M-11-9-15 TGT
6,537.4	12.75	34.04	6,405.0	1,008.2	681.1	0.00	0.00	0.00	0.00	

RECEIVED: November 29, 2011

NEWFIELD

PayZone Directional Services, LLC.

Planning Report

PAYZONE DIRECTIONAL

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well M-11-9-15
Company:	NEWFIELD EXPLORATION	**TVD Reference:**	M-11-9-15 @ 6177.0ft (Original Well Elev)
Project:	USGS Myton SW (UT)	**MD Reference:**	M-11-9-15 @ 6177.0ft (Original Well Elev)
Site:	SECTION 11 T 9S R15E	**North Reference:**	True
Well:	M-11-9-15	**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	34.04	700.0	1.1	0.7	1.3	1.50	1.50	0.00
800.0	3.00	34.04	799.9	4.3	2.9	5.2	1.50	1.50	0.00
900.0	4.50	34.04	899.7	9.8	6.6	11.8	1.50	1.50	0.00
1,000.0	6.00	34.04	999.3	17.3	11.7	20.9	1.50	1.50	0.00
1,100.0	7.50	34.04	1,098.6	27.1	18.3	32.7	1.50	1.50	0.00
1,200.0	9.00	34.04	1,197.5	39.0	26.3	47.0	1.50	1.50	0.00
1,300.0	10.50	34.04	1,296.1	53.0	35.8	64.0	1.50	1.50	0.00
1,400.0	12.00	34.04	1,394.2	69.2	46.7	83.5	1.50	1.50	0.00
1,449.8	12.75	34.04	1,442.8	78.0	52.7	94.1	1.50	1.50	0.00
1,500.0	12.75	34.04	1,491.8	87.2	58.9	105.2	0.00	0.00	0.00
1,600.0	12.75	34.04	1,589.3	105.5	71.3	127.3	0.00	0.00	0.00
1,700.0	12.75	34.04	1,686.8	123.8	83.6	149.3	0.00	0.00	0.00
1,800.0	12.75	34.04	1,784.4	142.0	96.0	171.4	0.00	0.00	0.00
1,900.0	12.75	34.04	1,881.9	160.3	108.3	193.5	0.00	0.00	0.00
2,000.0	12.75	34.04	1,979.4	178.6	120.7	215.5	0.00	0.00	0.00
2,100.0	12.75	34.04	2,077.0	196.9	133.0	237.6	0.00	0.00	0.00
2,200.0	12.75	34.04	2,174.5	215.2	145.4	259.7	0.00	0.00	0.00
2,300.0	12.75	34.04	2,272.1	233.4	157.7	281.7	0.00	0.00	0.00
2,400.0	12.75	34.04	2,369.6	251.7	170.1	303.8	0.00	0.00	0.00
2,500.0	12.75	34.04	2,467.1	270.0	182.4	325.9	0.00	0.00	0.00
2,600.0	12.75	34.04	2,564.7	288.3	194.8	347.9	0.00	0.00	0.00
2,700.0	12.75	34.04	2,662.2	306.6	207.1	370.0	0.00	0.00	0.00
2,800.0	12.75	34.04	2,759.7	324.9	219.5	392.0	0.00	0.00	0.00
2,900.0	12.75	34.04	2,857.3	343.1	231.8	414.1	0.00	0.00	0.00
3,000.0	12.75	34.04	2,954.8	361.4	244.2	436.2	0.00	0.00	0.00
3,100.0	12.75	34.04	3,052.3	379.7	256.5	458.2	0.00	0.00	0.00
3,200.0	12.75	34.04	3,149.9	398.0	268.9	480.3	0.00	0.00	0.00
3,300.0	12.75	34.04	3,247.4	416.3	281.2	502.4	0.00	0.00	0.00
3,400.0	12.75	34.04	3,344.9	434.6	293.6	524.4	0.00	0.00	0.00
3,500.0	12.75	34.04	3,442.5	452.8	305.9	546.5	0.00	0.00	0.00
3,600.0	12.75	34.04	3,540.0	471.1	318.3	568.6	0.00	0.00	0.00
3,700.0	12.75	34.04	3,637.6	489.4	330.6	590.6	0.00	0.00	0.00
3,800.0	12.75	34.04	3,735.1	507.7	343.0	612.7	0.00	0.00	0.00
3,900.0	12.75	34.04	3,832.6	526.0	355.3	634.7	0.00	0.00	0.00
4,000.0	12.75	34.04	3,930.2	544.3	367.7	656.8	0.00	0.00	0.00
4,100.0	12.75	34.04	4,027.7	562.5	380.0	678.9	0.00	0.00	0.00
4,200.0	12.75	34.04	4,125.2	580.8	392.4	700.9	0.00	0.00	0.00
4,300.0	12.75	34.04	4,222.8	599.1	404.7	723.0	0.00	0.00	0.00
4,400.0	12.75	34.04	4,320.3	617.4	417.1	745.1	0.00	0.00	0.00
4,500.0	12.75	34.04	4,417.8	635.7	429.4	767.1	0.00	0.00	0.00
4,600.0	12.75	34.04	4,515.4	654.0	441.8	789.2	0.00	0.00	0.00
4,700.0	12.75	34.04	4,612.9	672.2	454.1	811.3	0.00	0.00	0.00
4,800.0	12.75	34.04	4,710.4	690.5	466.5	833.3	0.00	0.00	0.00
4,900.0	12.75	34.04	4,808.0	708.8	478.8	855.4	0.00	0.00	0.00
5,000.0	12.75	34.04	4,905.5	727.1	491.2	877.4	0.00	0.00	0.00
5,100.0	12.75	34.04	5,003.1	745.4	503.5	899.5	0.00	0.00	0.00
5,199.4	12.75	34.04	5,100.0	763.5	515.8	921.4	0.00	0.00	0.00

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NEWFIELD

PayZone Directional Services, LLC.

Planning Report

PAYZONE DIRECTIONAL

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well M-11-9-15
Company:	NEWFIELD EXPLORATION	**TVD Reference:**	M-11-9-15 @ 6177.0ft (Original Well Elev)
Project:	USGS Myton SW (UT)	**MD Reference:**	M-11-9-15 @ 6177.0ft (Original Well Elev)
Site:	SECTION 11 T 9S R15E	**North Reference:**	True
Well:	M-11-9-15	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.0	12.75	34.04	5,198.1	781.9	528.2	943.6	0.00	0.00	0.00
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5,500.0	12.75	34.04	5,393.2	818.5	552.9	987.8	0.00	0.00	0.00
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5,700.0	12.75	34.04	5,588.3	855.1	577.6	1,031.9	0.00	0.00	0.00
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5,900.0	12.75	34.04	5,783.3	891.6	602.3	1,076.0	0.00	0.00	0.00
6,000.0	12.75	34.04	5,880.9	909.9	614.7	1,098.1	0.00	0.00	0.00
6,100.0	12.75	34.04	5,978.4	928.2	627.0	1,120.1	0.00	0.00	0.00
6,200.0	12.75	34.04	6,075.9	946.5	639.4	1,142.2	0.00	0.00	0.00
6,300.0	12.75	34.04	6,173.5	964.8	651.7	1,164.3	0.00	0.00	0.00
6,400.0	12.75	34.04	6,271.0	983.0	664.1	1,186.3	0.00	0.00	0.00
6,500.0	12.75	34.04	6,368.6	1,001.3	676.4	1,208.4	0.00	0.00	0.00
6,537.4	12.75	34.04	6,405.0	1,008.2	681.1	1,216.6	0.00	0.00	0.00

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API Well Number: 43013510900000

NEWFIELD

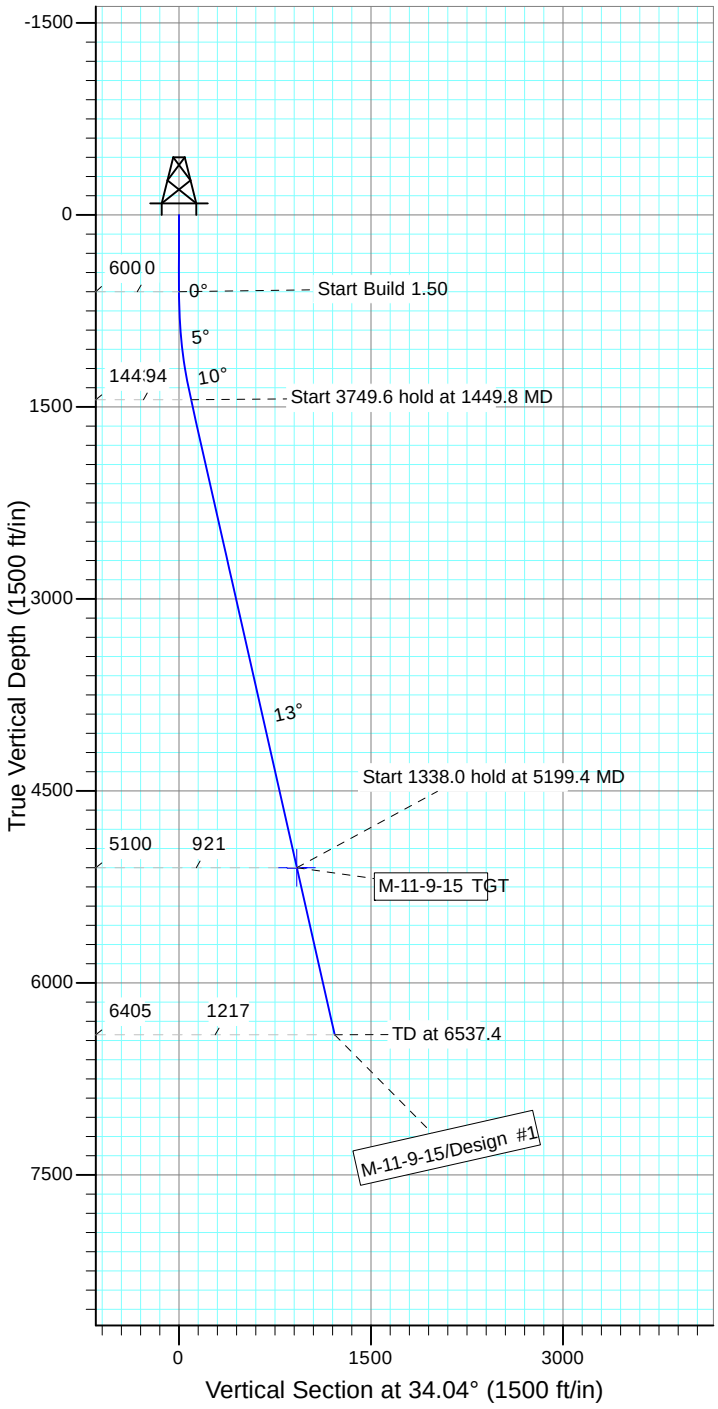
Project: USGS Myton SW (UT)
Site: SECTION 11 T 9S R15E
Well: M-11-9-15
Wellbore: Wellbore #1
Design: Design #1

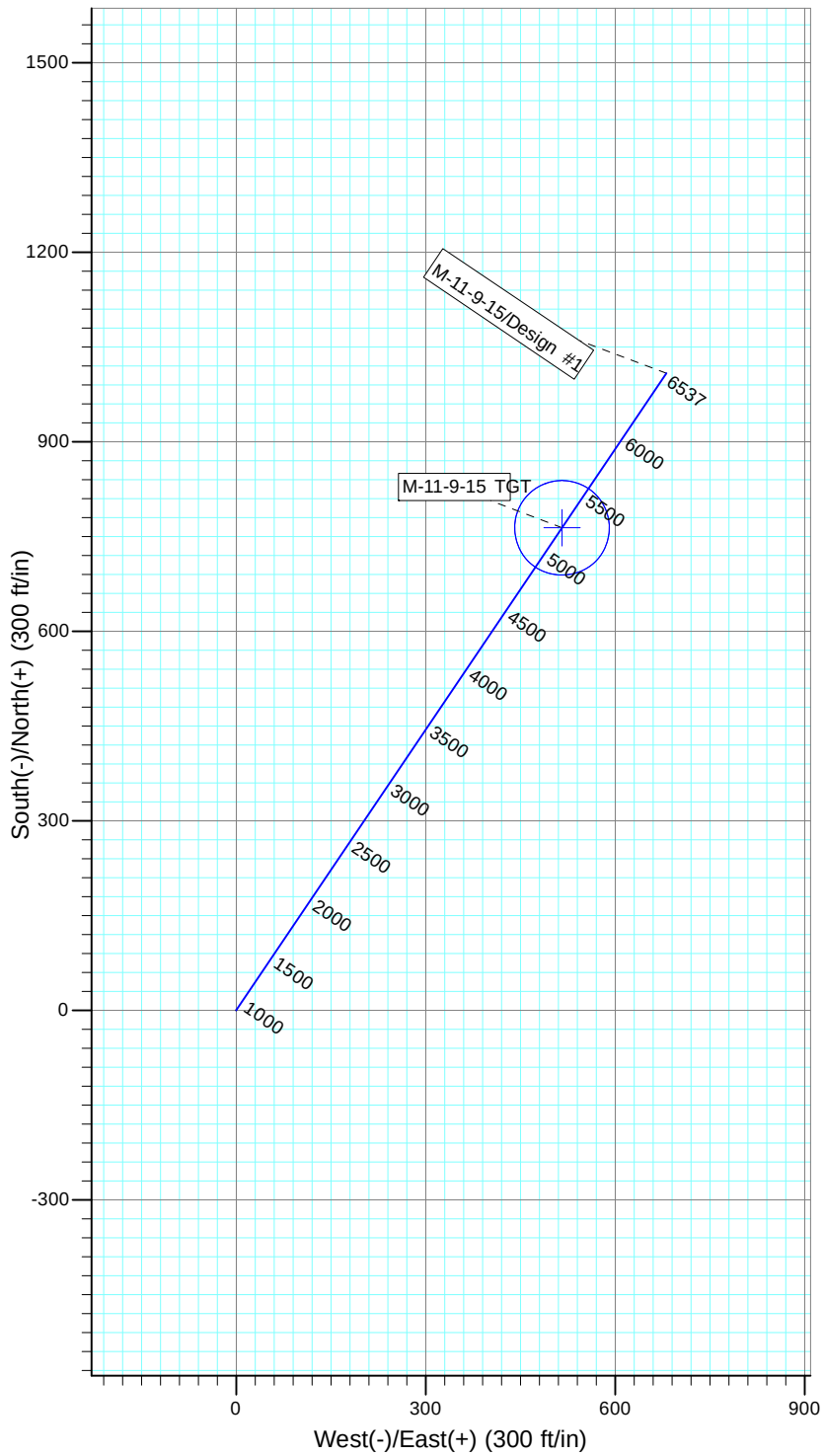
T M

Azimuths to True North
Magnetic North: 11.35°

Magnetic Field
Strength: 52229.1snT
Dip Angle: 65.76°
Date: 2011/08/11
Model: IGRF2010

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





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
M-11-9-15 TGT	5100.0	763.5	515.8	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1449.8	12.75	34.04	1442.8	78.0	52.7	1.50	34.04	94.1	
4	5199.4	12.75	34.04	5100.0	763.5	515.8	0.00	0.00	921.4	M-11-9-15 TGT
5	6537.4	12.75	34.04	6405.0	1008.2	681.1	0.00	0.00	1216.6	

PAYZONE DIRECTIONAL

NEWFIELD PRODUCTION COMPANY
GMBU M-11-9-15
AT SURFACE: SW/SW SECTION 11, T9S R15E
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 M-11-9-15 located in the SW 1/4 SW 1/4 Section 11, T9S R15E, 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 southwesterly direction – 6.4 miles ± to it's junction with an existing road to the southwest; proceed in a southwesterly direction – 2.4 miles ± to it's junction with an existing road to the southwest; proceed in a southwesterly direction –0.8 ± to it's junction with an existing road to the south; proceed in a southerly direction – 1.6 miles ± to it's junction with an existing road to the southwest; proceed in a southwesterly direction –2.4 ± to it's junction with the beginning of the access road to the existing 11-11-9-15 well location.

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

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

2. PLANNED ACCESS ROAD

There is no proposed access road for this location. The proposed well will be drilled directionaly off of the existing 11-11-9-15 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.

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

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

Tank batteries will be built to State specifications.

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

5. LOCATION AND TYPE OF WATER SUPPLY

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

Johnson Water District
Water Right : 43-10136

Maurice Harvey Pond
Water Right: 47-1358

Neil Moon Pond
Water Right: 43-11787

Newfield Collector Well
Water Right: 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.

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8. ***ANCILLARY FACILITIES***

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

9. ***WELL SITE LAYOUT***

See attached Location Layout Sheet.

Fencing Requirements

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

a) A 39-inch net wire shall be used with at least one strand of barbed wire on top of the net.

b) The net wire shall be no more than two (2) inches above the ground. The barbed wire shall be three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.

c) Corner posts shall be centered and/or braced in such a manner to keep tight at all times

d) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.

e) All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

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

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

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

a) Producing Location

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

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

b) Dry Hole Abandoned Location

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

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

12. ***OTHER ADDITIONAL INFORMATION***

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The Archaeological Resource Surveys and Paleontological Resource Surveys for this area are attached. State of Utah Antiquities Project Permit # U-01-MQ-0445b 6/24/01 and State of Utah Antiquities Project Permit # U-00-MQ-0610b 11/15/00, prepared by Montgomery Archaeological Consultants. Paleontological Resource Surveys prepared by, Wade E. Miller, 11/6/00 and 7/28/03. See attached report cover pages, Exhibit "D".

Surface Flow Line
Newfield requests 1,450' of surface flow line be granted. The Surface Flow Line will consist of up to a 14" bundled pipe consisting of 2-2" poly glycol lines and 1-3" production line. For all new wells, Newfield. **Refer to Topographic Map "C"** for the proposed location of the proposed flow line. Flow lines will be tan and will be constructed using the following procedures:

Clearing and Grading: No clearing or grading of the ROW will be required. The centerline of the proposed route will be staked prior to installation. Flow lines shall be placed as close to existing roads as possible without interfering with normal road travel or road maintenance activities. Due to the proximity of existing facilities, no temporary use or construction/storage areas are anticipated. If necessary, temporary use or construction/storage areas will be identified on a topographic map included in the approved permit.

Installation: The proposed flow lines will be installed 4-6" above the ground. For portions along existing two-track and primary access roads, lengths of pipe will be strung out in the borrow ditch, welded together, and rolled or dragged into place with heavy equipment. For pipelines that are installed cross-country (not along existing or proposed roads), travel along the lines will be infrequent and for maintenance needs only. No installation activities will be performed during periods when the soil is too wet to adequately support installation equipment. If such equipment creates ruts in excess of three (3) inches deep, the soil will be deemed too wet to adequately support the equipment.

Termination and Final Reclamation: After abandonment of the associated production facilities, the flow lines will be cut and removed, and any incidental surface disturbance reclaimed. Reclamation procedures will follow those outlined in the Castle Peak and Eight Mile Flat Reclamation and Weed Management Plan.

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

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

Details of the On-Site Inspection
The proposed GMBU M-11-9-15 was on-sited on 10/26/11. The following were present; Tim Eaton (Newfield Production), Christine Cimiluca (Bureau of Land Management), and Suzanne Grayson (Bureau of Land Management).

Hazardous Material Declaration

Newfield Production Company guarantees that during the drilling and completion of the GMBU M-11-9-15, 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 M-11-9-15, Newfield will use, produce,

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store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

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

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

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

Representative

Name: Tim Eaton

Address: Newfield Production Company
Route 3, Box 3630
Myton, UT 84052

Telephone: (435) 646-3721

Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #M-11-9-15, Section 11, Township 9S, Range 15E: Lease UTU-74826 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Federal Bond #WYB000493.

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

11/29/11
Date

Mandie Crozier
Regulatory Analyst
Newfield Production Company

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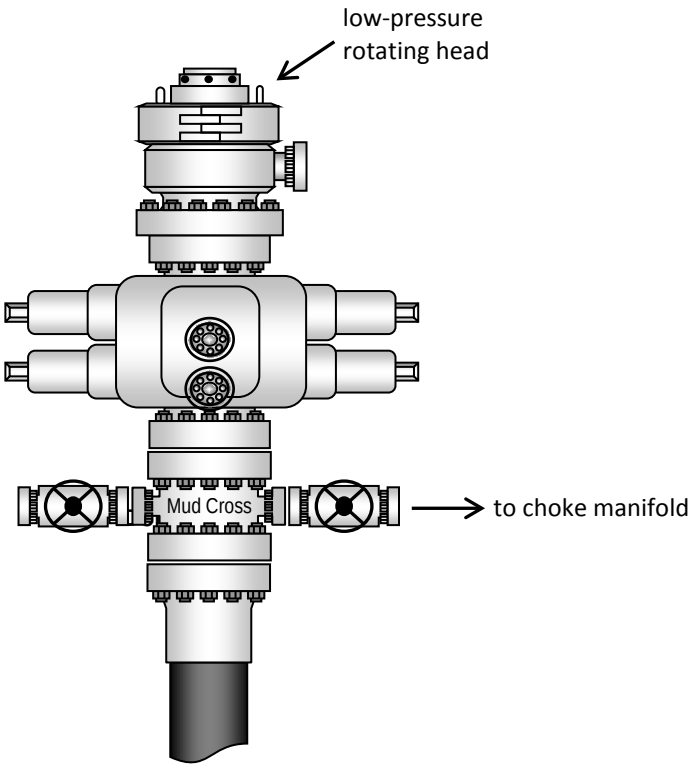
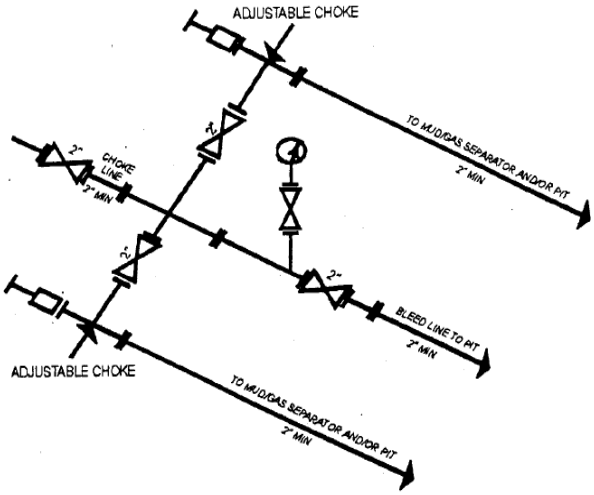
Typical 2M BOP stack configuration





2M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

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NEWFIELD EXPLORATION COMPANY

WELL PAD INTERFERENCE PLAT

11-11-9-15 (Existing Well)
Q-11-9-15 (Proposed Well)
M-11-9-15 (Proposed Well)

Pad Location: NESW Section 11, T9S, R15E, S.L.B.&M.

N

TOP HOLE FOOTAGES

Q-11-9-15 (PROPOSED)
1965' FSL & 1968' FWL

M-11-9-15 (PROPOSED)
1945' FSL & 1974' FWL

CENTER OF PATTERN FOOTAGES

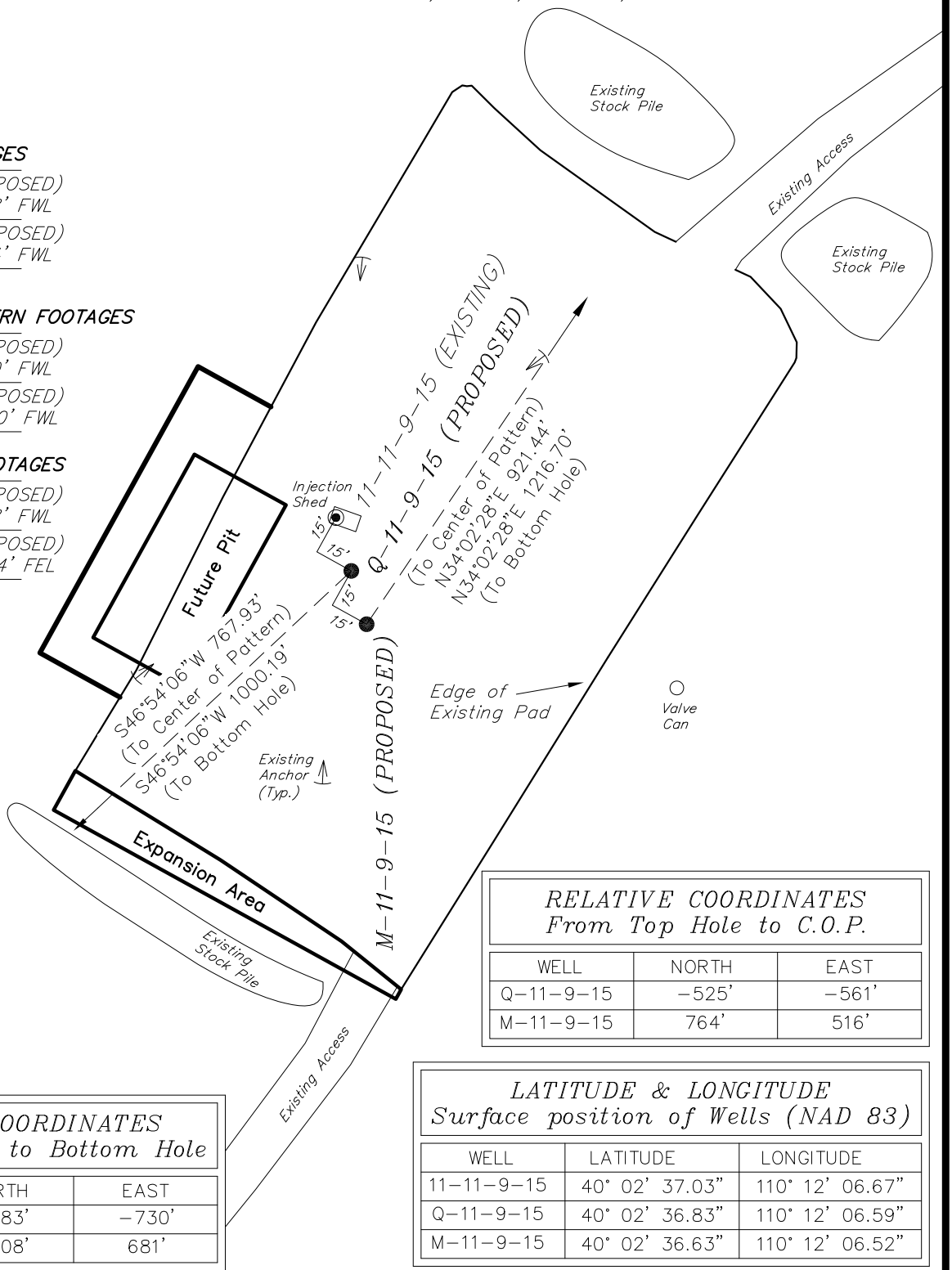
Q-11-9-15 (PROPOSED)
1450' FSL & 1400' FWL

M-11-9-15 (PROPOSED)
2580' FNL & 2500' FWL

BOTTOM HOLE FOOTAGES

Q-11-9-15 (PROPOSED)
1294' FSL & 1228' FWL

M-11-9-15 (PROPOSED)
2338' FNL & 2624' FEL



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

WELL	NORTH	EAST
Q-11-9-15	-525'	-561'
M-11-9-15	764'	516'

RELATIVE COORDINATES
From Top Hole to Bottom Hole

WELL	NORTH	EAST
Q-11-9-15	-683'	-730'
M-11-9-15	1,008'	681'

LATITUDE & LONGITUDE
Surface position of Wells (NAD 83)

WELL	LATITUDE	LONGITUDE
11-11-9-15	40° 02' 37.03"	110° 12' 06.67"
Q-11-9-15	40° 02' 36.83"	110° 12' 06.59"
M-11-9-15	40° 02' 36.63"	110° 12' 06.52"

SURVEYED BY: K.S.	DATE SURVEYED: 07-26-11	VERSION:	Tri State Land Surveying, Inc. (435) 781-2501
DRAWN BY: F.T.M.	DATE DRAWN: 08-05-11	V1	180 NORTH VERNAL AVE. VERNAL, UTAH 84078
SCALE: 1" = 60'	REVISED:		

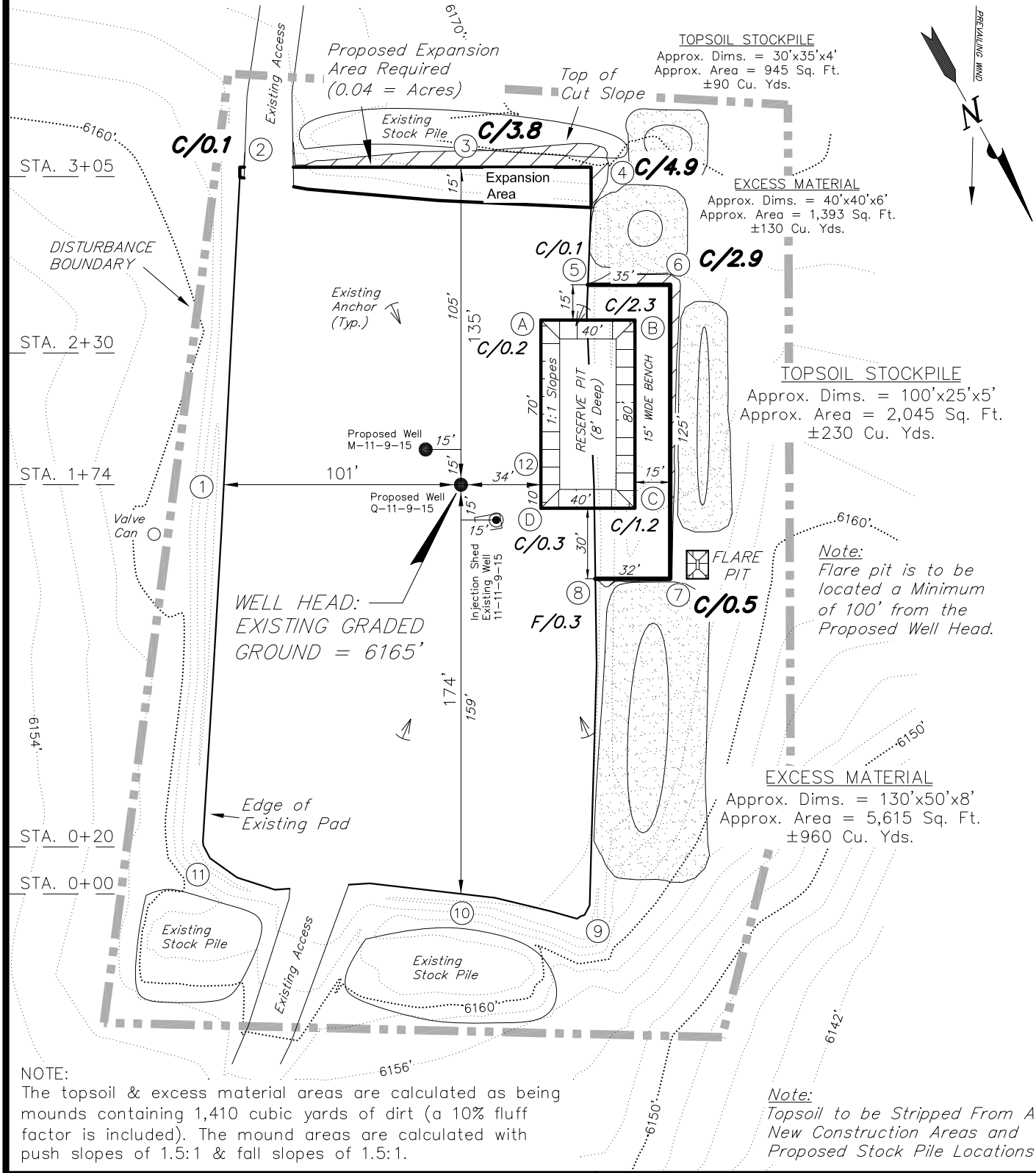
RECEIVED: November 29, 2011

NEWFIELD EXPLORATION COMPANY

LOCATION LAYOUT

11-11-9-15 (Existing Well)
Q-11-9-15 (Proposed Well)
M-11-9-15 (Proposed Well)

Pad Location: NESW Section 11, T9S, R15E, S.L.B.&M.



NOTE:
The topsoil & excess material areas are calculated as being mounds containing 1,410 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: Topsoil to be Stripped From All New Construction Areas and Proposed Stock Pile Locations

SURVEYED BY: K.S.	DATE SURVEYED: 07-26-11	VERSION:	Tri State Land Surveying, Inc. (435) 781-2501
DRAWN BY: F.T.M.	DATE DRAWN: 08-05-11	V1	180 NORTH VERNAL AVE. VERNAL, UTAH 84078
SCALE: 1" = 60'	REVISED:		

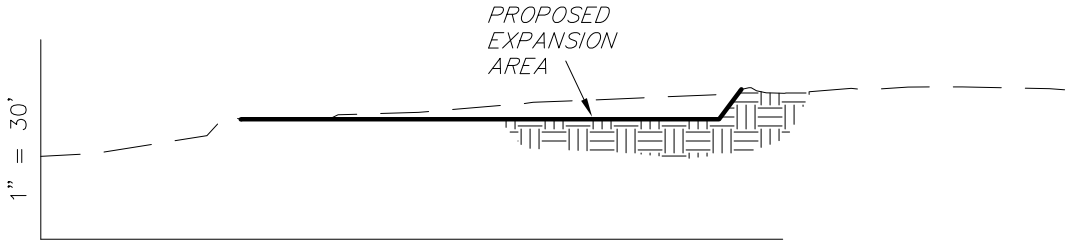
RECEIVED: November 29, 2011

NEWFIELD EXPLORATION COMPANY

CROSS SECTIONS

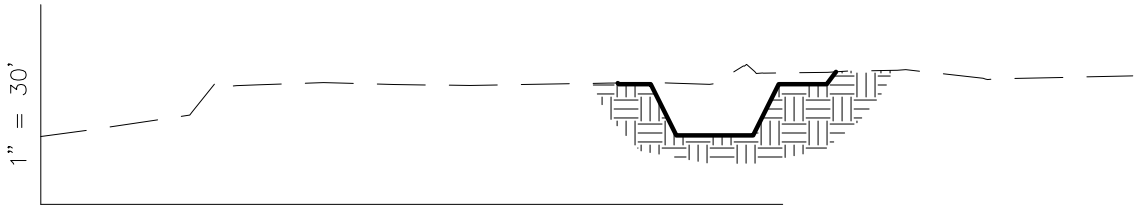
11-11-9-15 (Existing Well)
Q-11-9-15 (Proposed Well)
M-11-9-15 (Proposed Well)

Pad Location: NESW Section 11, T9S, R15E, S.L.B.&M.



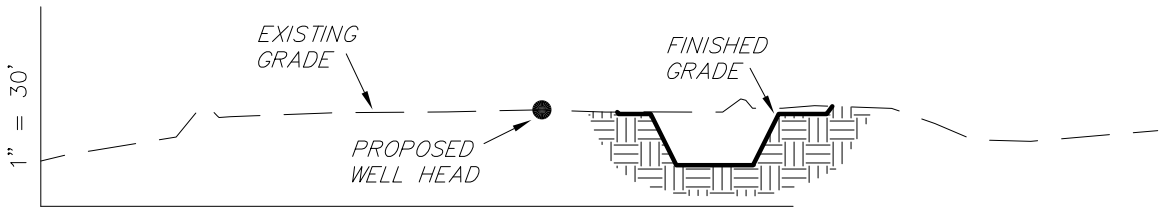
1" = 60'

STA. 3+05



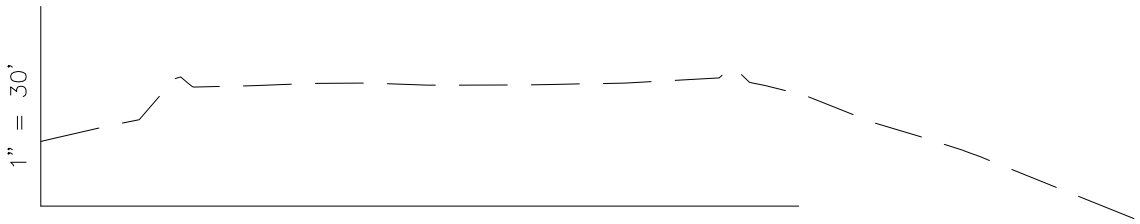
1" = 60'

STA. 2+30



1" = 60'

STA. 1+74



1" = 60'

STA. 0+20

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

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	300	0	Topsoil is not included in Pad Cut	300
PIT	690	0		690
TOTALS	990	0	290	990

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

SURVEYED BY: K.S.	DATE SURVEYED: 07-26-11	VERSION:	Tri State Land Surveying, Inc. (435) 781-2501
DRAWN BY: F.T.M.	DATE DRAWN: 08-05-11	V1	180 NORTH VERNAL AVE. VERNAL, UTAH 84078
SCALE: 1" = 60'	REVISED:		

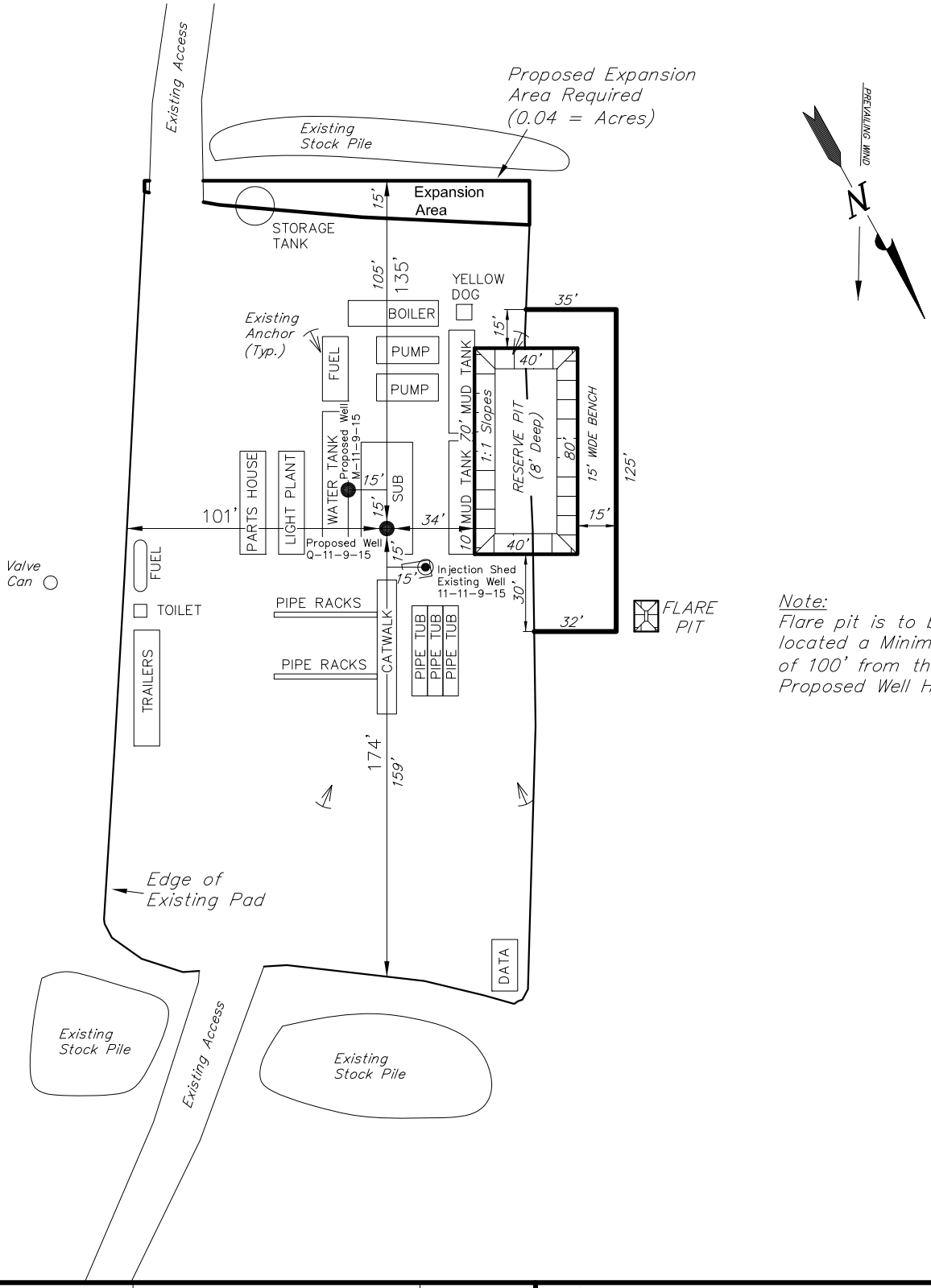
RECEIVED: November 29, 2011

NEWFIELD EXPLORATION COMPANY

TYPICAL RIG LAYOUT

11-11-9-15 (Existing Well)
Q-11-9-15 (Proposed Well)
M-11-9-15 (Proposed Well)

Pad Location: NESW Section 11, T9S, R15E, S.L.B.&M.

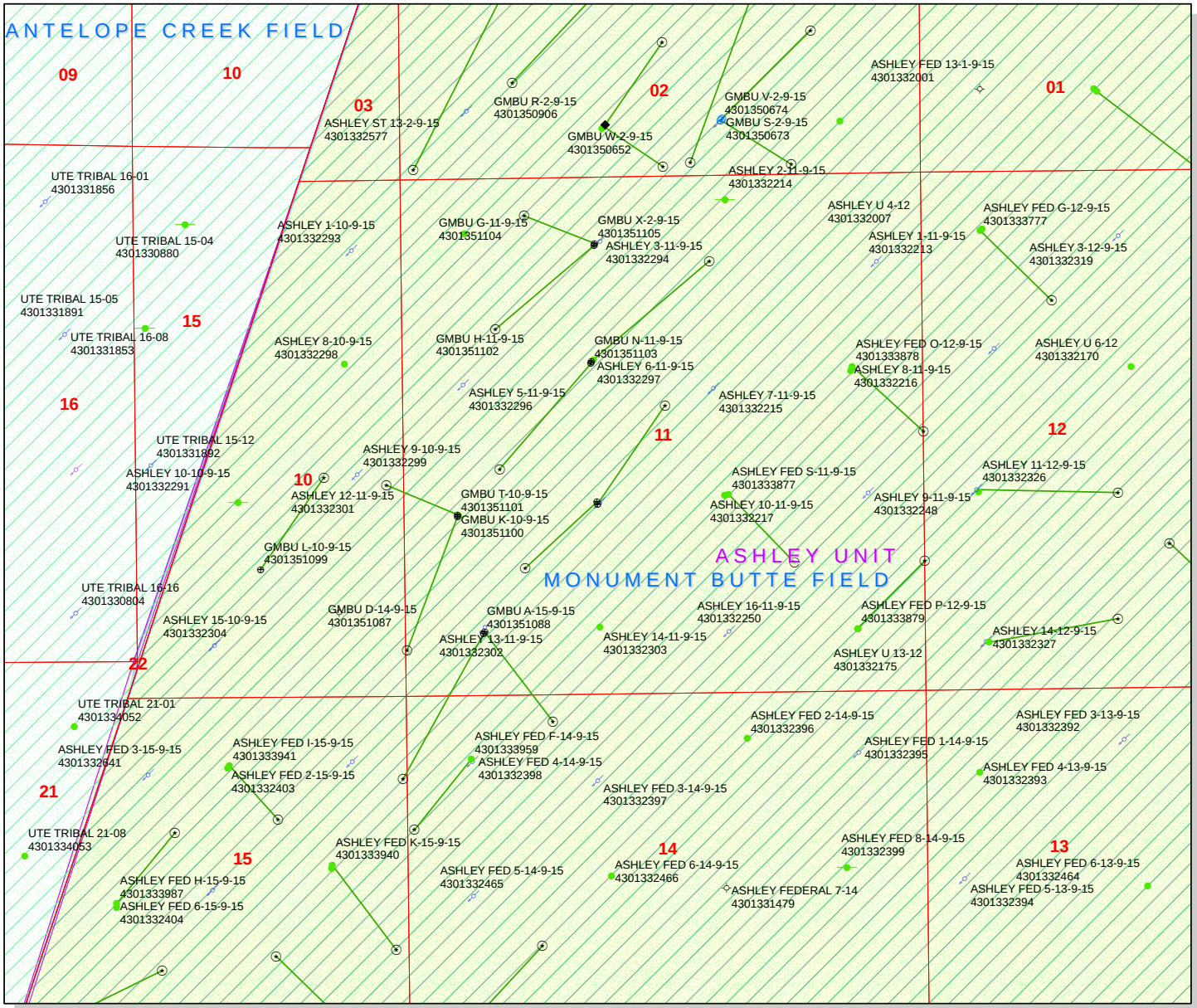


Note:
Flare pit is to be located a Minimum of 100' from the Proposed Well Head.

SURVEYED BY: K.S.	DATE SURVEYED: 07-26-11	VERSION:	Tri State Land Surveying, Inc. (435) 781-2501
DRAWN BY: F.T.M.	DATE DRAWN: 08-05-11	V1	180 NORTH VERNAL AVE. VERNAL, UTAH 84078
SCALE: 1" = 60'	REVISED:		

RECEIVED: November 29, 2011

API Well Number: 43013510900000



API Number: 4301351090

Well Name: GMBU M-11-9-15

Township T0.9 . Range R1.5 . Section 11

Meridian: SLBM

Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:
Map Produced by Diana Mason

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

Fields
STATUS
- Unknown
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- STORAGE
- TERMINATED

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

1,300 650 0 1,300 Feet

1:12,612

RECEIVED: December 01, 2011

NEWFIELD
ROCKY MOUNTAINS

VIA ELECTRONIC DELIVERY

December 1, 2011

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 M-11-9-15
Greater Monument Butte (Green River) Unit

Surface Hole: T9S-R15E Section 11: NESW (UTU-74826)
1945' FSL 1974' FWL

At Target: T9S-R15E Section 11: SWNE (UTU-74826)
2338' FNL 2624' FEL

Duchesne County, Utah

Dear Ms. Mason:

Pursuant to the filing by Newfield Production Company (NPC) of an Application for Permit to Drill the above referenced well dated 11/29/2011, a copy of which is attached, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

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

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

NPC hereby requests our application for permit to drill be granted pursuant to R649-3-11. If you have any questions or require further information, please contact the undersigned at 303-383-4153 or by email at pburns@newfield.com. Your consideration in this matter is greatly appreciated.

Sincerely,
Newfield Production Company

Peter Burns
Land Associate

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

December 2, 2011

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2011 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 2011 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-51083	GMBU Y-33-8-17	Sec 05 T09S R17E 0827 FNL 0655 FEL
		BHL Sec 33 T08S R17E 0074 FSL 0094 FWL
43-013-51084	GMBU I-33-8-17	Sec 33 T08S R17E 1969 FNL 0867 FEL
		BHL Sec 33 T08S R17E 1112 FNL 1524 FEL
43-013-51085	GMBU O-34-8-17	Sec 33 T08S R17E 1989 FNL 0875 FEL
		BHL Sec 34 T08S R17E 2440 FSL 0303 FWL
43-013-51086	GMBU I-13-9-15	Sec 13 T09S R15E 2083 FNL 0422 FEL
		BHL Sec 13 T09S R15E 1151 FNL 1454 FEL
43-013-51087	GMBU D-14-9-15	Sec 11 T09S R15E 0646 FSL 0810 FWL
		BHL Sec 14 T09S R15E 0274 FNL 1491 FWL
43-013-51088	GMBU A-15-9-15	Sec 11 T09S R15E 0631 FSL 0796 FWL
		BHL Sec 15 T09S R15E 0170 FNL 0244 FEL
43-013-51089	GMBU O-18-9-16	Sec 13 T09S R15E 2095 FNL 0404 FEL
		BHL Sec 18 T09S R16E 2399 FSL 0237 FWL
43-013-51090	GMBU M-11-9-15	Sec 11 T09S R15E 1945 FSL 1974 FWL
		BHL Sec 11 T09S R15E 2338 FNL 2624 FEL
43-013-51091	GMBU Q-11-9-15	Sec 11 T09S R15E 1965 FSL 1968 FWL
		BHL Sec 11 T09S R15E 1294 FSL 1228 FWL

RECEIVED: December 02, 2011

API #	WELL NAME	LOCATION

(Proposed PZ GREEN RIVER)

43-013-51099 GMBU L-10-9-15 Sec 10 T09S R15E 1964 FSL 1696 FEL
BHL Sec 10 T09S R15E 2362 FNL 1015 FEL

43-013-51100 GMBU K-10-9-15 Sec 11 T09S R15E 1851 FSL 0546 FWL
BHL Sec 10 T09S R15E 2440 FNL 0380 FEL

43-013-51101 GMBU T-10-9-15 Sec 11 T09S R15E 1830 FSL 0546 FWL
BHL Sec 10 T09S R15E 1142 FSL 0201 FEL

43-013-51102 GMBU H-11-9-15 Sec 11 T09S R15E 1880 FNL 1925 FWL
BHL Sec 11 T09S R15E 0873 FNL 2158 FEL

43-013-51103 GMBU N-11-9-15 Sec 11 T09S R15E 1900 FNL 1920 FWL
BHL Sec 11 T09S R15E 2310 FSL 0981 FWL

43-013-51104 GMBU G-11-9-15 Sec 11 T09S R15E 0696 FNL 1969 FWL
BHL Sec 11 T09S R15E 1538 FNL 0953 FWL

43-013-51105 GMBU X-2-9-15 Sec 11 T09S R15E 0675 FNL 1974 FWL
BHL Sec 02 T09S R15E 0304 FSL 1026 FWL

43-013-51106 GMBU R-12-9-15 Sec 12 T09S R15E 0739 FSL 2044 FEL
BHL Sec 12 T09S R15E 1470 FSL 2497 FWL

43-013-51107 GMBU B-13-9-15 Sec 12 T09S R15E 0718 FSL 2047 FEL
BHL Sec 13 T09S R15E 0343 FNL 0836 FEL

43-013-51108 GMBU N-5-9-16 Sec 05 T09S R16E 2032 FNL 1795 FWL
BHL Sec 05 T09S R16E 2246 FSL 1175 FWL

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

Michael L. Coulthard

Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land Management, ou=Branch of Minerals, email=Michael_Coulthard@blm.gov, c=US
Date: 2011.12.02 10:10:47 -07'00'

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

MCoulthard:mc:12-2-11

RECEIVED: December 02, 2011

API Well Number: 43013510900000

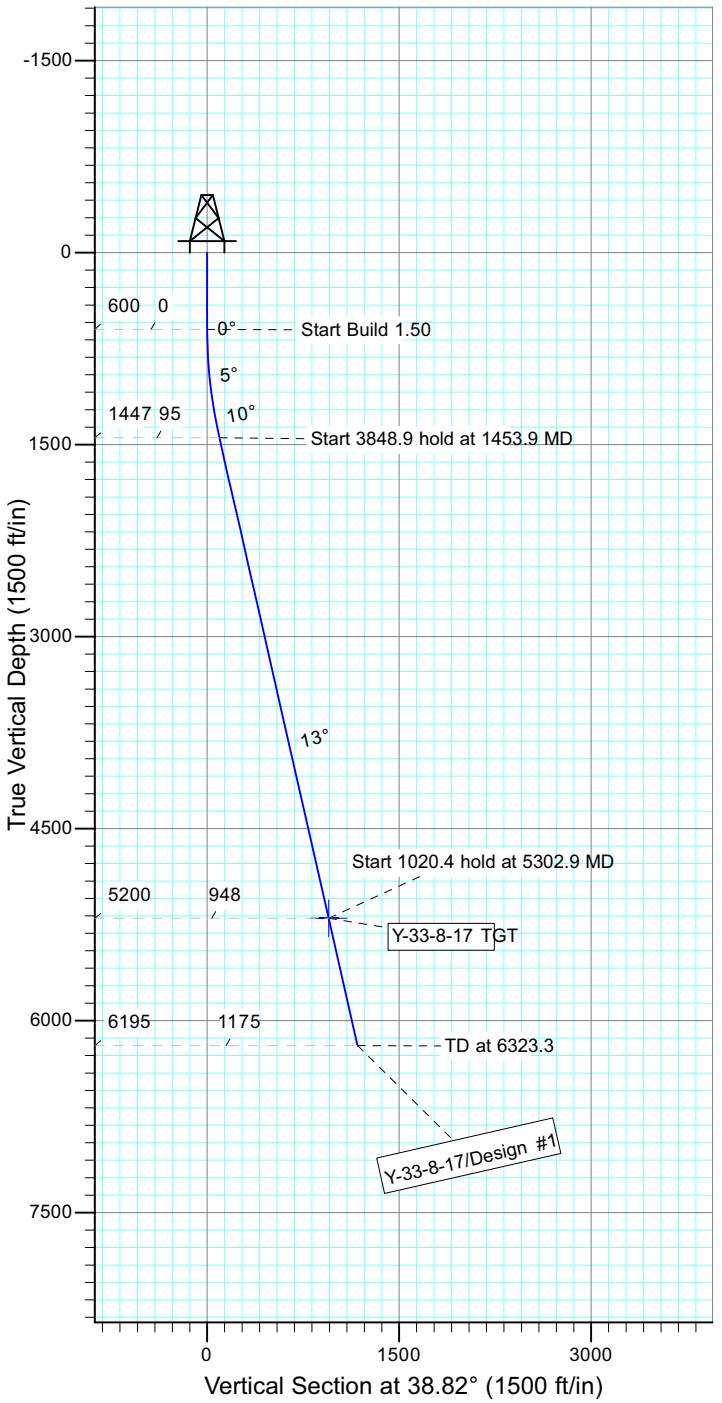
NEWFIELD

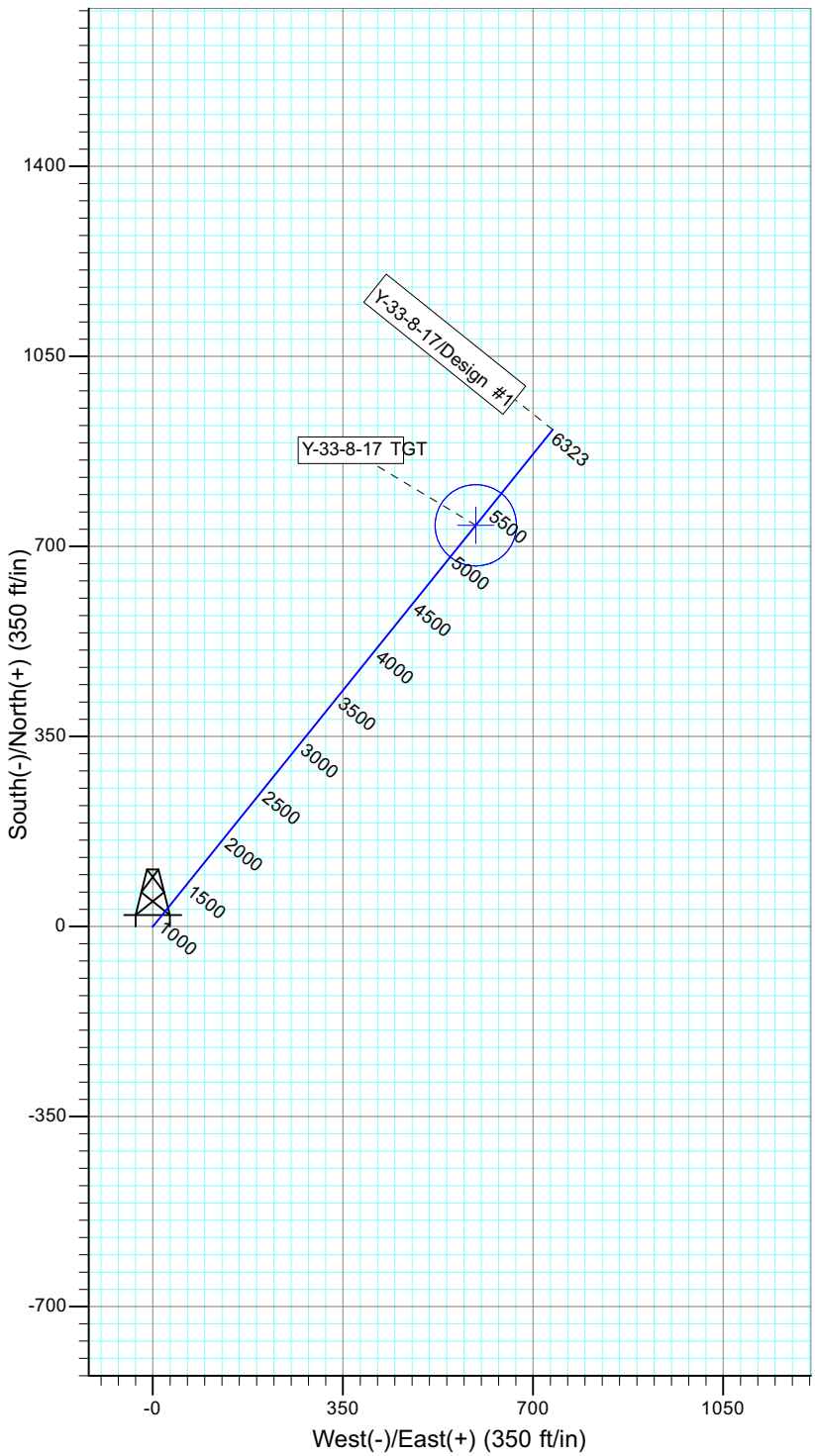
Project: USGS Myton SW (UT)
Site: SECTION 5 T9S, R17E
Well: Y-33-8-17
Wellbore: Wellbore #1
Design: Design #1

Azimuths to True North
Magnetic North: 11.34°

Magnetic Field
Strength: 52320.1snT
Dip Angle: 65.83°
Date: 2/21/2011
Model: IGRF2010

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





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
Y-33-8-17 TGT	5200.0	738.9	594.5	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	1453.9	12.81	38.82	1446.8	74.1	59.6	1.50	38.82	95.1	
4	5302.9	12.81	38.82	5200.0	738.9	594.5	0.00	0.00	948.4	Y-33-8-17 TGT
5	6323.3	12.81	38.82	6195.0	915.2	736.3	0.00	0.00	1174.6	

PAYZONE

API Well Number: 4301351090000

NEWFIELD

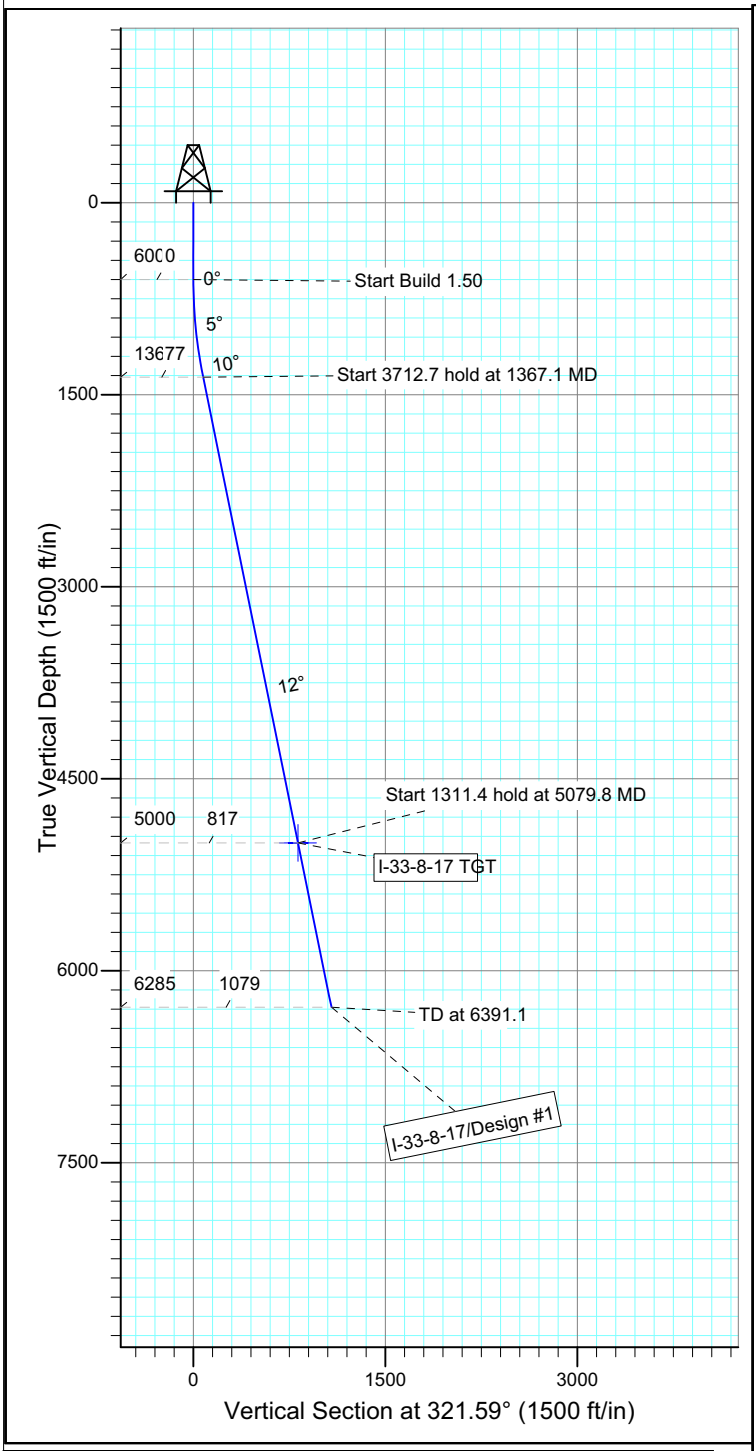
Project: USGS Myton SW (UT)
Site: SECTION 33 T8S R17E
Well: I-33-8-17
Wellbore: Wellbore #1
Design: Design #1

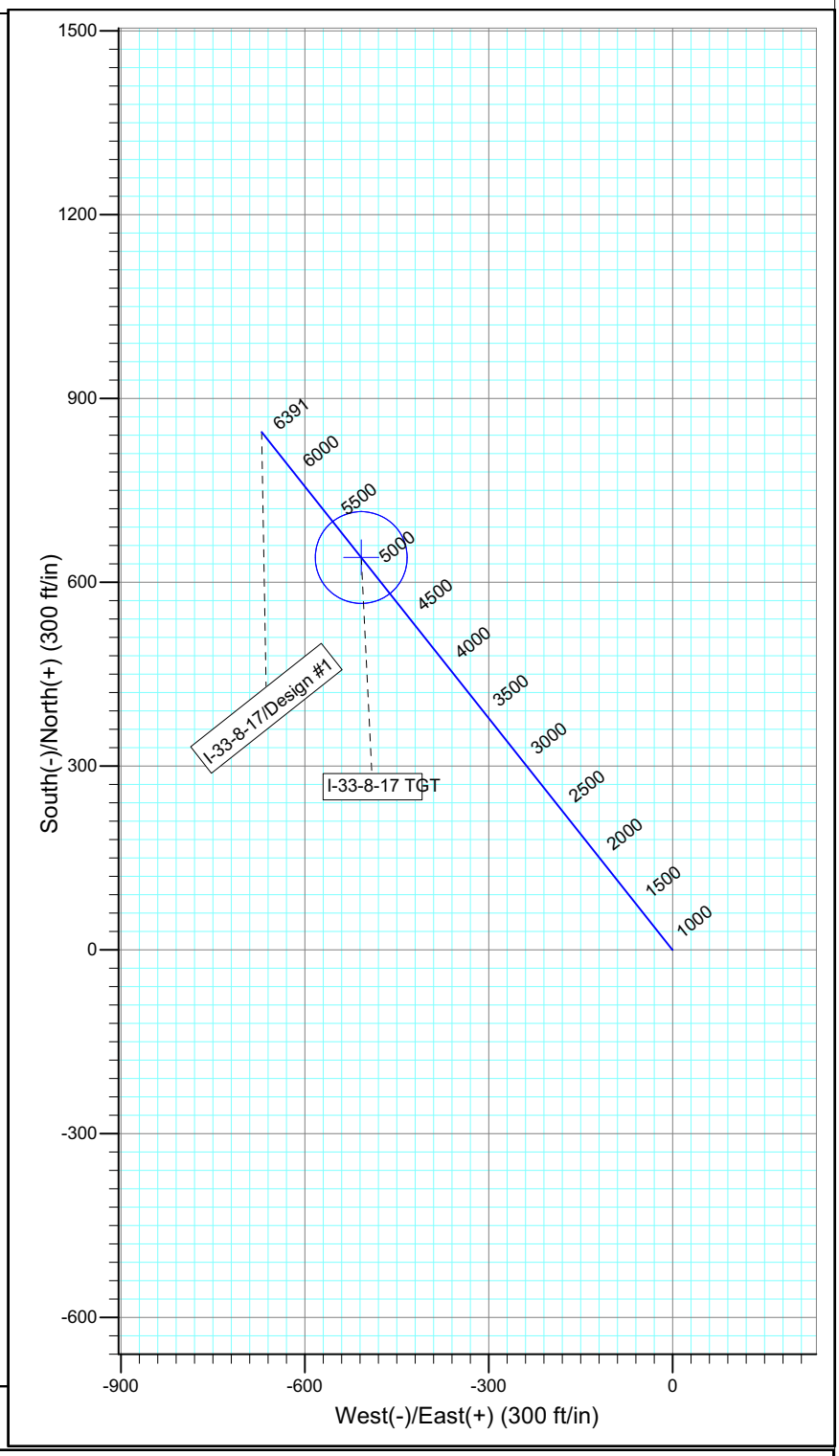
T M

Azimuths to True North
Magnetic North: 11.33°

Magnetic Field
Strength: 52329.4snT
Dip Angle: 65.84°
Date: 2011/02/21
Model: IGRF2010

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





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
I-33-8-17 TGT	5000.0	640.5	-507.8	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1367.1	11.51	321.59	1362.0	60.2	-47.7	1.50	321.59	76.8	
4	5079.8	11.51	321.59	5000.0	640.5	-507.8	0.00	0.00	817.4	I-33-8-17 TGT
5	6391.1	11.51	321.59	6285.0	845.5	-670.3	0.00	0.00	1079.0	

PAYZONE DIRECTIONAL

API Well Number: 43013510960000

NEWFIELD

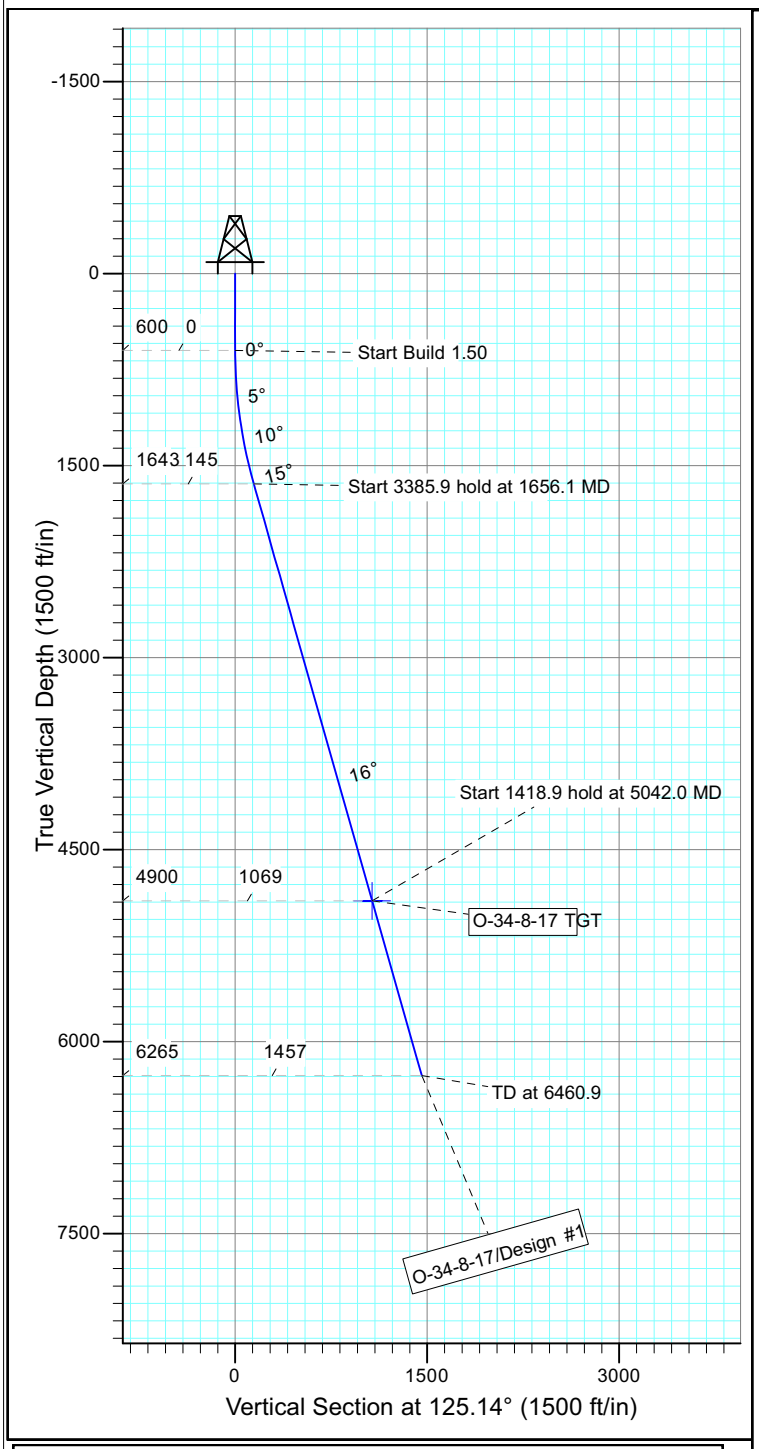
Project: USGS Myton SW (UT)
Site: SECTION 33 T8S R17E
Well: O-34-8-17
Wellbore: Wellbore #1
Design: Design #1

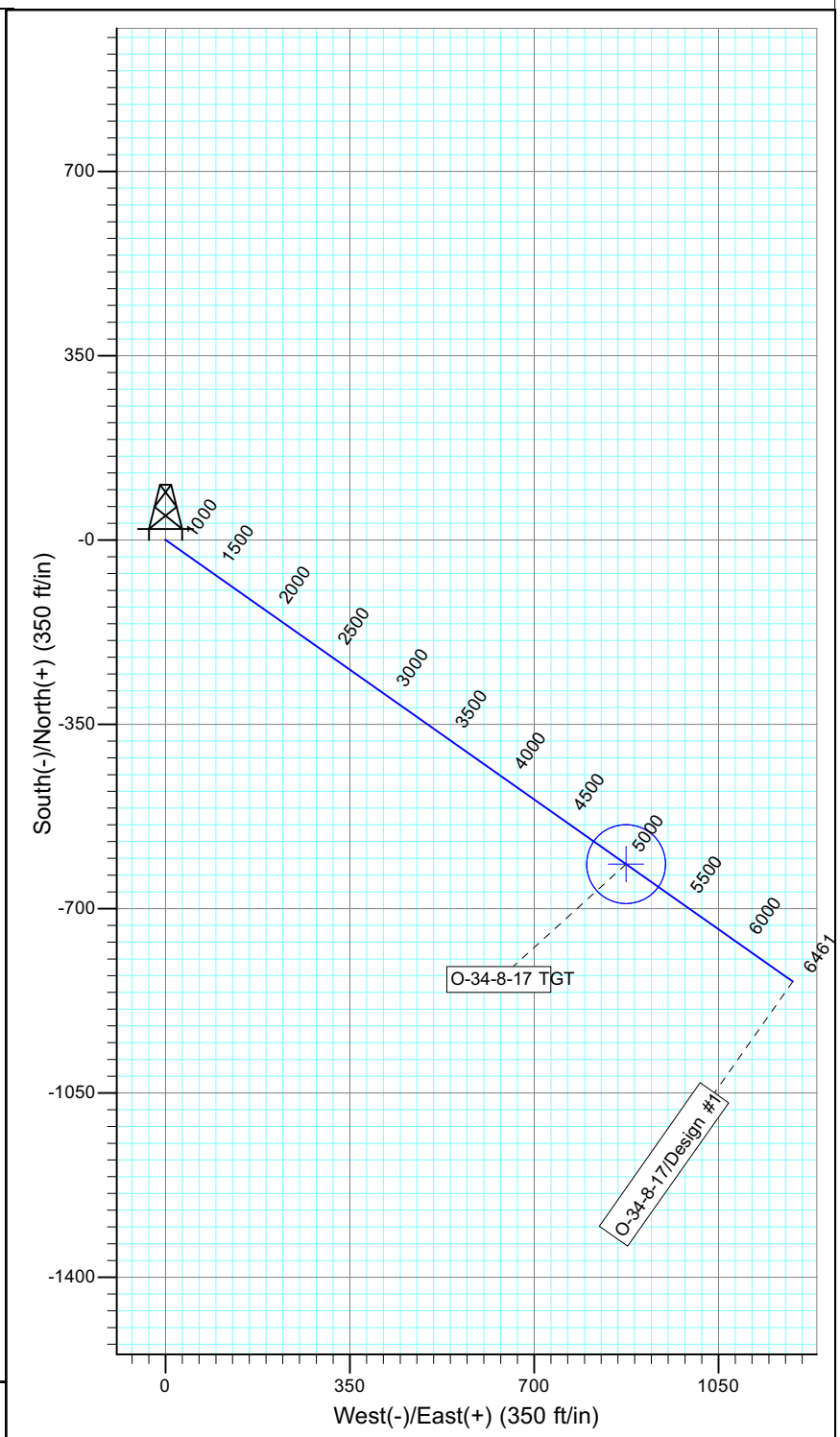
T M

Azimuths to True North
Magnetic North: 11.33°

Magnetic Field
Strength: 52329.4snT
Dip Angle: 65.84°
Date: 2/21/2011
Model: IGRF2010

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





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
O-34-8-17 TGT	4900.0	-615.5	874.5	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	1656.1	15.84	125.14	1642.7	-83.5	118.6	1.50	125.14	145.1	
4	5042.0	15.84	125.14	4900.0	-615.5	874.5	0.00	0.00	1069.4	O-34-8-17 TGT
5	6460.9	15.84	125.14	6265.0	-838.4	1191.2	0.00	0.00	1456.7	

PAYZONE

API Well Number: 43013510960000

NEWFIELD

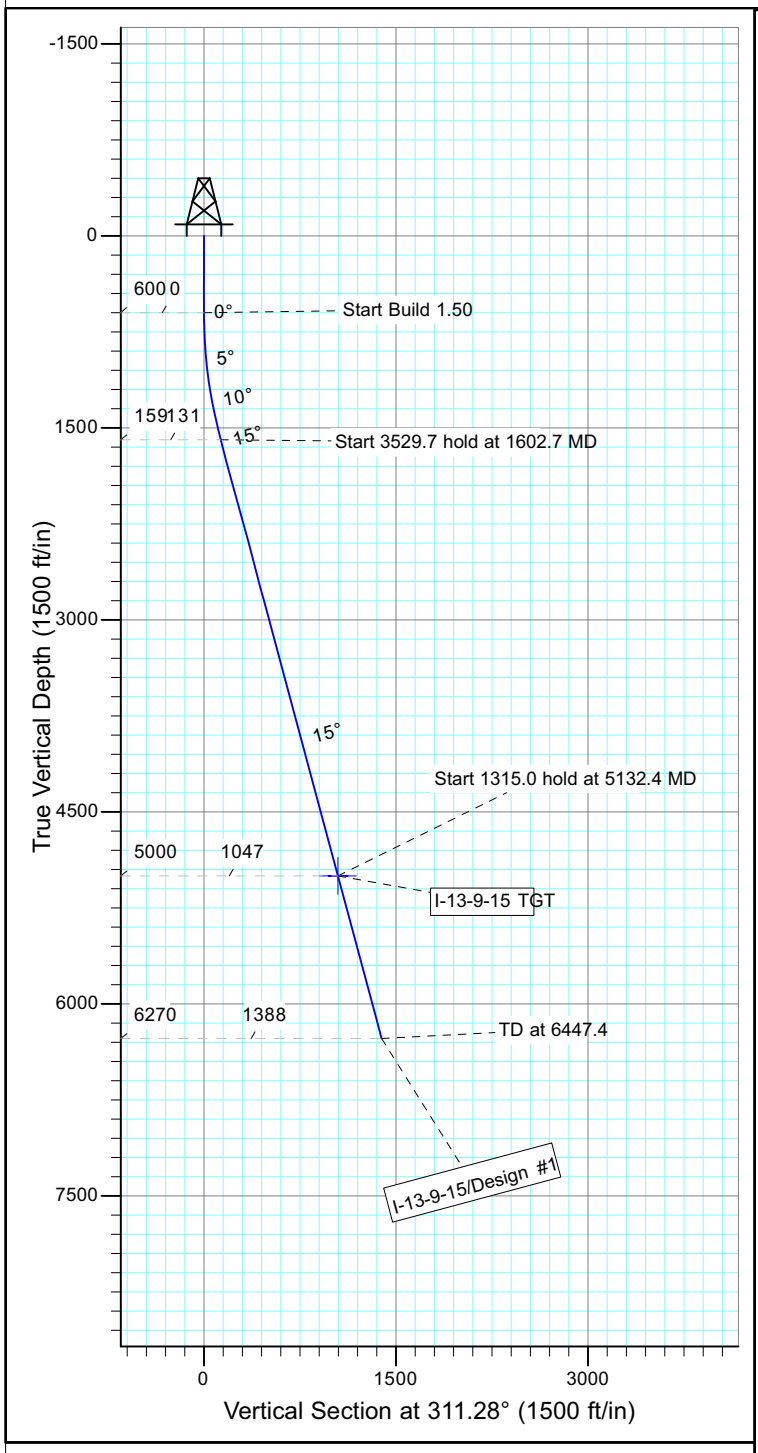
Project: USGS Myton SW (UT)
Site: SECTION 13 T9, R15
Well: I-13-9-15
Wellbore: Wellbore #1
Design: Design #1

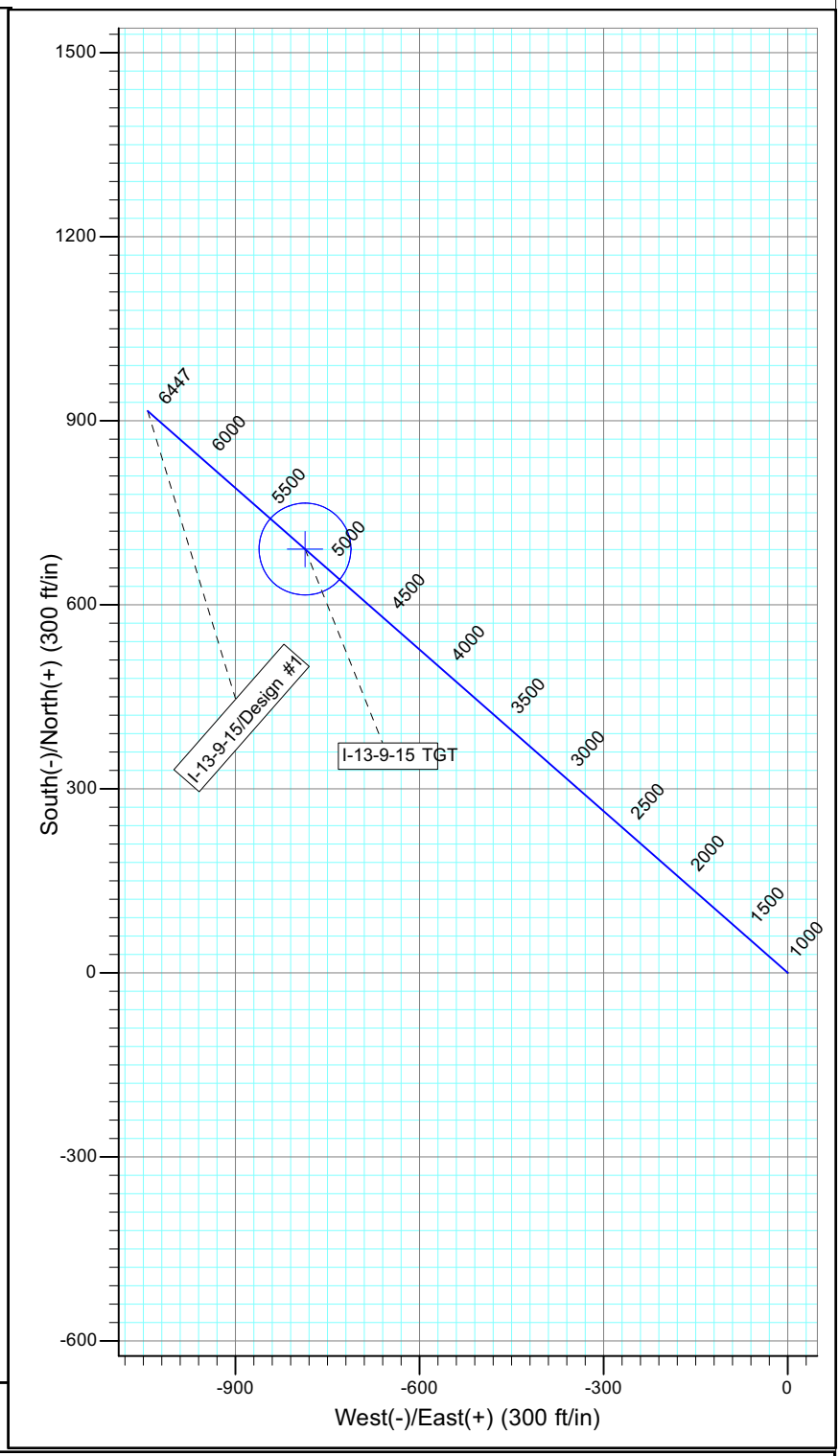
T M

Azimuths to True North
Magnetic North: 11.33°

Magnetic Field
Strength: 52228.0snT
Dip Angle: 65.76°
Date: 2011/08/11
Model: IGRF2010

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





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
I-13-9-15 TGT	5000.0	690.6	-786.7	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	1602.7	15.04	311.28	1591.2	86.3	-98.3	1.50	311.28	130.8	
4	5132.4	15.04	311.28	5000.0	690.6	-786.7	0.00	0.00	1046.8	I-13-9-15 TGT
5	6447.4	15.04	311.28	6270.0	915.7	-1043.1	0.00	0.00	1388.0	

PAYZONE DIRECTIONAL

API Well Number: 4301351090000

NEWFIELD

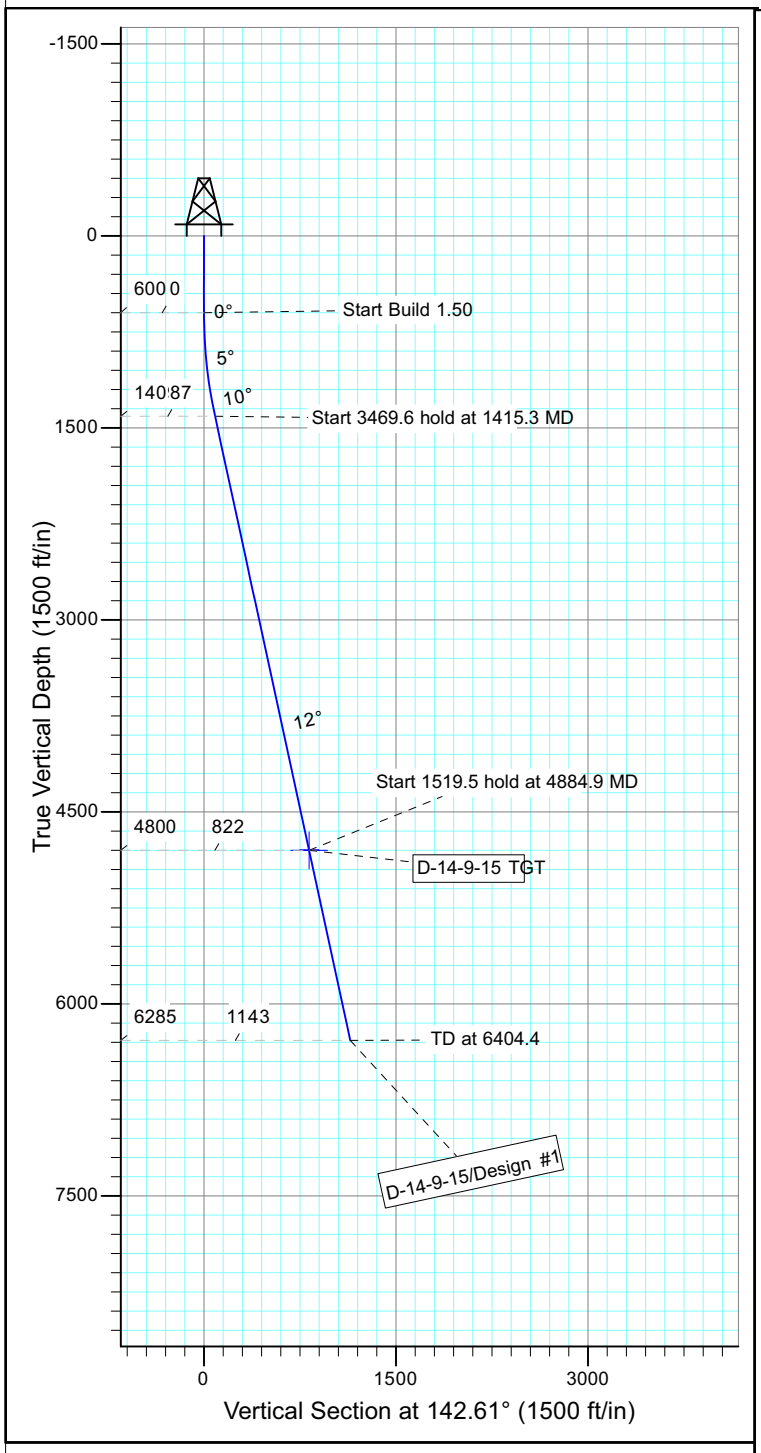
Project: USGS Myton SW (UT)
Site: SECTION 11 T 9S R15E
Well: D-14-9-15
Wellbore: Wellbore #1
Design: Design #1

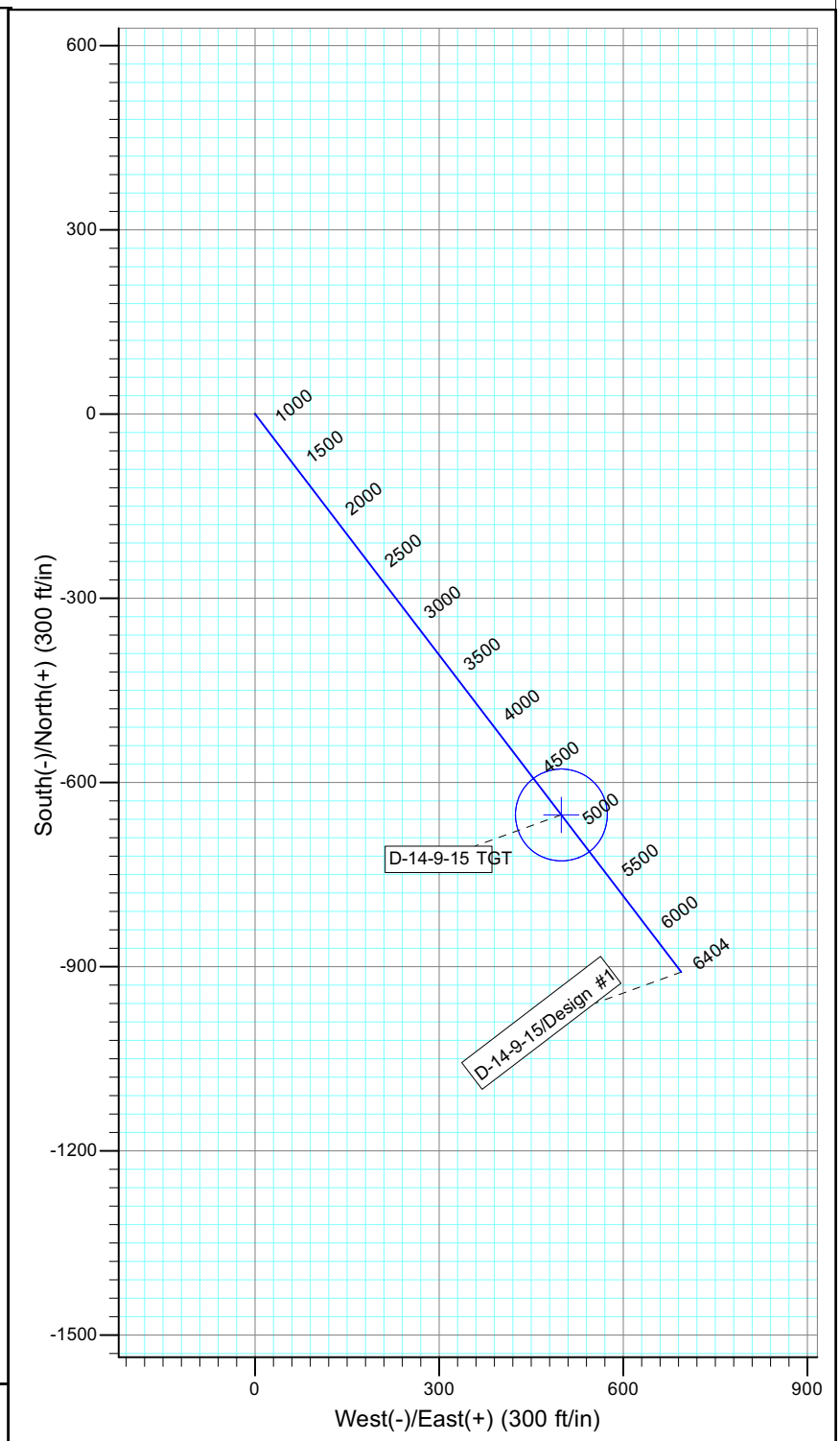
T M

Azimuths to True North
Magnetic North: 11.35°

Magnetic Field
Strength: 52226.8snT
Dip Angle: 65.76°
Date: 2011/08/11
Model: IGRF2010

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





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
D-14-9-15 TGT	4800.0	-652.8	498.9	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	1415.3	12.23	142.61	1409.1	-68.9	52.6	1.50	142.61	86.7	
4	4884.9	12.23	142.61	4800.0	-652.8	498.9	0.00	0.00	821.6	D-14-9-15 TGT
5	6404.4	12.23	142.61	6285.0	-908.5	694.4	0.00	0.00	1143.5	

PAYZONE DIRECTIONAL

API Well Number: 43013510980000

NEWFIELD

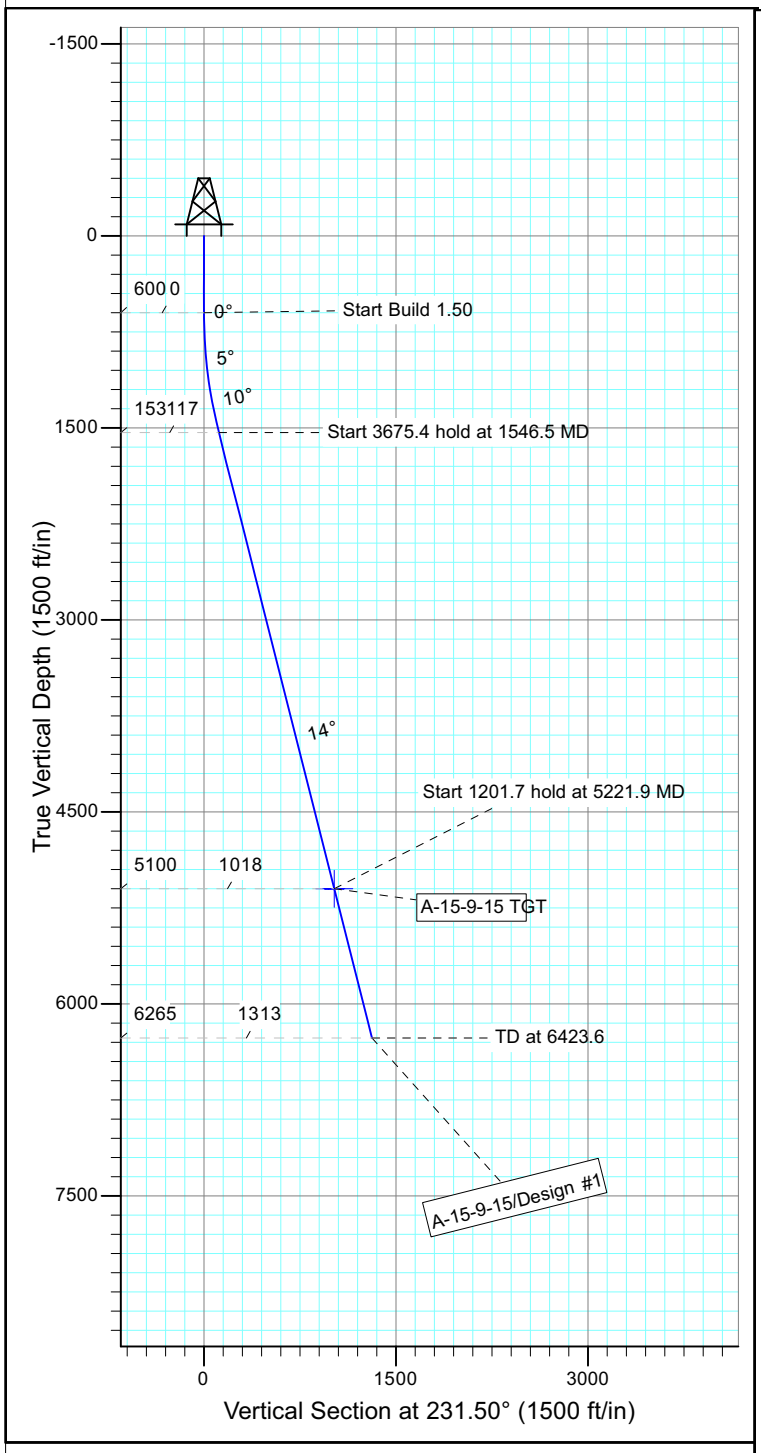
Project: USGS Myton SW (UT)
Site: SECTION 11 T 9S R15E
Well: A-15-9-15
Wellbore: Wellbore #1
Design: Design #1

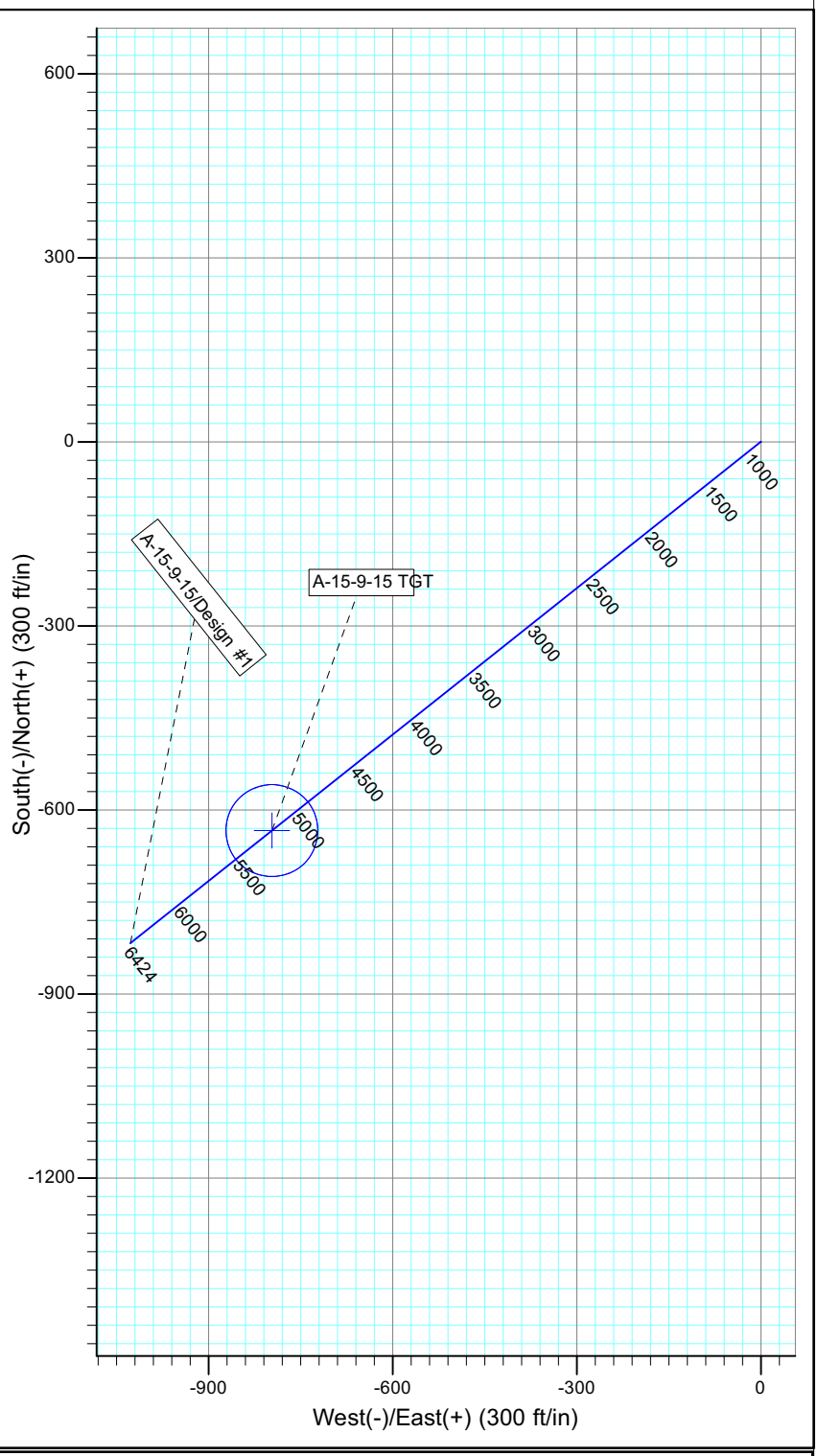
T M

Azimuths to True North
Magnetic North: 11.35°

Magnetic Field
Strength: 52226.7snT
Dip Angle: 65.76°
Date: 2011/08/11
Model: IGRF2010

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





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
A-15-9-15 TGT	5100.0	-633.8	-796.8	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1546.5	14.20	231.50	1536.8	-72.6	-91.3	1.50	231.50	116.7	
4	5221.9	14.20	231.50	5100.0	-633.8	-796.8	0.00	0.00	1018.1	A-15-9-15 TGT
5	6423.6	14.20	231.50	6265.0	-817.3	-1027.5	0.00	0.00	1312.9	

PAYZONE DIRECTIONAL

API Well Number: 43013510990000

NEWFIELD

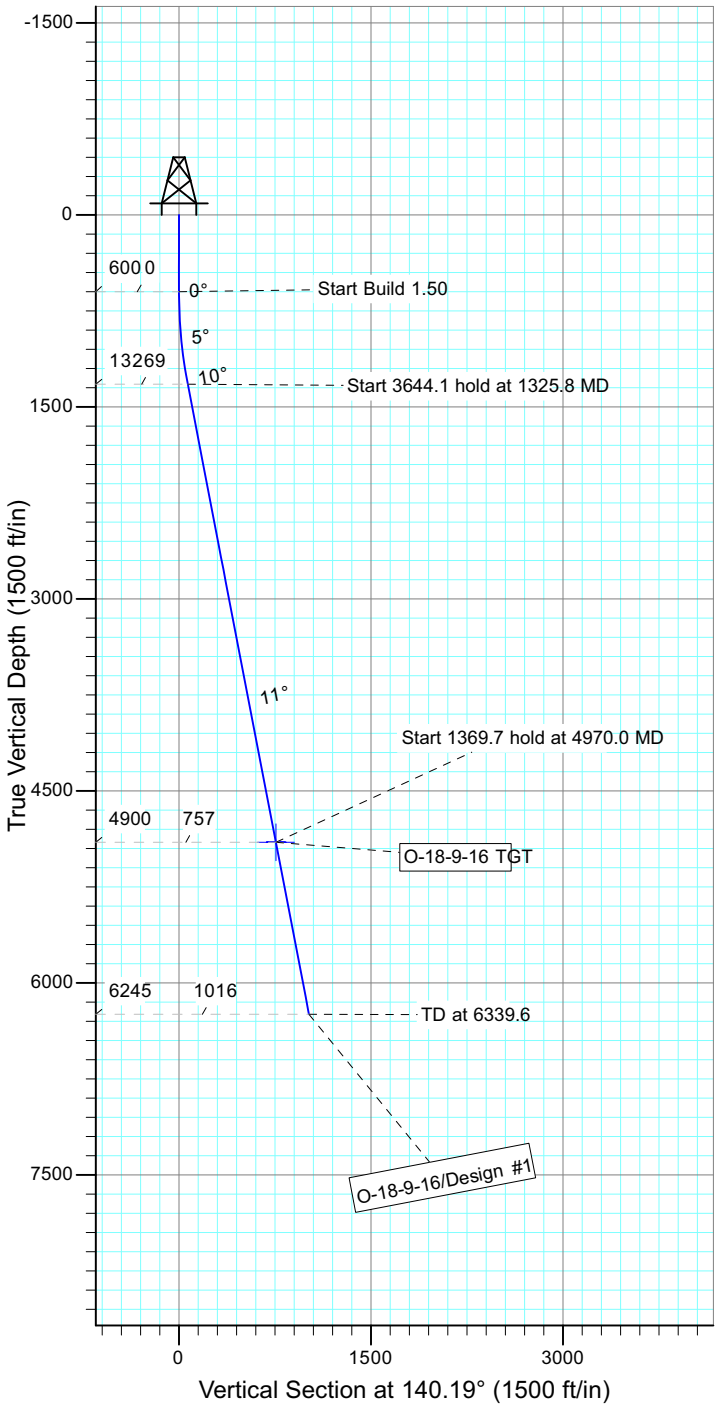
Project: USGS Myton SW (UT)
Site: SECTION 13 T9, R15
Well: O-18-9-16
Wellbore: Wellbore #1
Design: Design #1

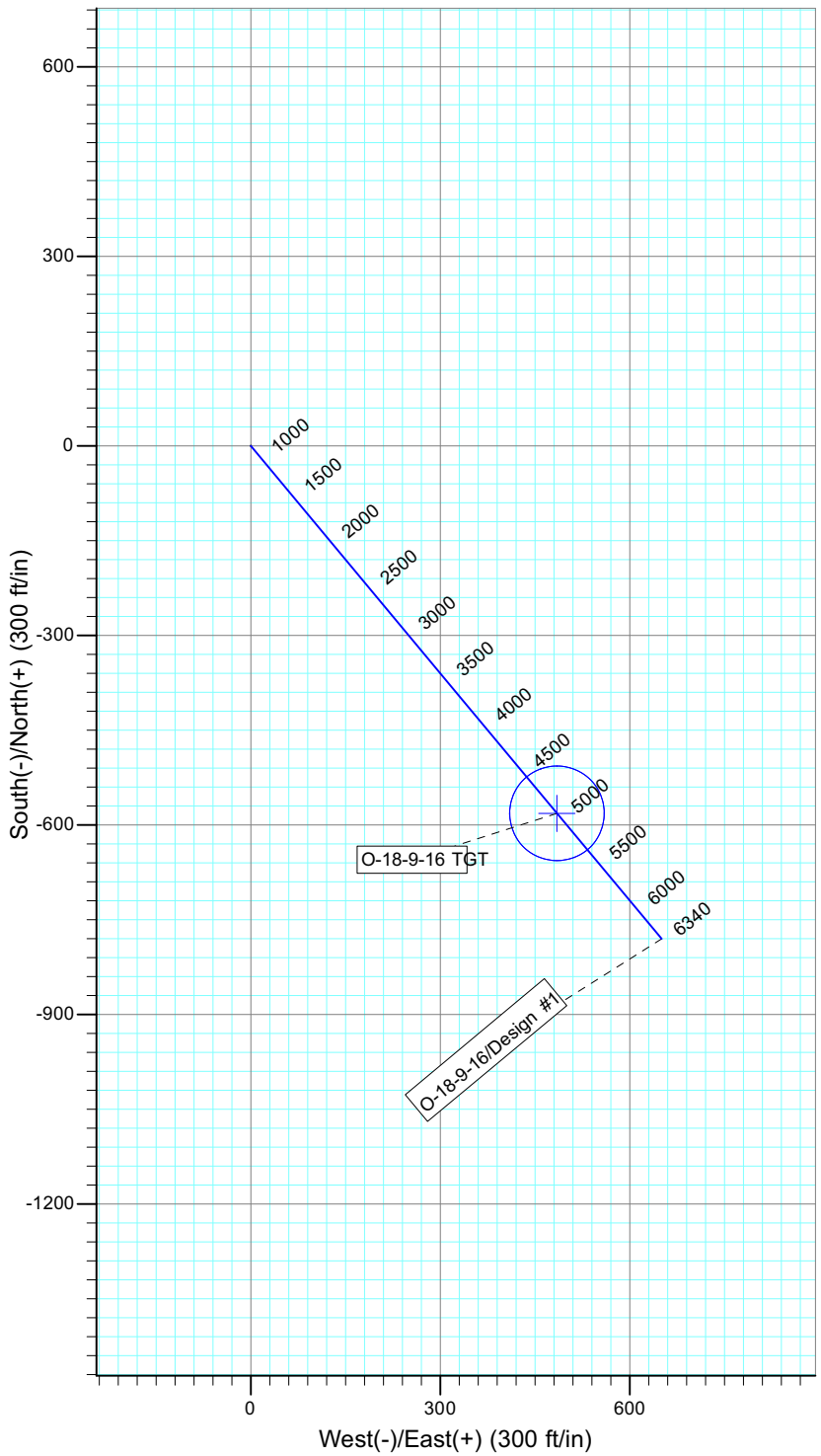
T M

Azimuths to True North
Magnetic North: 11.33°

Magnetic Field
Strength: 52228.0snT
Dip Angle: 65.76°
Date: 2011/08/11
Model: IGRF2010

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





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
O-18-9-16 TGT	4900.0	-581.6	484.7	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	1325.8	10.89	140.19	1321.5	-52.8	44.0	1.50	140.19	68.8	
4	4970.0	10.89	140.19	4900.0	-581.6	484.7	0.00	0.00	757.1	O-18-9-16 TGT
5	6339.6	10.89	140.19	6245.0	-780.3	650.3	0.00	0.00	1015.8	

PAYZONE DIRECTIONAL

API Well Number: 43013510900000

NEWFIELD

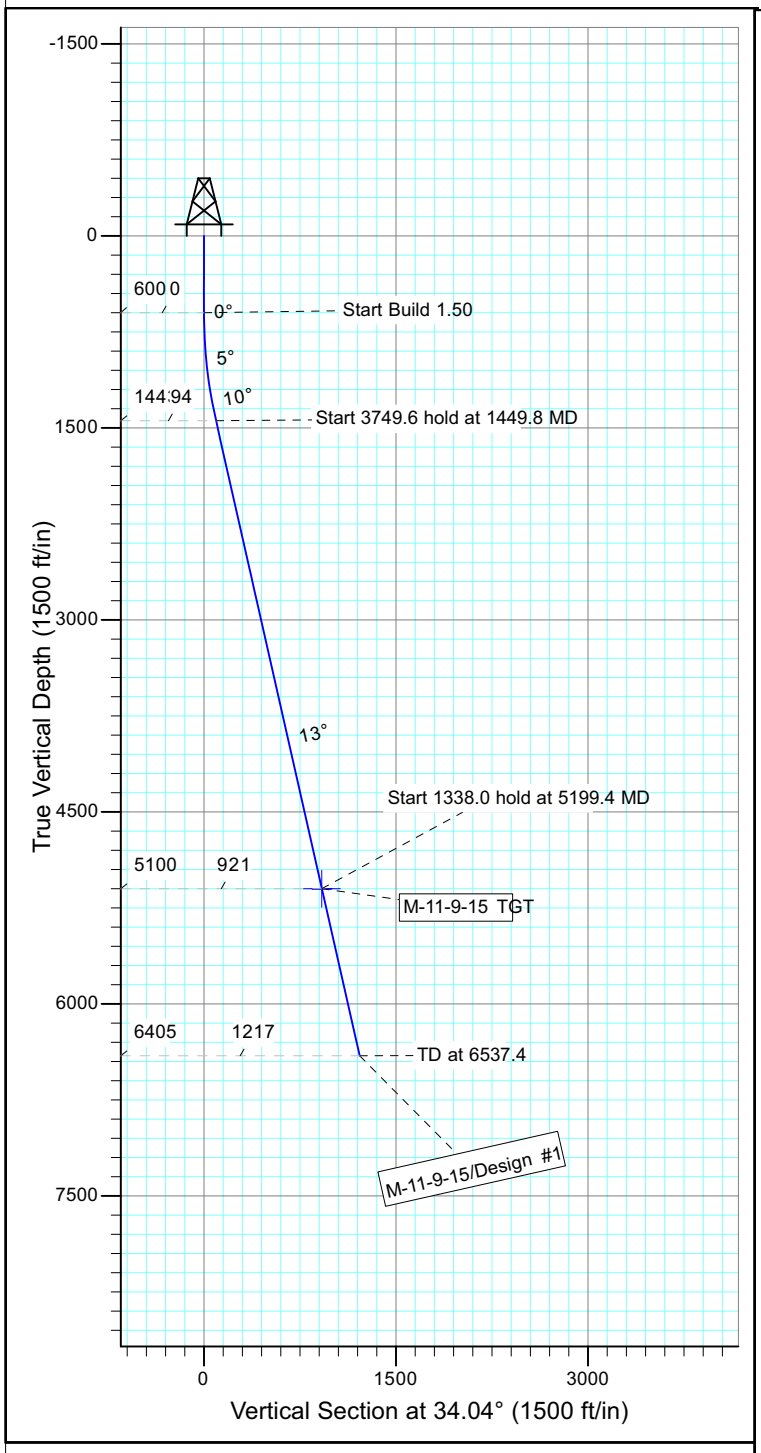
Project: USGS Myton SW (UT)
Site: SECTION 11 T 9S R15E
Well: M-11-9-15
Wellbore: Wellbore #1
Design: Design #1

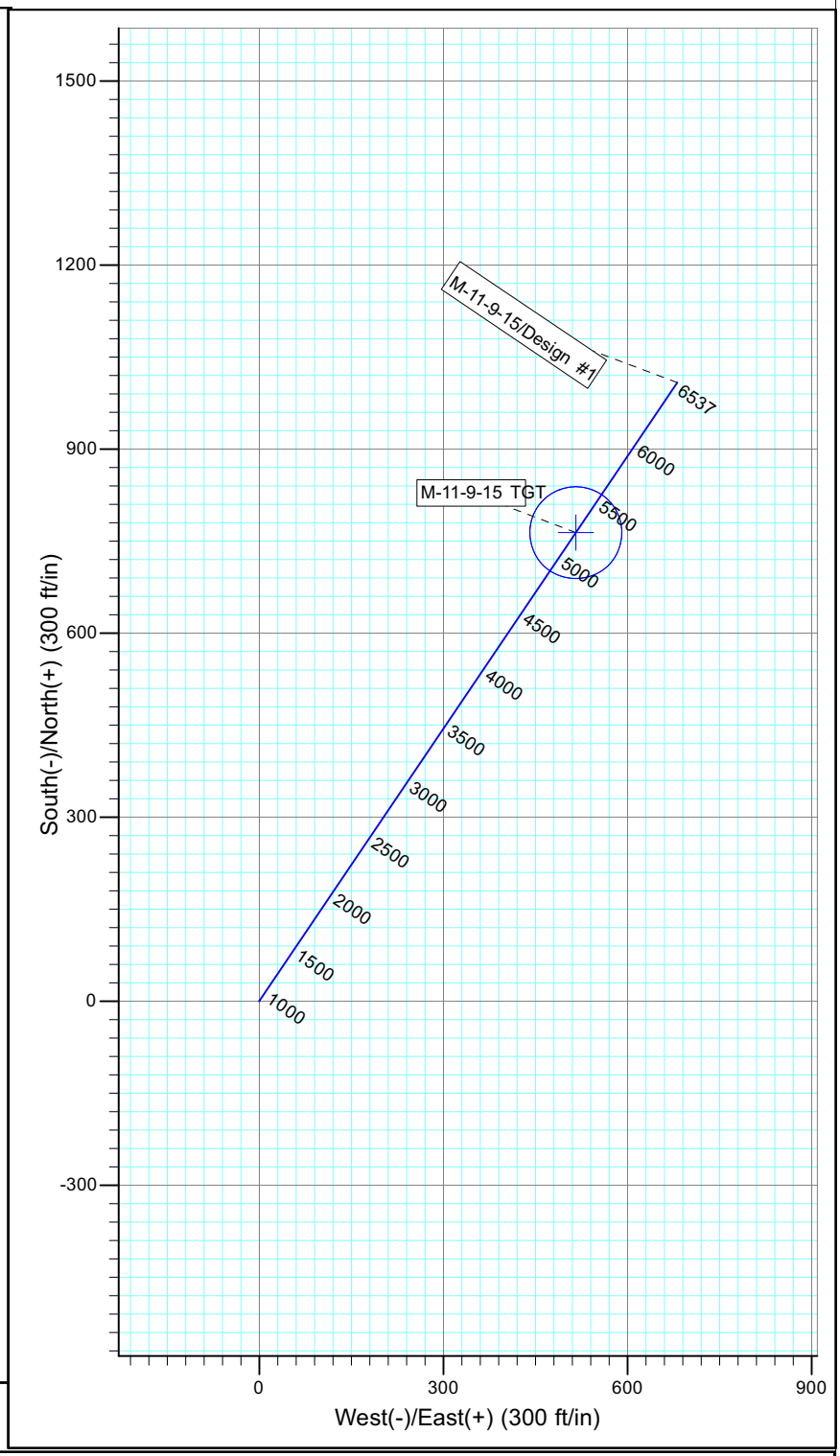
T M

Azimuths to True North
Magnetic North: 11.35°

Magnetic Field
Strength: 52229.1snT
Dip Angle: 65.76°
Date: 2011/08/11
Model: IGRF2010

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





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
M-11-9-15 TGT	5100.0	763.5	515.8	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1449.8	12.75	34.04	1442.8	78.0	52.7	1.50	34.04	94.1	
4	5199.4	12.75	34.04	5100.0	763.5	515.8	0.00	0.00	921.4	M-11-9-15 TGT
5	6537.4	12.75	34.04	6405.0	1008.2	681.1	0.00	0.00	1216.6	

PAYZONE DIRECTIONAL

API Well Number: 4301351090000

NEWFIELD

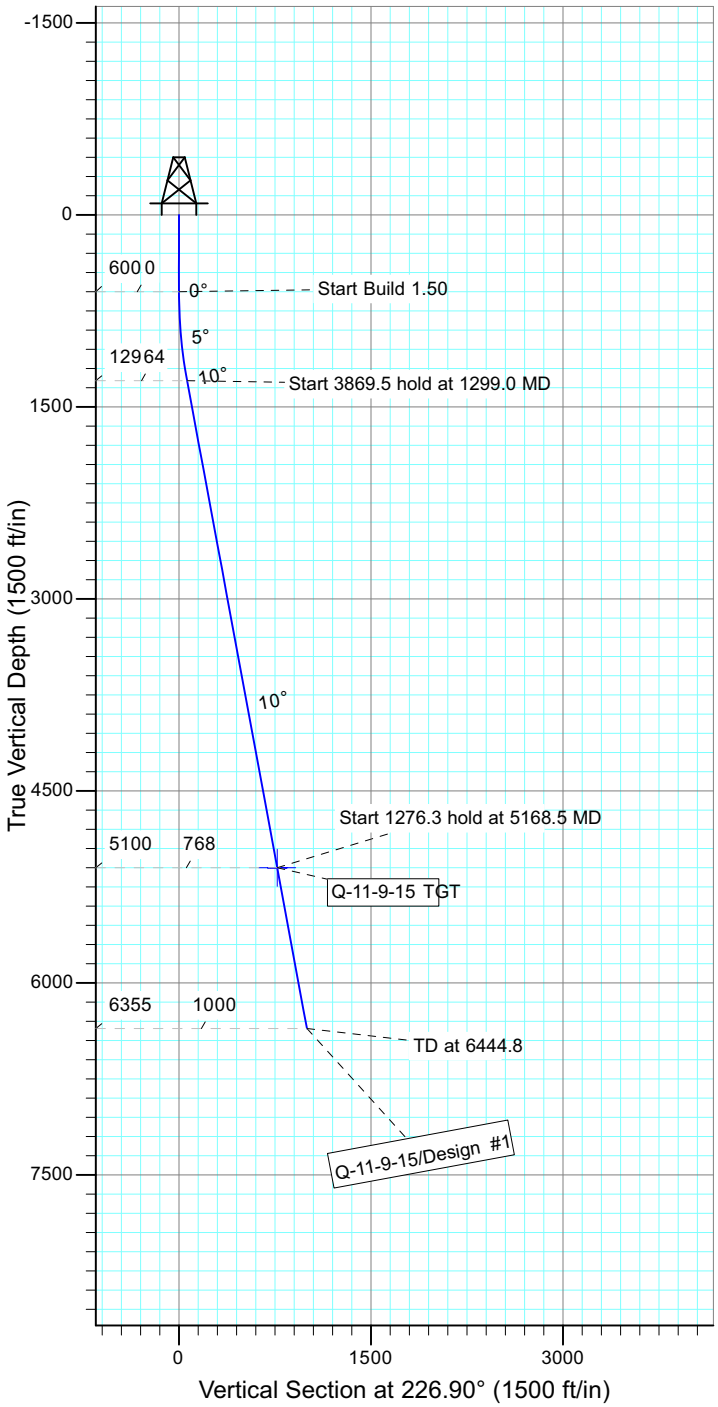
Project: USGS Myton SW (UT)
Site: SECTION 11 T 9S R15E
Well: Q-11-9-15
Wellbore: Wellbore #1
Design: Design #1

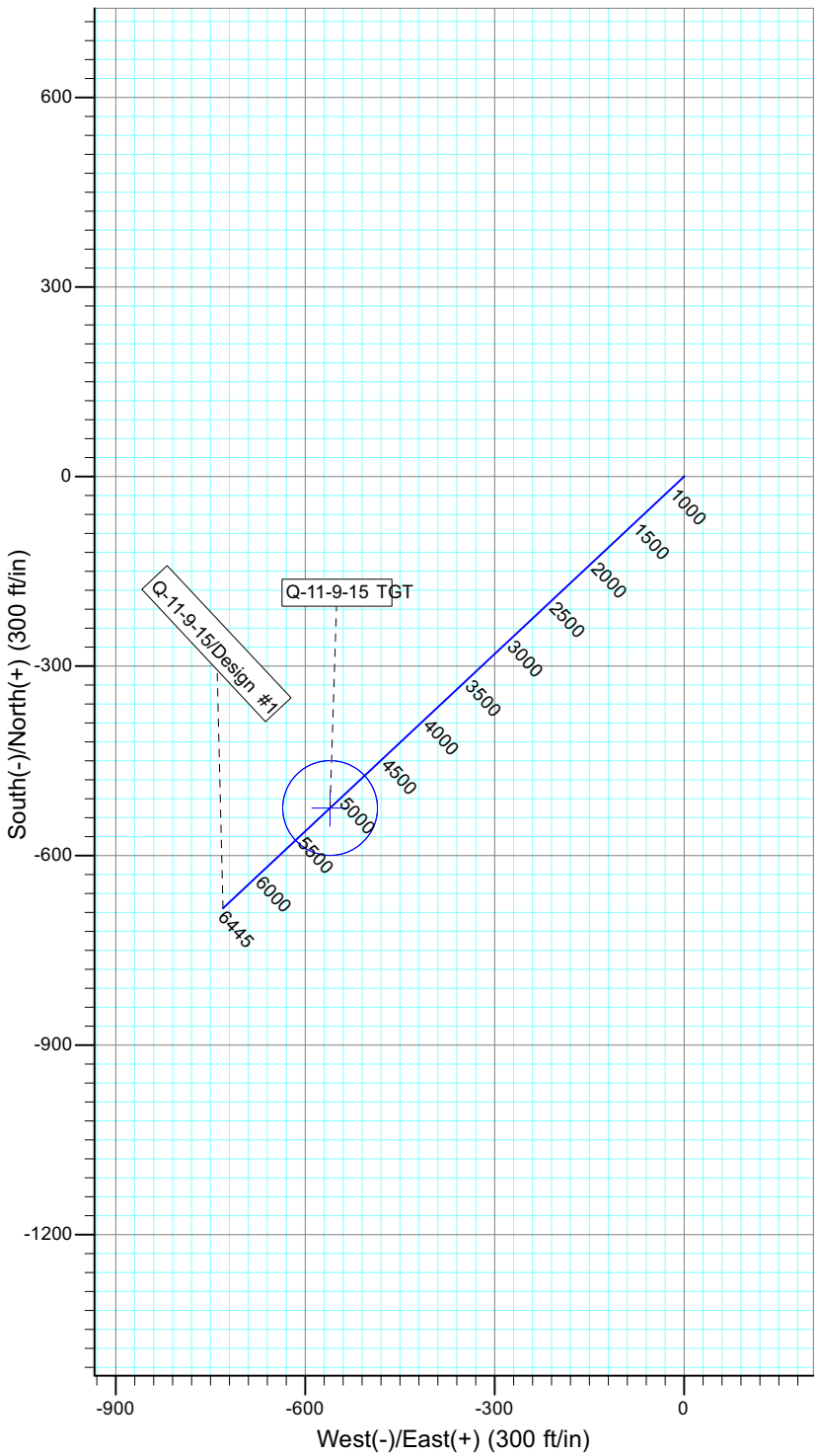
T M

Azimuths to True North
Magnetic North: 11.35°

Magnetic Field
Strength: 52229.2snT
Dip Angle: 65.76°
Date: 2011/08/11
Model: IGRF2010

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





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
Q-11-9-15 TGT	5100.0	-524.7	-560.7	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	1299.0	10.48	226.90	1295.1	-43.6	-46.6	1.50	226.90	63.8	
4	5168.5	10.48	226.90	5100.0	-524.7	-560.7	0.00	0.00	767.9	Q-11-9-15 TGT
5	6444.8	10.48	226.90	6355.0	-683.4	-730.3	0.00	0.00	1000.2	

PAYZONE DIRECTIONAL

API Well Number: 43013510990000

NEWFIELD

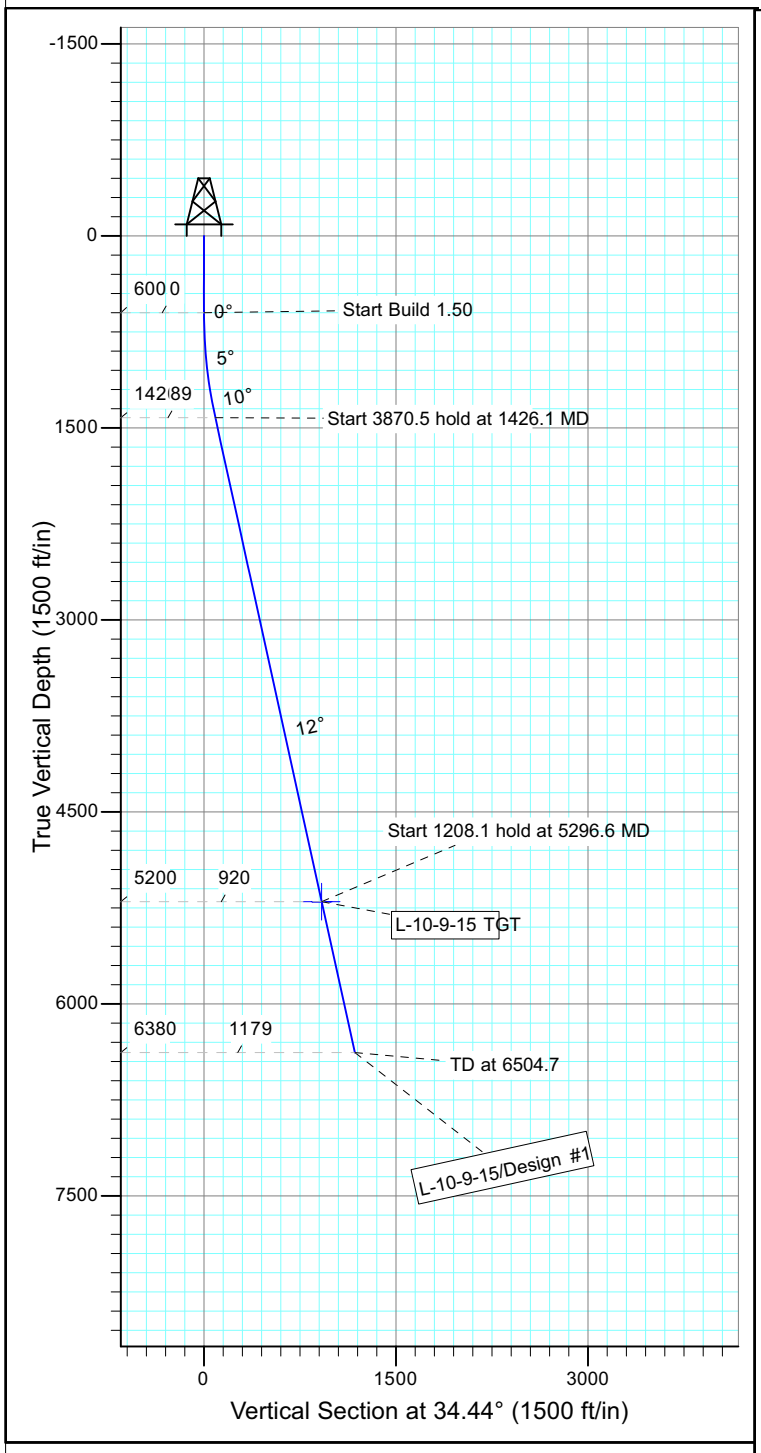
Project: USGS Myton SW (UT)
Site: SECTION 10 T9S, R15E
Well: L-10-9-15
Wellbore: Wellbore #1
Design: Design #1

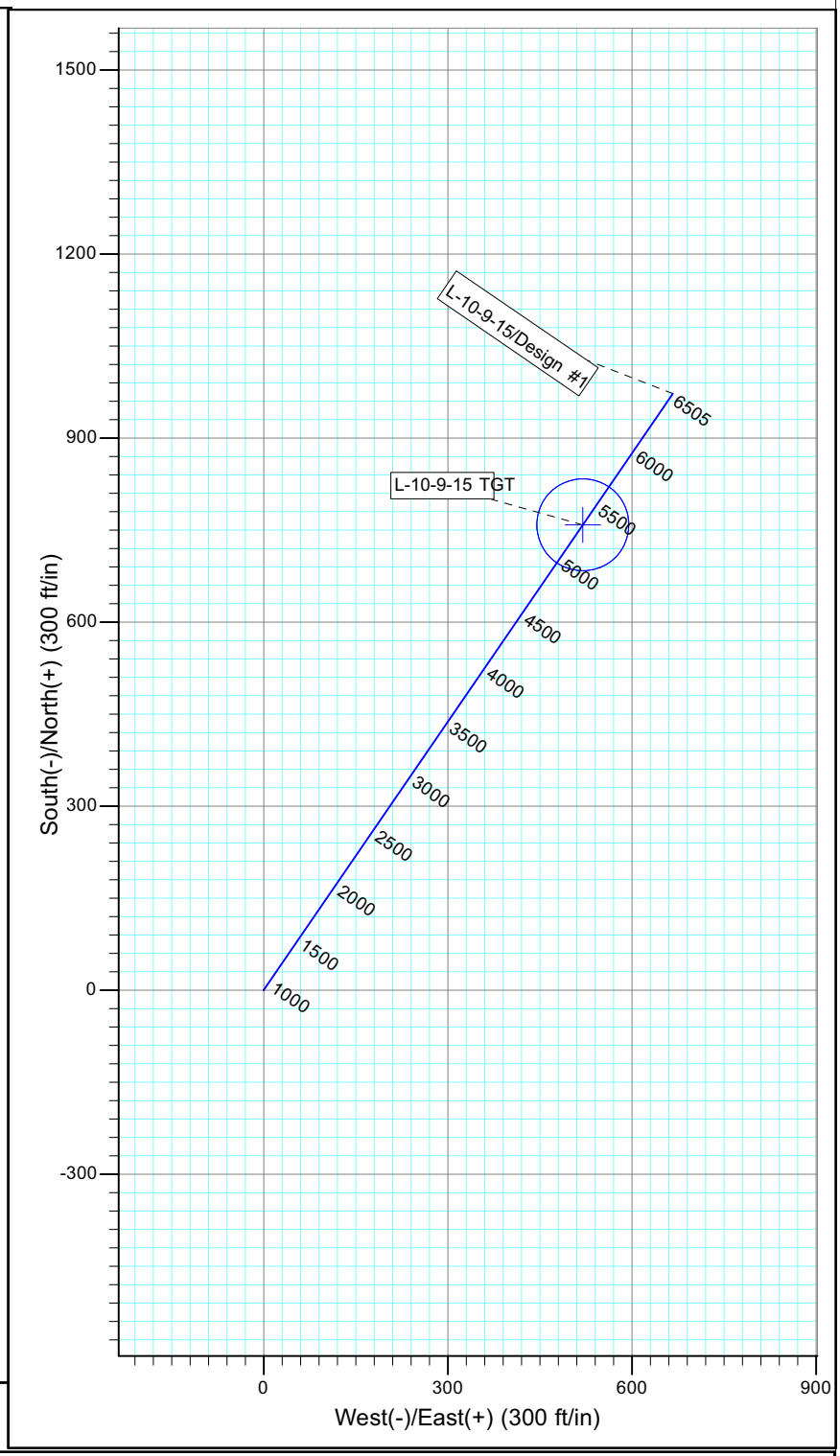
T M

Azimuths to True North
Magnetic North: 11.35°

Magnetic Field
Strength: 52227.1snT
Dip Angle: 65.76°
Date: 2011/08/11
Model: IGRF2010

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





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
L-10-9-15 TGT	5200.0	758.4	520.0	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	1426.1	12.39	34.44	1419.7	73.4	50.3	1.50	34.44	89.0	
4	5296.6	12.39	34.44	5200.0	758.4	520.0	0.00	0.00	919.6	L-10-9-15 TGT
5	6504.7	12.39	34.44	6380.0	972.2	666.6	0.00	0.00	1178.8	

PAYZONE DIRECTIONAL

API Well Number: 4301351090000

NEWFIELD

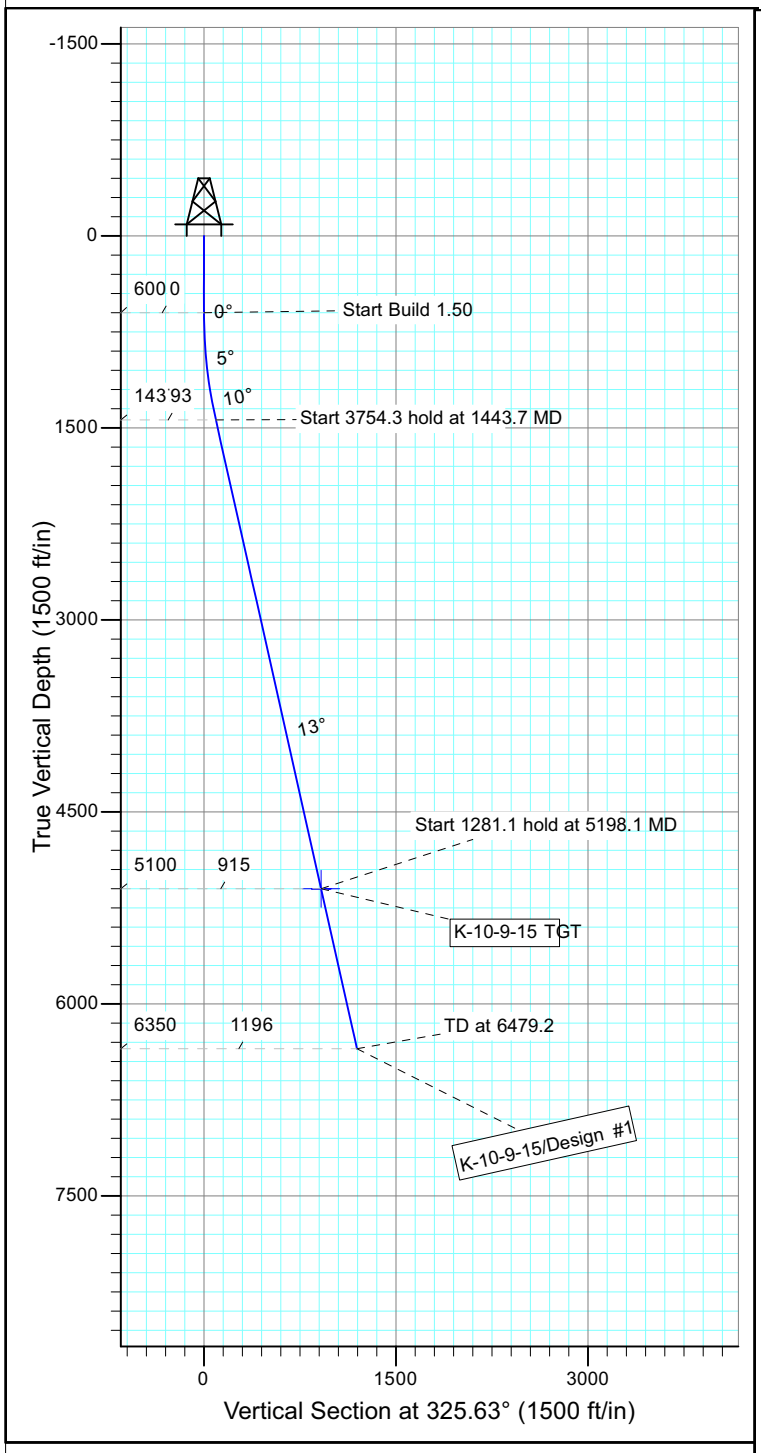
Project: USGS Myton SW (UT)
Site: SECTION 11 T 9S R15E
Well: K-10-9-15
Wellbore: Wellbore #1
Design: Design #1

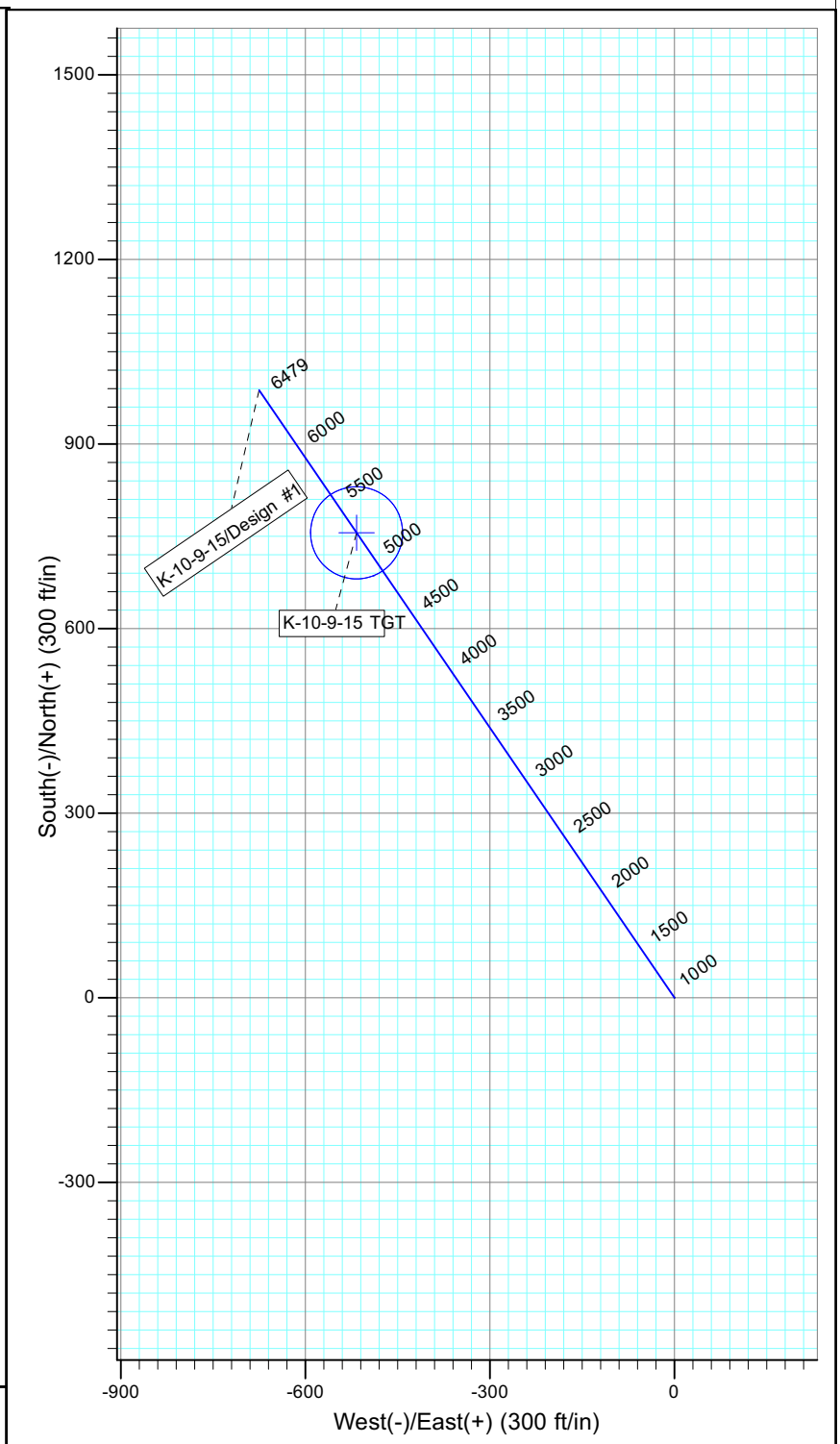
T M

Azimuths to True North
Magnetic North: 11.35°

Magnetic Field
Strength: 52228.4snT
Dip Angle: 65.76°
Date: 2011/08/11
Model: IGRF2010

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





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
K-10-9-15 TGT	5100.0	755.6	-516.8	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1443.7	12.66	325.63	1436.9	76.6	-52.4	1.50	325.63	92.8	
4	5198.1	12.66	325.63	5100.0	755.6	-516.8	0.00	0.00	915.4	K-10-9-15 TGT
5	6479.2	12.66	325.63	6350.0	987.3	-675.2	0.00	0.00	1196.1	

PAYZONE DIRECTIONAL

API Well Number: 4301351090000

NEWFIELD

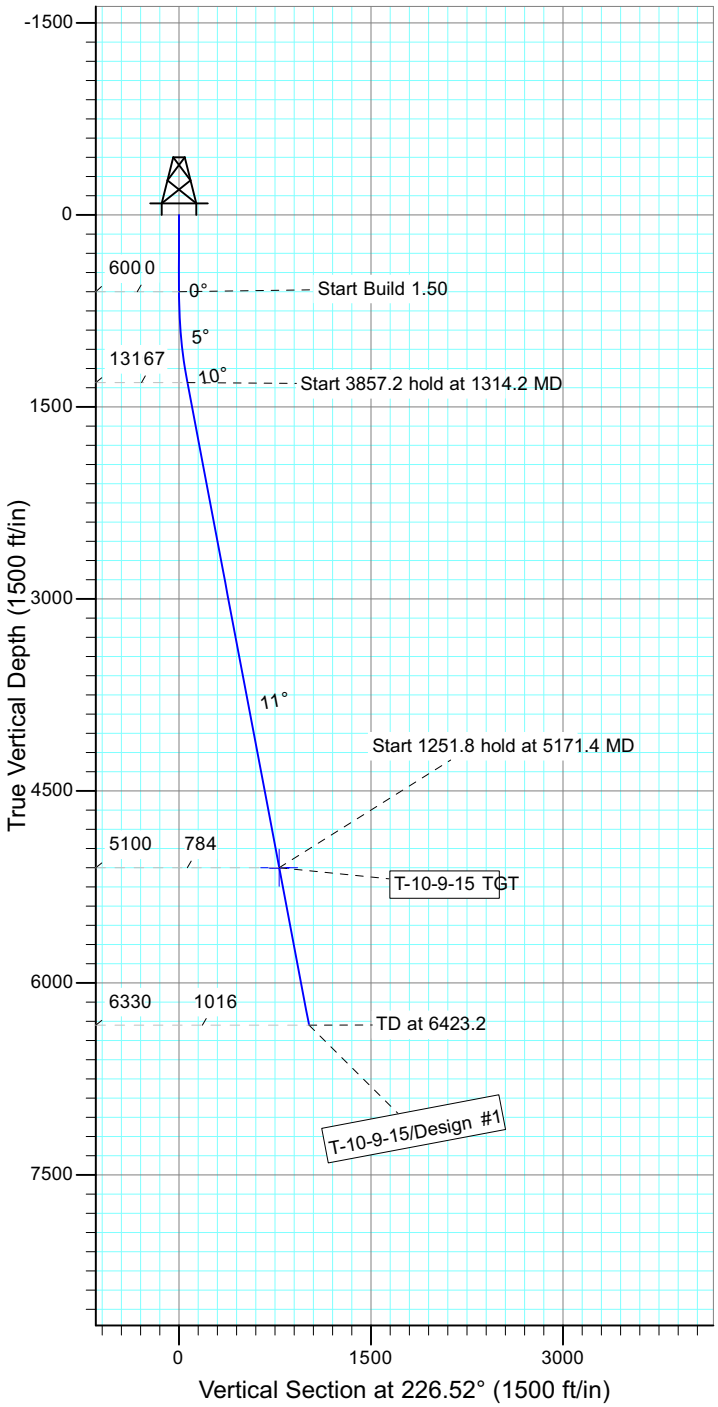
Project: USGS Myton SW (UT)
Site: SECTION 11 T 9S R15E
Well: T-10-9-15
Wellbore: Wellbore #1
Design: Design #1

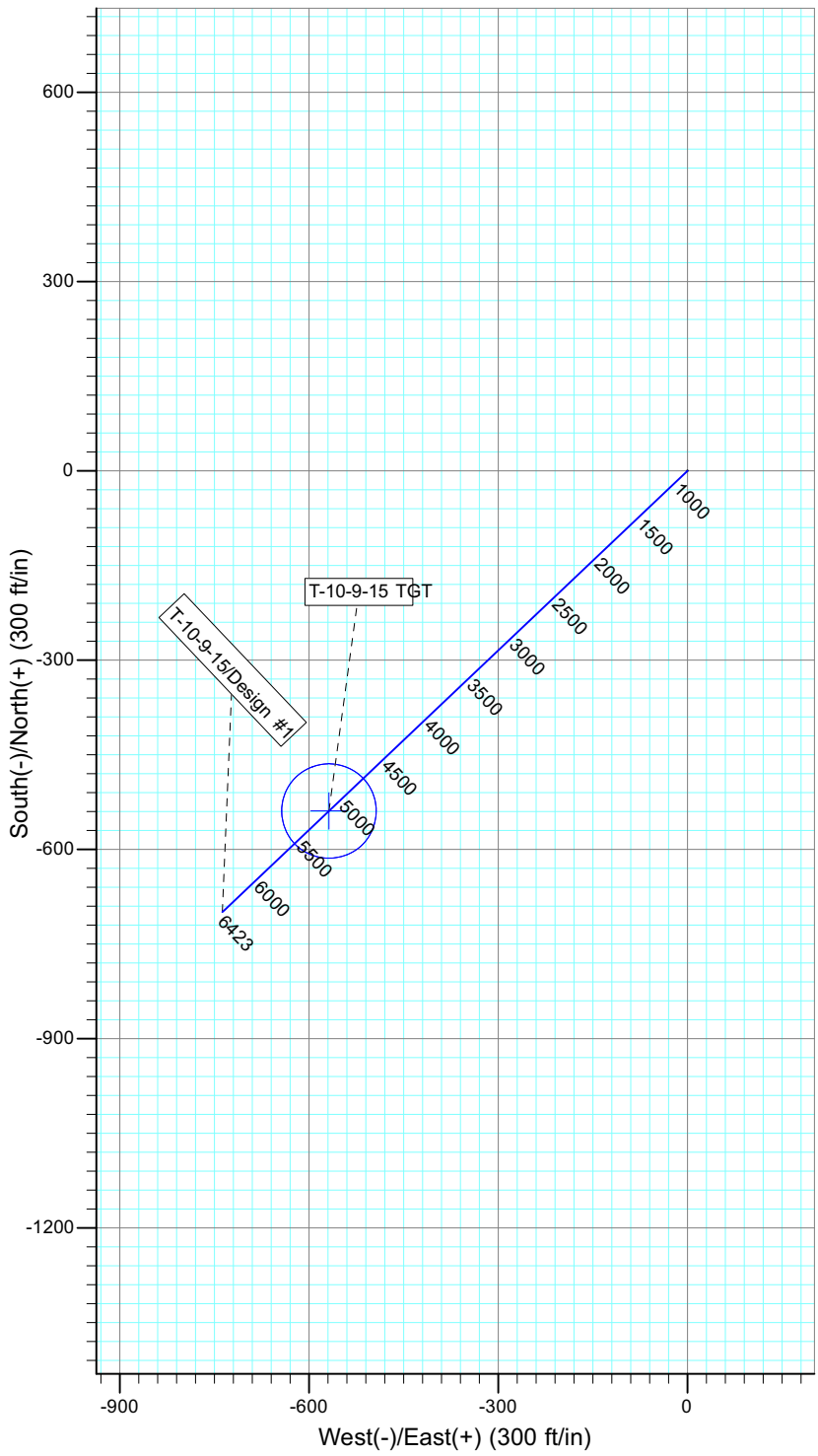
T M

Azimuths to True North
Magnetic North: 11.35°

Magnetic Field
Strength: 52228.4snT
Dip Angle: 65.76°
Date: 2011/08/11
Model: IGRF2010

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





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
T-10-9-15 TGT	5100.0	-539.2	-568.6	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	1314.2	10.71	226.52	1310.0	-45.8	-48.3	1.50	226.52	66.6	
4	5171.4	10.71	226.52	5100.0	-539.2	-568.6	0.00	0.00	783.6	T-10-9-15 TGT
5	6423.2	10.71	226.52	6330.0	-699.3	-737.4	0.00	0.00	1016.3	

PAYZONE DIRECTIONAL

API Well Number: 4301351092000

NEWFIELD

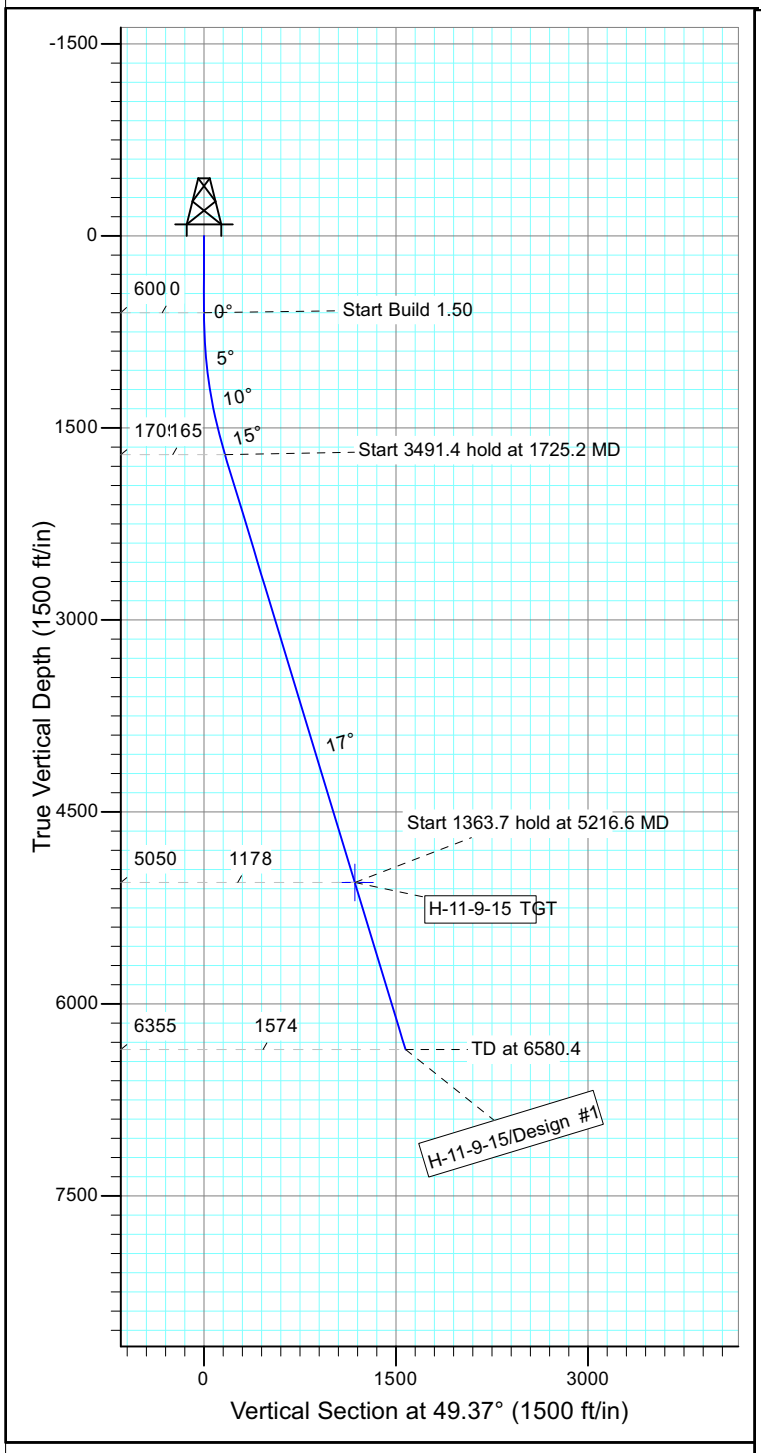
Project: USGS Myton SW (UT)
Site: SECTION 11 T 9S R15E
Well: H-11-9-15
Wellbore: Wellbore #1
Design: Design #1

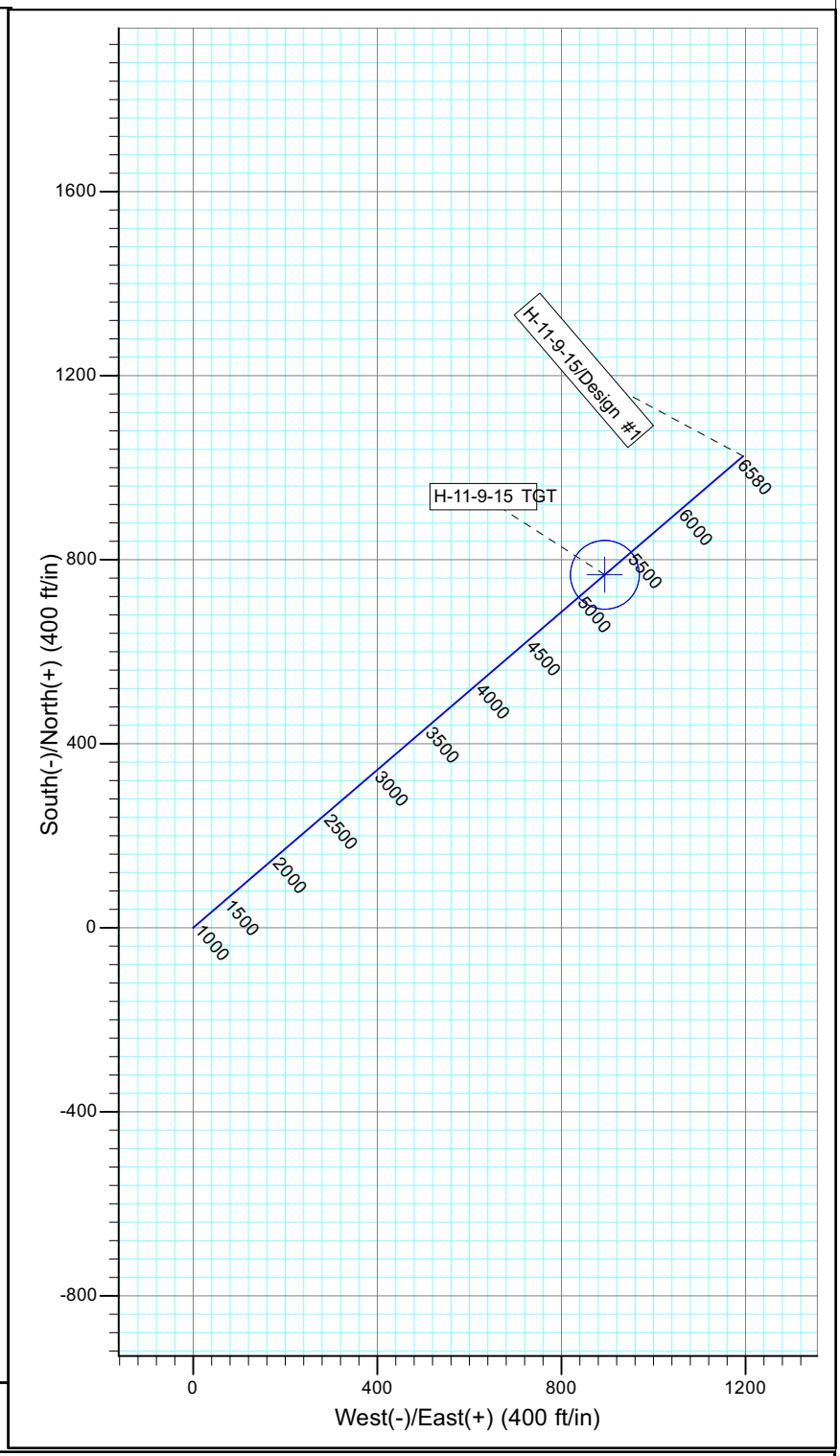
T M

Azimuths to True North
Magnetic North: 11.35°

Magnetic Field
Strength: 52231.9snT
Dip Angle: 65.77°
Date: 2011/08/11
Model: IGRF2010

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





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
H-11-9-15 TGT	5050.0	767.2	894.3	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1725.2	16.88	49.37	1709.0	107.1	124.9	1.50	49.37	164.5	
4	5216.6	16.88	49.37	5050.0	767.2	894.3	0.00	0.00	1178.2	H-11-9-15 TGT
5	6580.4	16.88	49.37	6355.0	1025.0	1194.8	0.00	0.00	1574.2	

PAYZONE DIRECTIONAL

API Well Number: 4301351093000000

NEWFIELD

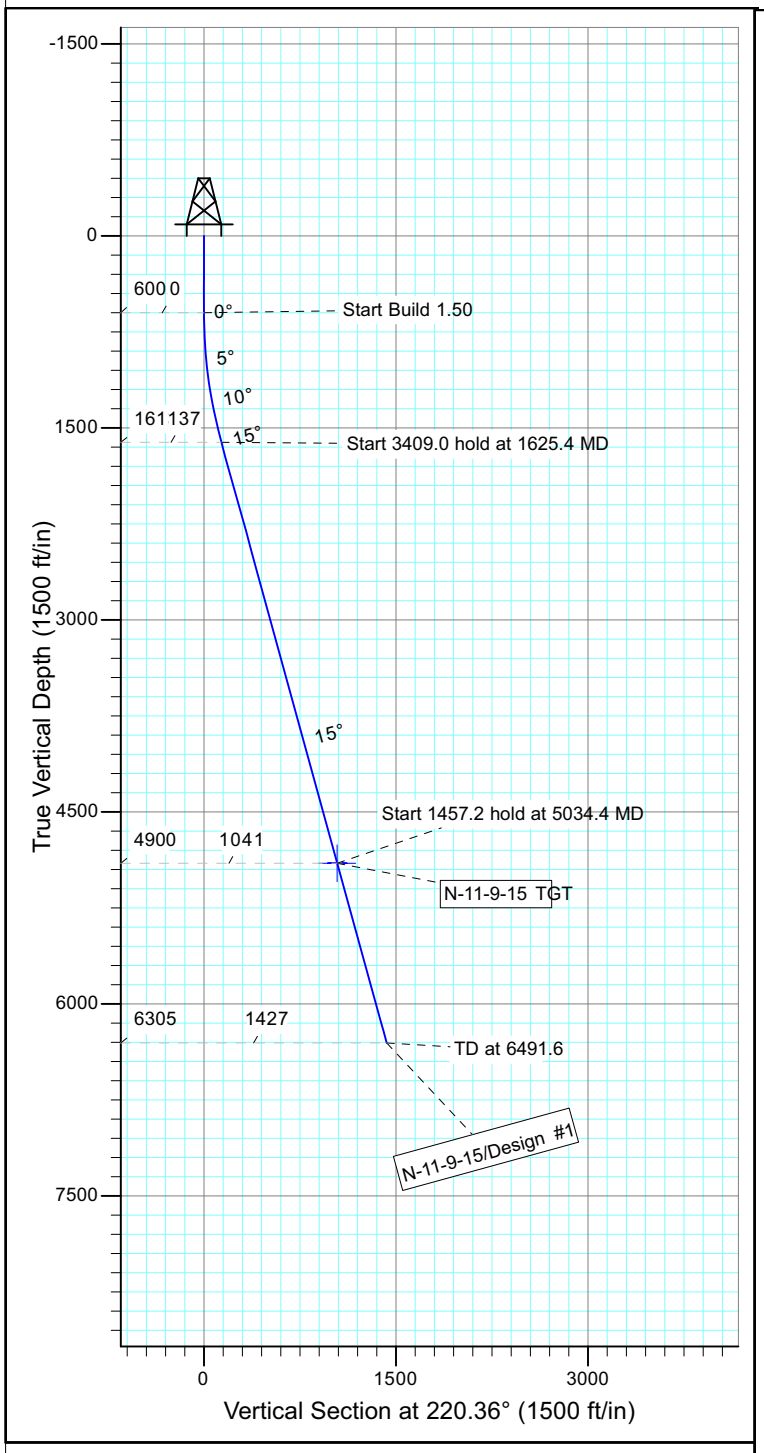
Project: USGS Myton SW (UT)
Site: SECTION 11 T 9S R15E
Well: N-11-9-15
Wellbore: Wellbore #1
Design: Design #1

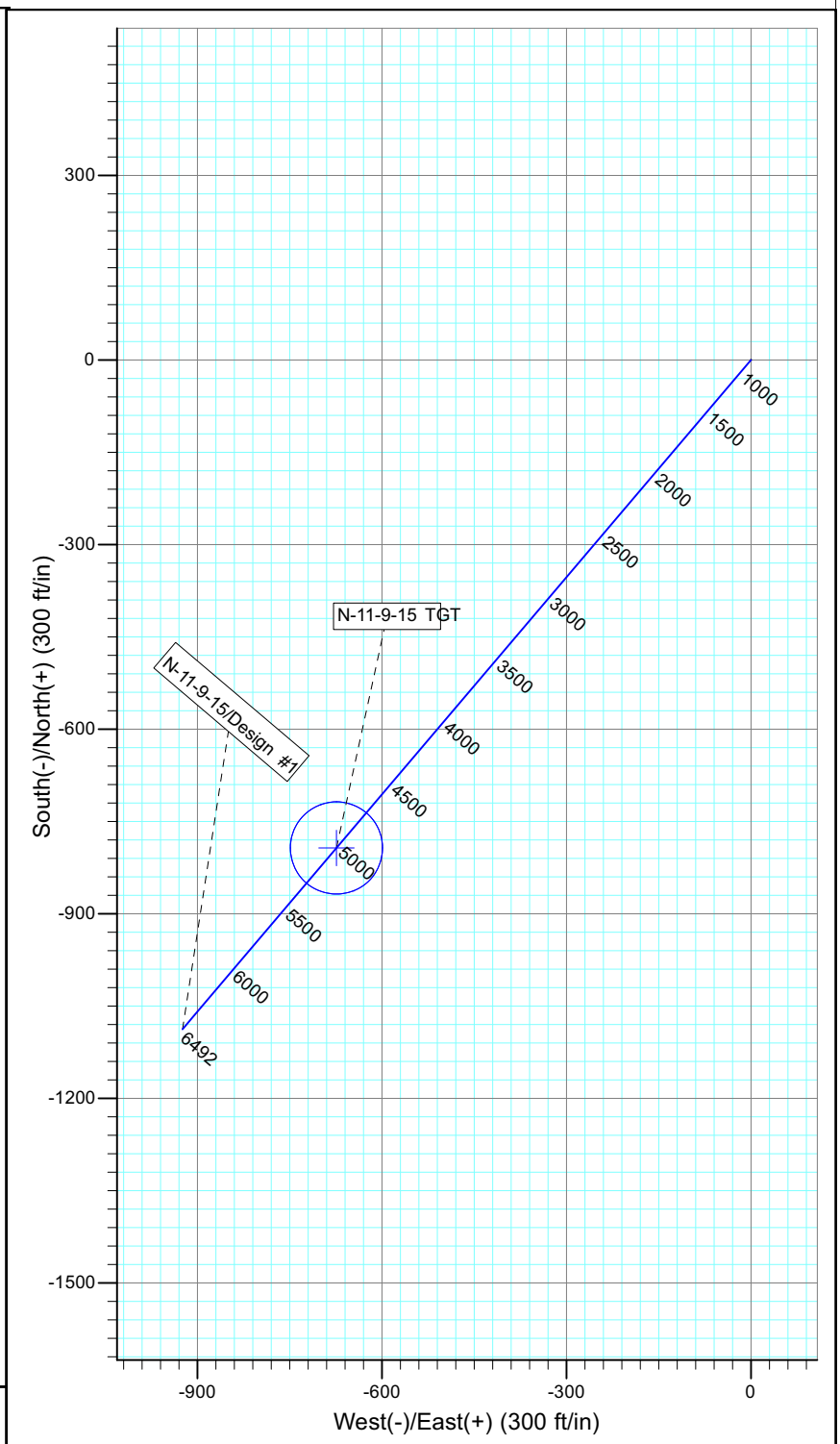
T M

Azimuths to True North
Magnetic North: 11.35°

Magnetic Field
Strength: 52231.9snT
Dip Angle: 65.77°
Date: 2011/08/11
Model: IGRF2010

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





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
N-11-9-15 TGT	4900.0	-793.2	-674.1	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1625.4	15.38	220.36	1613.1	-104.2	-88.6	1.50	220.36	136.8	
4	5034.4	15.38	220.36	4900.0	-793.2	-674.1	0.00	0.00	1041.0	N-11-9-15 TGT
5	6491.6	15.38	220.36	6305.0	-1087.7	-924.4	0.00	0.00	1427.5	

PAYZONE DIRECTIONAL

API Well Number: 4301351094000000

NEWFIELD

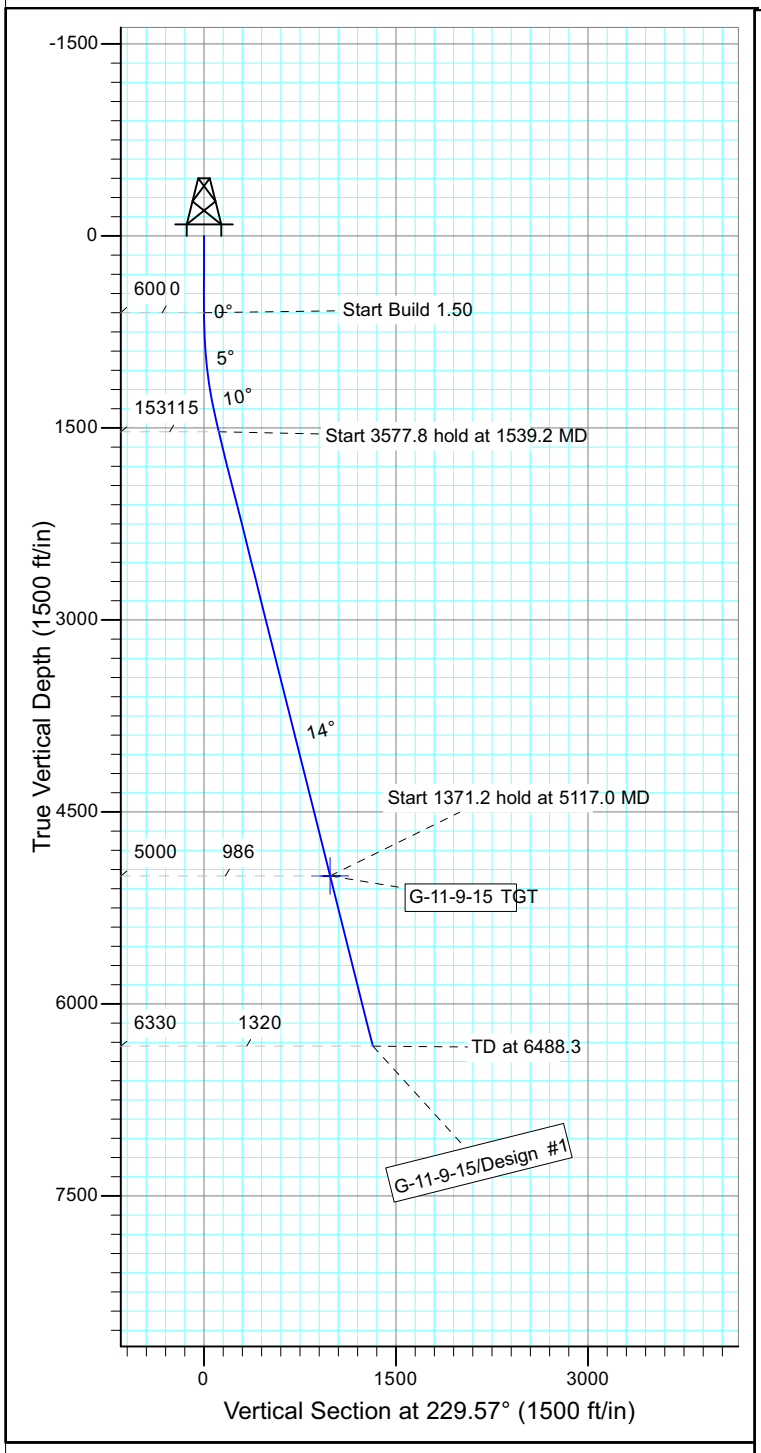
Project: USGS Myton SW (UT)
Site: SECTION 11 T 9S R15E
Well: G-11-9-15
Wellbore: Wellbore #1
Design: Design #1

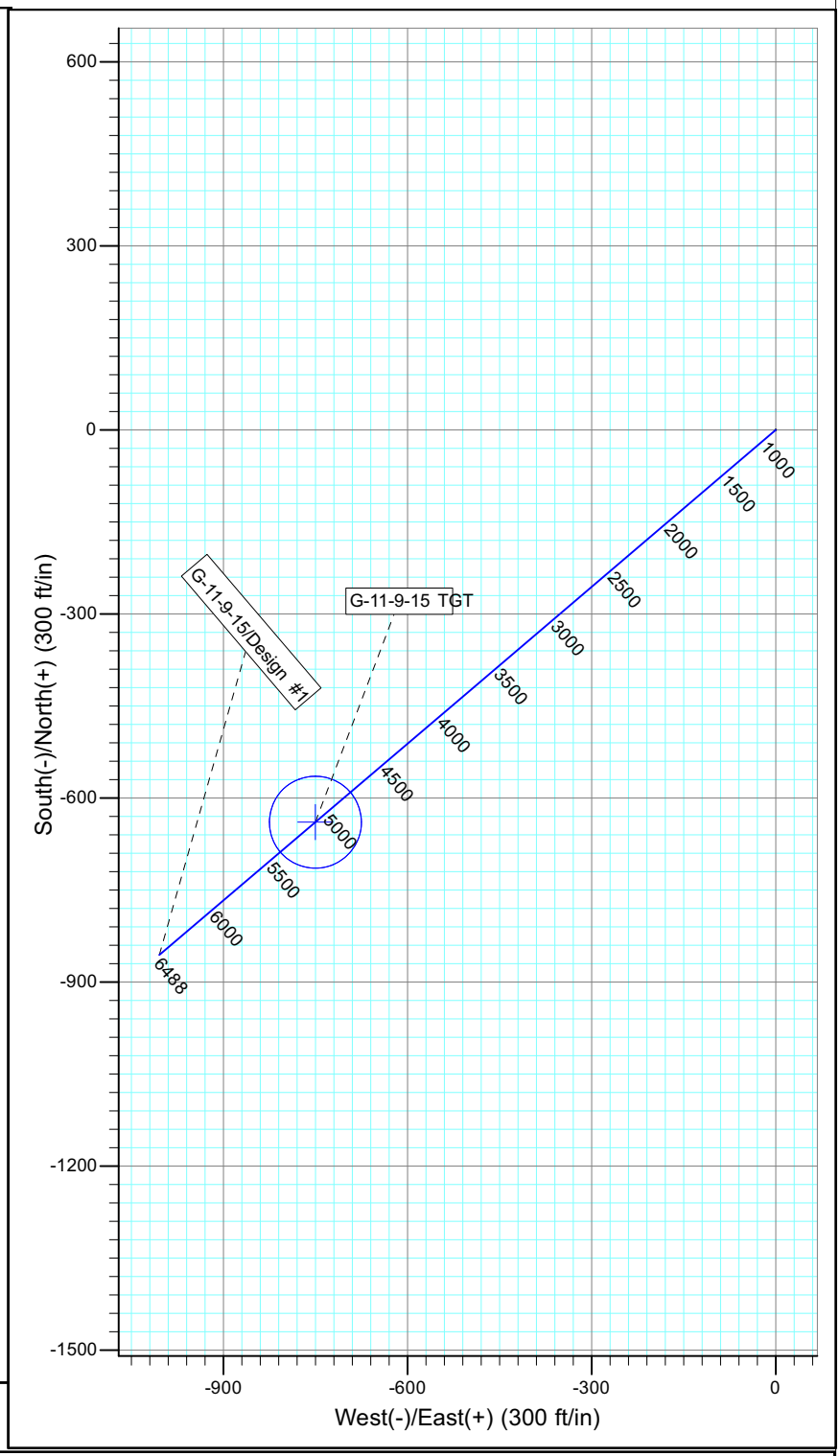
T M

Azimuths to True North
Magnetic North: 11.35°

Magnetic Field
Strength: 52233.7snT
Dip Angle: 65.77°
Date: 2011/08/11
Model: IGRF2010

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





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
G-11-9-15 TGT	5000.0	-639.3	-750.4	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1539.2	14.09	229.57	1529.8	-74.5	-87.4	1.50	229.57	114.9	
4	5117.0	14.09	229.57	5000.0	-639.3	-750.4	0.00	0.00	985.8	G-11-9-15 TGT
5	6488.3	14.09	229.57	6330.0	-855.7	-1004.4	0.00	0.00	1319.5	

PAYZONE DIRECTIONAL

API Well Number: 4301351095000

NEWFIELD

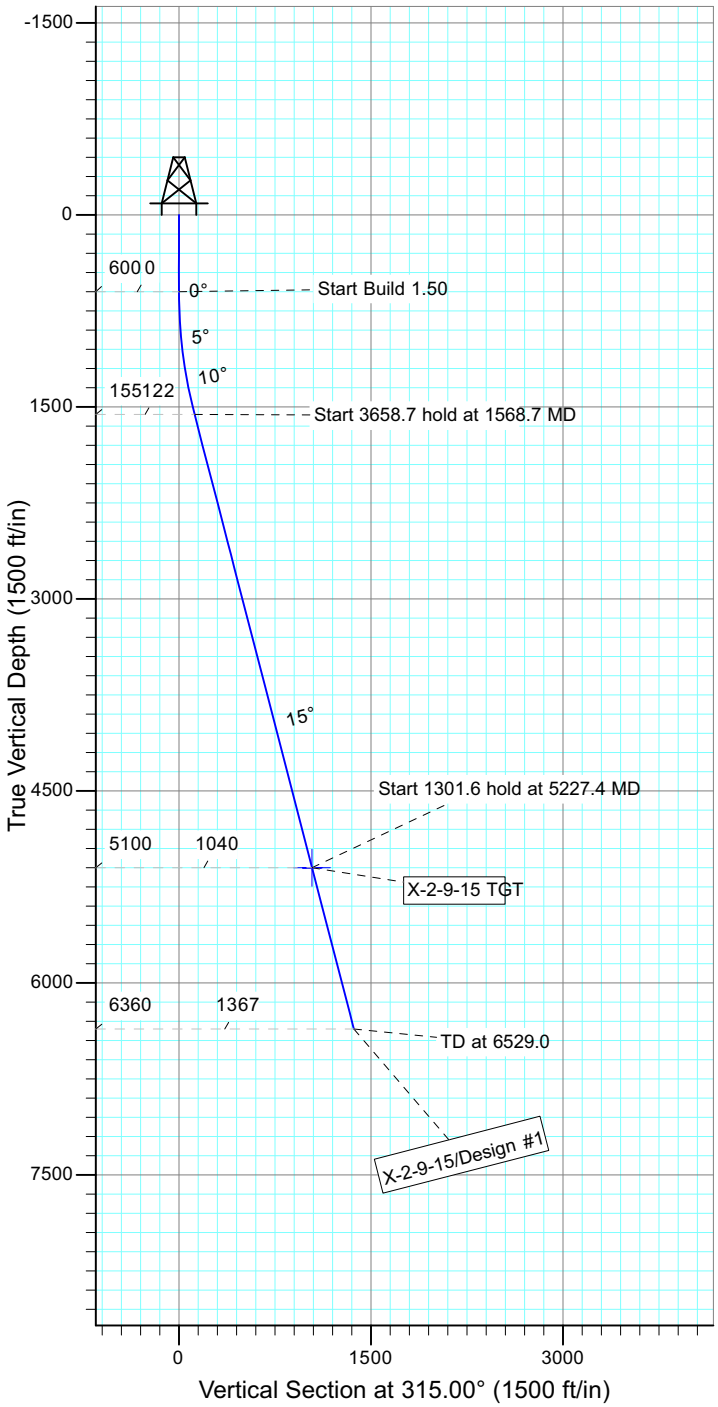
Project: USGS Myton SW (UT)
Site: SECTION 11 T 9S R15E
Well: X-2-9-15
Wellbore: Wellbore #1
Design: Design #1

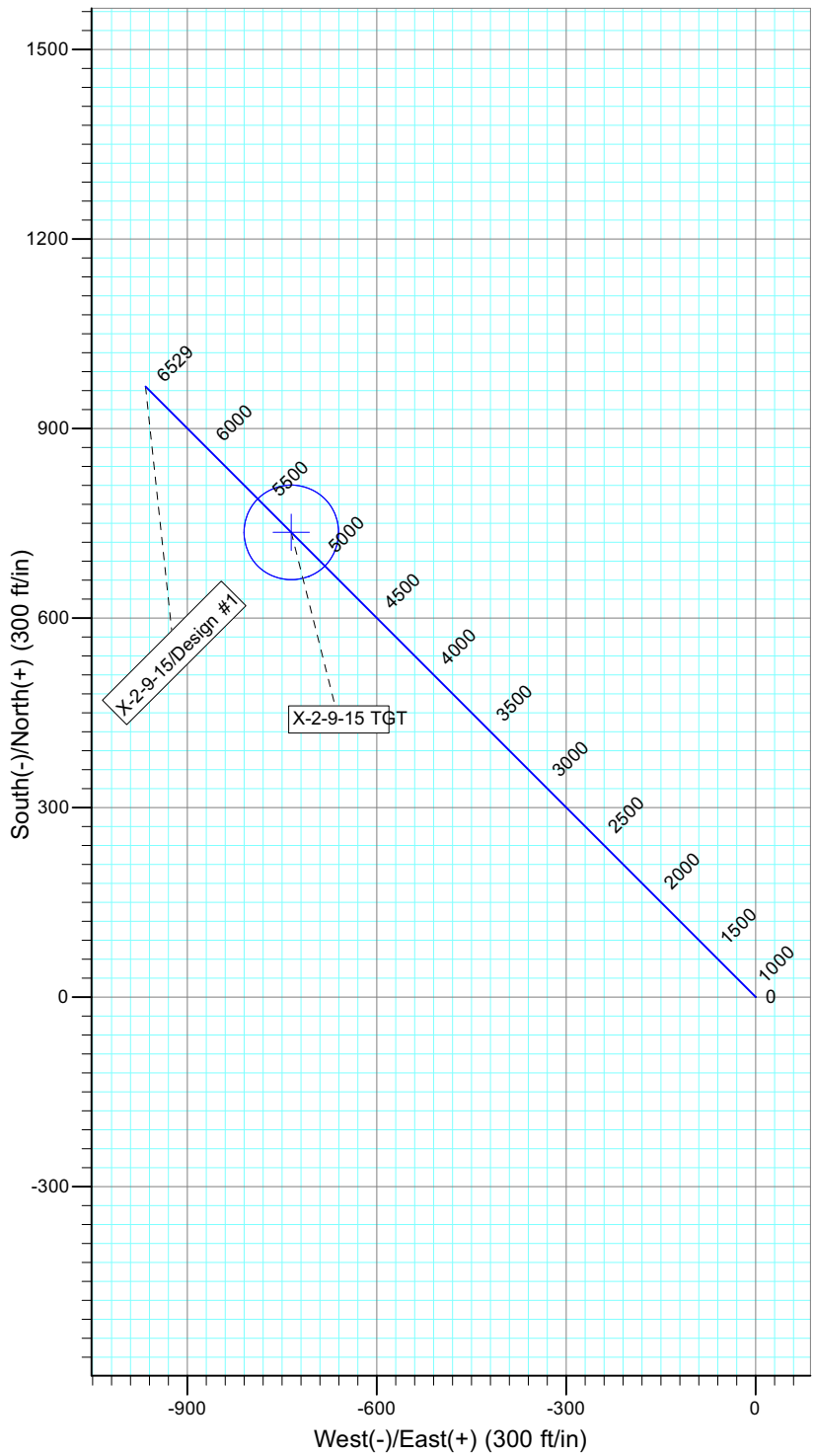
T M

Azimuths to True North
Magnetic North: 11.35°

Magnetic Field
Strength: 52233.7snT
Dip Angle: 65.77°
Date: 2011/08/11
Model: IGRF2010

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





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
X-2-9-15 TGT	5100.0	735.5	-735.5	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	1568.7	14.53	315.00	1558.3	86.4	-86.4	1.50	315.00	122.2	
4	5227.4	14.53	315.00	5100.0	735.5	-735.5	0.00	0.00	1040.1	X-2-9-15 TGT
5	6529.0	14.53	315.00	6360.0	966.4	-966.4	0.00	0.00	1366.7	

PAYZONE DIRECTIONAL

API Well Number: 4301351096000 0

NEWFIELD

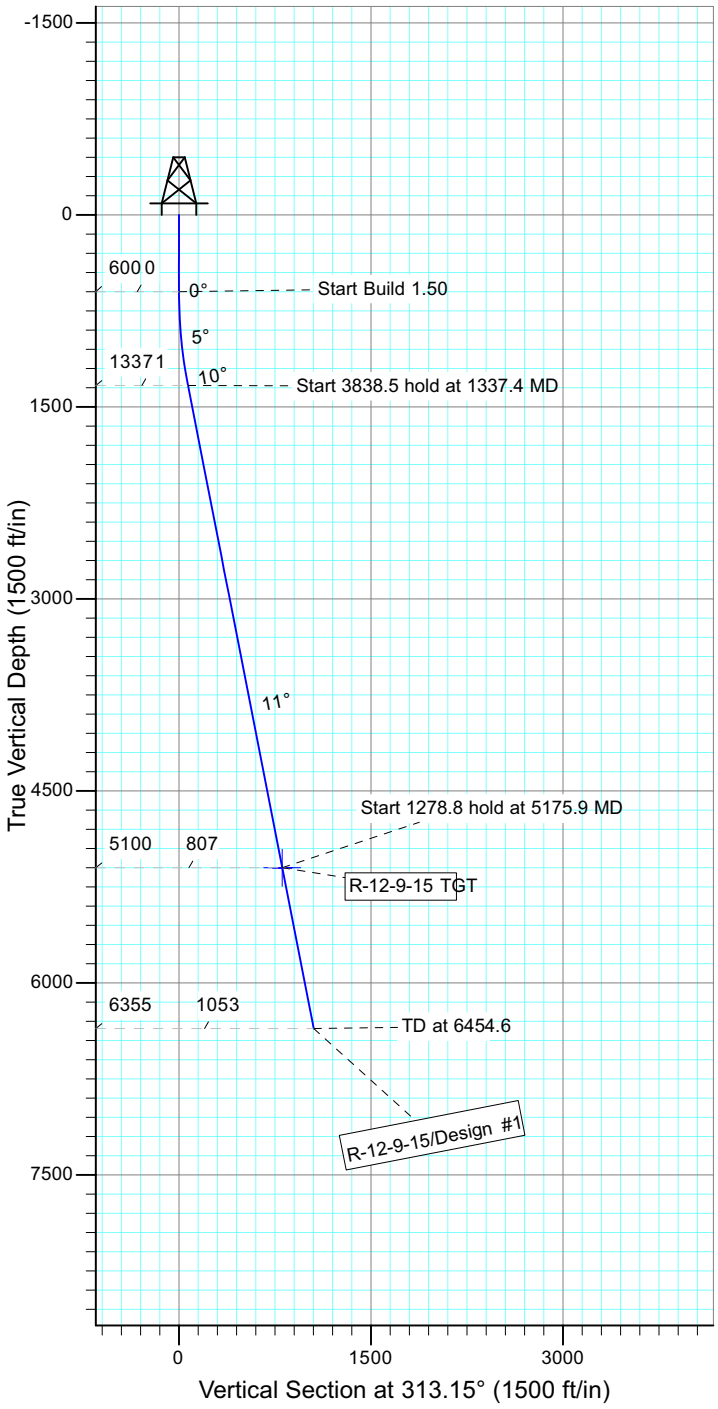
Project: USGS Myton SW (UT)
Site: SECTION 12 T9S, R15E
Well: R-12-9-15
Wellbore: Wellbore #1
Design: Design #1

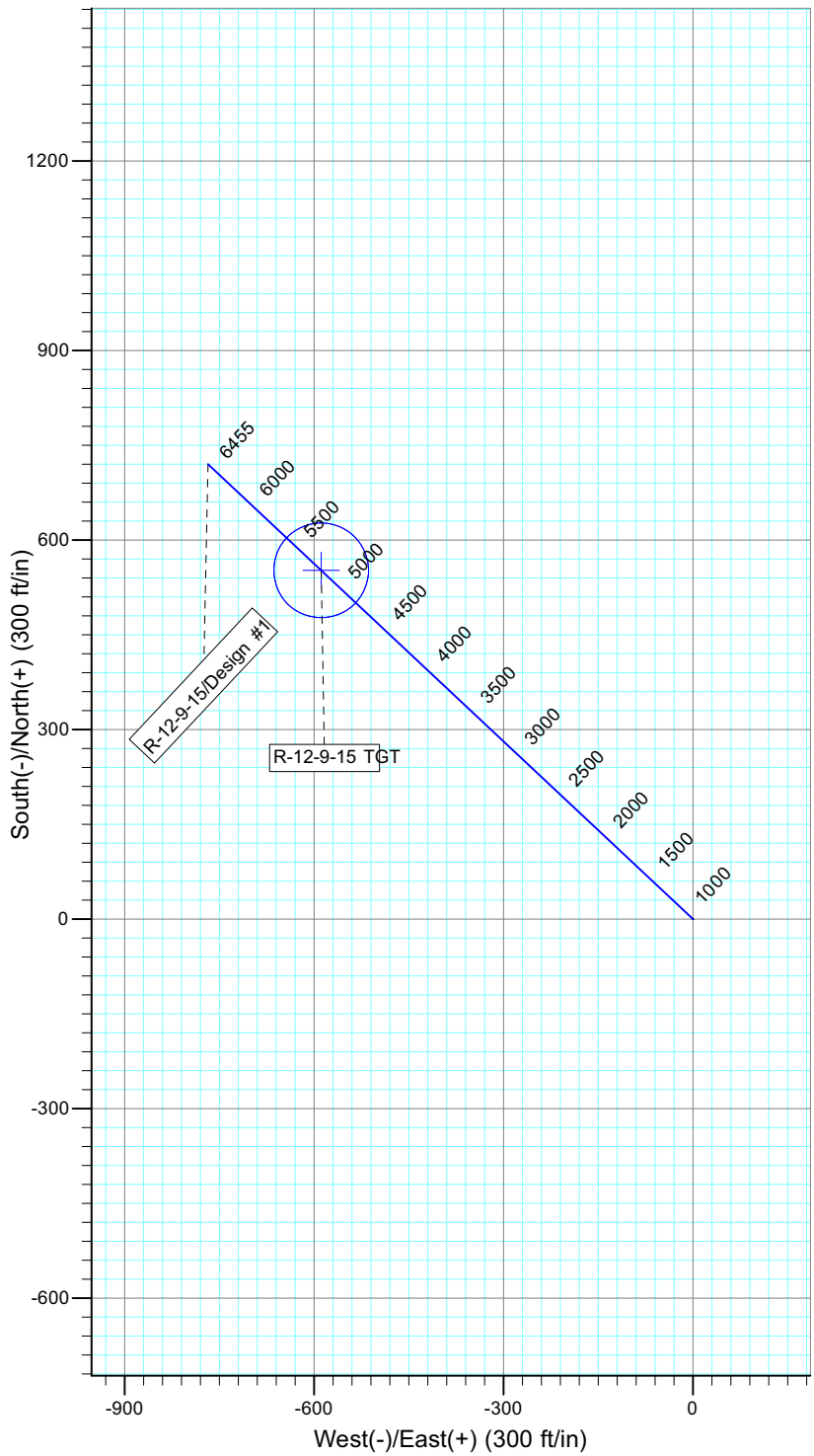
T M

Azimuths to True North
Magnetic North: 11.33°

Magnetic Field
Strength: 52226.4snT
Dip Angle: 65.76°
Date: 2011/08/29
Model: IGRF2010

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





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
R-12-9-15 TGT	5100.0	552.2	-589.1	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1337.4	11.06	313.15	1332.8	48.5	-51.8	1.50	313.15	71.0	
4	5175.9	11.06	313.15	5100.0	552.2	-589.1	0.00	0.00	807.4	R-12-9-15 TGT
5	6454.6	11.06	313.15	6355.0	720.0	-768.0	0.00	0.00	1052.7	

PAYZONE DIRECTIONAL

API Well Number: 4301351097000000

NEWFIELD

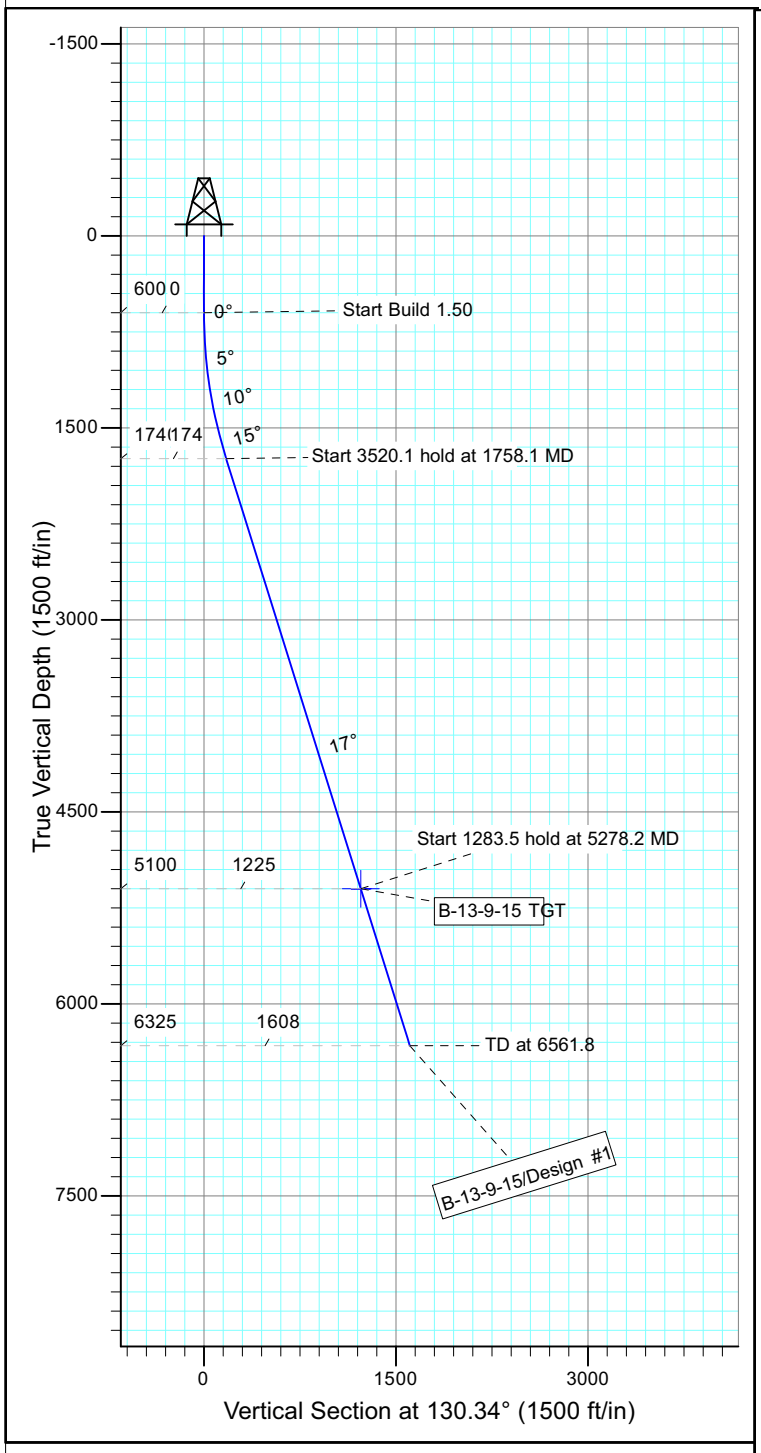
Project: USGS Myton SW (UT)
Site: SECTION 12 T9S, R15E
Well: B-13-9-15
Wellbore: Wellbore #1
Design: Design #1

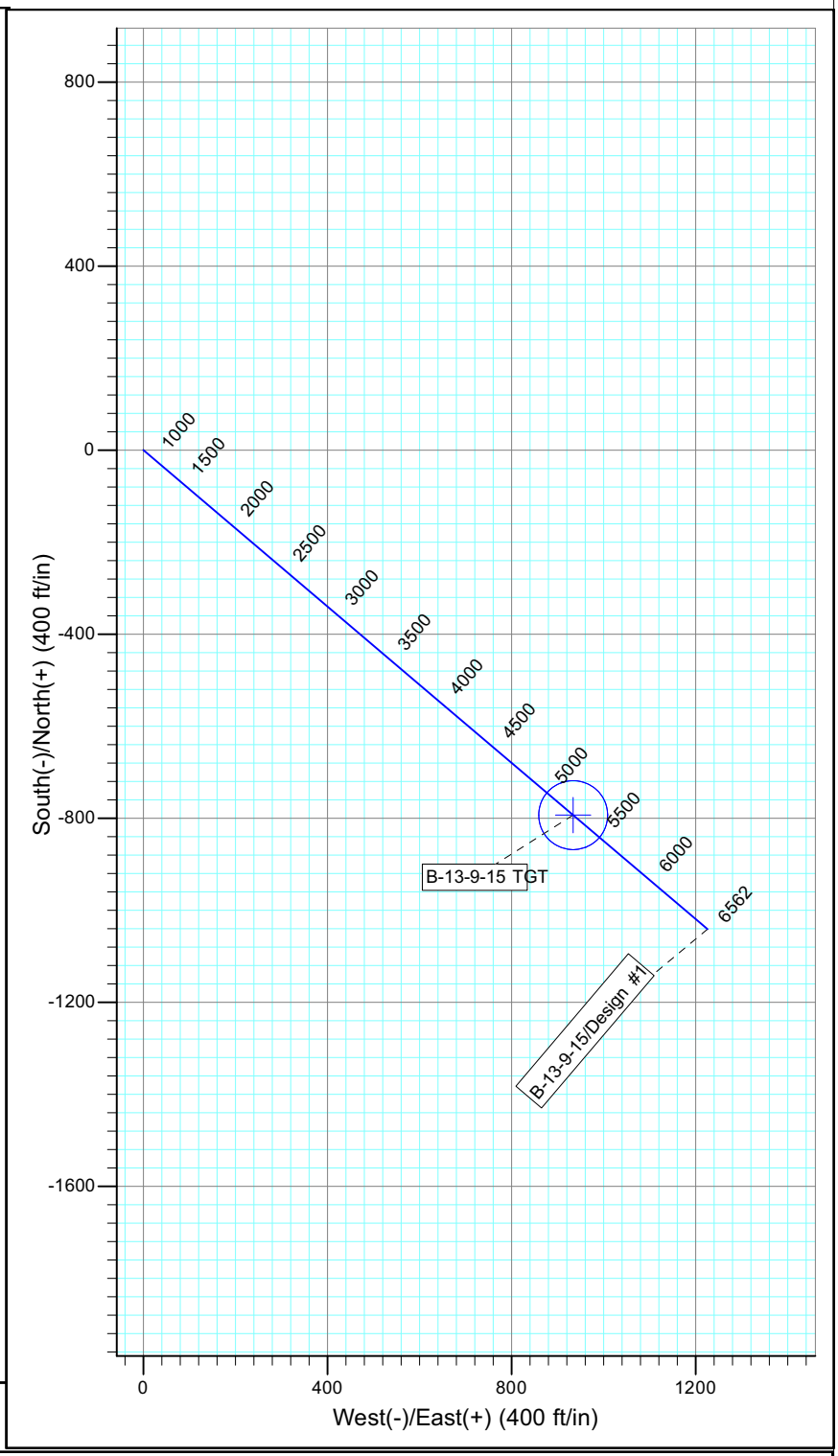
T M

Azimuths to True North
Magnetic North: 11.33°

Magnetic Field
Strength: 52226.4snT
Dip Angle: 65.76°
Date: 2011/08/29
Model: IGRF2010

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





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
B-13-9-15 TGT	5100.0	-793.1	933.9	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	1758.1	17.37	130.34	1740.4	-112.8	132.8	1.50	130.34	174.2	
4	5278.2	17.37	130.34	5100.0	-793.1	933.9	0.00	0.00	1225.2	B-13-9-15 TGT
5	6561.8	17.37	130.34	6325.0	-1041.2	1226.0	0.00	0.00	1608.4	

PAYZONE DIRECTIONAL

API Well Number: 4301351098000

NEWFIELD

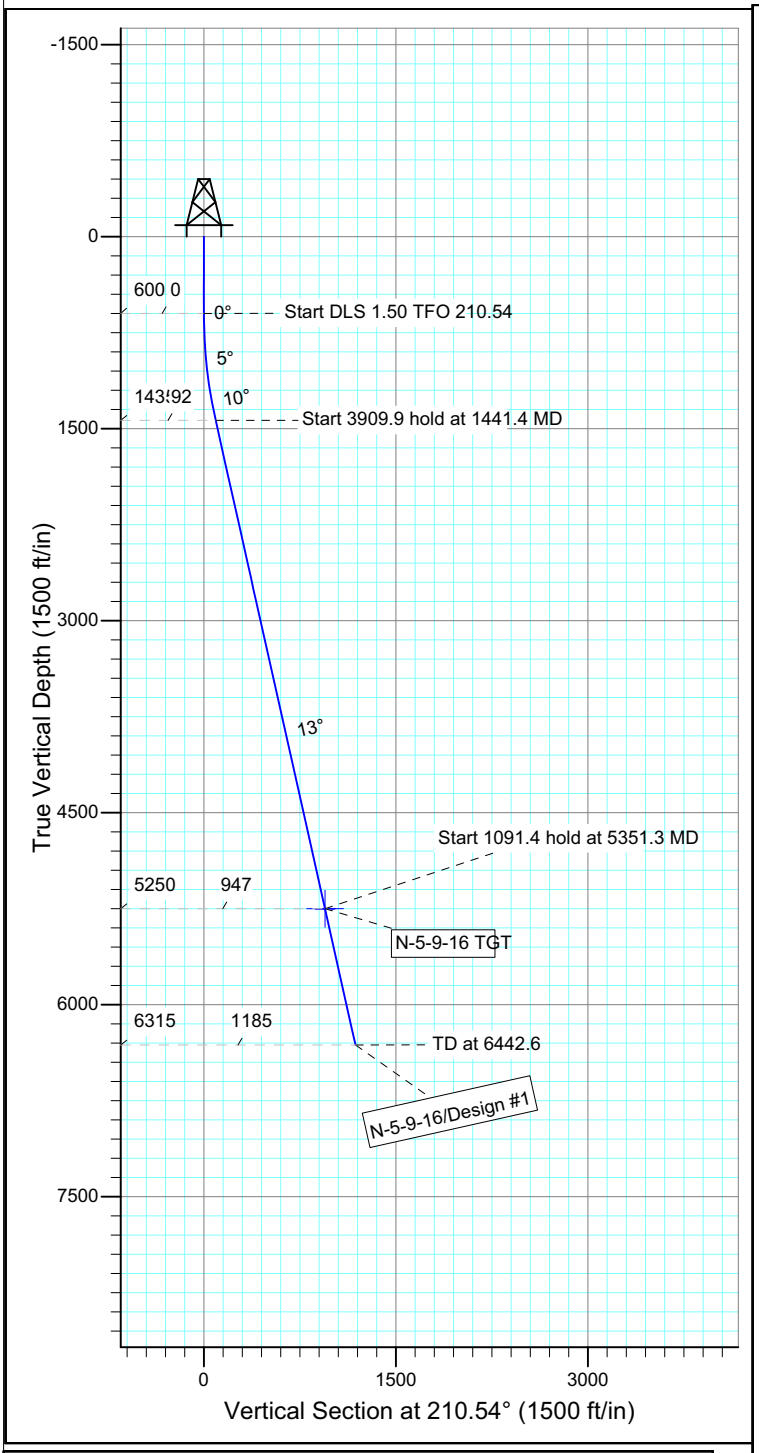
Project: USGS Myton SW (UT)
Site: SECTION 5 T9, R16
Well: N-5-9-16
Wellbore: Wellbore #1
Design: Design #1

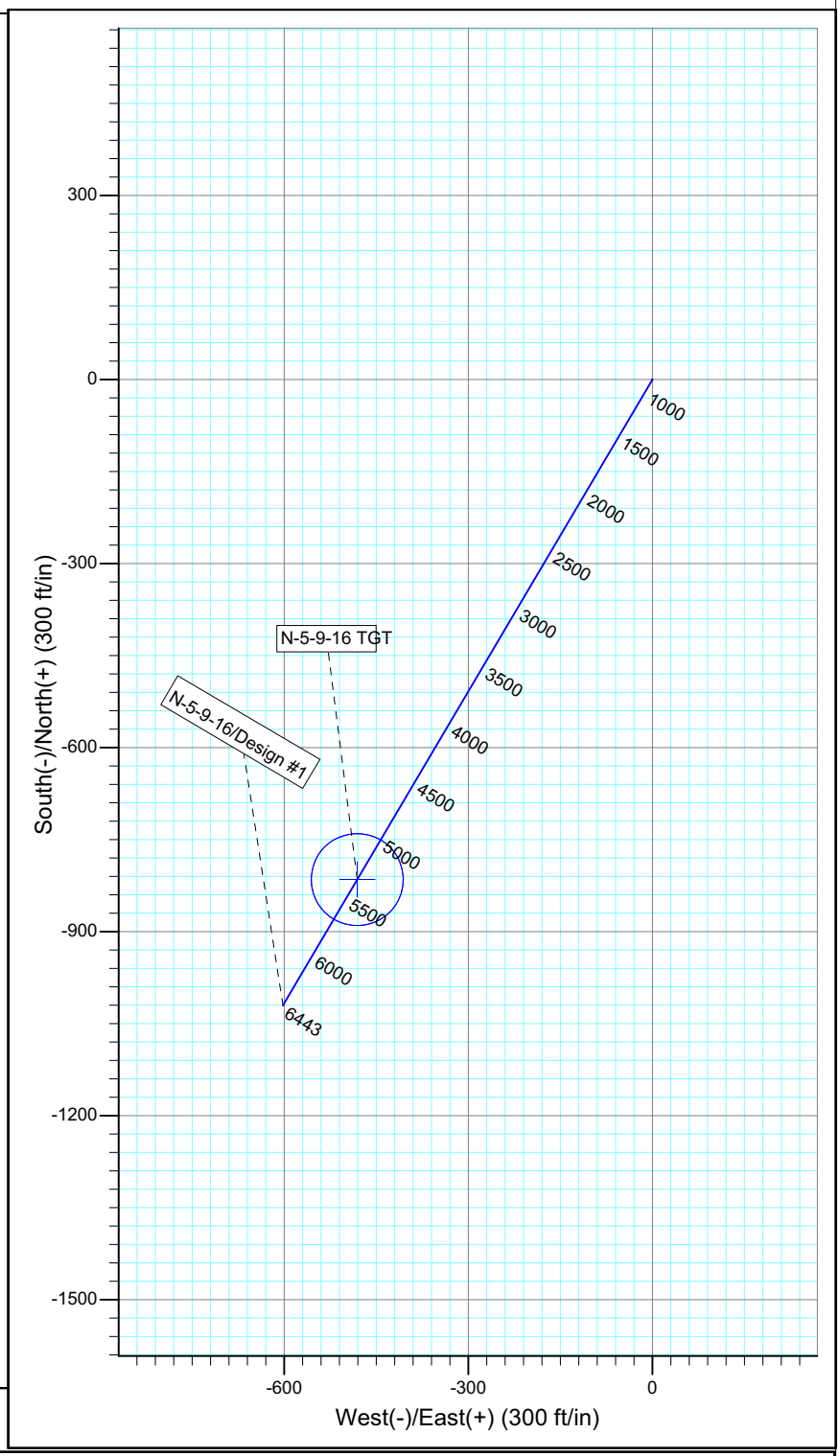
T M

Azimuths to True North
Magnetic North: 11.37°

Magnetic Field
Strength: 52280.1snT
Dip Angle: 65.80°
Date: 2011/04/21
Model: IGRF2010

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





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
N-5-9-16 TGT	5250.0	-815.3	-481.0	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	1441.4	12.62	210.54	1434.6	-79.5	-46.9	1.50	210.54	92.3	
4	5351.3	12.62	210.54	5250.0	-815.3	-481.0	0.00	0.00	946.6	N-5-9-16 TGT
5	6442.6	12.62	210.54	6315.0	-1020.7	-602.2	0.00	0.00	1185.1	

PAYZONE DIRECTIONAL

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 11/29/2011 **API NO. ASSIGNED:** 43013510900000
WELL NAME: GMBU M-11-9-15
OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695) **PHONE NUMBER:** 435 646-4825
CONTACT: Mandie Crozier

PROPOSED LOCATION: NESW 11 090S 150E **Permit Tech Review:** ✔

SURFACE: 1945 FSL 1974 FWL **Engineering Review:** ☐

BOTTOM: 2338 FNL 2624 FEL **Geology Review:** ✔

COUNTY: DUCHESNE
LATITUDE: 40.04348 **LONGITUDE:** -110.20188
UTM SURF EASTINGS: 568084.00 **NORTHINGS:** 4432888.00
FIELD NAME: MONUMENT BUTTE
LEASE TYPE: 1 - Federal
LEASE NUMBER: UTU-74826 **PROPOSED PRODUCING FORMATION(S):** GREEN RIVER
SURFACE OWNER: 1 - Federal **COALBED METHANE:** NO

RECEIVED AND/OR REVIEWED:

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

Commingling Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**

Unit: GMBU (GRRV)

- ☐ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ✔ **Drilling Unit**

Board Cause No: Cause 213-11
Effective Date: 11/30/2009
Siting: Suspends General Siting

- ✔ **R649-3-11. Directional Drill**

Comments: Presite Completed

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

RECEIVED: December 05, 2011

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 M-11-9-15
API Well Number: 43013510900000
Lease Number: UTU-74826
Surface Owner: FEDERAL
Approval Date: 12/5/2011

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

API Well No: 43013510900000

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

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

Approved By:

For John Rogers
Associate Director, Oil & Gas

Form 3160-3
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
NOV 30 2011
BLM

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

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
UTU74826

6. If Indian, Allottee or Tribe Name

1a. Type of Work: ☒ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.
GREATER MONUMENT

8. Lease Name and Well No.
GMBU M-11-9-15

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

2. Name of Operator
NEWFIELD PRODUCTION COMPANY
Contact: MANDIE CROZIER
Email: mcrozier@newfield.com

9. API Well No.
43-013-51090

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

3b. Phone No. (include area code)
Ph: 435-646-4825
Fx: 435-646-3031

10. Field and Pool, or Exploratory
MONUMENT BUTTE

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

At surface NESW 1945FSL 1974FWL

At proposed prod. zone SWNE 2338FNL 2624FWL

11. Sec., T., R., M., or Blk. and Survey or Area
Sec 11 T9S R15E Mer SLB

14. Distance in miles and direction from nearest town or post office*
15.0

12. County or Parish
DUCHESNE

13. State
UT

15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)
2338'

16. No. of Acres in Lease
2189.90

17. Spacing Unit dedicated to this well
20.00

18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.
676'

19. Proposed Depth
6537 MD
6405 TVD

20. BLM/BIA Bond No. on file
WYB000493

21. Elevations (Show whether DF, KB, RT, GL, etc.
6165 GL

22. Approximate date work will start
03/31/2012

23. Estimated duration
7 DAYS

24. Attachments

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

1. Well plat certified by a registered surveyor.
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).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature
(Electronic Submission)

Name (Printed/Typed)
MANDIE CROZIER Ph: 435-646-4825

Date
11/29/2011

Title
REGULATORY ANALYST

Approved by (Signature)

Name (Printed/Typed)
Jerry Kenczka

Date
JUN 27 2012

Title
Assistant Field Manager
Lands & Mineral Resources

Office
VERNAL FIELD OFFICE

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

CONDITIONS OF APPROVAL ATTACHED

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

RECEIVED
JUL 05 2012
DIV. OF OIL, GAS & MINING

Additional Operator Remarks (see next page)

Electronic Submission #124390 verified by the BLM Well Information System
For NEWFIELD PRODUCTION COMPANY, sent to the Vernal
Committed to AFMSS for processing by LESLIE ROBINSON on 12/01/2011 ()

NOTICE OF APPROVAL

UDOGM

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

11CX0827A9.

NK 8/22/11

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

CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	**Newfield Production Company**	**Location:**	**NESW, Sec 11, T9S, R15E**
Well No:	**GMBU M-11-9-15**	**Lease No:**	**UTU-74826**
API No:	**43-013-51090**	**Agreement:**	**Greater Monument Butte Unit**

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

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

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

NOTIFICATION REQUIREMENTS

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

SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)

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

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

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

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

Wildlife

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

- The proposed project is within 0.5 mile of a **golden eagle nest**. If drilling or construction is proposed from January 1 to August 31, then a nest survey will be conducted by a qualified biologist. If it is determined by that the nest is inactive, then permission to proceed may be granted by the BLM Authorized Officer. If the nest is determined to be active, then the timing restriction will remain in effect.

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.

- Open burning of garbage or refuse will not occur at well sites or other facilities.

- Low bleed pneumatics will be installed on separator dump valves and other controllers.

- During completion, flaring will be limited as much as possible. Production equipment and gathering lines will be installed as soon as possible.

- Well site telemetry will be utilized as feasible for production operations.

Reclamation

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

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

Monitoring and Reporting

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

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

S.O.P.

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

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

DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

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

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

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB

or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

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

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

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

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

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

OPERATING REQUIREMENT REMINDERS:

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

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

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

    - Operator name, address, and telephone number.

    - Well name and number.

    - Well location (¼¼, Sec., Twn, Rng, and P.M.).

    - Date well was placed in a producing status (date of first production for which royalty will be paid).

    - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).

    - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.

    - Unit agreement and/or participating area name and number, if applicable.

    - Communitization agreement number, if applicable.

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

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

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

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

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

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

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

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

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

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

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

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Ross 29 Submitted By Branden Arnold Phone Number 435-401-0223
Well Name/Number GMBU M-11-9-15
Qtr/Qtr NE/SW Section 11 Township 9S Range 15E
Lease Serial Number UTU-74826
API Number 43-013-51090

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

Date/Time 7/29/12 4:00 AM ☐ PM ☒

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

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

Date/Time 7/30/12 10:00 AM ☒ PM ☐

BOPE

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

Date/Time _____ _____ AM ☐ PM ☐

Remarks _____

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

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

OPERATOR ACCT. NO. N2695

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE
B	99999	17400	4301351090	GMBU M-11-9-15	NESW	11	9S	15E	DUCHESNE	8/7/2012	8/20/12
WELL 1 COMMENTS: GRRV BHL: SWNE											—
A	99999	18678	4301350557	UTE TRIBAL 1-16-4-1W	NENE	16	4S	1W	DUCHESNE	7/27/2012	8/20/12
GRRV BHL: NENE											—
B	99999	17400	4301351091	GMBU Q-11-9-15	NESW	11	9S	15E	DUCHESNE	8/6/2012	8/20/12
GRRV BHL: SWSW											—
B	99999	17400	4301351102	GMBU H-11-9-15	SENW	11	9S	15E	DUCHESNE	8/4/2012	8/20/12
GRRV BHL: NWNE											—
B	99999	17400	4301351103	GMBU N-11-9-15	SENW	11	9S	15E	DUCHESNE	8/5/2012	8/20/12
GRRV BHL: NWSW											—
A	99999	18679	4301351508	PETERSON 3-20-3-2WH	SESW	17	3S	2W	DUCHESNE	7/18/2012	8/20/12
GRRV BHL: S20 SESW											
A	99999	18680	4304751787	UTE TRIBAL 9-4-4-1E	NESE	4	4S	1E	UINTAH	7/19/2012	8/20/12
WSTC											

CONFIDENTIAL

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

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

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Tasha Robison
Signature
Production Clerk 08/09/12

CONFIDENTIAL

FORM 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE - Other Instructions on page 2

5. Lease Serial No.
USA UTU-74826

6. If Indian, Allottee or Tribe Name.

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

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

8. Well Name and No.
GMBU M-11-9-15

2. Name of Operator
NEWFIELD PRODUCTION COMPANY

9. API Well No.
4301351090

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

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

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

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

Section 11 T9S R15E

11. County or Parish, State
DUCHESNE, UT

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

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

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

On 8/7/12 MIRU Ross #29. Spud well @8:00 AM. Drill 320' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24# csgn. Set @ 327.07. On 8/8/12 cement with 160 sks of class "G" w/ 2% CaCL2 + 0.25#/sk Cello- Flake Mixed @ 15.8ppg w/ 1.17ft3/sk yield. Returned 5 barrels cement to pit. WOC.

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

Title

Signature

Date
08/09/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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

Office

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

(Instructions on page 2)

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SEP 06 2012
DIV. OF OIL, GAS & MINING

Casing / Liner Detail

Well	GMBU M-11-9-15
Prospect	Monument Butte
Foreman	
Run Date:	
String Type	Surface, 8.625", 24#, J-55, STC (Generic)

- Detail From Top To Bottom -

Depth	*Length*	*JTS*	*Description*	*OD*	*ID*
323.07			10' KB		
10.00	1.42		Wellhead		
11.42	266.05	6	8 5/8 Casing	8.625	
277.47	44.70	1	Shoe Joint	8.625	
322.17	0.90	1	Guide Shoe	8.625	
323.07			-		

Cement Detail

Cement Company: BJ

Slurry	# of Sacks	Weight (ppg)	Yield	Volume (ft^3)	Description - Slurry Class and Additives
Slurry 1	160	15.8	1.17	187.2	Class G+2%kcl+.25#CF

Stab-In-Job?	No
BHT:	0
Initial Circulation Pressure:	
Initial Circulation Rate:	
Final Circulation Pressure:	
Final Circulation Rate:	
Displacement Fluid:	Water
Displacement Rate:	
Displacement Volume:	17
Mud Returns:	
Centralizer Type And Placement:	

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

Cement To Surface?	Yes
Est. Top of Cement:	0
Plugs Bumped?	Yes
Pressure Plugs Bumped:	448
Floats Holding?	No
Casing Stuck On / Off Bottom?	No
Casing Reciprocated?	No
Casing Rotated?	No
CIP:	9:59
Casing Wt Prior To Cement:	
Casing Weight Set On Slips:	

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
UTU-74826

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

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

2. Name of Operator
NEWFIELD EXPLORATION COMPANY

8. Lease Name and Well No.
GMBU M-11-9-15

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

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

9. AFI Well No.
43-013-51090

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

At surface 1945' FSL & 1974' FWL (NE/SW) SEC. 11, T9S, R15E (UTU-74826)

10. Field and Pool or Exploratory
MONUMENT BUTTE

11. Sec., T., R., M., on Block and Survey or Area
SEC. 11, T9S, R15E

At top prod. interval reported below 2597' FNL & 2468' FWL (SE/NW) SEC. 11, T9S, R15E (UTU-74826)

At total depth 2331' FNL & 2632' FWL (SE/NW) SEC. 11, T9S, R15E (UTU-74826) BHL by HSM

12. County or Parish
DUCHESNE

13. State
UT

14. Date Spudded
08/07/2012

15. Date T.D. Reached
08/23/2012

16. Date Completed 09/20/2012
☐ D & A ☑ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
6165' GL 6175' KB

18. Total Depth: MD 6479'
TVD 6398 49

19. Plug Back T.D.: MD 6412'
TVD 6283

20. Depth Bridge Plug Set: MD
TVD

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

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

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24#	0	323'		160 CLASS "G"			
7-7/8"	5-1/2" J-55	15.5#	0	6459'		240 PRIMLITE		51'	
						470 50/50 POZ			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8"	EOT@ 6258'	TA @ 6159'						

25. Producing Intervals

Formation	Top	Bottom
A) Green River	5052'	6189'
B)		
C)		
D)		

26. Perforation Record

Perforated Interval	Size	No. Holes	Perf. Status
5052-6189'	0.34"	60	

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

Depth Interval	Amount and Type of Material
5052-6189'	Frac w/ 224703# 20/40 white sand and 1842 bbls Lightning 17 fluid, in 4 stages.

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JAN 08 2013
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28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
9/20/12	9/30/12	24	→	63	48	40			2-1/2" x 1-3/4" x 20' x 21' x 24' RHAC Pump

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
			→					PRODUCING

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
			→					

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

28b. Production - Interval C

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

28c. Production - Interval D

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

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

SOLD AND USED FOR FUEL

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
GREEN RIVER	5052'	6189'		GARDEN GULCH MARKER	3824'
				GARDEN GULCH 1	4066'
				GARDEN GULCH 2	4176'
				POINT 3 MARKER	4433'
				X MRKR	4721'
				Y MRKR	4759'
				DOUGLAS CREEK MRKR	4875'
				BI-CARBONATE	5126'
				B LIMESTONE	5230'
				CASTLE PEAK	5804'
				BASAL CARBONATE	6248'
				WASATCH	6388'

32. Additional remarks (include plugging procedure):

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

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

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

Name *(please print)* Jennifer Peatross Title Production Technician

Signature Peatross Date 10/19/2012

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

(Continued on page 3)

NEWFIELD

NEWFIELD EXPLORATION

USGS Myton SW (UT)
SECTION 11 T 9S R15E
M-11-9-15

Wellbore #1

Design: Actual

Standard Survey Report

20 November, 2012

NEWFIELD

Payzone Directional

Survey Report

Company:	NEWFIELD EXPLORATION	**Local Co-ordinate Reference:**	Well M-11-9-15
Project:	USGS Myton SW (UT)	**TVD Reference:**	M-11-9-15 @ 6175.0ft (NDSI SS #1)
Site:	SECTION 11 T 9S R15E	**MD Reference:**	M-11-9-15 @ 6175.0ft (NDSI SS #1)
Well:	M-11-9-15	**North Reference:**	True
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Actual	**Database:**	EDM 2003.21 Single User Db

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

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		

Site SECTION 11 T 9S R15E

Site Position:		**Northing:**	7,188,000.00 ft	**Latitude:**	40° 2' 44.351 N
From:	Lat/Long	**Easting:**	2,004,500.00 ft	**Longitude:**	110° 11' 57.926 W
Position Uncertainty:	0.0 ft	**Slot Radius:**	"	**Grid Convergence:**	0.83 °

Well M-11-9-15, SHL LAT: 40 02 36.63 LONG: -110 12 06.52

Well Position	**+N/-S**	0.0 ft	**Northing:**	7,187,209.10 ft	**Latitude:**	40° 2' 36.630 N
	+E/-W	0.0 ft	**Easting:**	2,003,843.10 ft	**Longitude:**	110° 12' 6.520 W
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	6,175.0 ft	**Ground Level:**	6,165.0 ft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/11/2011	11.35	65.76	52,229

Design Actual

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	34.04

Survey Program **Date** 11/20/2012

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
374.0	6,479.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
374.0	0.70	97.80	374.0	-0.3	2.3	1.0	0.19	0.19	0.00
405.0	0.70	83.00	405.0	-0.3	2.6	1.2	0.58	0.00	-47.74
435.0	0.60	62.70	435.0	-0.2	3.0	1.5	0.83	-0.33	-67.67
465.0	0.90	54.20	465.0	0.0	3.3	1.8	1.06	1.00	-28.33
496.0	1.00	42.50	496.0	0.3	3.7	2.3	0.70	0.32	-37.74
526.0	1.40	50.20	526.0	0.8	4.1	2.9	1.43	1.33	25.67
557.0	1.70	49.60	557.0	1.3	4.8	3.7	0.97	0.97	-1.94
587.0	2.20	46.30	586.9	2.0	5.5	4.7	1.71	1.67	-11.00
618.0	2.30	46.10	617.9	2.8	6.4	5.9	0.32	0.32	-0.65
648.0	2.90	44.70	647.9	3.8	7.4	7.3	2.01	2.00	-4.67
679.0	3.20	42.70	678.8	5.0	8.5	8.9	1.03	0.97	-6.45
709.0	3.30	50.20	708.8	6.1	9.7	10.5	1.45	0.33	25.00

Company:	NEWFIELD EXPLORATION	**Local Co-ordinate Reference:**	Well M-11-9-15
Project:	USGS Myton SW (UT)	**TVD Reference:**	M-11-9-15 @ 6175.0ft (NDSI SS #1)
Site:	SECTION 11 T 9S R15E	**MD Reference:**	M-11-9-15 @ 6175.0ft (NDSI SS #1)
Well:	M-11-9-15	**North Reference:**	True
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Actual	**Database:**	EDM 2003.21 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
740.0	3.60	47.60	739.7	7.4	11.1	12.4	1.09	0.97	-8.39
770.0	4.00	53.80	769.7	8.6	12.7	14.3	1.91	1.33	20.67
801.0	4.00	53.00	800.6	9.9	14.4	16.3	0.18	0.00	-2.58
831.0	4.40	55.20	830.5	11.2	16.2	18.4	1.44	1.33	7.33
861.0	4.70	57.10	860.4	12.5	18.2	20.6	1.12	1.00	6.33
891.0	4.70	59.30	890.3	13.8	20.3	22.8	0.60	0.00	7.33
922.0	5.00	57.90	921.2	15.2	22.5	25.2	1.04	0.97	-4.52
952.0	5.40	55.30	951.1	16.7	24.8	27.7	1.55	1.33	-8.67
983.0	5.60	56.00	981.9	18.4	27.2	30.5	0.68	0.65	2.26
1,013.0	5.60	54.70	1,011.8	20.0	29.6	33.2	0.42	0.00	-4.33
1,044.0	5.80	52.40	1,042.6	21.9	32.1	36.1	0.98	0.65	-7.42
1,074.0	6.20	47.90	1,072.5	23.9	34.5	39.1	2.06	1.33	-15.00
1,105.0	6.50	41.70	1,103.3	26.3	36.9	42.5	2.41	0.97	-20.00
1,136.0	7.10	38.00	1,134.1	29.1	39.3	46.1	2.40	1.94	-11.94
1,166.0	7.40	35.10	1,163.8	32.2	41.5	49.9	1.58	1.00	-9.67
1,212.0	7.90	29.10	1,209.4	37.3	44.8	56.0	2.05	1.09	-13.04
1,256.0	8.70	28.00	1,253.0	42.9	47.8	62.3	1.85	1.82	-2.50
1,300.0	9.20	29.30	1,296.4	48.9	51.1	69.1	1.23	1.14	2.95
1,344.0	9.50	31.00	1,339.8	55.1	54.7	76.3	0.93	0.68	3.86
1,389.0	10.00	32.40	1,384.2	61.6	58.7	83.9	1.23	1.11	3.11
1,435.0	10.60	32.40	1,429.5	68.5	63.1	92.1	1.30	1.30	0.00
1,481.0	10.90	31.80	1,474.6	75.8	67.6	100.7	0.70	0.65	-1.30
1,525.0	11.70	32.40	1,517.8	83.1	72.2	109.3	1.84	1.82	1.36
1,570.0	12.40	33.50	1,561.8	91.0	77.3	118.7	1.64	1.56	2.44
1,616.0	13.20	35.10	1,606.7	99.4	83.1	128.9	1.90	1.74	3.48
1,662.0	13.60	37.60	1,651.4	108.0	89.4	139.5	1.53	0.87	5.43
1,706.0	14.10	36.90	1,694.1	116.4	95.8	150.0	1.20	1.14	-1.59
1,750.0	13.90	36.00	1,736.8	124.9	102.1	160.7	0.67	-0.45	-2.05
1,796.0	13.40	34.80	1,781.5	133.8	108.4	171.5	1.25	-1.09	-2.61
1,839.0	13.10	32.50	1,823.4	142.0	113.9	181.4	1.41	-0.70	-5.35
1,885.0	13.20	31.50	1,868.2	150.9	119.4	191.8	0.54	0.22	-2.17
1,931.0	13.20	29.70	1,913.0	159.9	124.7	202.3	0.89	0.00	-3.91
1,975.0	13.10	28.40	1,955.8	168.7	129.6	212.3	0.71	-0.23	-2.95
2,021.0	12.90	28.60	2,000.6	177.7	134.5	222.6	0.45	-0.43	0.43
2,066.0	13.30	31.00	2,044.5	186.6	139.6	232.8	1.50	0.89	5.33
2,110.0	13.50	31.30	2,087.3	195.3	144.9	243.0	0.48	0.45	0.68
2,156.0	13.60	32.90	2,132.0	204.4	150.6	253.7	0.84	0.22	3.48
2,202.0	13.20	34.20	2,176.7	213.3	156.5	264.4	1.09	-0.87	2.83
2,246.0	13.50	34.40	2,219.5	221.7	162.2	274.5	0.69	0.68	0.45
2,292.0	13.70	36.40	2,264.2	230.5	168.5	285.4	1.11	0.43	4.35
2,338.0	14.00	37.10	2,308.9	239.4	175.1	296.4	0.75	0.65	1.52
2,383.0	14.70	37.50	2,352.5	248.2	181.8	307.5	1.57	1.56	0.89
2,427.0	14.70	37.80	2,395.1	257.1	188.7	318.6	0.17	0.00	0.68
2,473.0	14.80	39.10	2,439.5	266.2	195.9	330.3	0.75	0.22	2.83
2,517.0	14.50	37.90	2,482.1	275.0	202.9	341.4	0.97	-0.68	-2.73
2,563.0	14.30	35.50	2,526.7	284.1	209.7	352.8	1.37	-0.43	-5.22
2,607.0	14.40	33.70	2,569.3	293.1	215.9	363.7	1.04	0.23	-4.09
2,652.0	14.60	34.20	2,612.9	302.4	222.2	375.0	0.52	0.44	1.11
2,698.0	14.60	33.40	2,657.4	312.1	228.6	386.6	0.44	0.00	-1.74
2,742.0	14.70	33.20	2,699.9	321.4	234.8	397.7	0.25	0.23	-0.45
2,788.0	14.70	33.70	2,744.4	331.1	241.2	409.4	0.28	0.00	1.09
2,832.0	14.30	32.60	2,787.0	340.3	247.2	420.4	1.10	-0.91	-2.50
2,876.0	13.80	30.50	2,829.7	349.4	252.8	431.1	1.62	-1.14	-4.77
2,921.0	13.80	30.10	2,873.4	358.7	258.2	441.8	0.21	0.00	-0.89

Company:	NEWFIELD EXPLORATION	**Local Co-ordinate Reference:**	Well M-11-9-15
Project:	USGS Myton SW (UT)	**TVD Reference:**	M-11-9-15 @ 6175.0ft (NDSI SS #1)
Site:	SECTION 11 T 9S R15E	**MD Reference:**	M-11-9-15 @ 6175.0ft (NDSI SS #1)
Well:	M-11-9-15	**North Reference:**	True
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Actual	**Database:**	EDM 2003.21 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
2,967.0	14.40	29.80	2,918.0	368.4	263.8	453.0	1.31	1.30	-0.65
3,011.0	14.60	30.60	2,960.6	377.9	269.4	464.0	0.64	0.45	1.82
3,057.0	14.00	31.30	3,005.2	387.7	275.2	475.3	1.36	-1.30	1.52
3,100.0	13.40	31.10	3,047.0	396.4	280.5	485.5	1.40	-1.40	-0.47
3,144.0	13.30	32.40	3,089.8	405.0	285.8	495.6	0.72	-0.23	2.95
3,190.0	13.70	32.90	3,134.5	414.1	291.6	506.4	0.91	0.87	1.09
3,235.0	13.40	32.40	3,178.3	423.0	297.3	516.9	0.72	-0.67	-1.11
3,280.0	13.20	32.70	3,222.1	431.7	302.9	527.2	0.47	-0.44	0.67
3,334.0	13.10	33.10	3,274.7	442.0	309.5	539.5	0.25	-0.19	0.74
3,370.0	12.70	32.20	3,309.7	448.8	313.9	547.6	1.24	-1.11	-2.50
3,414.0	12.50	32.10	3,352.7	456.9	319.0	557.2	0.46	-0.45	-0.23
3,460.0	12.70	32.80	3,397.6	465.4	324.4	567.2	0.55	0.43	1.52
3,506.0	12.40	32.20	3,442.5	473.8	329.7	577.2	0.71	-0.65	-1.30
3,551.0	12.30	31.20	3,486.4	482.0	334.8	586.8	0.52	-0.22	-2.22
3,597.0	12.30	31.60	3,531.4	490.3	339.9	596.6	0.19	0.00	0.87
3,643.0	12.00	30.70	3,576.4	498.6	344.9	606.3	0.77	-0.65	-1.96
3,687.0	11.50	30.20	3,619.4	506.3	349.5	615.2	1.16	-1.14	-1.14
3,731.0	11.60	30.30	3,662.5	514.0	353.9	624.0	0.23	0.23	0.23
3,776.0	11.00	30.20	3,706.7	521.6	358.3	632.8	1.33	-1.33	-0.22
3,820.0	10.70	31.10	3,749.9	528.7	362.6	641.1	0.78	-0.68	2.05
3,866.0	11.20	31.40	3,795.0	536.2	367.1	649.8	1.09	1.09	0.65
3,912.0	11.50	31.30	3,840.1	543.9	371.8	658.8	0.65	0.65	-0.22
3,956.0	11.10	31.60	3,883.3	551.3	376.3	667.4	0.92	-0.91	0.68
4,001.0	11.60	32.90	3,927.4	558.7	381.0	676.3	1.25	1.11	2.89
4,047.0	11.30	34.20	3,972.5	566.4	386.1	685.4	0.86	-0.65	2.83
4,093.0	11.20	32.80	4,017.6	573.8	391.0	694.4	0.63	-0.22	-3.04
4,139.0	11.20	32.90	4,062.7	581.3	395.9	703.3	0.04	0.00	0.22
4,185.0	10.80	32.10	4,107.9	588.7	400.6	712.1	0.93	-0.87	-1.74
4,228.0	11.20	32.00	4,150.1	595.7	404.9	720.3	0.93	0.93	-0.23
4,274.0	10.90	32.00	4,195.2	603.2	409.6	729.1	0.65	-0.65	0.00
4,318.0	10.70	31.70	4,238.5	610.2	414.0	737.3	0.47	-0.45	-0.68
4,364.0	11.10	32.40	4,283.6	617.5	418.6	746.0	0.92	0.87	1.52
4,408.0	10.90	32.00	4,326.8	624.7	423.1	754.4	0.49	-0.45	-0.91
4,453.0	11.10	32.90	4,371.0	631.9	427.7	763.0	0.59	0.44	2.00
4,497.0	11.20	32.80	4,414.2	639.0	432.3	771.5	0.23	0.23	-0.23
4,543.0	11.50	32.40	4,459.3	646.7	437.2	780.6	0.67	0.65	-0.87
4,587.0	12.50	32.40	4,502.3	654.4	442.1	789.7	2.27	2.27	0.00
4,631.0	13.10	34.60	4,545.2	662.5	447.4	799.5	1.76	1.36	5.00
4,674.0	13.20	33.90	4,587.1	670.6	452.9	809.2	0.44	0.23	-1.63
4,718.0	13.00	33.80	4,629.9	678.9	458.5	819.2	0.46	-0.45	-0.23
4,764.0	13.50	34.10	4,674.7	687.6	464.4	829.8	1.10	1.09	0.65
4,810.0	13.10	32.10	4,719.5	696.5	470.2	840.3	1.33	-0.87	-4.35
4,854.0	12.30	29.70	4,762.4	704.8	475.1	850.0	2.18	-1.82	-5.45
4,897.0	12.20	27.30	4,804.4	712.8	479.5	859.1	1.21	-0.23	-5.58
4,943.0	12.70	28.90	4,849.3	721.6	484.2	868.9	1.32	1.09	3.48
4,987.0	12.70	32.00	4,892.3	729.9	489.1	878.6	1.55	0.00	7.05
5,031.0	13.00	34.50	4,935.2	738.1	494.4	888.4	1.44	0.68	5.68
5,075.0	13.50	35.70	4,978.0	746.3	500.2	898.5	1.30	1.14	2.73
5,119.0	13.20	36.00	5,020.8	754.6	506.2	908.6	0.70	-0.68	0.68
5,164.0	12.80	35.80	5,064.7	762.8	512.1	918.7	0.89	-0.89	-0.44
5,199.1	12.42	34.74	5,098.9	769.0	516.5	926.4	1.27	-1.09	-3.01
M-11-9-15 TGT									
5,210.0	12.30	34.40	5,109.6	770.9	517.9	928.7	1.27	-1.08	-3.14
5,256.0	11.90	35.60	5,154.5	778.8	523.4	938.4	1.03	-0.87	2.61

Company:	NEWFIELD EXPLORATION	**Local Co-ordinate Reference:**	Well M-11-9-15
Project:	USGS Myton SW (UT)	**TVD Reference:**	M-11-9-15 @ 6175.0ft (NDSI SS #1)
Site:	SECTION 11 T 9S R15E	**MD Reference:**	M-11-9-15 @ 6175.0ft (NDSI SS #1)
Well:	M-11-9-15	**North Reference:**	True
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Actual	**Database:**	EDM 2003.21 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,302.0	12.00	36.30	5,199.5	786.5	529.0	947.9	0.38	0.22	1.52
5,346.0	12.20	36.80	5,242.6	794.0	534.5	957.1	0.51	0.45	1.14
5,391.0	12.00	36.70	5,286.6	801.5	540.1	966.5	0.45	-0.44	-0.22
5,437.0	11.10	31.60	5,331.6	809.1	545.3	975.7	2.96	-1.96	-11.09
5,483.0	11.30	28.50	5,376.8	816.8	549.8	984.6	1.38	0.43	-6.74
5,527.0	11.70	28.30	5,419.9	824.6	554.0	993.4	0.91	0.91	-0.45
5,572.0	11.80	27.10	5,463.9	832.7	558.2	1,002.5	0.59	0.22	-2.67
5,616.0	11.70	28.10	5,507.0	840.6	562.4	1,011.4	0.52	-0.23	2.27
5,662.0	11.90	29.90	5,552.0	848.8	566.9	1,020.7	0.91	0.43	3.91
5,706.0	11.70	29.80	5,595.1	856.6	571.4	1,029.7	0.46	-0.45	-0.23
5,750.0	11.90	28.30	5,638.2	864.5	575.8	1,038.7	0.83	0.45	-3.41
5,794.0	12.90	26.20	5,681.1	872.9	580.1	1,048.1	2.49	2.27	-4.77
5,838.0	13.40	27.20	5,724.0	881.9	584.6	1,058.0	1.25	1.14	2.27
5,884.0	14.30	27.60	5,768.7	891.6	589.7	1,068.9	1.97	1.96	0.87
5,927.0	14.20	29.50	5,810.3	900.9	594.7	1,079.5	1.11	-0.23	4.42
5,971.0	14.20	31.40	5,853.0	910.2	600.2	1,090.2	1.06	0.00	4.32
6,017.0	14.20	32.40	5,897.6	919.8	606.1	1,101.5	0.53	0.00	2.17
6,061.0	14.10	32.80	5,940.2	928.9	611.9	1,112.3	0.32	-0.23	0.91
6,106.0	13.40	33.40	5,984.0	937.8	617.8	1,122.9	1.59	-1.56	1.33
6,152.0	13.40	34.50	6,028.7	946.7	623.7	1,133.6	0.55	0.00	2.39
6,198.0	13.30	33.10	6,073.5	955.5	629.6	1,144.2	0.74	-0.22	-3.04
6,244.0	12.50	32.20	6,118.3	964.1	635.2	1,154.5	1.79	-1.74	-1.96
6,290.0	12.00	30.90	6,163.3	972.5	640.3	1,164.2	1.24	-1.09	-2.83
6,336.0	11.80	29.30	6,208.3	980.7	645.0	1,173.7	0.84	-0.43	-3.48
6,381.0	11.30	29.20	6,252.4	988.5	649.5	1,182.7	1.11	-1.11	-0.22
6,427.0	9.90	28.90	6,297.6	995.9	653.6	1,191.1	3.05	-3.04	-0.65
6,479.0	9.90	28.90	6,348.8	1,003.8	657.9	1,200.0	0.00	0.00	0.00

Checked By: _____ Approved By: _____ Date: _____

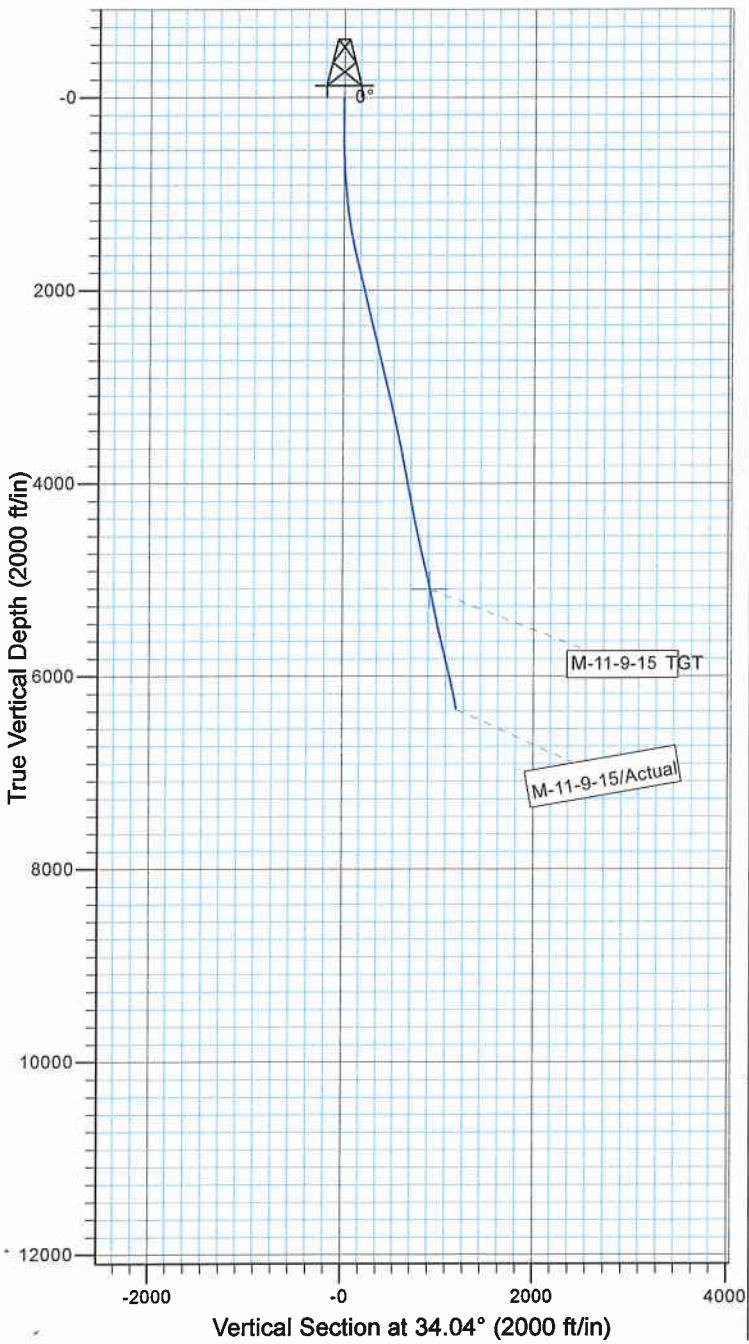
NEWFIELD

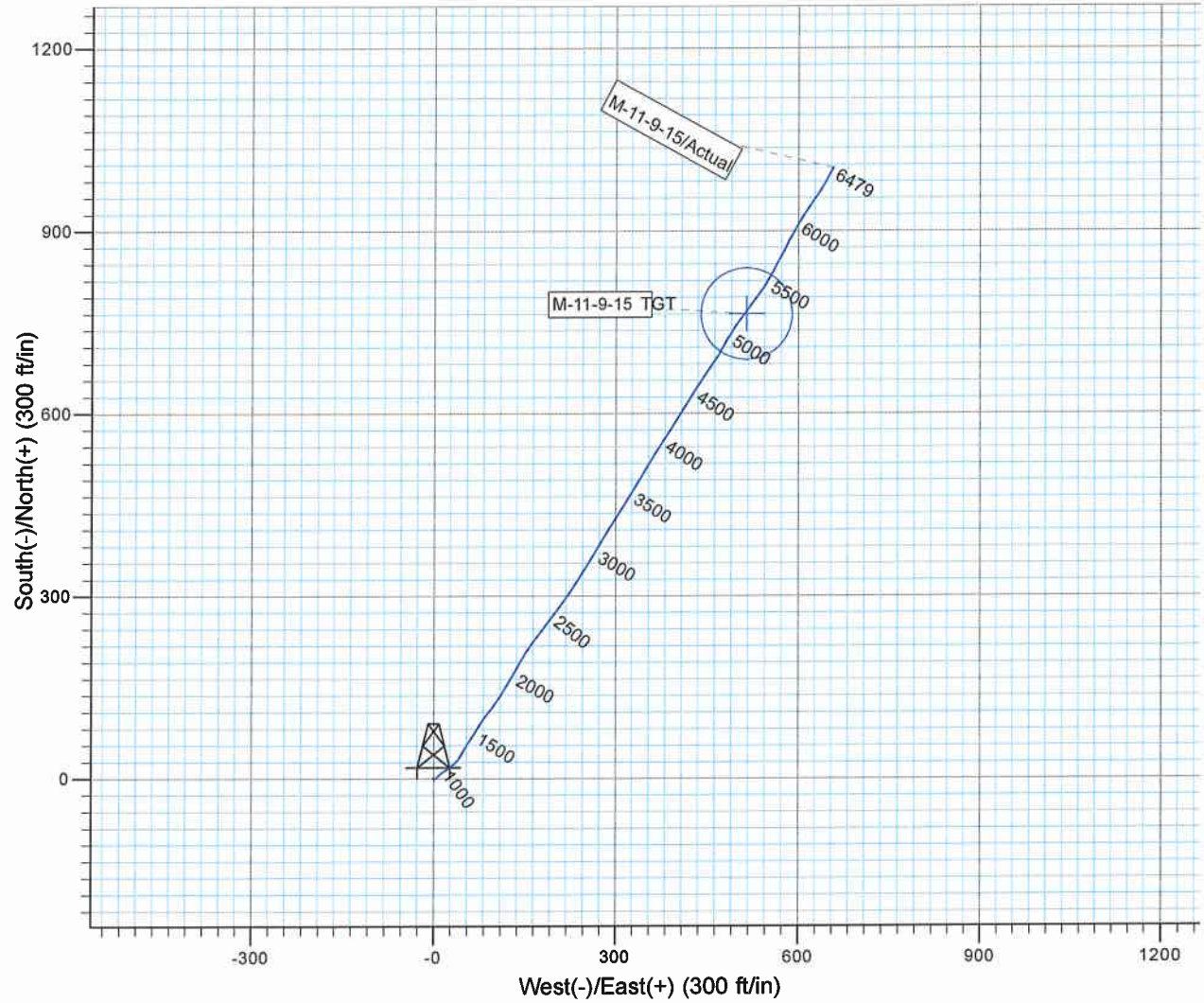
Project: USGS Myton SW (UT)
Site: SECTION 11 T 9S R15E
Well: M-11-9-15
Wellbore: Wellbore #1
Design: Actual

T M

Azimuths to True Nort
Magnetic North: 11.35

Magnetic Fiel
Strength: 52229.1sn
Dip Angle: 65.76
Date: 8/11/201
Model: IGRF201





PAYZONE DIRECTIONAL

Design: Actual (M-11-9-15/Wellbore #1)

Created By: Sarah Webb Date: 13:23, November 20

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