API Well Number: 43013531860000

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 G-20-8-17

2. TYPE OF WORK
DRILL NEW WELL ◉ REENTER P&A WELL ○ DEEPEN WELL ○

3. FIELD OR WILDCAT
MONUMENT BUTTE

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

5. UNIT or COMMUNITIZATION AGREEMENT NAME
GMBU (GRRV)

6. NAME OF OPERATOR
NEWFIELD PRODUCTION COMPANY

7. OPERATOR PHONE
435 646-4825

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

9. OPERATOR E-MAIL
mcrozier@newfield.com

10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)
UTU-76954

11. MINERAL OWNERSHIP
FEDERAL ◉ INDIAN ○ STATE ○ FEE ○

12. SURFACE OWNERSHIP
FEDERAL ○ INDIAN ○ STATE ○ FEE ◉

13. NAME OF SURFACE OWNER (if box 12 = 'fee')
Cedar View SL LLC

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

15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')
155 South 2100 East, Heber City, UT 84032

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	2324 FNL 1036 FWL	SWNW	20	8.0 S	17.0 E	S
Top of Uppermost Producing Zone	1626 FNL 1226 FWL	SWNW	20	8.0 S	17.0 E	S
At Total Depth	1058 FNL 1403 FWL	NENW	20	8.0 S	17.0 E	S

21. COUNTY
DUCHESNE

22. DISTANCE TO NEAREST LEASE LINE (Feet)
1058

23. NUMBER OF ACRES IN DRILLING UNIT
20

25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)
660

26. PROPOSED DEPTH
MD: 6989 TVD: 6845

27. ELEVATION - GROUND LEVEL
5292

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 - 6989	15.5	J-55 LT&C	8.3	Premium Lite High Strength	345	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** 10/17/2014 **EMAIL** mcrozier@newfield.com

API NUMBER ASSIGNED
43013531860000

APPROVAL
Permit Manager

RECEIVED: December 03, 2014

NEWFIELD EXPLORATION
GMBU G-20-8-17
AT SURFACE: SW/NW SECTION 20, T8S, R17E
DUCHESNE COUNTY, UTAH

TEN POINT DRILLING PROGRAM

1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

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

Uinta	0' – 1930'	
Green River	1930'	
Wasatch	6832'	
Proposed TD	6989'(MD)	6845' (TVD)

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

Green River Formation (Oil) 1930' – 6832'

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: October 17, 2014

4. *PROPOSED CASING PROGRAM*

a. Casing Design: GMBU G-20-8-17

Size	Interval		Weight	Grade	Coupling	Design Factors		
	Top	Bottom				Burst	Collapse	Tension
Surface casing 8-5/8"	0'	300'	24.0	J-55	STC	2,950 17.53	1,370 14.35	244,000 33.89
Prod casing 5-1/2"	0'	6,989'	15.5	J-55	LTC	4,810 2.16	4,040 1.82	217,000 2.00

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 G-20-8-17

Job	Fill	Description	Sacks ft^3	OH Excess*	Weight (ppg)	Yield (ft^3/sk)
Surface casing	300'	Class G w/ 2% CaCl	138 161	30%	15.8	1.17
Prod casing Lead	4,989'	Prem Lite II w/ 10% gel + 3% KCl	345 1124	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 Exploration 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 first quarter of 2015, and take approximately seven (7) days from spud to rig release.

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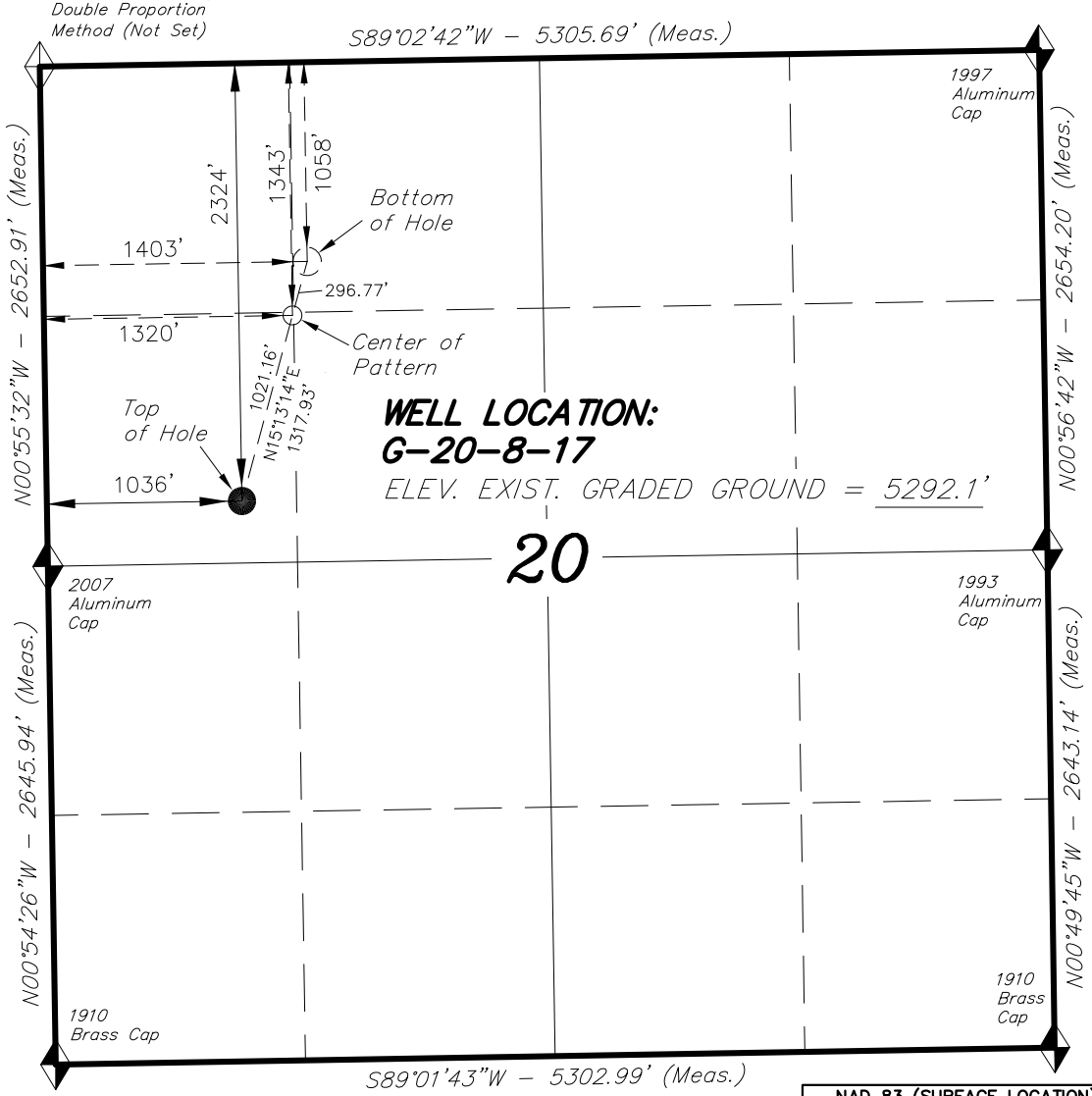
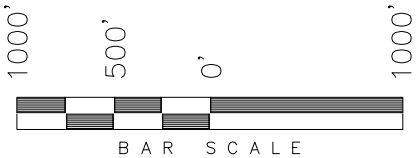
T8S, R17E, S.L.B.&M.

NEWFIELD EXPLORATION COMPANY



WELL LOCATION, G-20-8-17, LOCATED AS SHOWN IN THE SW 1/4 NW 1/4 OF SECTION 20, T8S, R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.

TARGET BOTTOM HOLE, G-20-8-17, LOCATED AS SHOWN IN THE NE 1/4 NW 1/4 OF SECTION 20, T8S, R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



NOTES:

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

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

REGISTERED LAND SURVEYOR No.189377 08-05-14 STACY W. STEWART STATE OF UTAH

REGISTERED LAND SURVEYOR
REGISTRATION No. 189377
STATE OF UTAH

= SECTION CORNERS LOCATED

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

NAD 83 (SURFACE LOCATION)
LATITUDE = 40°06'15.66" LONGITUDE = 110°02'10.12"
NAD 27 (SURFACE LOCATION)
LATITUDE = 40°06'15.80" LONGITUDE = 110°02'07.59"

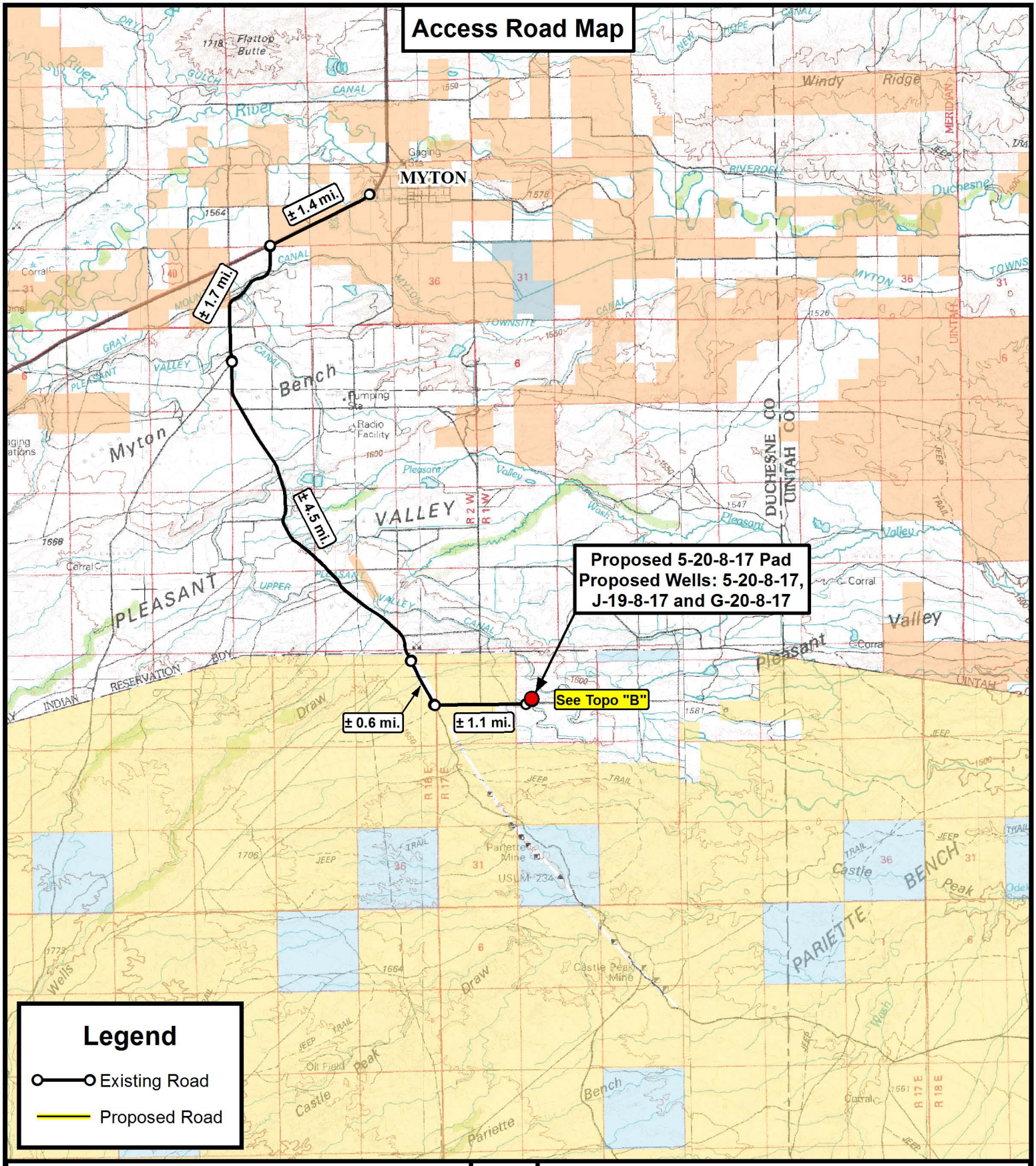
NAD 83 (CENTER OF PATTERN)	NAD 83 (BOTTOM HOLE LOCATION)
LATITUDE = 40°06'25.35" LONGITUDE = 110°02'06.47"	LATITUDE = 40°06'28.17" LONGITUDE = 110°02'05.41"
NAD 27 (CENTER OF PATTERN)	**NAD 27 (BOTTOM HOLE LOCATION)**
LATITUDE = 40°06'25.49" LONGITUDE = 110°02'03.93"	LATITUDE = 40°06'28.31" LONGITUDE = 110°02'02.87"

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

DATE SURVEYED: 06-27-14	SURVEYED BY: S.H.	VERSION:
DATE DRAWN: 08-05-14	DRAWN BY: V.H.	V1
REVISED:	SCALE: 1" = 1000'	

RECEIVED: October 17, 2014

API Well Number: 43013531860000



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F: (435) 781-2518

N

NEWFIELD EXPLORATION COMPANY

Proposed 5-20-8-17 Pad
Proposed Wells: 5-20-8-17, J-19-8-17 and G-20-8-17
Sec. 20, T8S, R17E, S.L.B.&M.
Duchesne County, UT.

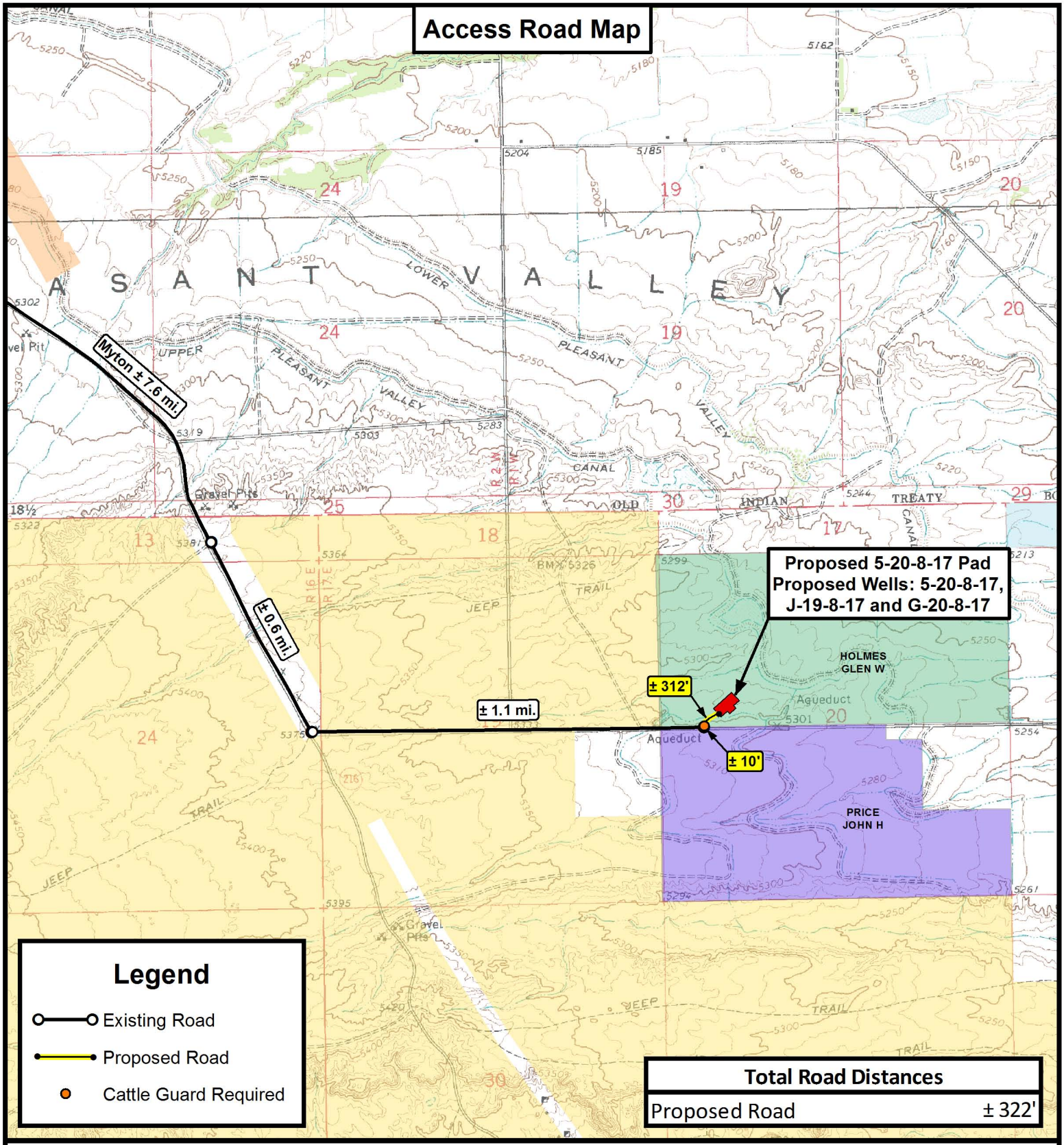
DRAWN BY: A.P.C.	REVISED:	VERSION:	
DATE: 08-21-2014		V1	
SCALE: 1:100,000			

TOPOGRAPHIC MAP

SHEET A

API Well Number: 43013531860000

Access Road Map



Total Road Distances	
Proposed Road	± 322'

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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Proposed 5-20-8-17 Pad
Proposed Wells: 5-20-8-17, J-19-8-17 and G-20-8-17
Sec. 20, T8S, R17E, S.L.B.&M.
Duchesne County, UT.

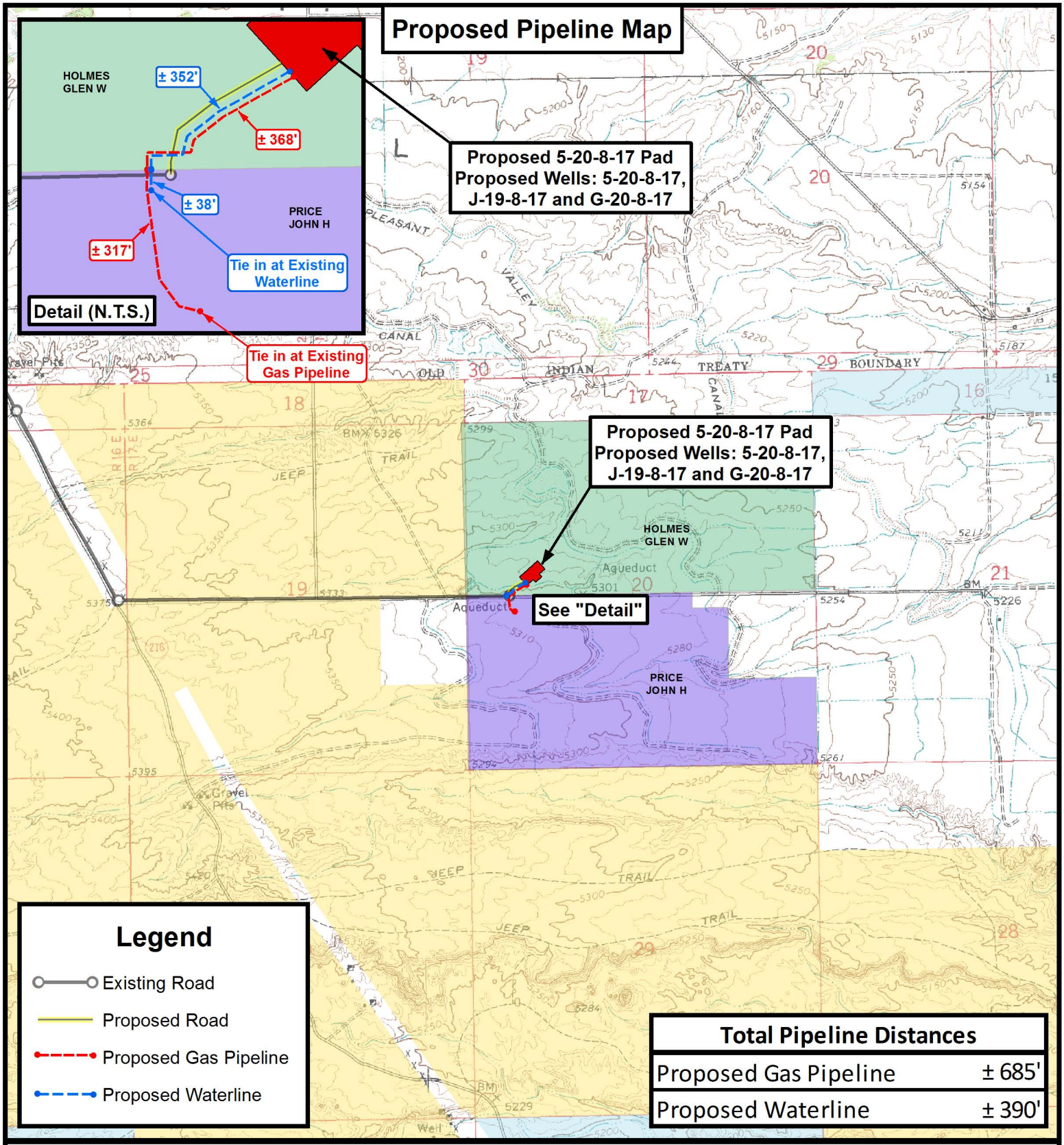
DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	08-21-2014		V1
SCALE:	1 " = 2,000 '		

TOPOGRAPHIC MAP

SHEET B

API Well Number: 43013531860000

Proposed Pipeline Map



Total Pipeline Distances	
Proposed Gas Pipeline	± 685'
Proposed Waterline	± 390'

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NEWFIELD EXPLORATION COMPANY

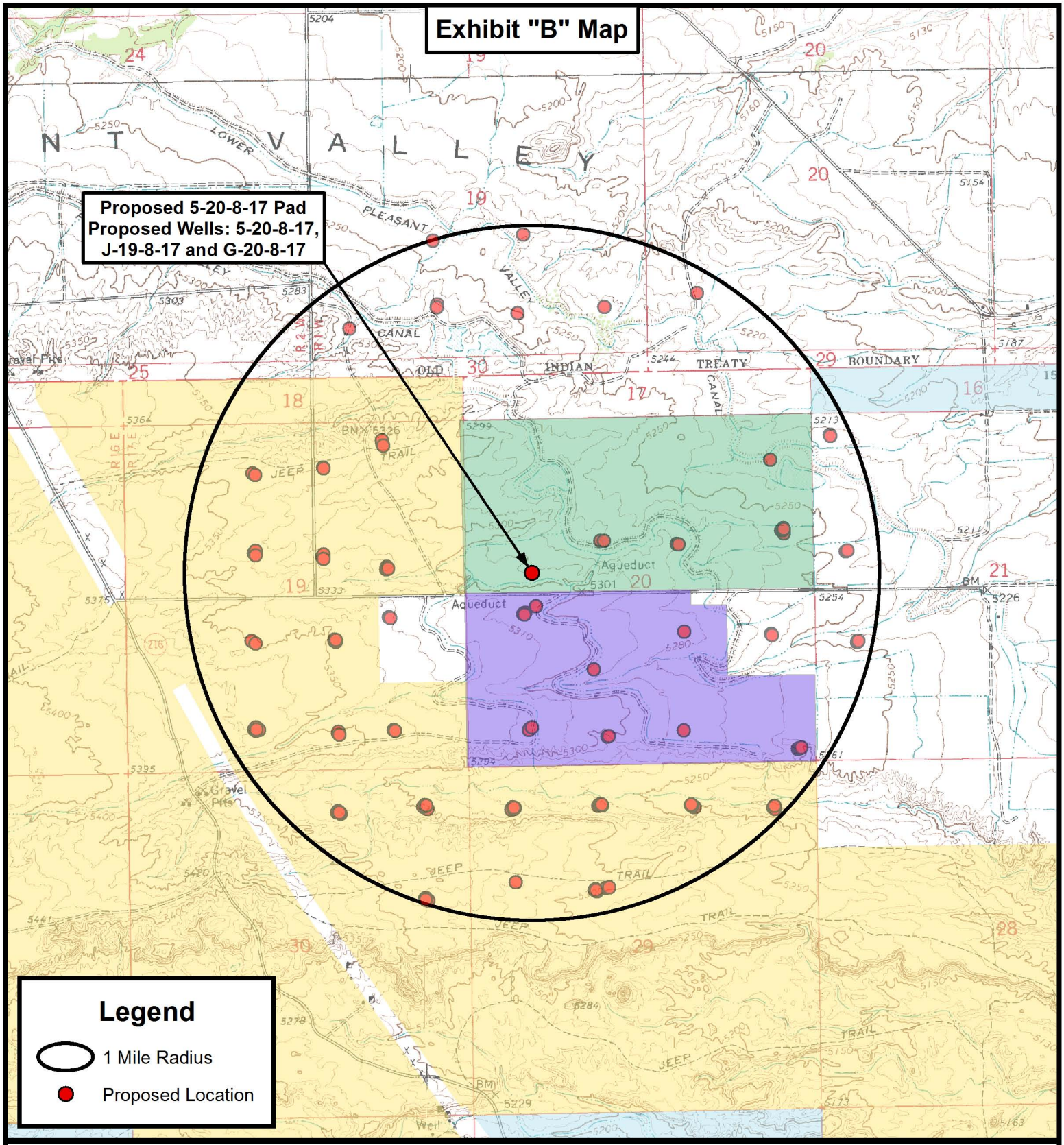
Proposed 5-20-8-17 Pad
Proposed Wells: 5-20-8-17, J-19-8-17 and G-20-8-17
Sec. 20, T8S, R17E, S.L.B.&M.
Duchesne County, UT.

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	08-21-2014		V1
SCALE:	1 " = 2,000 '		

TOPOGRAPHIC MAP

SHEET C

API Well Number: 43013531860000



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NEWFIELD EXPLORATION COMPANY

Proposed 5-20-8-17 Pad
Proposed Wells: 5-20-8-17, J-19-8-17 and G-20-8-17
Sec. 20, T8S, R17E, S.L.B.&M.
Duchesne County, UT.

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	08-21-2014		V1
SCALE:	1 " = 2,000 '		

TOPOGRAPHIC MAP

SHEET D

API Well Number: 43013531860000

Coordinate Report

Well Number	Feature Type	Latitude (NAD 83) (DMS)	Longitude (NAD 83) (DMS)
5-20-8-17	Surface Hole	40° 06' 15.25" N	110° 02' 10.16" W
J-19-8-17	Surface Hole	40° 06' 15.45" N	110° 02' 10.14" W
G-20-8-17	Surface Hole	40° 06' 15.66" N	110° 02' 10.12" W
5-20-8-17	Center of Pattern	40° 06' 19.06" N	110° 02' 14.96" W
J-19-8-17	Center of Pattern	40° 06' 25.33" N	110° 02' 23.84" W
G-20-8-17	Center of Pattern	40° 06' 25.35" N	110° 02' 06.47" W
5-20-8-17	Bottom of Hole	40° 06' 20.13" N	110° 02' 16.31" W
J-19-8-17	Bottom of Hole	40° 06' 28.35" N	110° 02' 28.02" W
G-20-8-17	Bottom of Hole	40° 06' 28.17" N	110° 02' 05.41" W

Well Number	Feature Type	Latitude (NAD 83) (DD)	Longitude (NAD 83) (DD)
5-20-8-17	Surface Hole	40.104235	110.036155
J-19-8-17	Surface Hole	40.104293	110.036150
G-20-8-17	Surface Hole	40.104351	110.036146
5-20-8-17	Center of Pattern	40.105294	110.037489
J-19-8-17	Center of Pattern	40.107036	110.039955
G-20-8-17	Center of Pattern	40.107043	110.035130
5-20-8-17	Bottom of Hole	40.105591	110.037863
J-19-8-17	Bottom of Hole	40.107874	110.041117
G-20-8-17	Bottom of Hole	40.107825	110.034835

Well Number	Feature Type	Northing (NAD 83) (UTM Meters)	Longitude (NAD 83) (UTM Meters)
5-20-8-17	Surface Hole	4439771.488	582148.930
J-19-8-17	Surface Hole	4439777.947	582149.267
G-20-8-17	Surface Hole	4439784.408	582149.612
5-20-8-17	Center of Pattern	4439887.837	582033.959
J-19-8-17	Center of Pattern	4440078.874	581821.727
G-20-8-17	Center of Pattern	4440084.111	582232.937
5-20-8-17	Bottom of Hole	4439920.400	582001.782
J-19-8-17	Bottom of Hole	4440170.821	581721.649
G-20-8-17	Bottom of Hole	4440171.211	582257.152

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NEWFIELD EXPLORATION COMPANY

Proposed 5-20-8-17 Pad
Proposed Wells: 5-20-8-17, J-19-8-17 and G-20-8-17
Sec. 20, T8S, R17E, S.L.B.&M.
Duchesne County, UT.

DRAWN BY:	A.P.C.	REVISED:	
DATE:	08-21-2014		
VERSION:	V1		

COORDINATE REPORT

SHEET 1

RECEIVED: October 17, 2014

API Well Number: 43013531860000

Coordinate Report

Well Number	Feature Type	Latitude (NAD 27) (DMS)	Longitude (NAD 27) (DMS)
5-20-8-17	Surface Hole	40° 06' 15.38" N	110° 02' 07.62" W
J-19-8-17	Surface Hole	40° 06' 15.59" N	110° 02' 07.60" W
G-20-8-17	Surface Hole	40° 06' 15.80" N	110° 02' 07.59" W
5-20-8-17	Center of Pattern	40° 06' 19.20" N	110° 02' 12.42" W
J-19-8-17	Center of Pattern	40° 06' 25.47" N	110° 02' 21.30" W
G-20-8-17	Center of Pattern	40° 06' 25.49" N	110° 02' 03.93" W
5-20-8-17	Bottom of Hole	40° 06' 20.26" N	110° 02' 13.77" W
J-19-8-17	Bottom of Hole	40° 06' 28.48" N	110° 02' 25.48" W
G-20-8-17	Bottom of Hole	40° 06' 28.31" N	110° 02' 02.87" W

Well Number	Feature Type	Latitude (NAD 27) (DD)	Longitude (NAD 27) (DD)
5-20-8-17	Surface Hole	40.104273	110.035450
J-19-8-17	Surface Hole	40.104331	110.035445
G-20-8-17	Surface Hole	40.104389	110.035440
5-20-8-17	Center of Pattern	40.105332	110.036784
J-19-8-17	Center of Pattern	40.107074	110.039250
G-20-8-17	Center of Pattern	40.107081	110.034425
5-20-8-17	Bottom of Hole	40.105629	110.037157
J-19-8-17	Bottom of Hole	40.107912	110.040412
G-20-8-17	Bottom of Hole	40.107863	110.034130

Well Number	Feature Type	Northing (NAD 27) (UTM Meters)	Longitude (NAD 27) (UTM Meters)
5-20-8-17	Surface Hole	4439566.164	582211.160
J-19-8-17	Surface Hole	4439572.623	582211.498
G-20-8-17	Surface Hole	4439579.084	582211.843
5-20-8-17	Center of Pattern	4439682.513	582096.188
J-19-8-17	Center of Pattern	4439873.550	581883.953
G-20-8-17	Center of Pattern	4439878.787	582295.165
5-20-8-17	Bottom of Hole	4439715.076	582064.010
J-19-8-17	Bottom of Hole	4439965.497	581783.873
G-20-8-17	Bottom of Hole	4439965.886	582319.380

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Proposed 5-20-8-17 Pad
Proposed Wells: 5-20-8-17, J-19-8-17 and G-20-8-17
Sec. 20, T8S, R17E, S.L.B.&M.
Duchesne County, UT.

DRAWN BY:	A.P.C.	REVISED:	
DATE:	08-21-2014		
VERSION:	V1		

COORDINATE REPORT

SHEET 2

RECEIVED: October 17, 2014

API Well Number: 43013531860000

NEWFIELD EXPLORATION

USGS Myton SW (UT)
SECTION 20 T8S, R17E
G-20-8-17

Wellbore #1

Plan: Design #1

Standard Planning Report

14 August, 2014

RECEIVED: October 17, 2014

NEWFIELD

Payzone Directional

Planning Report

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well G-20-8-17
Company:	NEWFIELD EXPLORATION	**TVD Reference:**	G-20-8-17 @ 5304.0usft (PLAN KB)
Project:	USGS Myton SW (UT)	**MD Reference:**	G-20-8-17 @ 5304.0usft (PLAN KB)
Site:	SECTION 20 T8S, R17E	**North Reference:**	True
Well:	G-20-8-17	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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

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

Site SECTION 20 T8S, R17E

Site Position:		**Northing:**	7,210,719.77 usft	**Latitude:**	40° 6' 21.320 N
From:	Lat/Long	**Easting:**	2,053,670.53 usft	**Longitude:**	110° 1' 20.880 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.95 °

Well G-20-8-17, SHL: 40° 6' 15.660 -110° 2' 10.120

Well Position	**+N/-S**	-572.4 usft	**Northing:**	7,210,084.24 usft	**Latitude:**	40° 6' 15.660 N
	+E/-W	-3,825.8 usft	**Easting:**	2,049,854.69 usft	**Longitude:**	110° 2' 10.120 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	5,304.0 usft	**Ground Level:**	5,293.0 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/14/2014	10.91	65.77	51,995

Design Design #1

Audit Notes:

Version:	**Phase:**	PROTOTYPE	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	15.22

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	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	
1,450.9	12.76	15.22	1,443.9	91.1	24.8	1.50	1.50	0.00	15.22	
5,645.7	12.76	15.22	5,535.0	985.3	268.1	0.00	0.00	0.00	0.00	G-20-8-17 TGT
6,988.9	12.76	15.22	6,845.0	1,271.7	346.0	0.00	0.00	0.00	0.00	

RECEIVED: October 17, 2014

NEWFIELD

Payzone Directional

Planning Report

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well G-20-8-17
Company:	NEWFIELD EXPLORATION	**TVD Reference:**	G-20-8-17 @ 5304.0usft (PLAN KB)
Project:	USGS Myton SW (UT)	**MD Reference:**	G-20-8-17 @ 5304.0usft (PLAN KB)
Site:	SECTION 20 T8S, R17E	**North Reference:**	True
Well:	G-20-8-17	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
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	15.22	700.0	1.3	0.3	1.3	1.50	1.50	0.00
800.0	3.00	15.22	799.9	5.1	1.4	5.2	1.50	1.50	0.00
900.0	4.50	15.22	899.7	11.4	3.1	11.8	1.50	1.50	0.00
1,000.0	6.00	15.22	999.3	20.2	5.5	20.9	1.50	1.50	0.00
1,100.0	7.50	15.22	1,098.6	31.5	8.6	32.7	1.50	1.50	0.00
1,200.0	9.00	15.22	1,197.5	45.4	12.3	47.0	1.50	1.50	0.00
1,300.0	10.50	15.22	1,296.1	61.7	16.8	64.0	1.50	1.50	0.00
1,400.0	12.00	15.22	1,394.2	80.5	21.9	83.5	1.50	1.50	0.00
1,450.9	12.76	15.22	1,443.9	91.1	24.8	94.4	1.50	1.50	0.00
1,500.0	12.76	15.22	1,491.8	101.5	27.6	105.2	0.00	0.00	0.00
1,600.0	12.76	15.22	1,589.3	122.9	33.4	127.3	0.00	0.00	0.00
1,700.0	12.76	15.22	1,686.8	144.2	39.2	149.4	0.00	0.00	0.00
1,800.0	12.76	15.22	1,784.4	165.5	45.0	171.5	0.00	0.00	0.00
1,900.0	12.76	15.22	1,881.9	186.8	50.8	193.6	0.00	0.00	0.00
2,000.0	12.76	15.22	1,979.4	208.1	56.6	215.7	0.00	0.00	0.00
2,100.0	12.76	15.22	2,076.9	229.5	62.4	237.8	0.00	0.00	0.00
2,200.0	12.76	15.22	2,174.5	250.8	68.2	259.9	0.00	0.00	0.00
2,300.0	12.76	15.22	2,272.0	272.1	74.0	282.0	0.00	0.00	0.00
2,400.0	12.76	15.22	2,369.5	293.4	79.8	304.1	0.00	0.00	0.00
2,500.0	12.76	15.22	2,467.1	314.7	85.6	326.2	0.00	0.00	0.00
2,600.0	12.76	15.22	2,564.6	336.0	91.4	348.3	0.00	0.00	0.00
2,700.0	12.76	15.22	2,662.1	357.4	97.2	370.4	0.00	0.00	0.00
2,800.0	12.76	15.22	2,759.6	378.7	103.0	392.4	0.00	0.00	0.00
2,900.0	12.76	15.22	2,857.2	400.0	108.8	414.5	0.00	0.00	0.00
3,000.0	12.76	15.22	2,954.7	421.3	114.6	436.6	0.00	0.00	0.00
3,100.0	12.76	15.22	3,052.2	442.6	120.4	458.7	0.00	0.00	0.00
3,200.0	12.76	15.22	3,149.8	464.0	126.2	480.8	0.00	0.00	0.00
3,300.0	12.76	15.22	3,247.3	485.3	132.0	502.9	0.00	0.00	0.00
3,400.0	12.76	15.22	3,344.8	506.6	137.8	525.0	0.00	0.00	0.00
3,500.0	12.76	15.22	3,442.3	527.9	143.6	547.1	0.00	0.00	0.00
3,600.0	12.76	15.22	3,539.9	549.2	149.4	569.2	0.00	0.00	0.00
3,700.0	12.76	15.22	3,637.4	570.5	155.2	591.3	0.00	0.00	0.00
3,800.0	12.76	15.22	3,734.9	591.9	161.0	613.4	0.00	0.00	0.00
3,900.0	12.76	15.22	3,832.5	613.2	166.8	635.5	0.00	0.00	0.00
4,000.0	12.76	15.22	3,930.0	634.5	172.6	657.6	0.00	0.00	0.00
4,100.0	12.76	15.22	4,027.5	655.8	178.4	679.7	0.00	0.00	0.00
4,200.0	12.76	15.22	4,125.0	677.1	184.2	701.8	0.00	0.00	0.00
4,300.0	12.76	15.22	4,222.6	698.5	190.0	723.9	0.00	0.00	0.00
4,400.0	12.76	15.22	4,320.1	719.8	195.8	745.9	0.00	0.00	0.00
4,500.0	12.76	15.22	4,417.6	741.1	201.6	768.0	0.00	0.00	0.00
4,600.0	12.76	15.22	4,515.2	762.4	207.4	790.1	0.00	0.00	0.00
4,700.0	12.76	15.22	4,612.7	783.7	213.2	812.2	0.00	0.00	0.00
4,800.0	12.76	15.22	4,710.2	805.1	219.0	834.3	0.00	0.00	0.00
4,900.0	12.76	15.22	4,807.7	826.4	224.8	856.4	0.00	0.00	0.00
5,000.0	12.76	15.22	4,905.3	847.7	230.6	878.5	0.00	0.00	0.00
5,100.0	12.76	15.22	5,002.8	869.0	236.4	900.6	0.00	0.00	0.00
5,200.0	12.76	15.22	5,100.3	890.3	242.2	922.7	0.00	0.00	0.00

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NEWFIELD

Payzone Directional

Planning Report

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well G-20-8-17
Company:	NEWFIELD EXPLORATION	**TVD Reference:**	G-20-8-17 @ 5304.0usft (PLAN KB)
Project:	USGS Myton SW (UT)	**MD Reference:**	G-20-8-17 @ 5304.0usft (PLAN KB)
Site:	SECTION 20 T8S, R17E	**North Reference:**	True
Well:	G-20-8-17	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	12.76	15.22	5,197.9	911.6	248.0	944.8	0.00	0.00	0.00
5,400.0	12.76	15.22	5,295.4	933.0	253.8	966.9	0.00	0.00	0.00
5,500.0	12.76	15.22	5,392.9	954.3	259.6	989.0	0.00	0.00	0.00
5,600.0	12.76	15.22	5,490.4	975.6	265.4	1,011.1	0.00	0.00	0.00
5,645.7	12.76	15.22	5,535.0	985.3	268.1	1,021.2	0.00	0.00	0.00
5,700.0	12.76	15.22	5,588.0	996.9	271.2	1,033.2	0.00	0.00	0.00
5,800.0	12.76	15.22	5,685.5	1,018.2	277.0	1,055.3	0.00	0.00	0.00
5,900.0	12.76	15.22	5,783.0	1,039.6	282.8	1,077.3	0.00	0.00	0.00
6,000.0	12.76	15.22	5,880.6	1,060.9	288.6	1,099.4	0.00	0.00	0.00
6,100.0	12.76	15.22	5,978.1	1,082.2	294.4	1,121.5	0.00	0.00	0.00
6,200.0	12.76	15.22	6,075.6	1,103.5	300.2	1,143.6	0.00	0.00	0.00
6,300.0	12.76	15.22	6,173.2	1,124.8	306.0	1,165.7	0.00	0.00	0.00
6,400.0	12.76	15.22	6,270.7	1,146.2	311.8	1,187.8	0.00	0.00	0.00
6,500.0	12.76	15.22	6,368.2	1,167.5	317.6	1,209.9	0.00	0.00	0.00
6,600.0	12.76	15.22	6,465.7	1,188.8	323.4	1,232.0	0.00	0.00	0.00
6,700.0	12.76	15.22	6,563.3	1,210.1	329.2	1,254.1	0.00	0.00	0.00
6,800.0	12.76	15.22	6,660.8	1,231.4	335.0	1,276.2	0.00	0.00	0.00
6,900.0	12.76	15.22	6,758.3	1,252.7	340.8	1,298.3	0.00	0.00	0.00
6,988.9	12.76	15.22	6,845.0	1,271.7	346.0	1,317.9	0.00	0.00	0.00

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
G-20-8-17 TGT - plan hits target center - Circle (radius 75.0)	0.00	0.00	5,535.0	985.3	268.1	7,211,073.83	2,050,106.62	40° 6' 25.398 N	110° 2' 6.669 W

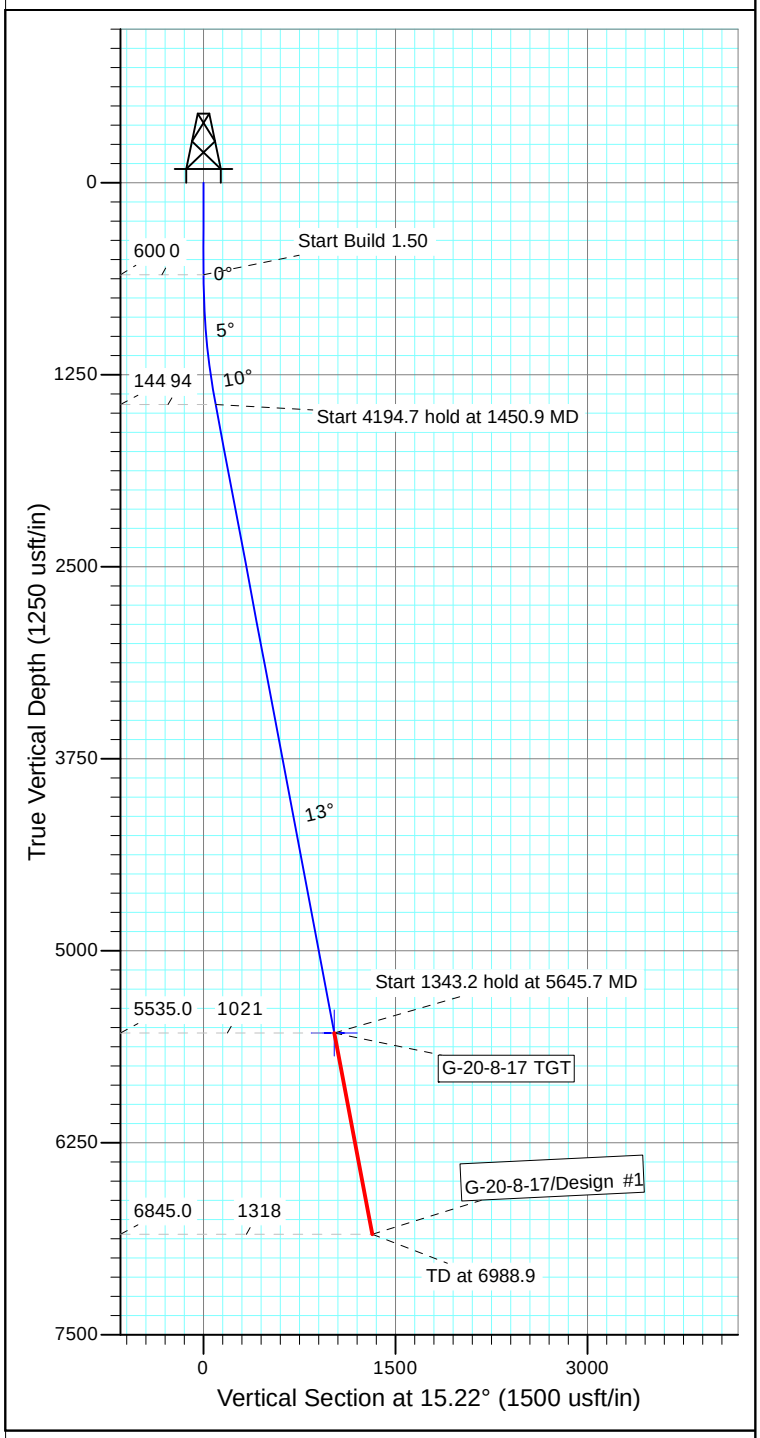
RECEIVED: October 17, 2014

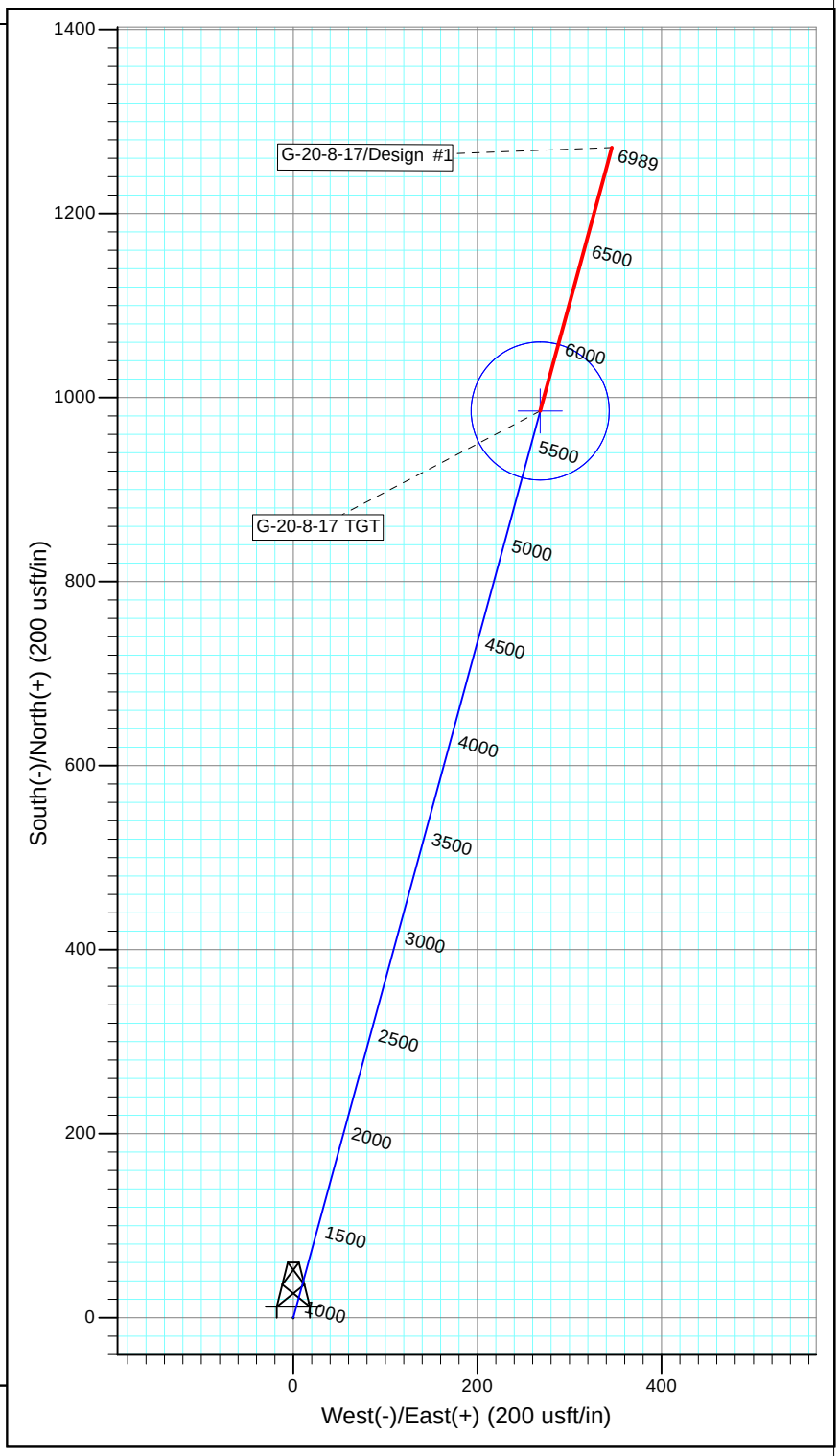
API Well Number: 43013531860000

Project: USGS Myton SW (UT)
Site: SECTION 20 T8S, R17E
Well: G-20-8-17
Wellbore: Wellbore #1
Design: Design #1

Azimuths to True North
Magnetic North: 10.91°

Magnetic Field
Strength: 51995.4snT
Dip Angle: 65.77°
Date: 8/14/2014
Model: IGRF2010





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
G-20-8-17 TGT	5535.0	985.3	268.1	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	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	1450.9	12.76	15.22	1443.9	91.1	24.8	1.50	15.22	94.4	
4	5645.7	12.76	15.22	5535.0	985.3	268.1	0.00	0.00	1021.2	G-20-8-17 TGT
5	6988.9	12.76	15.22	6845.0	1271.7	346.0	0.00	0.00	1317.9	

AFFIDAVIT OF EASEMENT, RIGHT-OF-WAY, AND SURFACE USE AGREEMENT

Isaac Evans personally appeared before me, being duly sworn, deposes and with respect to State of Utah R649-3-34.7 says:

1. My name is Isaac Evans. I am a Landman for Newfield Production Company, whose address is 1001 17th Street, Suite 2000, Denver, CO 80202 ("Newfield").

2. Newfield is the Operator of the proposed GMBU G-20-8-17 well with a surface location to be positioned in the SWNW of Section 20, Township 8 South, Range 17 East of the S.L.B.&M (the "Drillsite Location"), and a bottom hole location in the NENW of Section 20, Township 8 South, Range 17 East, Duchesne County, Utah. The surface owner of the Drillsite Location is Cedar View SL LLC, Glen Holmes as Manager, whose address is 155 S. 2100 East, Heber City, UT 84032 ("Drillsite Surface Owner").

3. A portion of the Drillsite access road and pipeline is located in the NWSW of Section 20, Township 8 South, Range 17 East of the S.L.B.&M (the "Adjacent Drillsite Access Road and Pipeline"). The surface owner of the Off Lease Drillsite Access Road and Pipeline is John H. Price and Brenda P. Price, whose address is 935 South Center, Midway, UT 84049 ("Adjacent Drillsite Access Road and Pipeline Surface Owner").

4. Newfield's predecessor and the Drillsite Surface Owner's predecessor entered into a surface agreement dated September 25, 1984 covering the Drillsite Location.

5. Newfield and the Adjacent Drillsite Access Road and Pipeline Surface Owner's predecessor entered into a surface agreement dated September 22, 2014 covering the Adjacent Drillsite Access Road and Pipeline.

FURTHER AFFIANT SAYETH NOT.

Isaac Evans

ACKNOWLEDGEMENT

STATE OF COLORADO §
§
COUNTY OF DENVER §

Before me, a Notary Public, in and for the State, on this 24th day of October, 2014, personally appeared Isaac Evans, to me known to be the identical person who executed the foregoing instrument, and acknowledged to me that he executed the same as his own free and voluntary act and deed for the uses and purposes therein set forth.

Mary Kathryn Portus
NOTARY PUBLIC

MARY KATHRYN PORTUS
Notary Public
State of Colorado
Notary ID 19934001921
My Commission Expires Feb 15, 2017

My Commission Expires

NEWFIELD EXPLORATION
GMBU G-20-8-17
AT SURFACE: SW/NW SECTION 20, T8S R17E
DUCHESNE COUNTY, UTAH

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. EXISTING ROADS

See attached Topographic Map "A"

To reach Newfield Exploration well location site GMBU G-20-8-17 located in the SW 1/4 NW 1/4 Section 20, T8S, R17E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles ± to the junction of this highway and UT State Hwy 53; proceed southwesterly along Hwy 53 – 1.7 miles ± to it's junction with an existing road to the southeast; proceed southeasterly – 5.1 miles ± to it's junction with an existing road to the east; proceed in a easterly direction – 1.1 miles ± to it's junction with the beginning of the proposed access road to the northeast; proceed in a northeasterly direction along the proposed access road approximately 322' ± to the proposed G-20-8-17 well location.

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

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

2. PLANNED ACCESS ROAD

Approximately 322' of access road is planned. See attached **Topographic Map "B"**.

The planned access road will consist of a 20-foot permanent running surface crowned and ditched in order to handle any run-off from any precipitation events. The maximum grade will be 10% or less.

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

RECEIVED: October 17, 2014

Newfield Exploration requests 322' on newly proposed access road. **Refer to Topographic Map "B".** Newfield Exploration requests 685' of surface gas line be granted. Newfield Exploration requests 390' of buried gas line be granted.

It is proposed that the disturbed area will be 60' wide to allow for construction of the proposed access road, a 10" or smaller gas gathering line, a 4" poly fuel gas line, a buried 10" steel water injection line, a buried 3" poly water return line, and a and a 14" surface flow line. The planned access road will consist of a 20' permanent running surface (10' either side of the centerline) crowned and ditched in order to handle any run-off from any precipitation events that are prevalent to this area. The maximum grade will be less than 8%. There will be no culverts required along this access road. There will be turnouts as needed along this road to allow for increases in potential traffic issues. 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.

Both the proposed surface gas and buried water lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."** The proposed water pipelines will be buried in a 4-5' deep trench constructed with a trencher or backhoe for the length of the proposal. The equipment will run on the surface and not be flat bladed to minimize surface impacts to precious topsoil in these High Desert environments. If possible, all proposed surface gas pipelines will be installed on the same side of the road as existing gas lines. The construction phase of the planned access road, proposed gas lines and proposed water lines will last approximately (5) days.

In the event that the proposed well is converted to a water injection well, a Sundry Notice 3160-5 form will be applied for through the Bureau of Land Management field office.

Both the proposed surface gas and buried water lines will tie in to the existing pipeline.

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

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

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

Tank batteries will be built to State specifications.

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

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

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

Johnson Water District
Water Right : 43-7478

Maurice Harvey Pond
Water Right: 47-1358

Neil Moon Pond
Water Right: 43-11787

Newfield Collector Well

RECEIVED: October 17, 2014

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 pit (80 feet x 120 feet x 8 feet deep, or less) will be constructed inboard of the pad area. The 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.

The pit would be lined with 16 mil (minimum) thickness polyethylene nylon reinforced liner material. The liner(s) would overlay straw, dirt and/or bentonite if rock is encountered during excavation. The liner would overlap the pit walls and be covered with dirt and/or rocks to hold them in place. No trash, scrap pipe, or other materials that could puncture the liner would be discarded in the pit. A minimum of two feet of free board would be maintained between the maximum fluid level and the top of the pit at all times.

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

A portable toilet will be provided for human waste.

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

8. ANCILLARY FACILITIES

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

9. WELL SITE LAYOUT

See attached Location Layout Sheet.

Fencing Requirements

a) All pits will be fenced or have panels installed consistent with the following minimum standards:

1. The wire shall be no more than two (2) inches above the ground. If barbed wire is utilized it will be installed three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.

2. Corner posts shall be centered and/or braced in such a manner to keep tight and upright at all times

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

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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*** – Glen Holmes. See attached Affidavit of Easement, Right of Way, and Surface Use Agreement.

12. ***OTHER ADDITIONAL INFORMATION***

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. State of Utah Antiquities Project Permit # U-14-MQ-0928bp, 10/14/14, prepared by Montgomery Archaeological Consultants. Paleontological Resource Survey prepared by, SWCA. Report # UT14-14273-164, September 2014. See attached report cover pages, Exhibit “D”.

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

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

Hazardous Material Declaration
Newfield Exploration guarantees that during the drilling and completion of the GMBU G-20-8-17, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency’s consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the GMBU G-20-8-17, Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

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

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

Certification
Please be advised that NEWFIELD EXPLORATION is considered to be the operator of well #G-20-8-17, Section 20, Township 8S, Range 17E: Lease UTU-76954 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 Exploration 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.

mcrozier@newfield.com

Digitally signed by mcrozier@newfield.com
DN: cn=mcrozier@newfield.com
Date: 2014.10.17 12:37:56 -06'00'

_____10/17/14_____
Date

Mandie Crozier
Regulatory Specialist
Newfield Exploration

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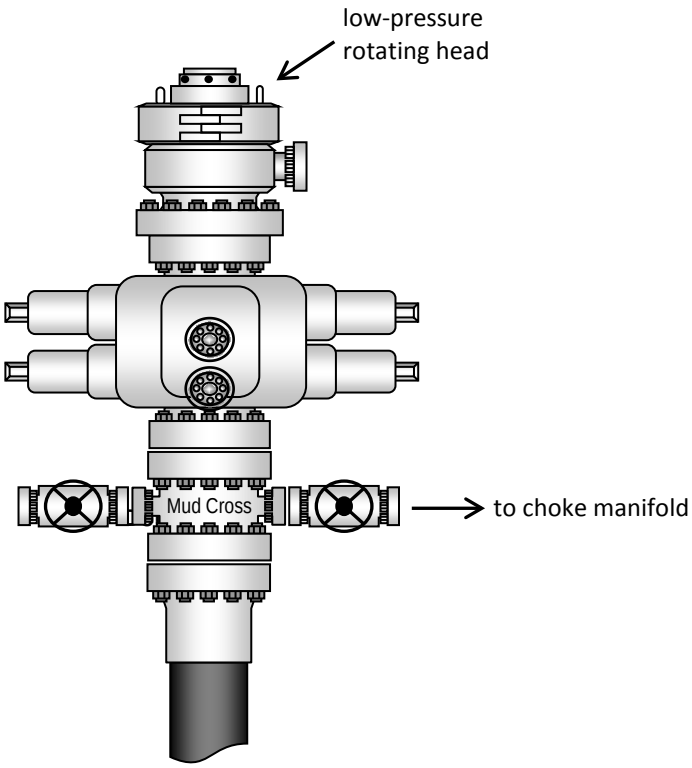
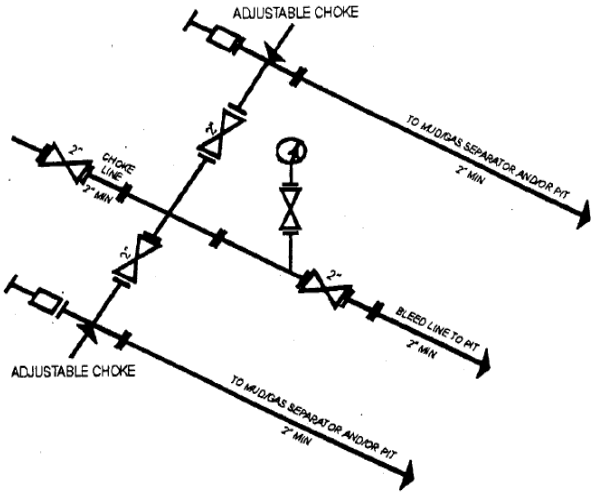
Typical 2M BOP stack configuration





2M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

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NEWFIELD EXPLORATION COMPANY

WELL PAD INTERFERENCE PLAT
PROPOSED 5-20-8-17 PAD
PROPOSED WELLS: 5-20-8-17, J-19-8-17, AND G-20-8-17

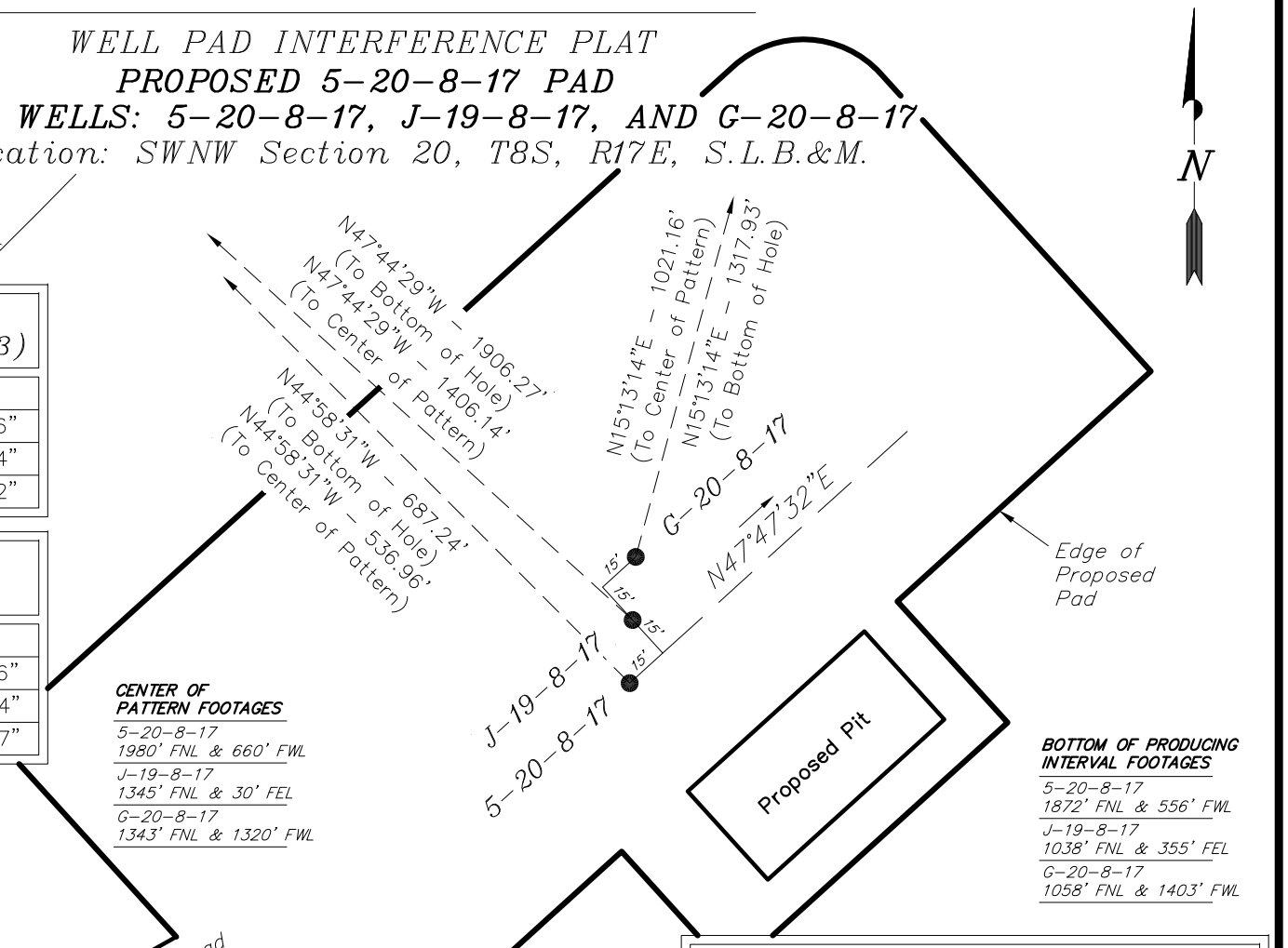
Pad Location: SWNW Section 20, T8S, R17E, S.L.B.&M.

TOP HOLE FOOTAGES

5-20-8-17
2366' FNL & 1033' FWL

J-19-8-17
2345' FNL & 1035' FWL

G-20-8-17
2324' FNL & 1036' FWL



LATITUDE & LONGITUDE
Surface position of Wells (NAD 83)

WELL	LATITUDE	LONGITUDE
5-20-8-17	40° 06' 15.25"	110° 02' 10.16"
J-19-8-17	40° 06' 15.45"	110° 02' 10.14"
G-20-8-17	40° 06' 15.66"	110° 02' 10.12"

LATITUDE & LONGITUDE
Center of Pattern (NAD 83)

WELL	LATITUDE	LONGITUDE
5-20-8-17	40° 06' 19.06"	110° 02' 14.96"
J-19-8-17	40° 06' 25.33"	110° 02' 23.84"
G-20-8-17	40° 06' 25.35"	110° 02' 06.47"

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

WELL	NORTH	EAST
5-20-8-17	380'	-380'
J-19-8-17	982'	-1,081'
G-20-8-17	985'	268'

RELATIVE COORDINATES
From Top Hole to Bottom Hole

WELL	NORTH	EAST
5-20-8-17	486'	-486'
J-19-8-17	1,282'	-1,411'
G-20-8-17	1,272'	346'

CENTER OF PATTERN FOOTAGES

5-20-8-17
1980' FNL & 660' FWL

J-19-8-17
1345' FNL & 30' FEL

G-20-8-17
1343' FNL & 1320' FWL

BOTTOM OF PRODUCING INTERVAL FOOTAGES

5-20-8-17
1872' FNL & 556' FWL

J-19-8-17
1038' FNL & 355' FEL

G-20-8-17
1058' FNL & 1403' FWL

LATITUDE & LONGITUDE
Bottom Hole Position (NAD 83)

WELL	LATITUDE	LONGITUDE
5-20-8-17	40° 06' 20.13"	110° 02' 16.31"
J-19-8-17	40° 06' 28.35"	110° 02' 28.02"
G-20-8-17	40° 06' 28.17"	110° 02' 05.41"

Note:
Bearings are based on GPS Observations.

SURVEYED BY: S.H.	DATE SURVEYED: 06-27-14	VERSION:	Tri State Land Surveying, Inc.	(435) 781-2501
DRAWN BY: V.H.	DATE DRAWN: 08-05-14	V1	180 NORTH VERNAL AVE. VERNAL, UTAH 84078	
SCALE: 1" = 60'	REVISED:			

RECEIVED: October 17, 2014

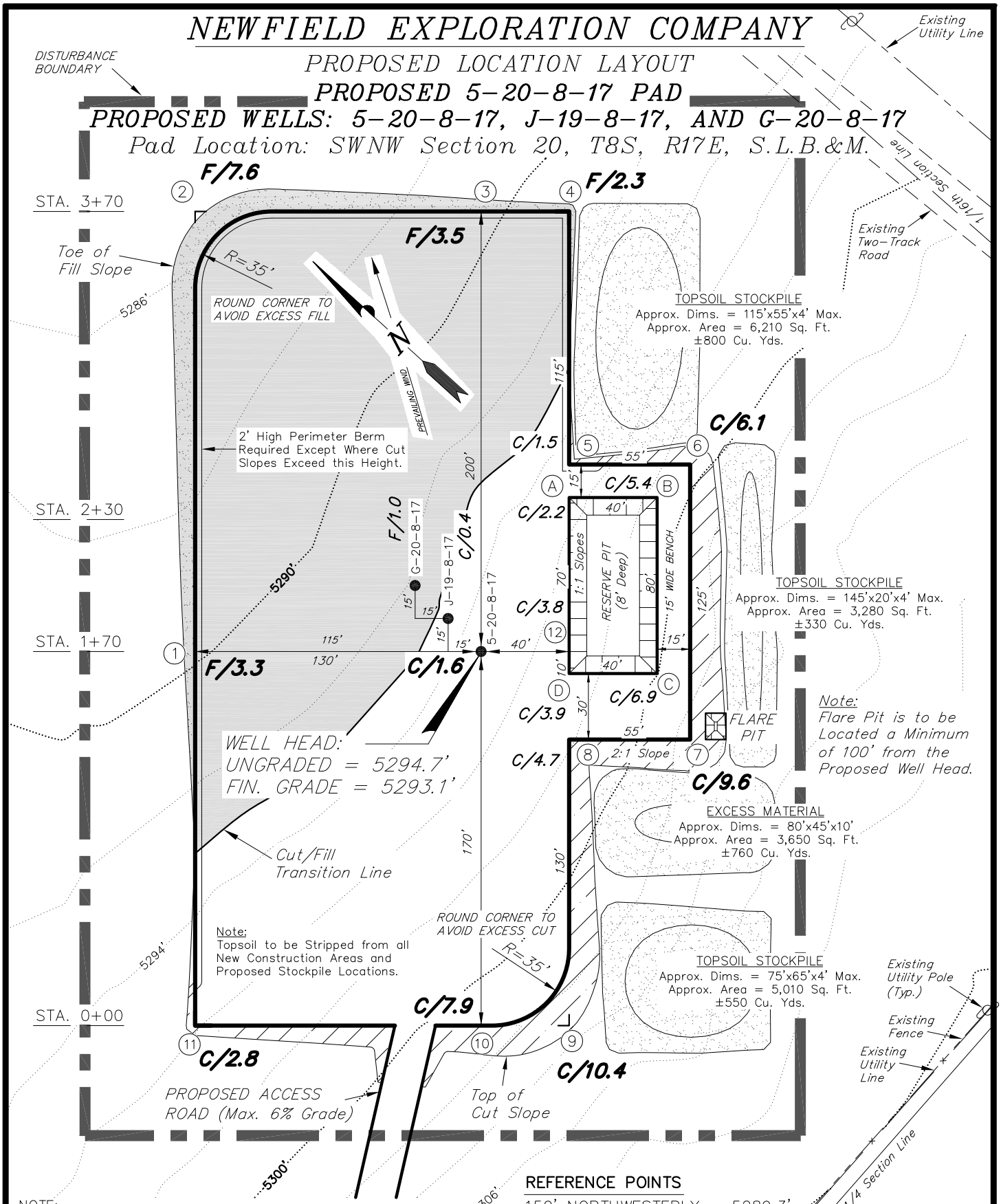
NEWFIELD EXPLORATION COMPANY

PROPOSED LOCATION LAYOUT

PROPOSED 5-20-8-17 PAD

PROPOSED WELLS: 5-20-8-17, J-19-8-17, AND G-20-8-17

Pad Location: SWNW Section 20, T8S, R17E, S.L.B.&M.



NOTE:
The topsoil & excess material areas are calculated as being mounds containing 2,440 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.

REFERENCE POINTS

150' NORTHWESTERLY – 5289.3'
180' NORTHWESTERLY – 5289.2'
250' NORTHEASTERLY – 5288.3'
300' NORTHEASTERLY – 5287.0'

SURVEYED BY: S.H.	DATE SURVEYED: 06-27-14	VERSION:	Tri State Land Surveying, Inc. (435) 781-2501
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SCALE: 1" = 60'	REVISED:		

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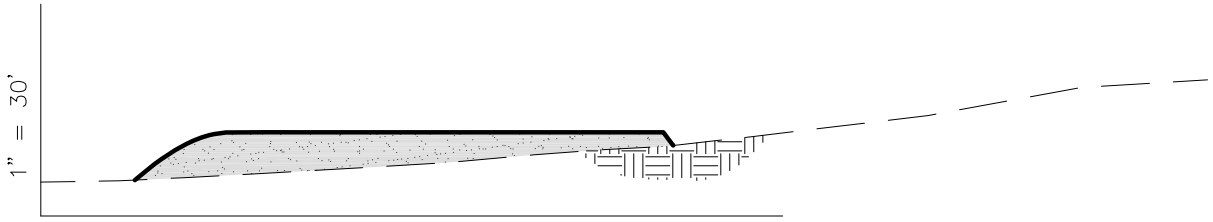
NEWFIELD EXPLORATION COMPANY

CROSS SECTIONS

PROPOSED 5-20-8-17 PAD

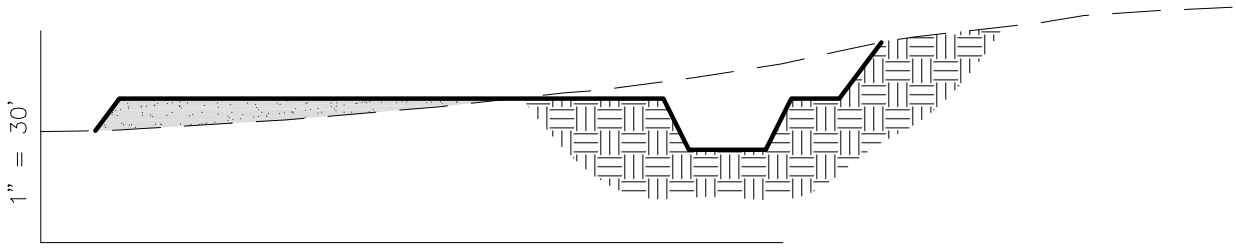
PROPOSED WELLS: 5-20-8-17, J-19-8-17, AND G-20-8-17

Pad Location: SWNW Section 20, T8S, R17E, S.L.B.&M.



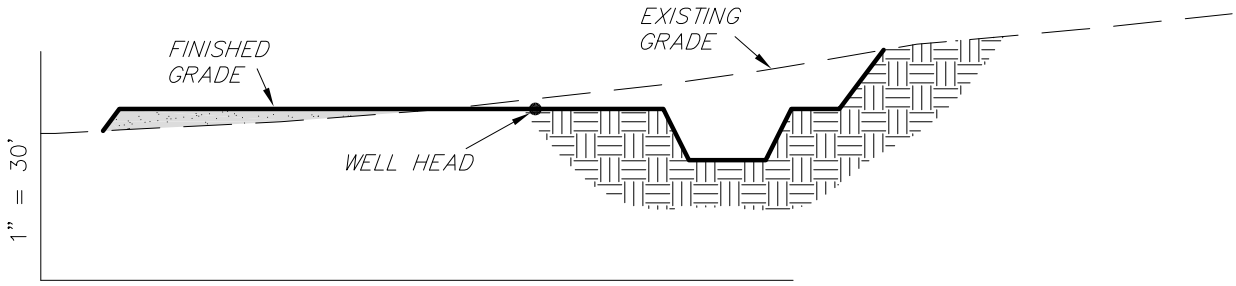
1" = 60'

STA. 3+70



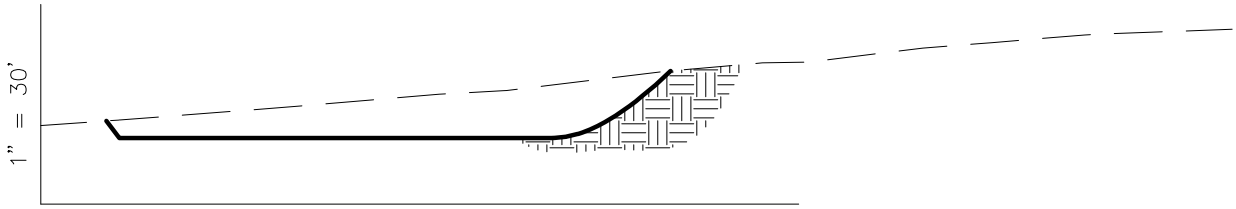
1" = 60'

STA. 2+30



1" = 60'

STA. 1+70



1" = 60'

STA. 0+00

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

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	4,770	4,770	Topsoil is not included in Pad Cut Volume	0
PIT	690	0		690
TOTALS	5,460	4,770	1,530	690

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

SURVEYED BY: S.H.	DATE SURVEYED: 06-27-14	VERSION:	Tri State Land Surveying, Inc. (435) 781-2501
DRAWN BY: V.H.	DATE DRAWN: 08-05-14	V1	180 NORTH VERNAL AVE. VERNAL, UTAH 84078
SCALE: 1" = 60'	REVISED:		

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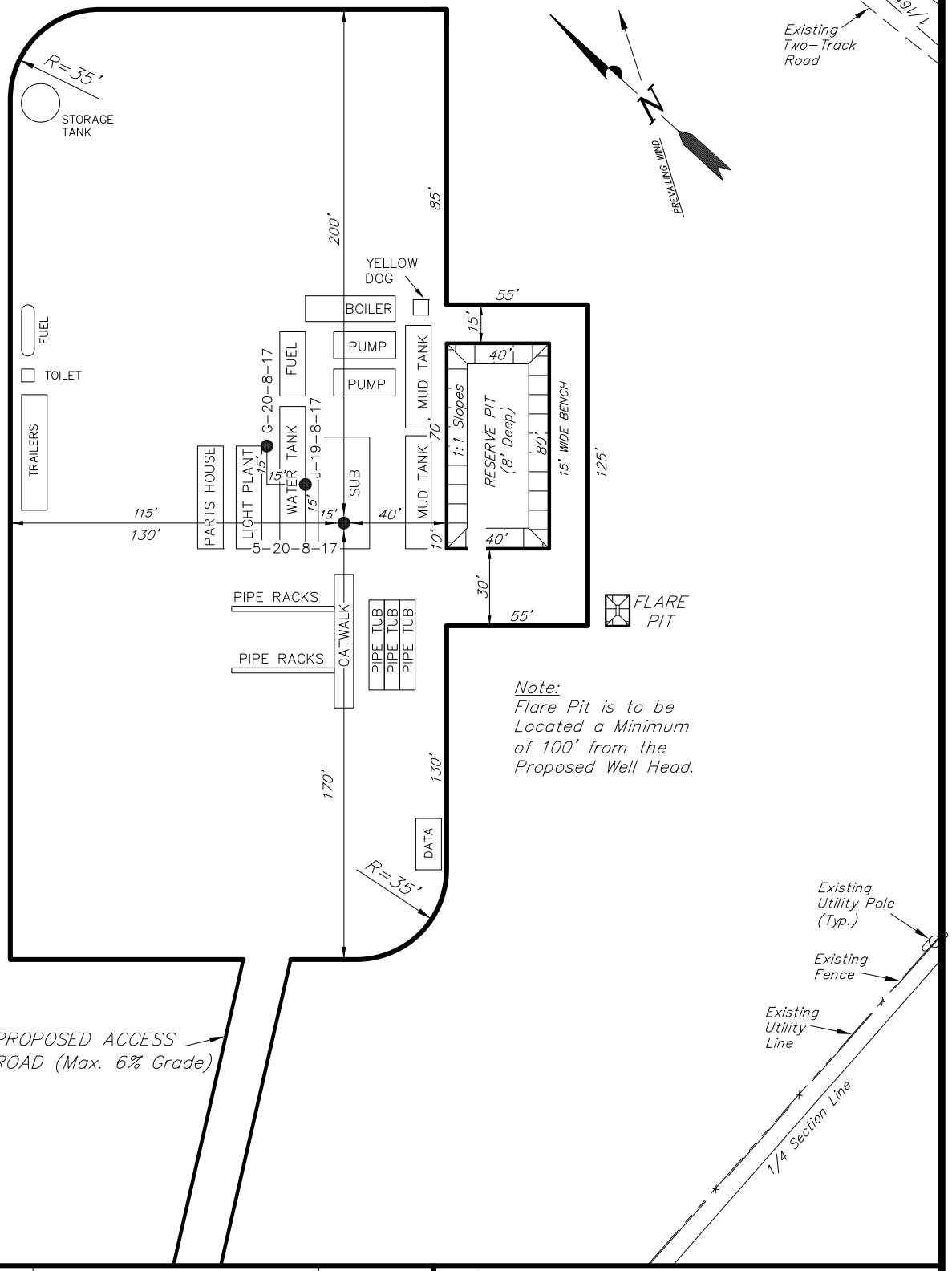
NEWFIELD EXPLORATION COMPANY

TYPICAL RIG LAYOUT

PROPOSED 5-20-8-17 PAD

PROPOSED WELLS: 5-20-8-17, J-19-8-17, AND G-20-8-17

Pad Location: SWNW Section 20, T8S, R17E, S.L.B.&M.



SURVEYED BY: S.H.	DATE SURVEYED: 06-27-14	VERSION:	Tri State Land Surveying, Inc. (435) 781-2501
DRAWN BY: V.H.	DATE DRAWN: 08-05-14	V1	180 NORTH VERNAL AVE. VERNAL, UTAH 84078
SCALE: 1" = 60'	REVISED:		

RECEIVED: October 17, 2014

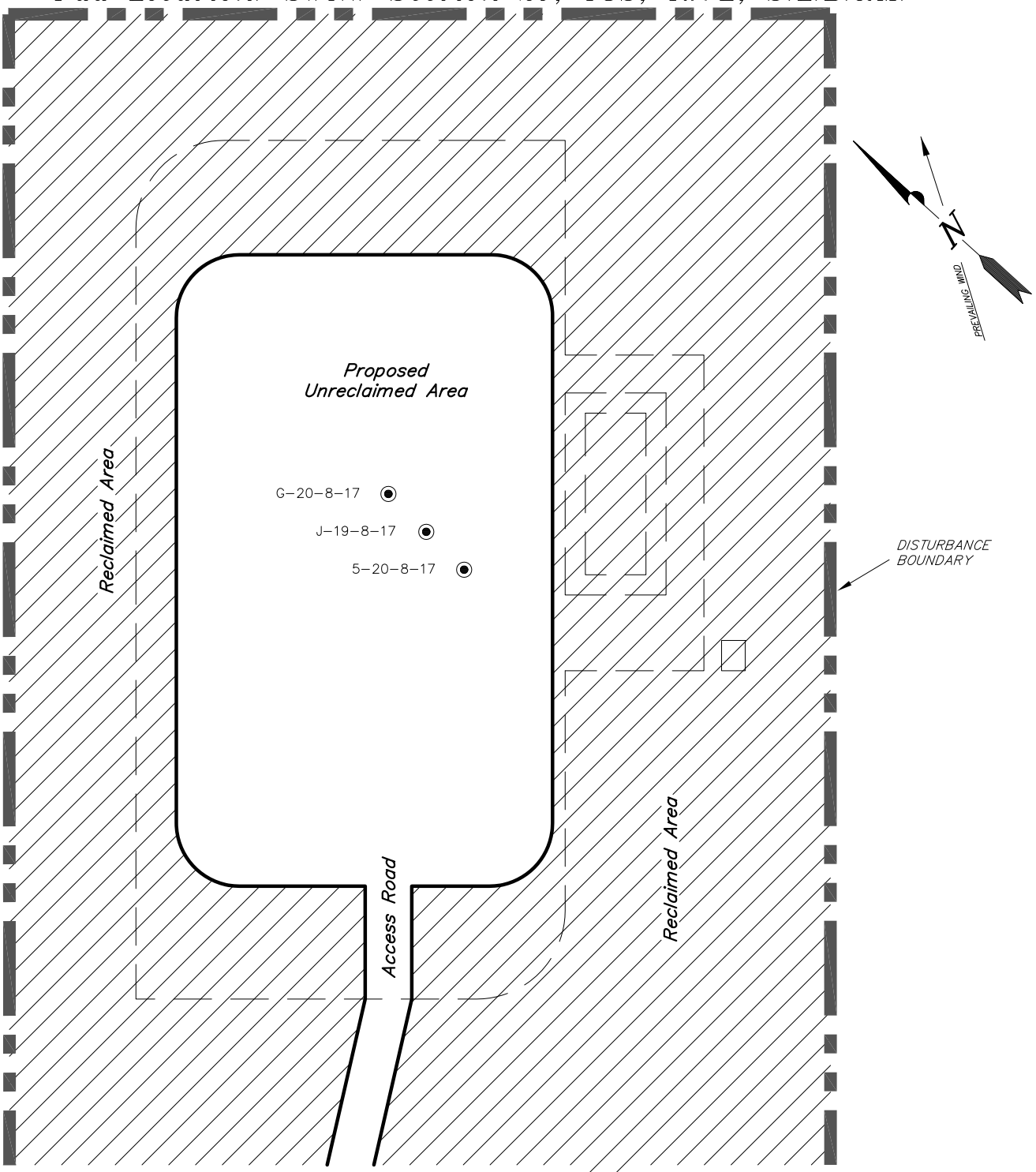
NEWFIELD EXPLORATION COMPANY

RECLAMATION LAYOUT

PROPOSED 5-20-8-17 PAD

PROPOSED WELLS: 5-20-8-17, J-19-8-17, AND G-20-8-17

Pad Location: SWNW Section 20, T8S, R17E, S.L.B.&M.



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

DISTURBED AREA:

TOTAL DISTURBED AREA = ±3.51 ACRES
TOTAL RECLAIMED AREA = ±2.61 ACRES
UNRECLAIMED AREA = ±0.90 ACRES

SURVEYED BY: S.H.	DATE SURVEYED: 06-27-14	VERSION:	Tri State Land Surveying, Inc. (435) 781-2501
DRAWN BY: V.H.	DATE DRAWN: 08-05-14	V1	180 NORTH VERNAL AVE. VERNAL, UTAH 84078
SCALE: 1" = 60'	REVISED:		

RECEIVED: October 17, 2014

API Well Number: 43013531860000

NEWFIELD EXPLORATION COMPANY

PROPOSED SITE FACILITY DIAGRAM

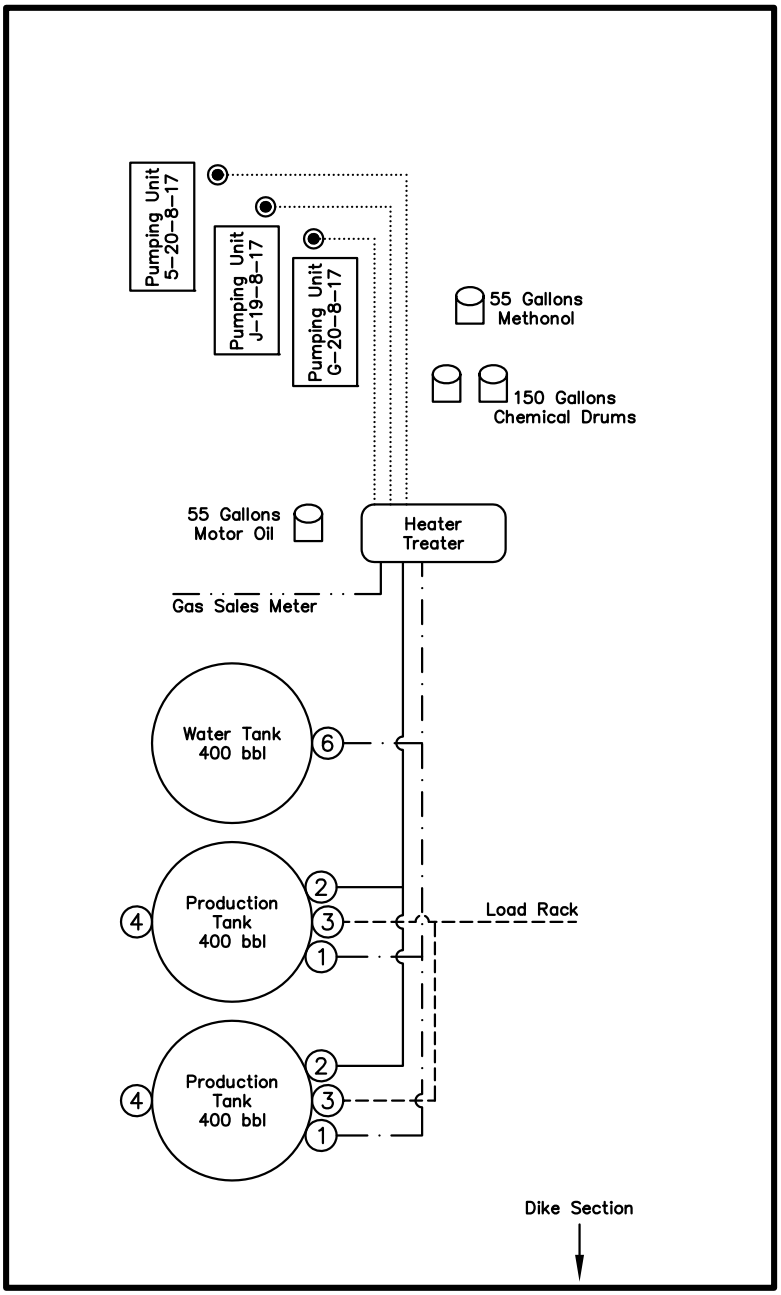
5-20-8-17 PAD

5-20-8-17 UTU-76954

J-19-8-17 UTU-76954

G-20-8-17 UTU-76954

Pad Location: SWNW Section 20, T8S, R17E, S.L.B.&M.
Uintah County, Utah



Legend

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

NOT TO SCALE

SURVEYED BY:	S.H.	DATE SURVEYED:	06-27-14	VERSION:	Tri State Land Surveying, Inc. (435) 781-2501
DRAWN BY:	V.H.	DATE DRAWN:	08-05-14	V1	180 NORTH VERNAL AVE. VERNAL, UTAH 84078
SCALE:	NONE	REVISED:			

RECEIVED: October 17, 2014

API Well Number: 43013531860000

NEWFIELD

VIA ELECTRONIC DELIVERY

October 20, 2014

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

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 G-20-8-17
Greater Monument Butte (Green River) Unit

Surface Hole: T8S-R17E Section 20: SWNW (UTU-76954)
2324' FNL 1036' FWL

At Target: T8S-R17E Section 20: NENW (UTU-76954)
1058' FNL 1403' FWL

Duchesne County, Utah

Dear Ms. Mason:

Pursuant to the filing by Newfield Production Company (NPC) of an Application for Permit to Drill the above referenced well dated 10/17/14, a copy of which is attached, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

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

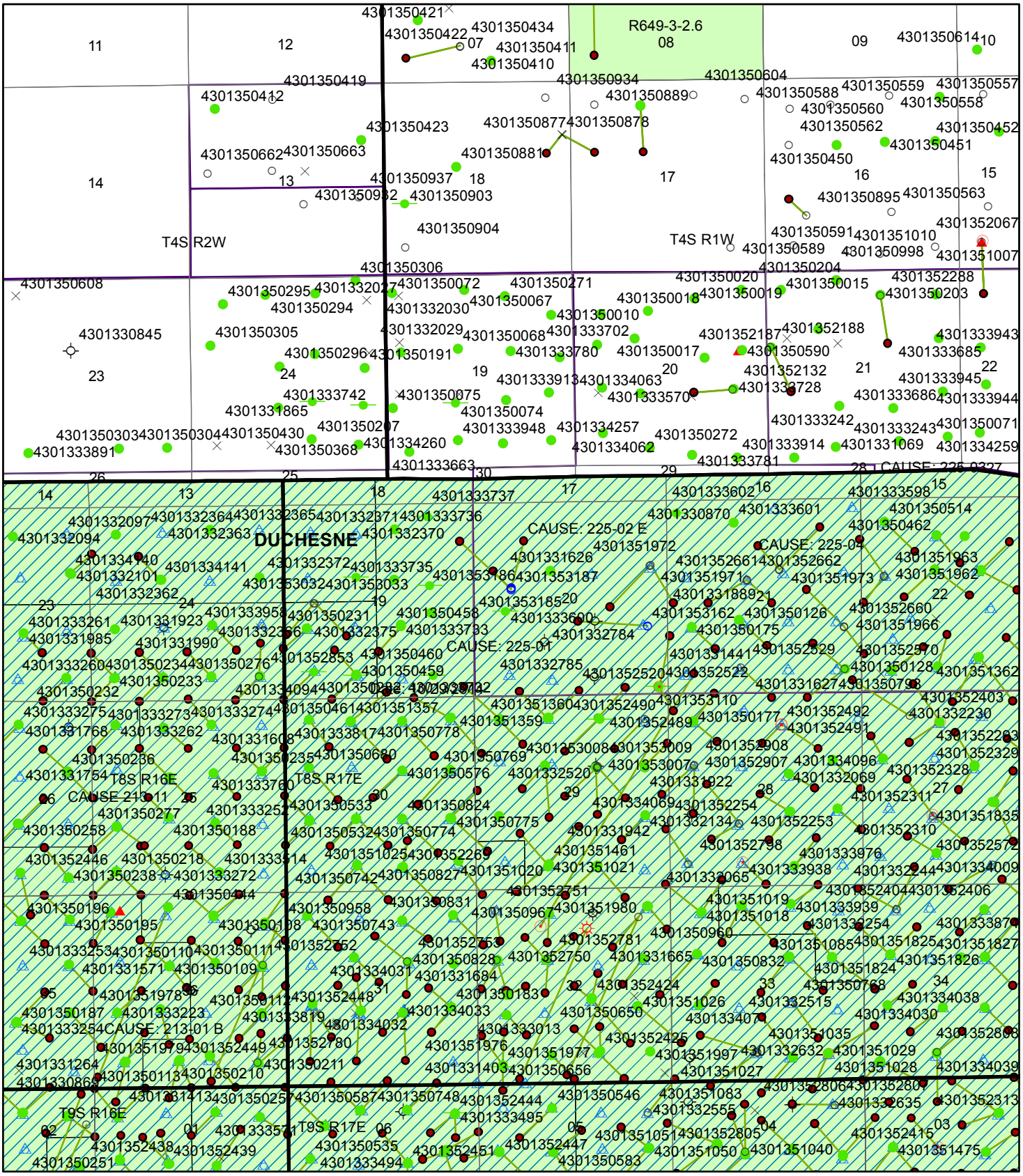
NPC is permitting this well as a directional well in order to mitigate surface disturbance by utilizing pre-existing roads and pipelines.

NPC hereby requests our application for permit to drill be granted pursuant to R649-3-11. If you have any questions or require further information, please contact the undersigned at 303-323-9770 or by email at ldein@newfield.com. Your consideration in this matter is greatly appreciated.

Sincerely,
Newfield Production Company

Levi Dein
Landman

API Well Number: 43013531860000



Operator: NEWFIELD PRODUCTION COMPANY
API Number: 4301353186
Well Name: GMBU G-20-8-17
Section: 20 Township: 8S Range: 17E
Meridian: SL

N
W E
S

Map Prepared: Oct. 29, 2014
Produced by: Lisha Cordova

RECEIVED: October 29, 2014

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Utah State Office
440 West 200 South, Suite 500
Salt Lake City, UT 84101

IN REPLY REFER TO:
3160
(UT-922)

November 3, 2014

Memorandum

To: Assistant Field Office Manager Minerals, Vernal Field Office

From: Michael Coulthard, Petroleum Engineer

Subject: 2014 Plan of Development Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

Pursuant to email between Lisha Cordova, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2014 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-53168	GMBU 8-26-9-15	Sec 26 T09S R15E 2077 FSL 0567 FEL
		BHL Sec 26 T09S R15E 1433 FNL 0709 FEL
43-013-53169	GMBU O-25-9-15	Sec 26 T09S R15E 2072 FSL 0546 FEL
		BHL Sec 25 T09S R15E 2414 FNL 0243 FWL
43-013-53170	GMBU Q-25-9-15	Sec 25 T09S R15E 1930 FSL 2187 FWL
		BHL Sec 25 T09S R15E 1078 FSL 1000 FWL
43-013-53171	GMBU R-25-9-15	Sec 25 T09S R15E 1941 FSL 2205 FWL
		BHL Sec 25 T09S R15E 1129 FSL 2452 FEL
43-013-53172	GMBU L-25-9-15	Sec 25 T09S R15E 2076 FSL 1686 FEL
		BHL Sec 25 T09S R15E 2481 FNL 1194 FEL
43-013-53173	GMBU Q-23-9-15	Sec 23 T09S R15E 1974 FSL 0622 FWL
		BHL Sec 23 T09S R15E 1026 FSL 1657 FWL
43-013-53174	GMBU V-10-9-15	Sec 15 T09S R15E 0655 FNL 0545 FEL
		BHL Sec 10 T09S R15E 0132 FSL 1260 FEL
43-013-53176	GMBU G-29-9-16	Sec 29 T09S R16E 0635 FNL 2032 FWL
		BHL Sec 29 T09S R16E 1525 FNL 1075 FWL
43-013-53177	GMBU H-29-9-16	Sec 29 T09S R16E 0685 FNL 2127 FEL
		BHL Sec 29 T09S R16E 1534 FNL 2443 FWL

RECEIVED: November 05, 2014

API #	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-53178	GMBU I-29-9-16	Sec 29 T09S R16E 0675 FNL 2108 FEL
		BHL Sec 29 T09S R16E 1435 FNL 1078 FEL
43-013-53179	GMBU U-14-9-16	Sec 24 T09S R16E 0486 FNL 0669 FWL
		BHL Sec 14 T09S R16E 0241 FSL 0157 FEL
43-013-53180	GMBU G-24-9-16	Sec 24 T09S R16E 0504 FNL 0658 FWL
		BHL Sec 24 T09S R16E 1583 FNL 1531 FWL
43-013-53181	GMBU J-16-9-16	Sec 15 T09S R16E 1760 FNL 0600 FWL
		BHL Sec 16 T09S R16E 1216 FNL 0436 FEL
43-013-53182	GMBU K-16-9-16	Sec 15 T09S R16E 1776 FNL 0586 FWL
		BHL Sec 16 T09S R16E 2333 FSL 0149 FEL
43-013-53183	GMBU V-17-9-16	Sec 20 T09S R16E 0590 FNL 0617 FEL
		BHL Sec 17 T09S R16E 0266 FSL 1643 FEL
43-013-53185	GMBU J-19-8-17	Sec 20 T08S R17E 2345 FNL 1035 FWL
		BHL Sec 19 T08S R17E 1038 FNL 0355 FEL
43-013-53186	GMBU G-20-8-17	Sec 20 T08S R17E 2324 FNL 1036 FWL
		BHL Sec 20 T08S R17E 1058 FNL 1403 FWL
43-013-53187	GMBU 5-20-8-17	Sec 20 T08S R17E 2366 FNL 1033 FWL
		BHL Sec 20 T08S R17E 1872 FNL 0556 FWL
43-013-53188	GMBU R-26-9-15	Sec 26 T09S R15E 0486 FSL 1889 FWL
		BHL Sec 26 T09S R15E 1502 FSL 2550 FEL
43-047-54854	GMBU I-14-9-17	Sec 14 T09S R17E 0479 FNL 1967 FEL
		BHL Sec 14 T09S R17E 1573 FNL 1122 FEL
43-047-54855	GMBU H-14-9-17	Sec 14 T09S R17E 0470 FNL 1986 FEL
		BHL Sec 14 T09S R17E 1622 FNL 2429 FWL
43-047-54856	GMBU T-14-9-17	Sec 13 T09S R17E 2120 FSL 0837 FWL
		BHL Sec 14 T09S R17E 1072 FSL 0273 FEL
43-047-54868	GMBU S-29-8-18	Sec 29 T08S R18E 1819 FSL 2106 FEL
		BHL Sec 29 T08S R18E 1056 FSL 1212 FEL
43-047-54869	GMBU L-29-8-18	Sec 29 T08S R18E 1834 FSL 2120 FEL
		BHL Sec 29 T08S R18E 2476 FNL 1211 FEL
43-047-54870	GMBU O-28-8-18	Sec 29 T08S R18E 1874 FSL 0708 FEL
		BHL Sec 28 T08S R18E 2393 FNL 0207 FWL
43-047-54871	GMBU F-28-8-18	Sec 29 T08S R18E 0540 FNL 0666 FEL
		BHL Sec 28 T08S R18E 1395 FNL 0182 FWL
43-047-54872	GMBU I-29-8-18	Sec 29 T08S R18E 0555 FNL 0680 FEL
		BHL Sec 29 T08S R18E 1327 FNL 1451 FEL

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

Michael Coulthard

Digitally signed by Michael Coulthard
DN: cn=Michael Coulthard, o=Bureau of Land Management, ou=Division of Minerals, email=mcoultha@blm.gov, c=US
Date: 2014.11.03 12:21:18 -07'00'

RECEIVED: November 05, 2014

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

MCoulthard:mc:11-3-14

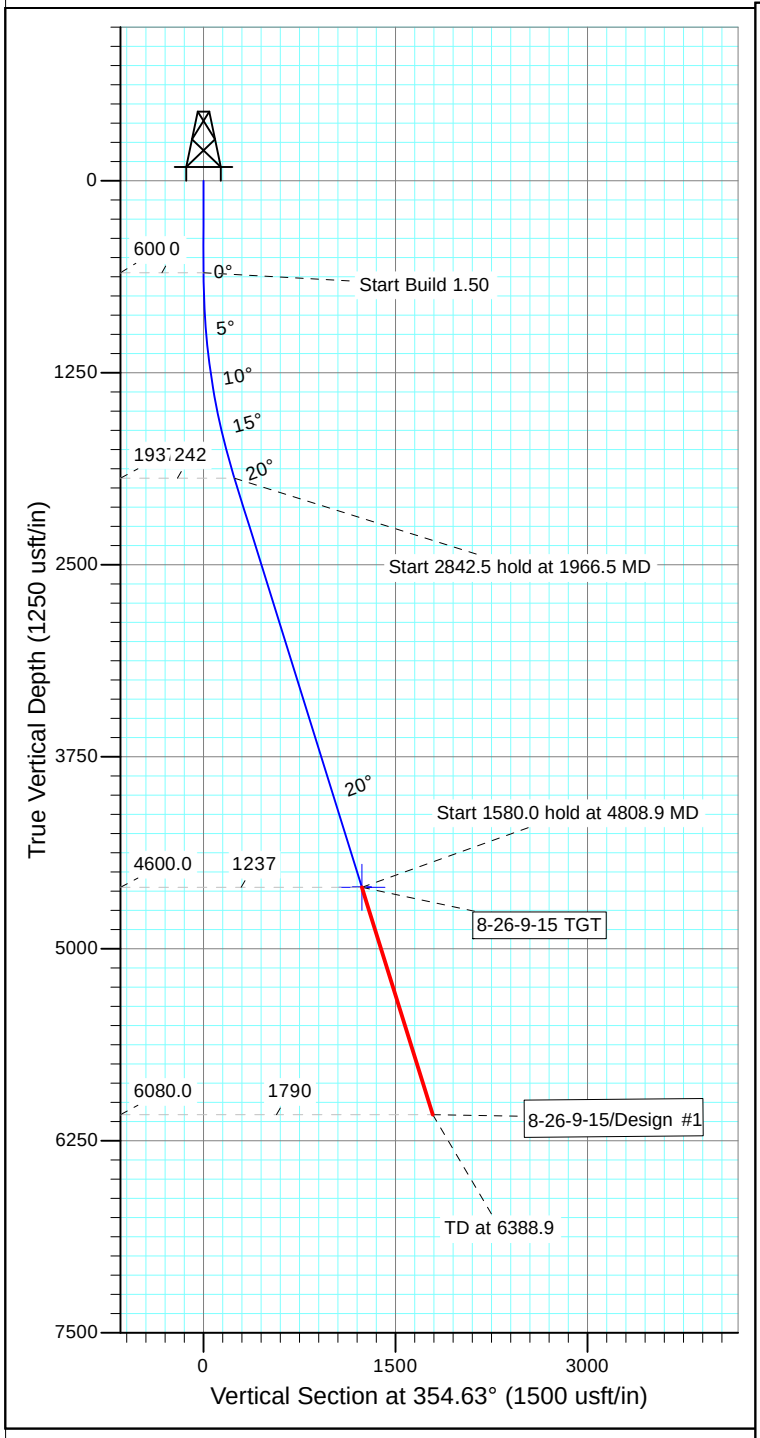
RECEIVED: November 05, 2014

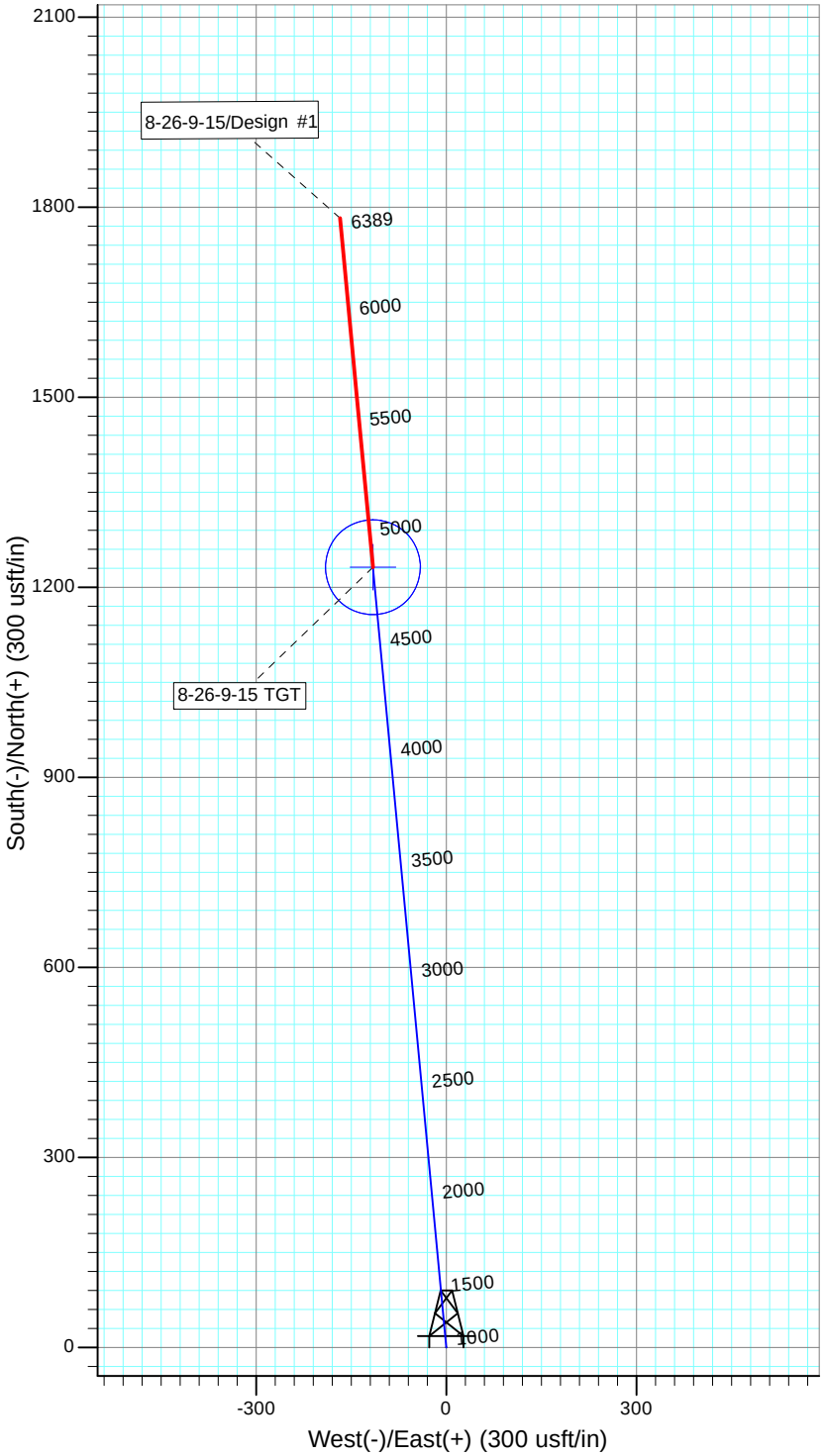
API Well Number: 43013531860000

Project: USGS Myton SW (UT)
Site: SECTION 26 T9S, 15E
Well: 8-26-9-15
Wellbore: Wellbore #1
Design: Design #1

Azimuths to True North
Magnetic North: 10.94°

Magnetic Field
Strength: 51897.8snT
Dip Angle: 65.65°
Date: 9/23/2014
Model: IGRF2010





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
8-26-9-15 TGT	4600.0	1231.7	-115.8	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	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	1966.5	20.50	354.63	1937.5	240.8	-22.6	1.50	354.63	241.8	
4	4808.9	20.50	354.63	4600.0	1231.7	-115.8	0.00	0.00	1237.1	8-26-9-15 TGT
5	6388.9	20.50	354.63	6080.0	1782.5	-167.6	0.00	0.00	1790.4	

API Well Number: 43013531860000

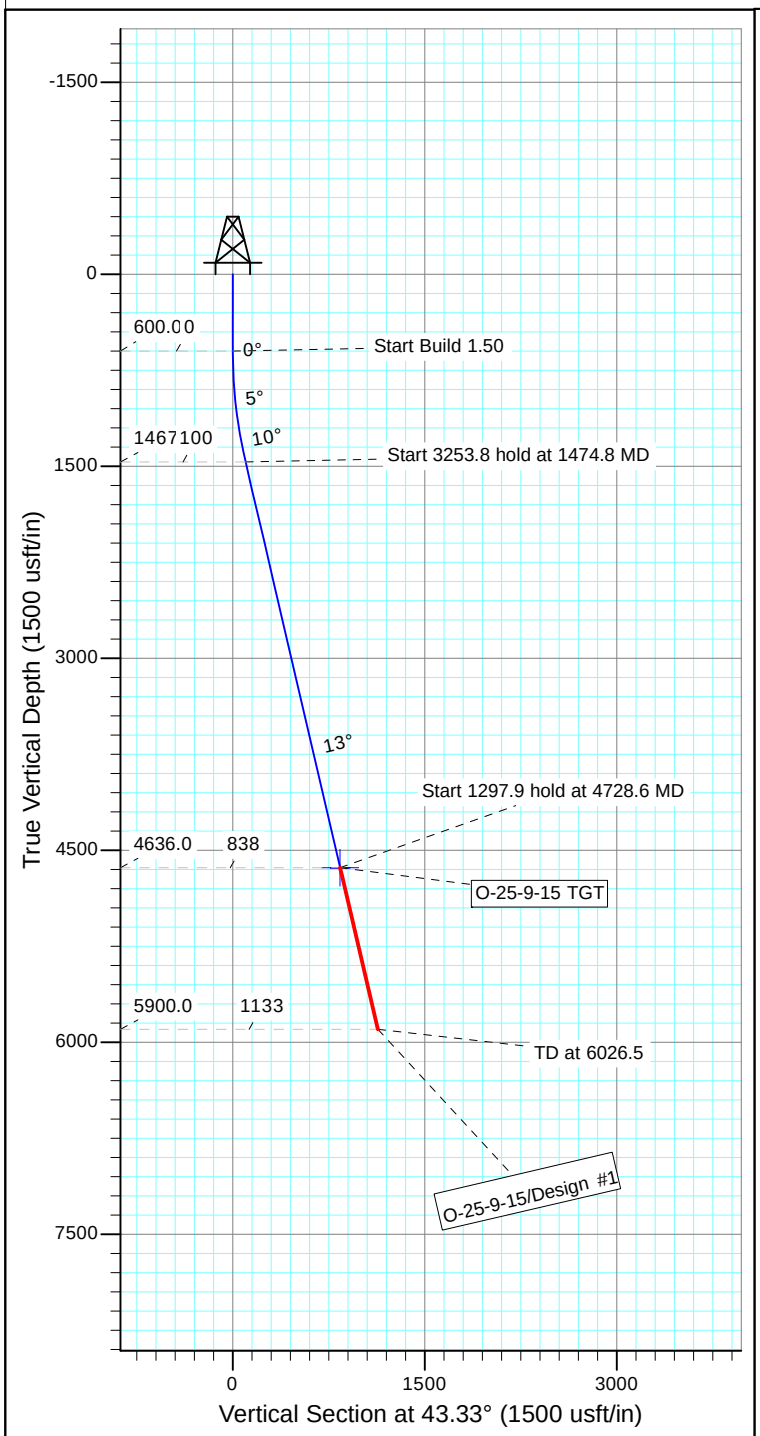
NEWFIELD

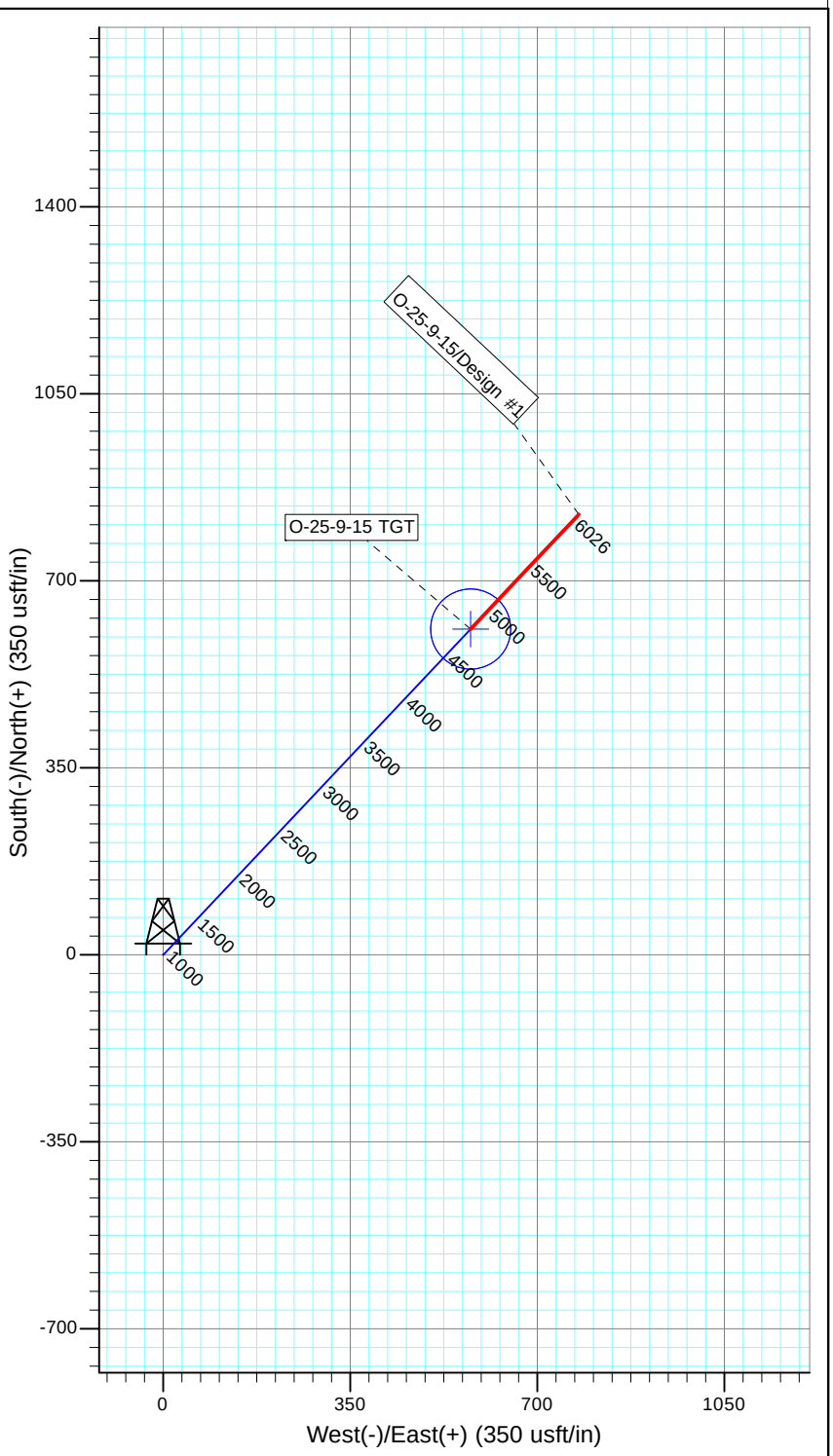
Project: USGS Myton SW (UT)
Site: SECTION 26 T9S, 15E
Well: O-25-9-15
Wellbore: Wellbore #1
Design: Design #1

T M

Azimuths to True North
Magnetic North: 11.00°

Magnetic Field
Strength: 51942.8snT
Dip Angle: 65.66°
Date: 4/9/2014
Model: IGRF2010





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
O-25-9-15 TGT	4636.0	609.9	575.3	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	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	1474.8	13.12	43.33	1467.1	72.5	68.4	1.50	43.33	99.7	
4	4728.6	13.12	43.33	4636.0	609.9	575.3	0.00	0.00	838.4	O-25-9-15 TGT
5	6026.5	13.12	43.33	5900.0	824.2	777.4	0.00	0.00	1133.0	

PATZONE

API Well Number: 43013531860000

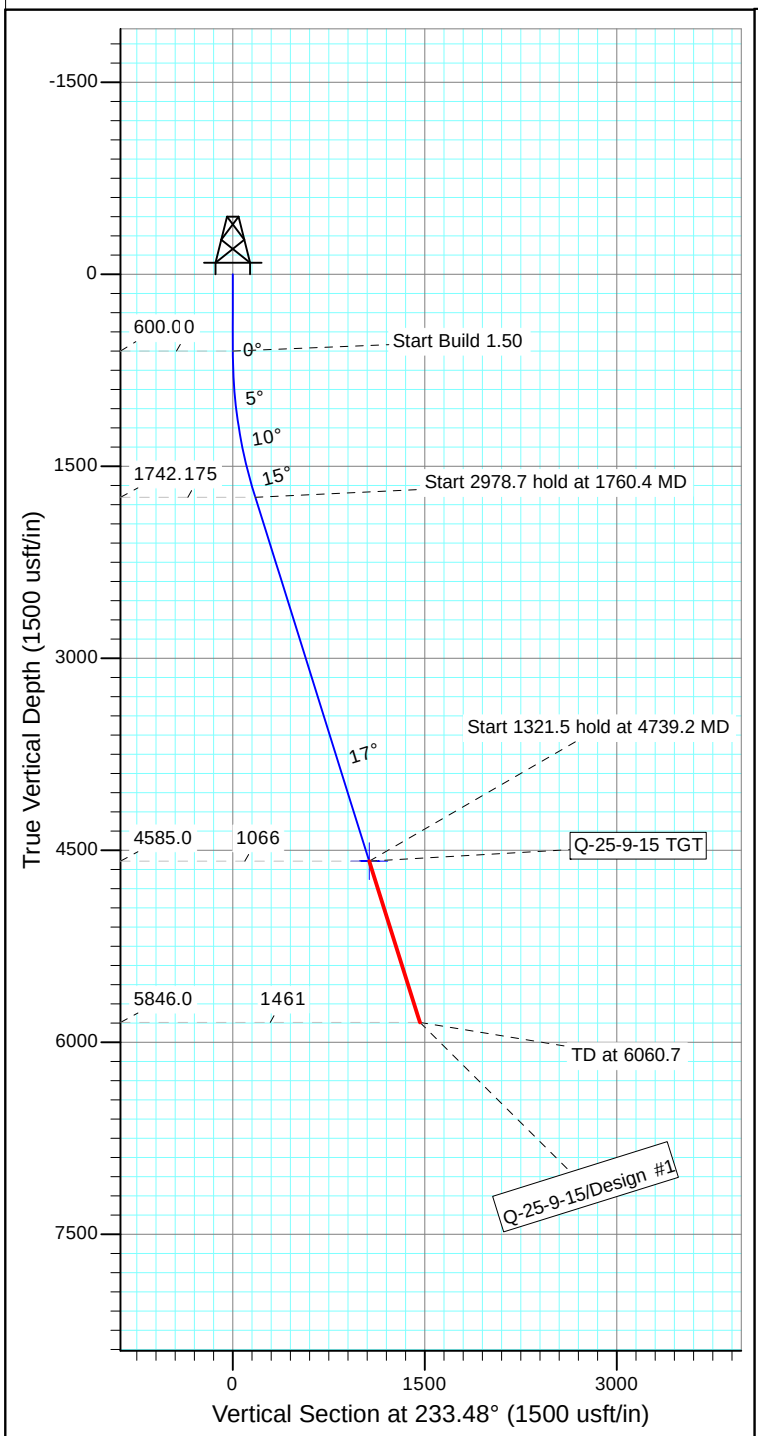
NEWFIELD

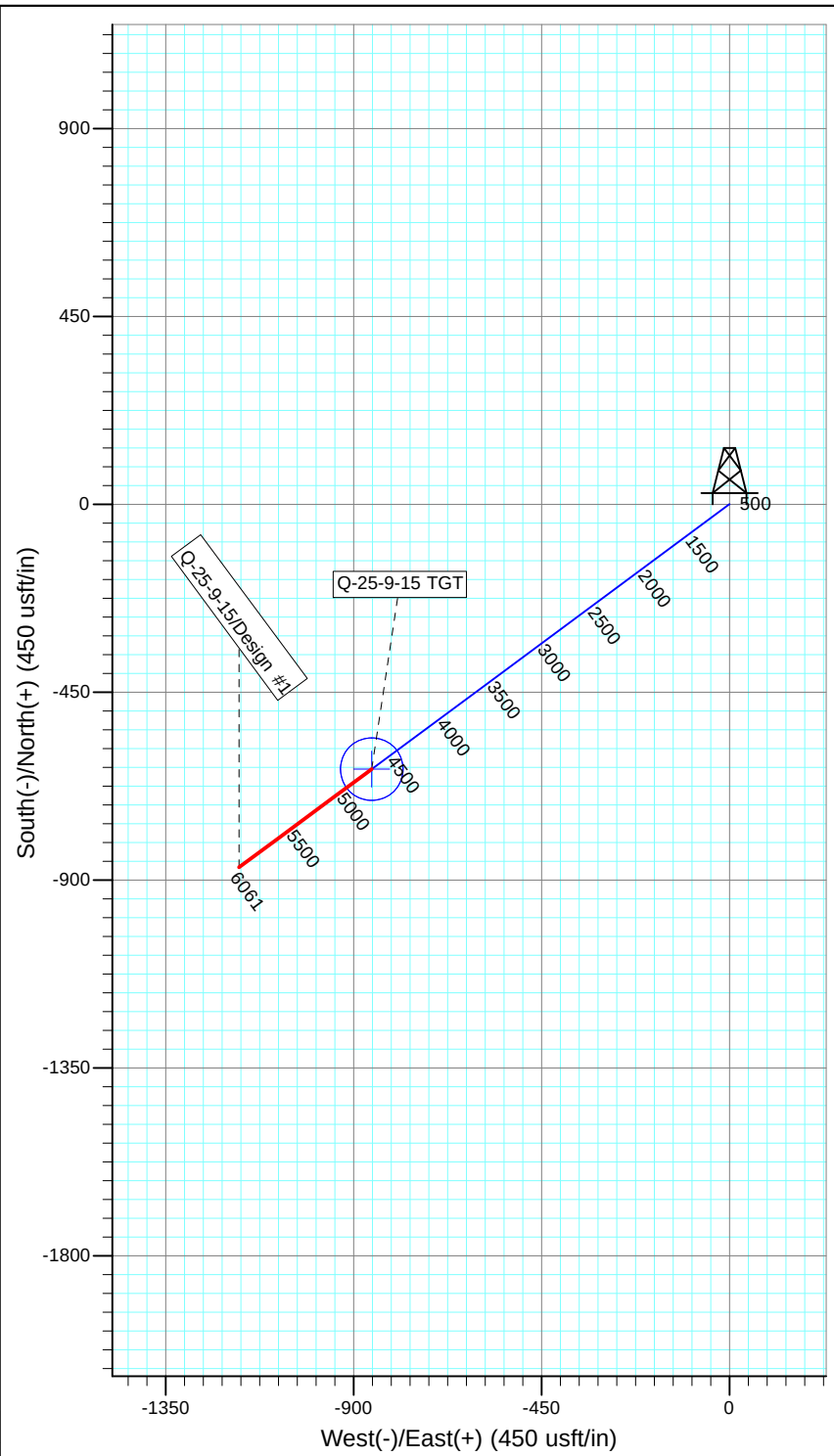
Project: USGS Myton SW (UT)
Site: SECTION 25 T9S, R15E
Well: Q-25-9-15
Wellbore: Wellbore #1
Design: Design #1

T M

Azimuths to True North
Magnetic North: 10.99°

Magnetic Field
Strength: 51943.0snT
Dip Angle: 65.66°
Date: 4/17/2014
Model: IGRF2010





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
Q-25-9-15 TGT	4585.0	-634.4	-856.7	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	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	1760.4	17.41	233.48	1742.7	-104.1	-140.6	1.50	233.48	174.9	
4	4739.2	17.41	233.48	4585.0	-634.4	-856.7	0.00	0.00	1066.0	Q-25-9-15 TGT
5	6060.7	17.41	233.48	5846.0	-869.6	-1174.4	0.00	0.00	1461.3	

PATZONE

API Well Number: 43013531860000

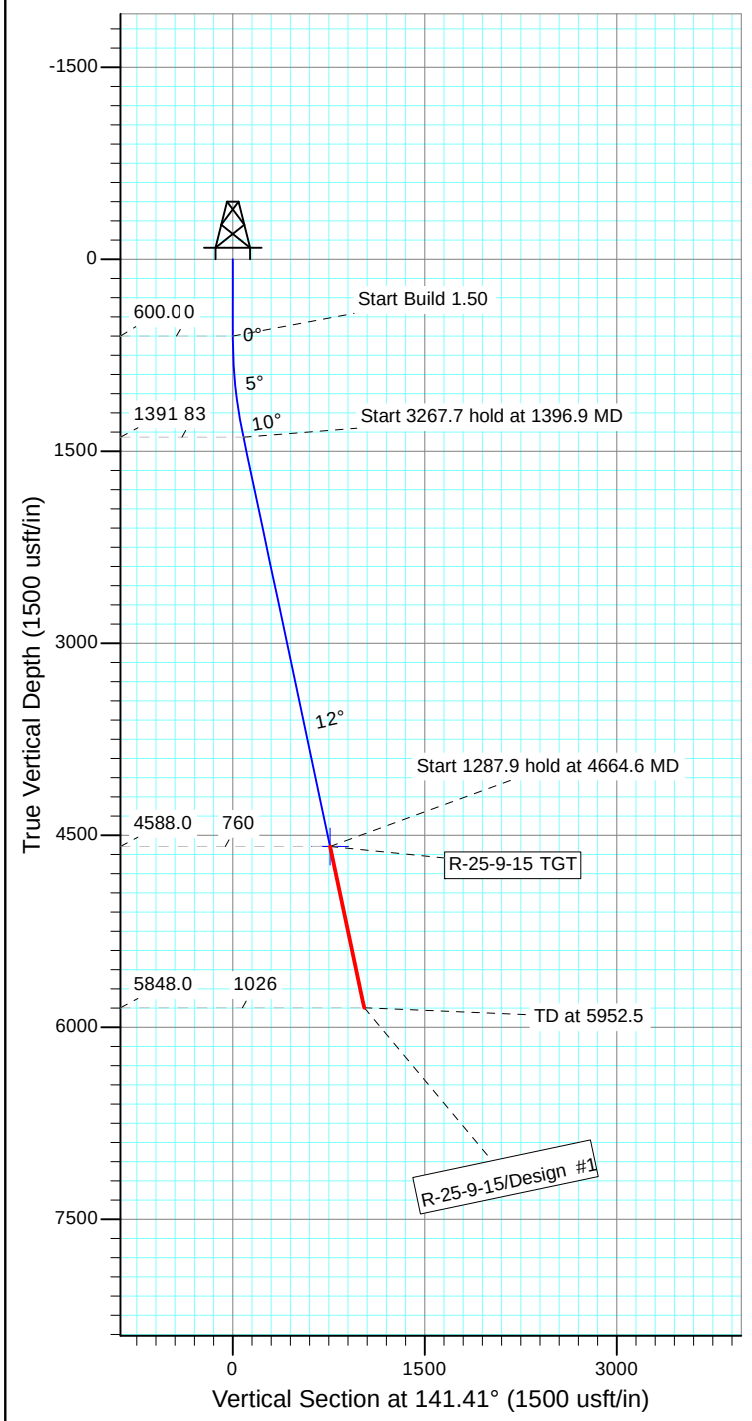
NEWFIELD

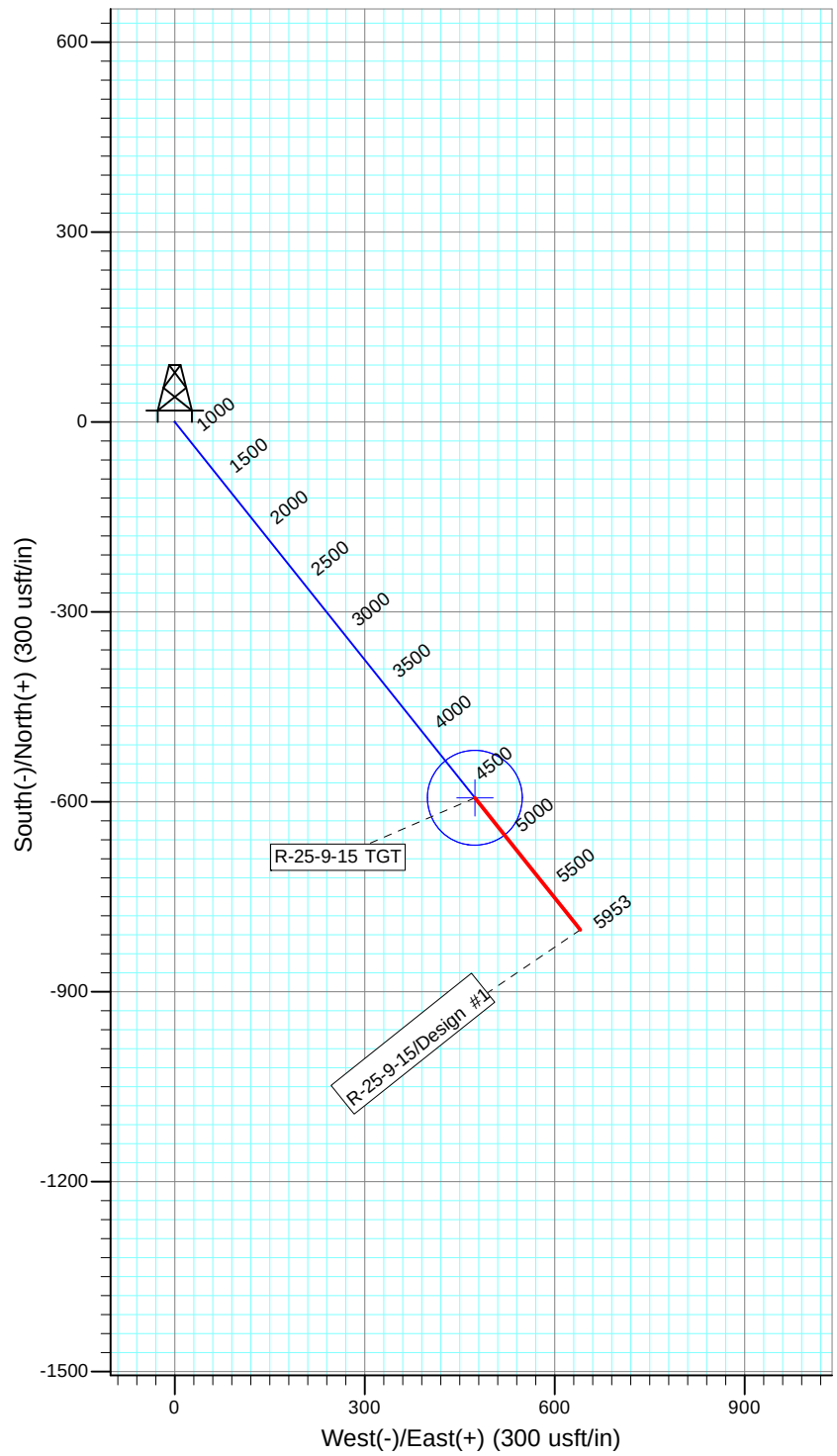
Project: USGS Myton SW (UT)
Site: SECTION 25 T9S, R15E
Well: R-25-9-15
Wellbore: Wellbore #1
Design: Design #1

T M

Azimuths to True North
Magnetic North: 10.99°

Magnetic Field
Strength: 51943.0snT
Dip Angle: 65.66°
Date: 4/17/2014
Model: IGRF2010





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
R-25-9-15 TGT	4588.0	-593.7	473.8	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	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	1396.9	11.95	141.41	1391.1	-64.7	51.7	1.50	141.41	82.8	
4	4664.6	11.95	141.41	4588.0	-593.7	473.8	0.00	0.00	759.6	R-25-9-15 TGT
5	5952.5	11.95	141.41	5848.0	-802.2	640.2	0.00	0.00	1026.4	

PAYZONE

API Well Number: 43013531860000

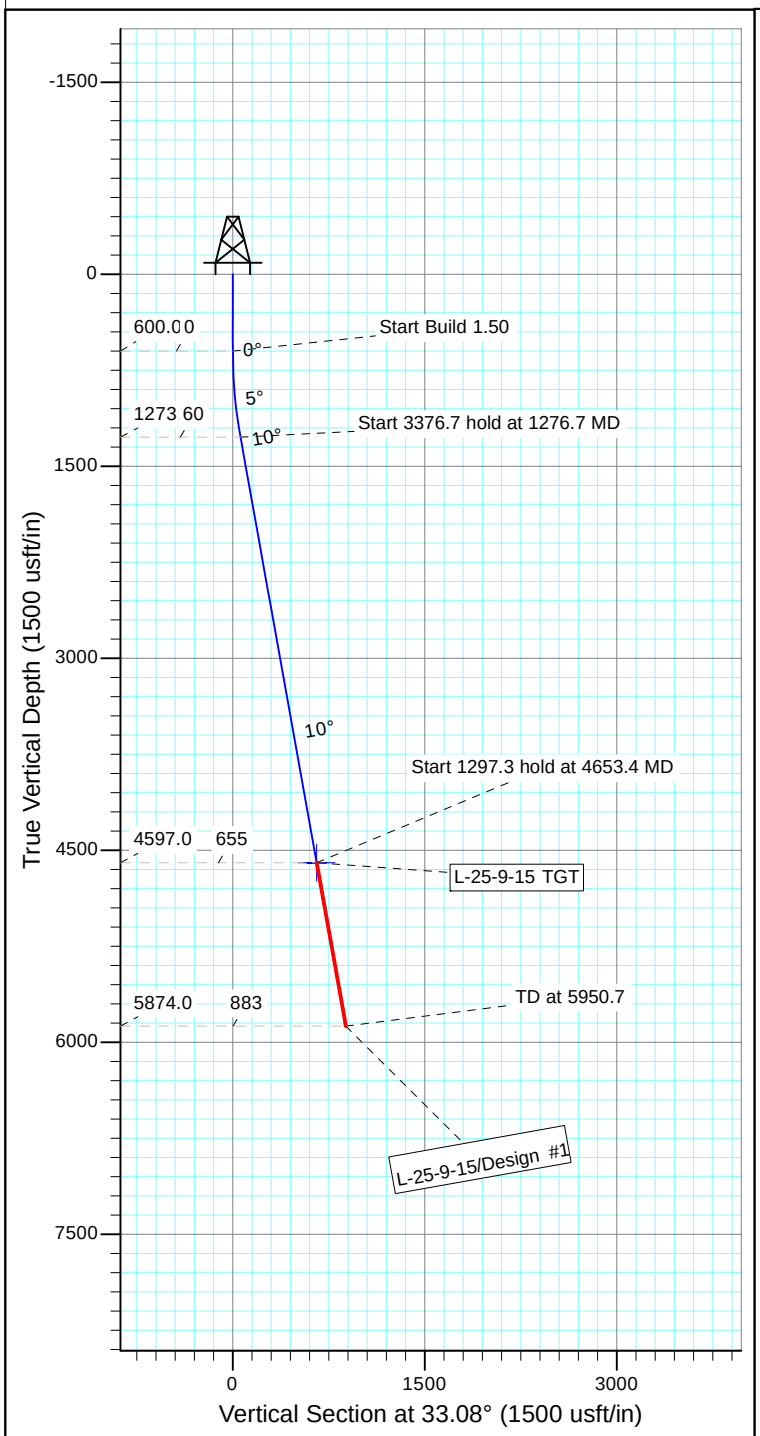
NEWFIELD

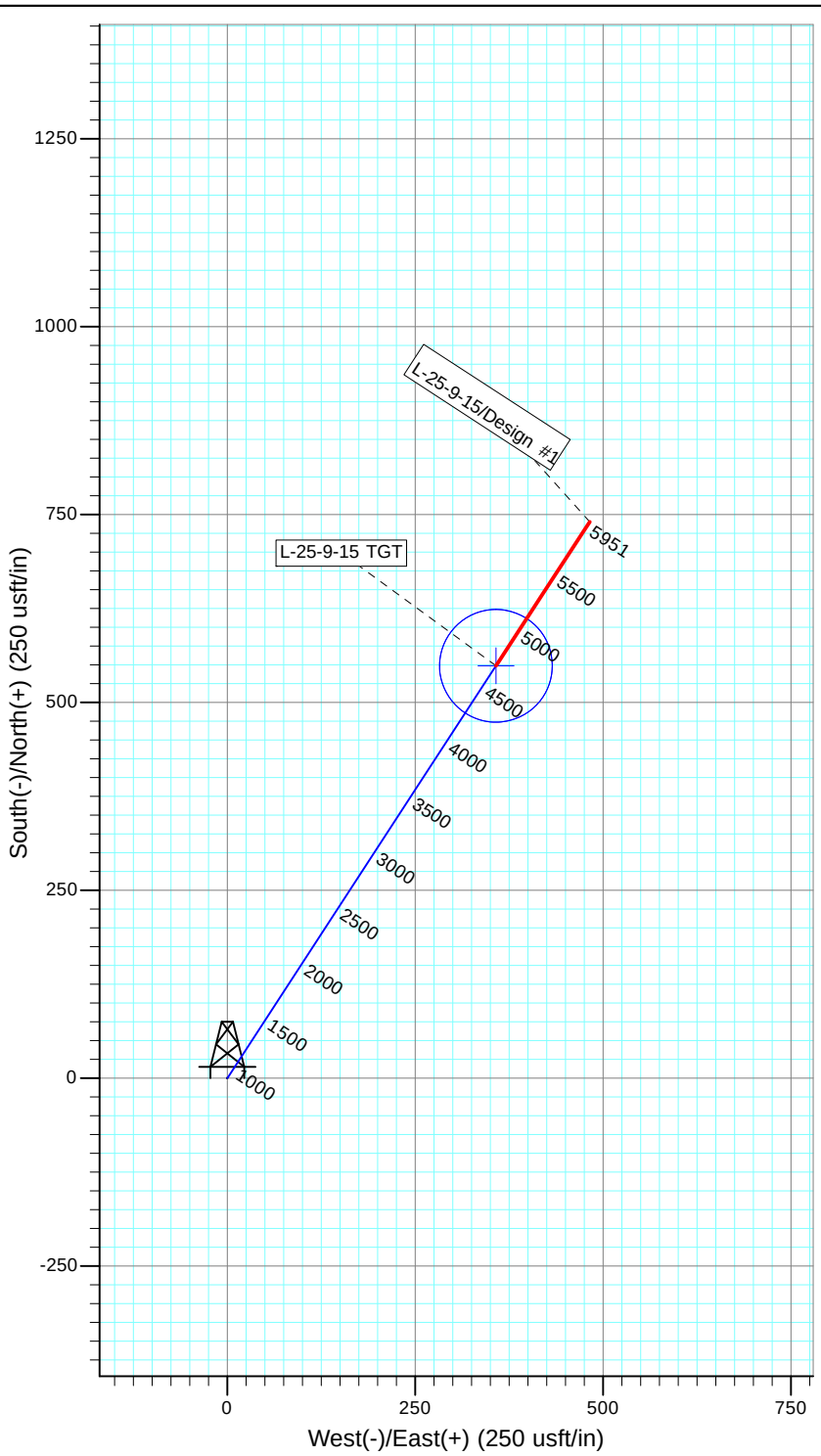
Project: USGS Myton SW (UT)
Site: SECTION 25 T9S, R15E
Well: L-25-9-15
Wellbore: Wellbore #1
Design: Design #1

T M

Azimuths to True North
Magnetic North: 10.99°

Magnetic Field
Strength: 51943.0snT
Dip Angle: 65.67°
Date: 4/17/2014
Model: IGRF2010





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
L-25-9-15 TGT	4597.0	548.7	357.4	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DIeg	TFace	VSect	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	1276.7	10.15	33.08	1273.2	50.1	32.6	1.50	33.08	59.8	
4	4653.4	10.15	33.08	4597.0	548.7	357.4	0.00	0.00	654.9	L-25-9-15 TGT
5	5950.7	10.15	33.08	5874.0	740.3	482.2	0.00	0.00	883.5	

PATZONE

API Well Number: 43013531860000

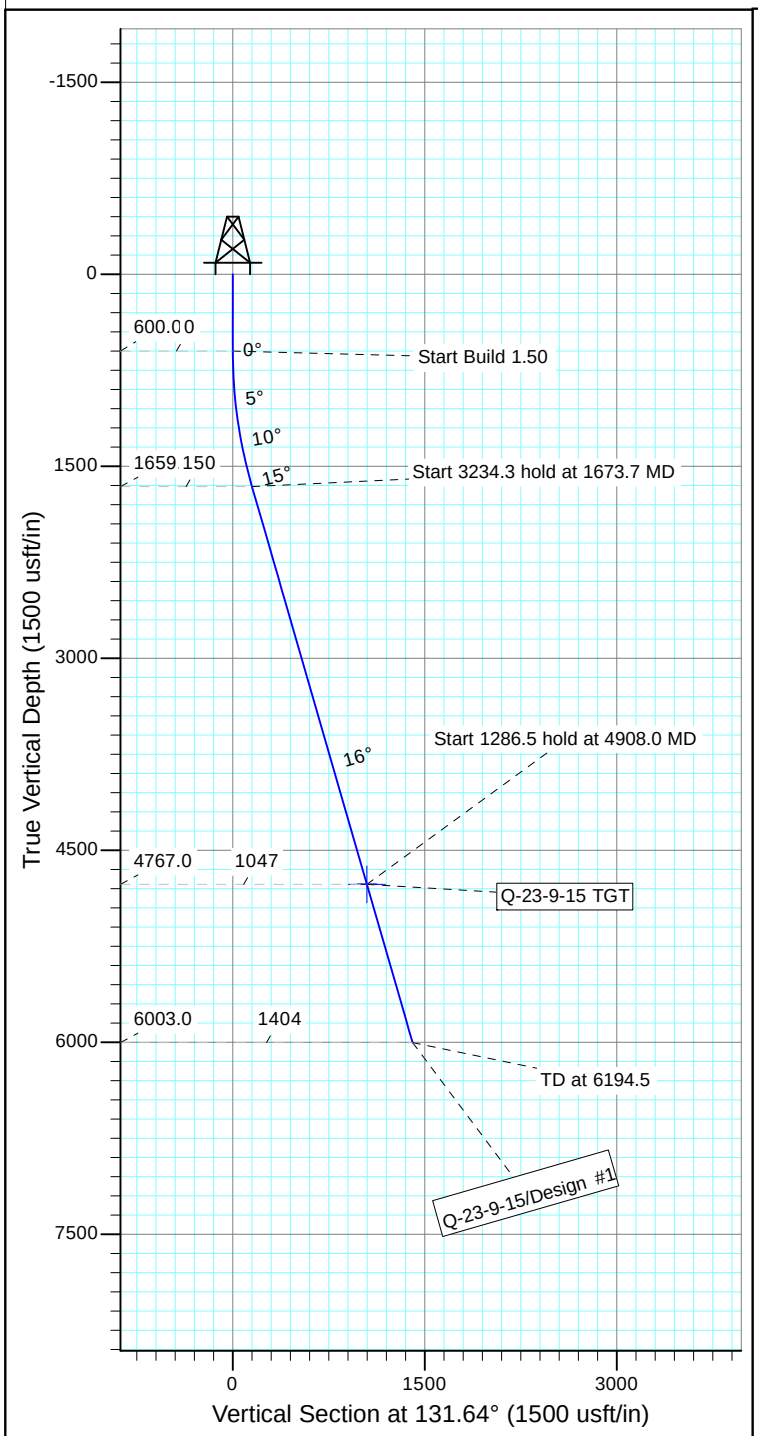
NEWFIELD

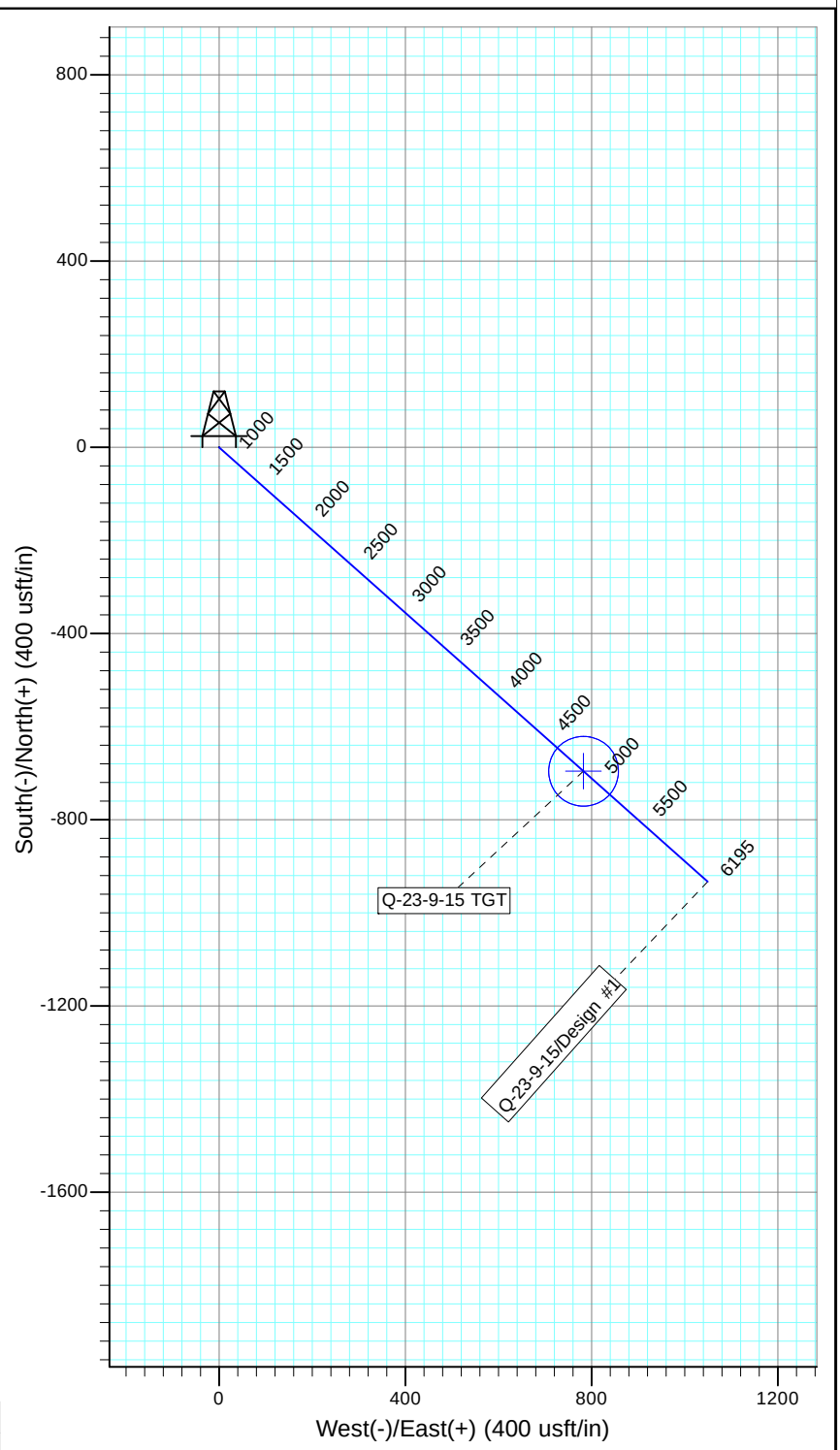
Project: USGS Myton SW (UT)
Site: SECTION 23 T9, R15
Well: Q-23-9-15
Wellbore: Wellbore #1
Design: Design #1

T M

Azimuths to True North
Magnetic North: 11.02°

Magnetic Field
Strength: 51956.2snT
Dip Angle: 65.67°
Date: 3/11/2014
Model: IGRF2010





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
Q-23-9-15 TGT	4767.0	-695.8	782.6	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	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	1673.7	16.11	131.64	1659.7	-99.6	112.0	1.50	131.64	149.9	
4	4908.0	16.11	131.64	4767.0	-695.8	782.6	0.00	0.00	1047.2	Q-23-9-15 TGT
5	6194.5	16.11	131.64	6003.0	-932.9	1049.3	0.00	0.00	1404.1	

PAYZONE

API Well Number: 43013531860000

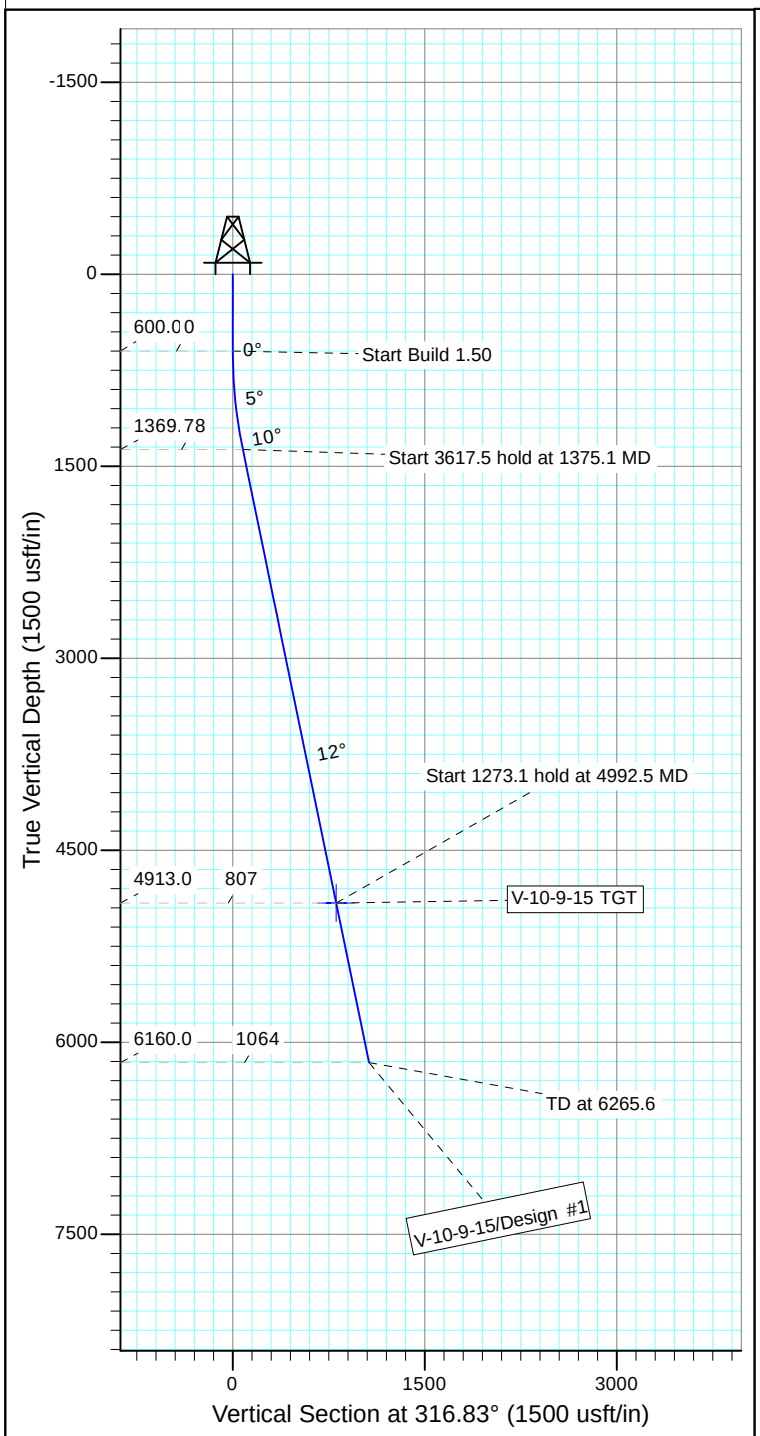
NEWFIELD

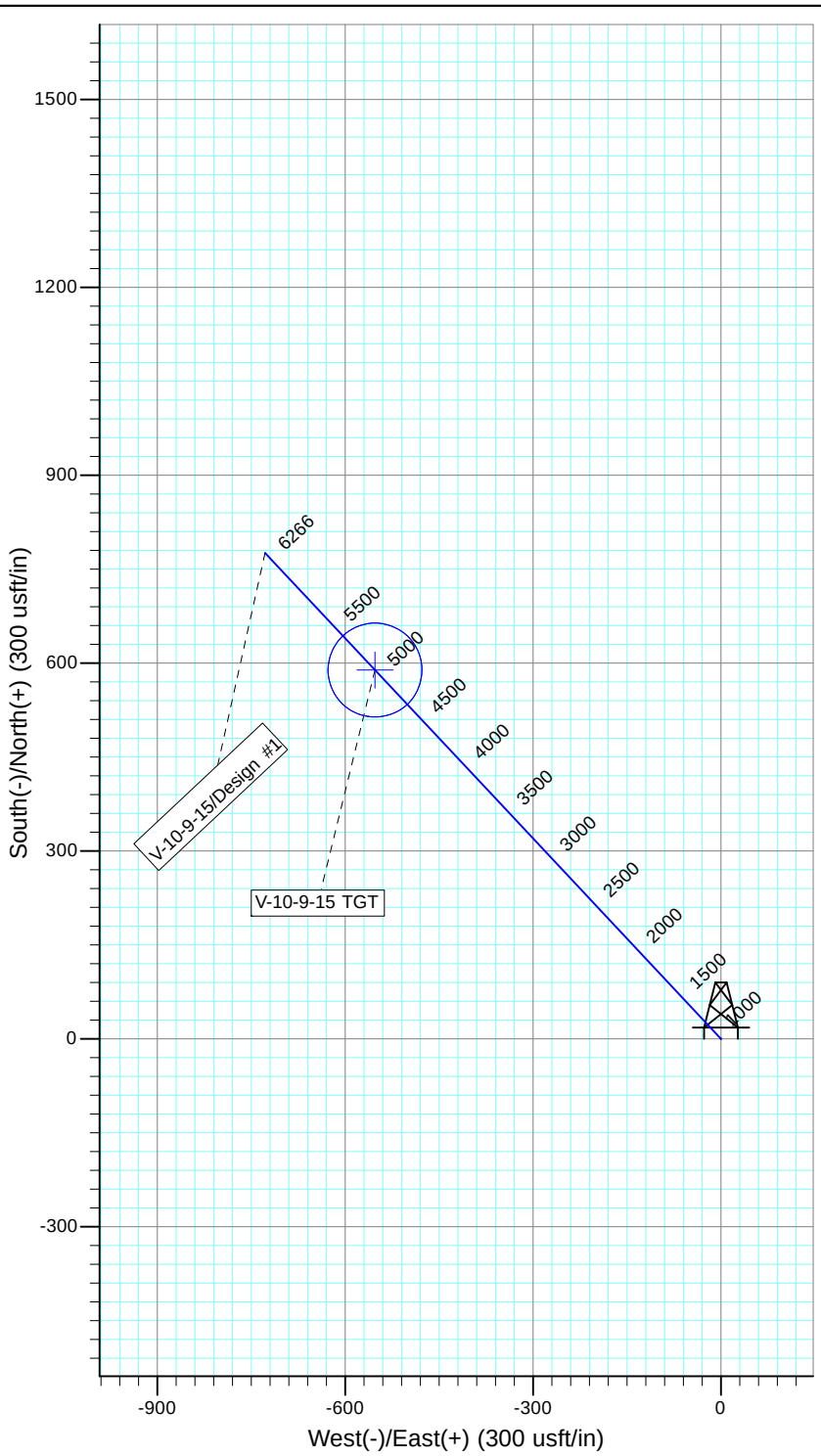
Project: USGS Myton SW (UT)
Site: SECTION 15 T9S, R15E
Well: V-10-9-15
Wellbore: Wellbore #1
Design: Design #1

T M

Azimuths to True North
Magnetic North: 11.01°

Magnetic Field
Strength: 51961.7snT
Dip Angle: 65.69°
Date: 4/9/2014
Model: IGRF2010





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
V-10-9-15 TGT	4913.0	588.8	-552.4	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	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	1375.1	11.63	316.83	1369.8	57.2	-53.6	1.50	316.83	78.4	
4	4992.5	11.63	316.83	4913.0	588.8	-552.4	0.00	0.00	807.4	V-10-9-15 TGT
5	6265.6	11.63	316.83	6160.0	775.9	-727.9	0.00	0.00	1063.9	

PAYZONE DIRECTIONAL

API Well Number: 43013531860000

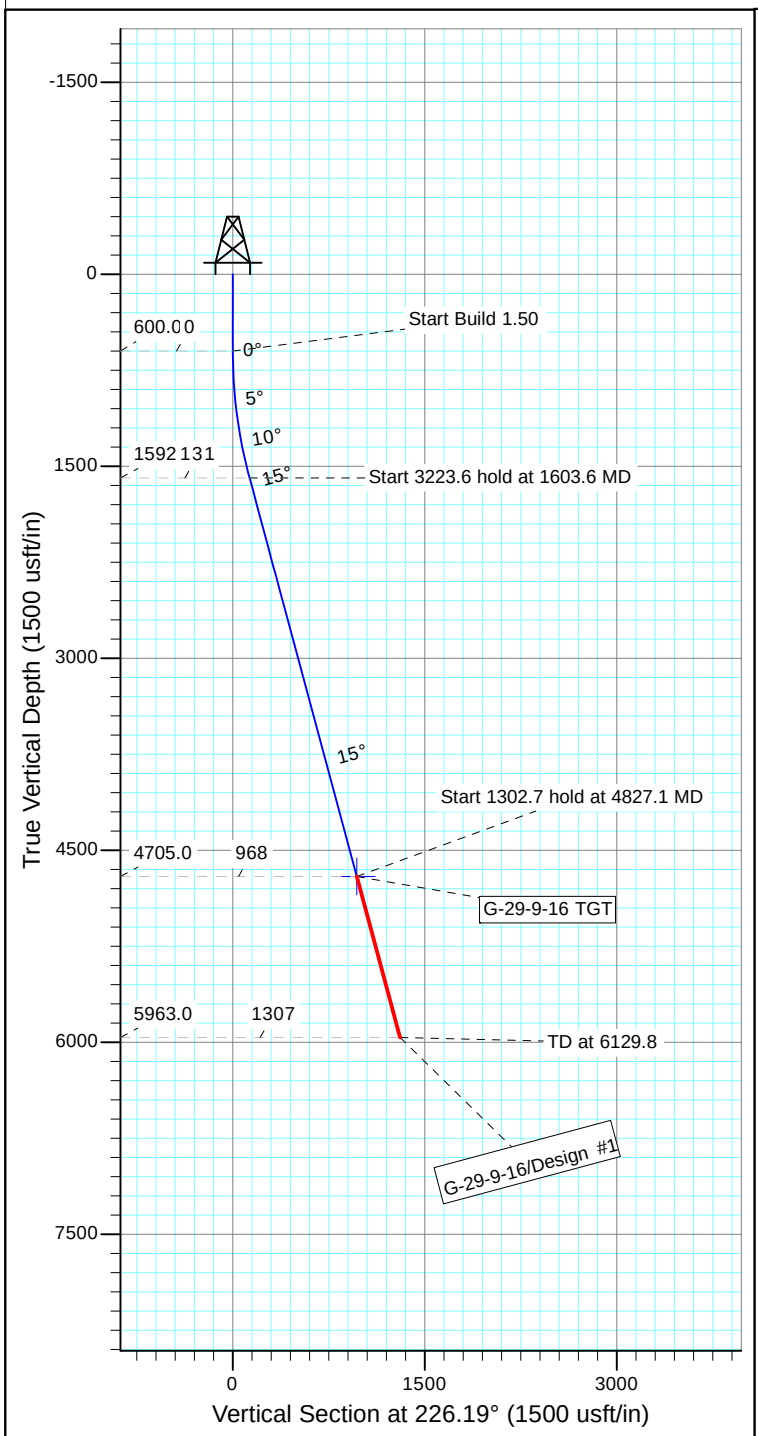
NEWFIELD

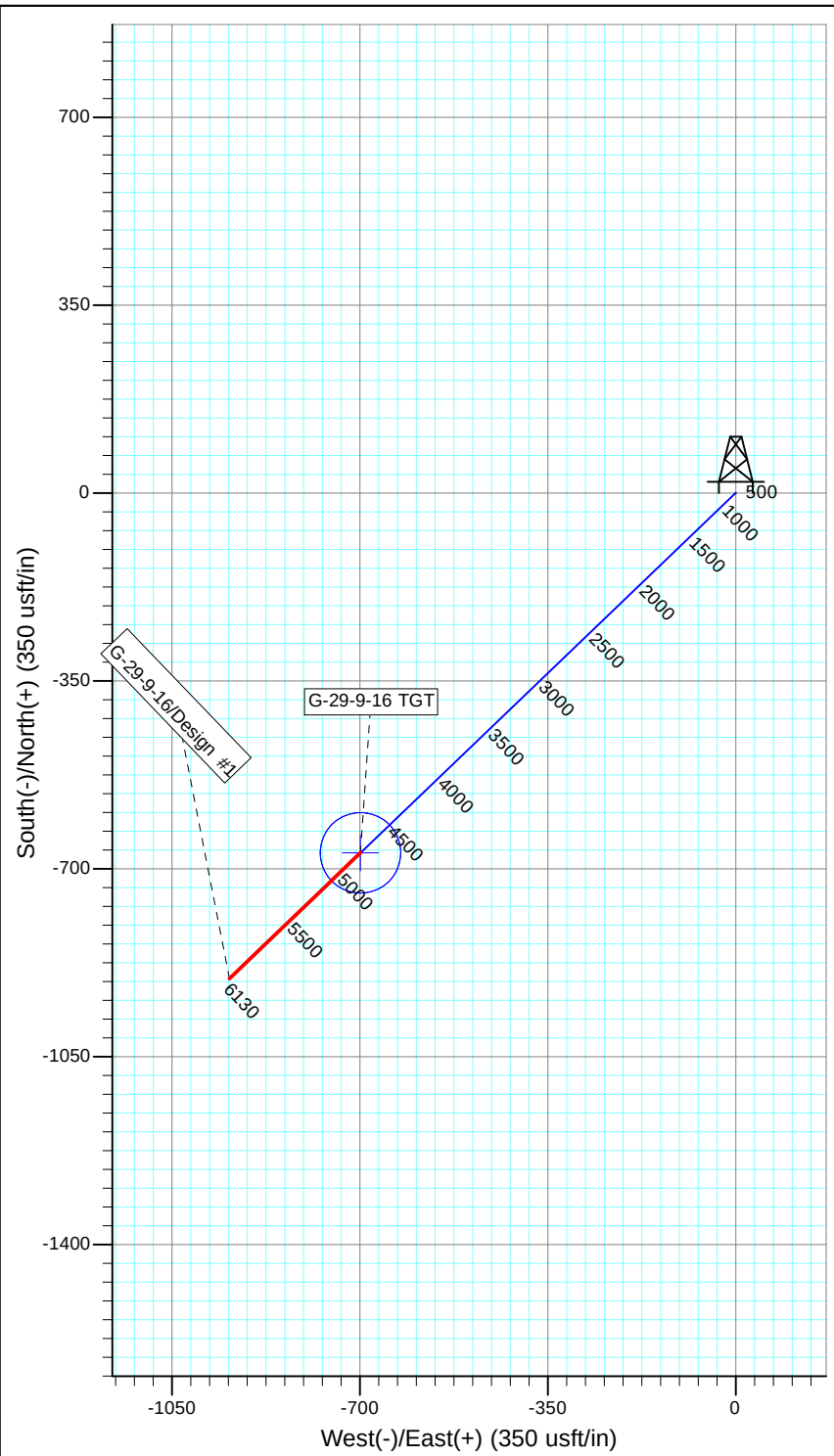
Project: USGS Myton SW (UT)
Site: SECTION 29 T9S, R16E
Well: G-29-9-16
Wellbore: Wellbore #1
Design: Design #1

T M

Azimuths to True North
Magnetic North: 10.98°

Magnetic Field
Strength: 51952.6snT
Dip Angle: 65.68°
Date: 4/17/2014
Model: IGRF2010





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
G-29-9-16 TGT	4705.0	-670.3	-698.8	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1603.6	15.05	226.19	1592.0	-90.7	-94.6	1.50	226.19	131.1	
4	4827.1	15.05	226.19	4705.0	-670.3	-698.8	0.00	0.00	968.3	G-29-9-16 TGT
5	6129.8	15.05	226.19	5963.0	-904.5	-942.9	0.00	0.00	1306.6	

PATZONE

API Well Number: 43013531860000

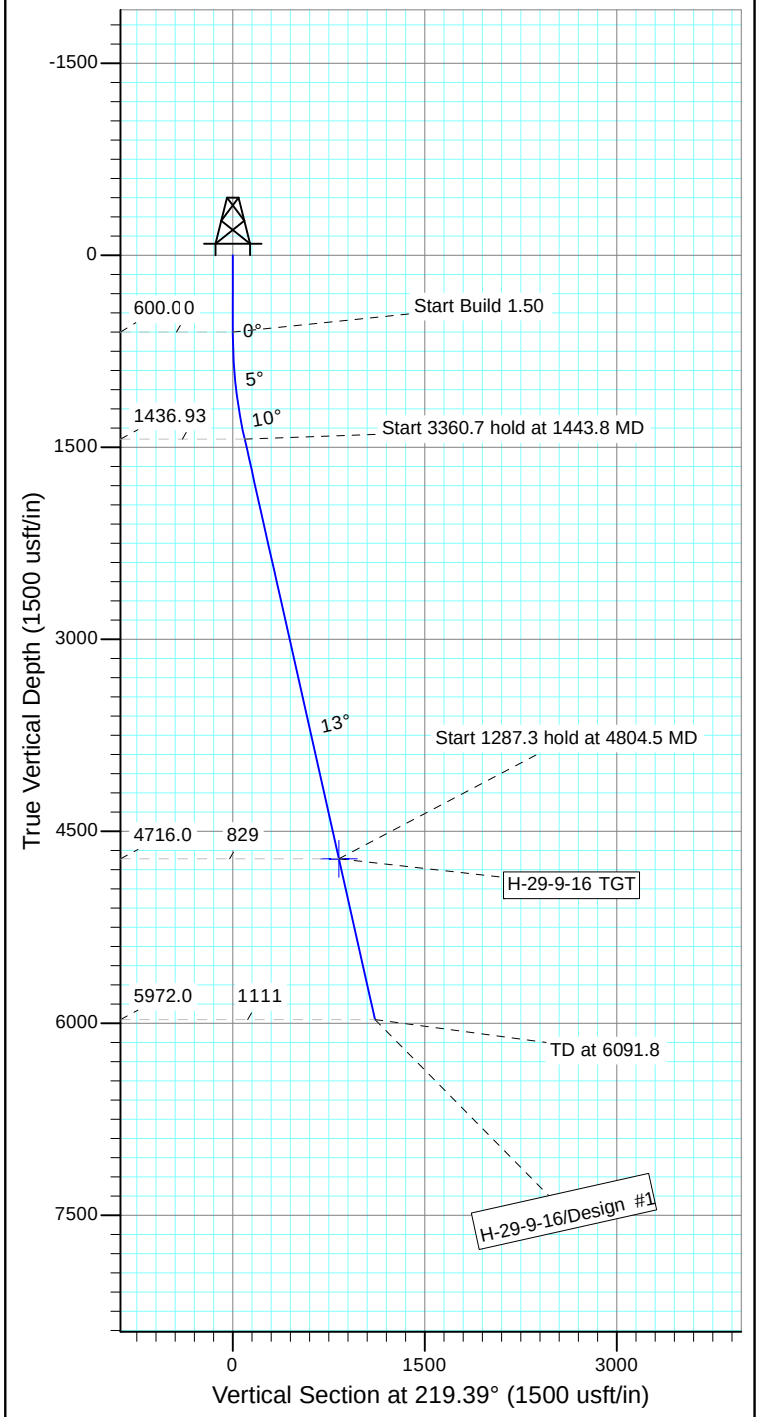
NEWFIELD

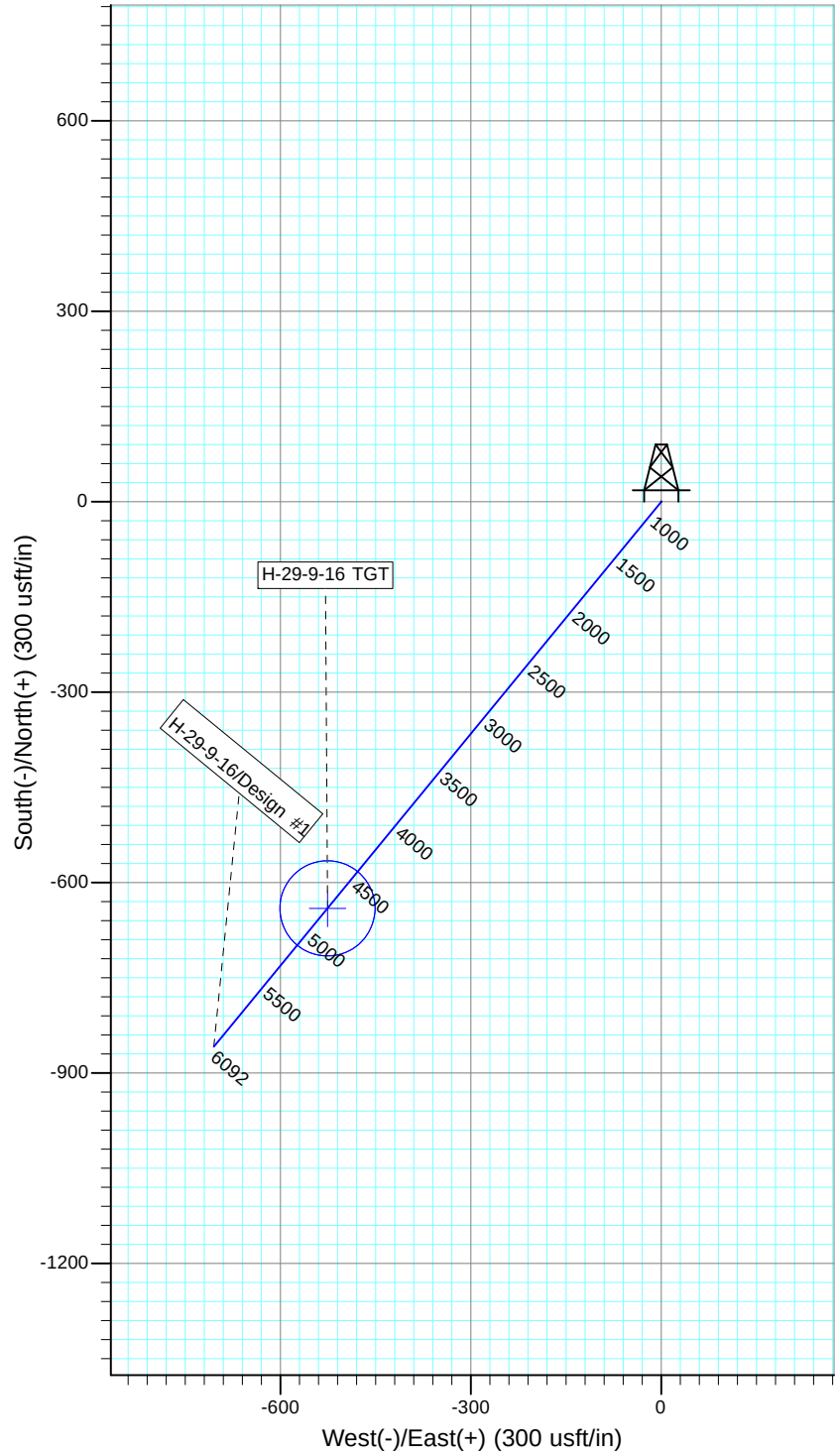
Project: USGS Myton SW (UT)
Site: SECTION 29 T9S, R16E
Well: H-29-9-16
Wellbore: Wellbore #1
Design: Design #1

T M

Azimuths to True North
Magnetic North: 10.98°

Magnetic Field
Strength: 51952.9snT
Dip Angle: 65.68°
Date: 4/18/2014
Model: IGRF2010





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
H-29-9-16 TGT	4716.0	-640.8	-526.2	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	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	1443.8	12.66	219.39	1436.9	-71.7	-58.9	1.50	219.39	92.8	
4	4804.5	12.66	219.39	4716.0	-640.8	-526.2	0.00	0.00	829.2	H-29-9-16 TGT
5	6091.8	12.66	219.39	5972.0	-858.8	-705.2	0.00	0.00	1111.2	

PATZONE

API Well Number: 43013531860000

NEWFIELD

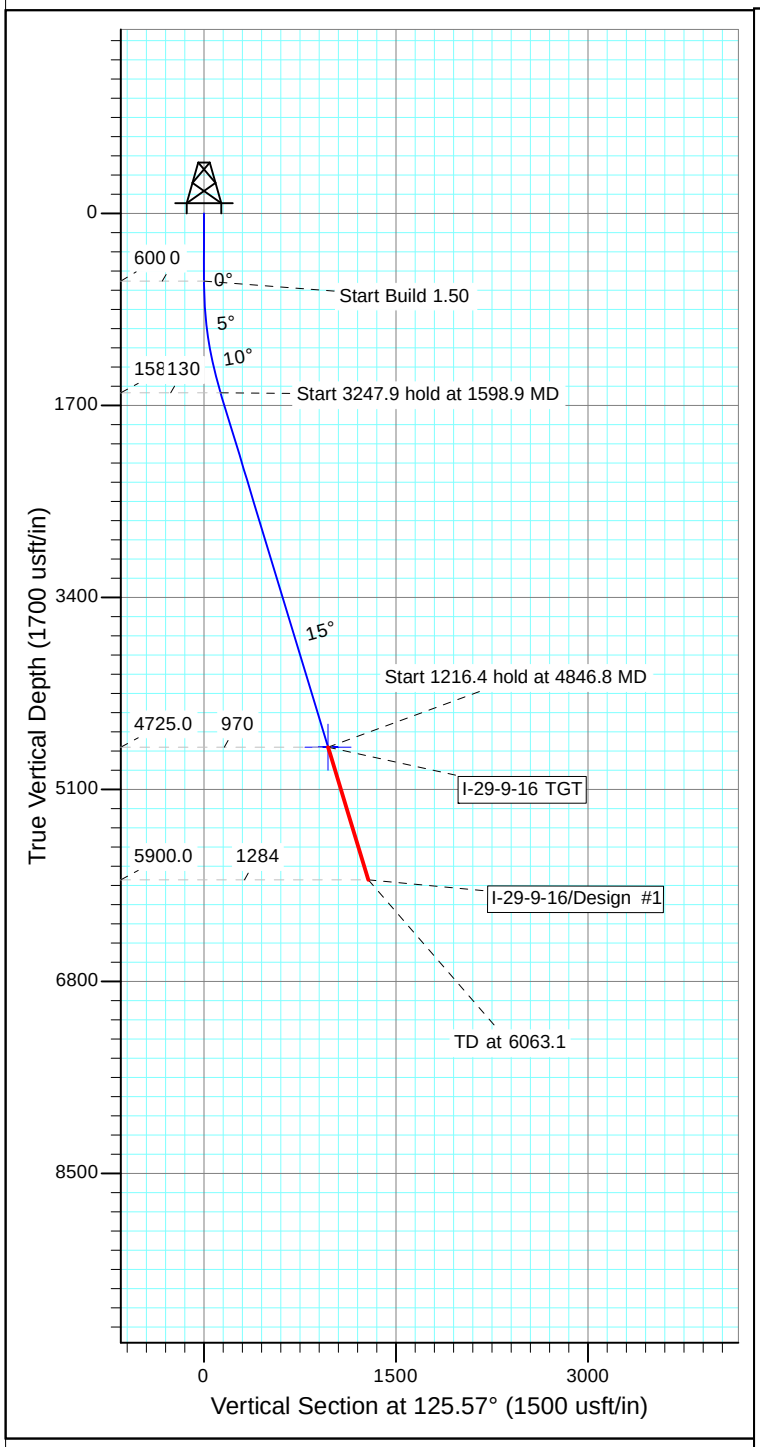
Project: USGS Myton SW (UT)
Site: SECTION 29 T9S, R16E
Well: I-29-9-16
Wellbore: Wellbore #1
Design: Design #1

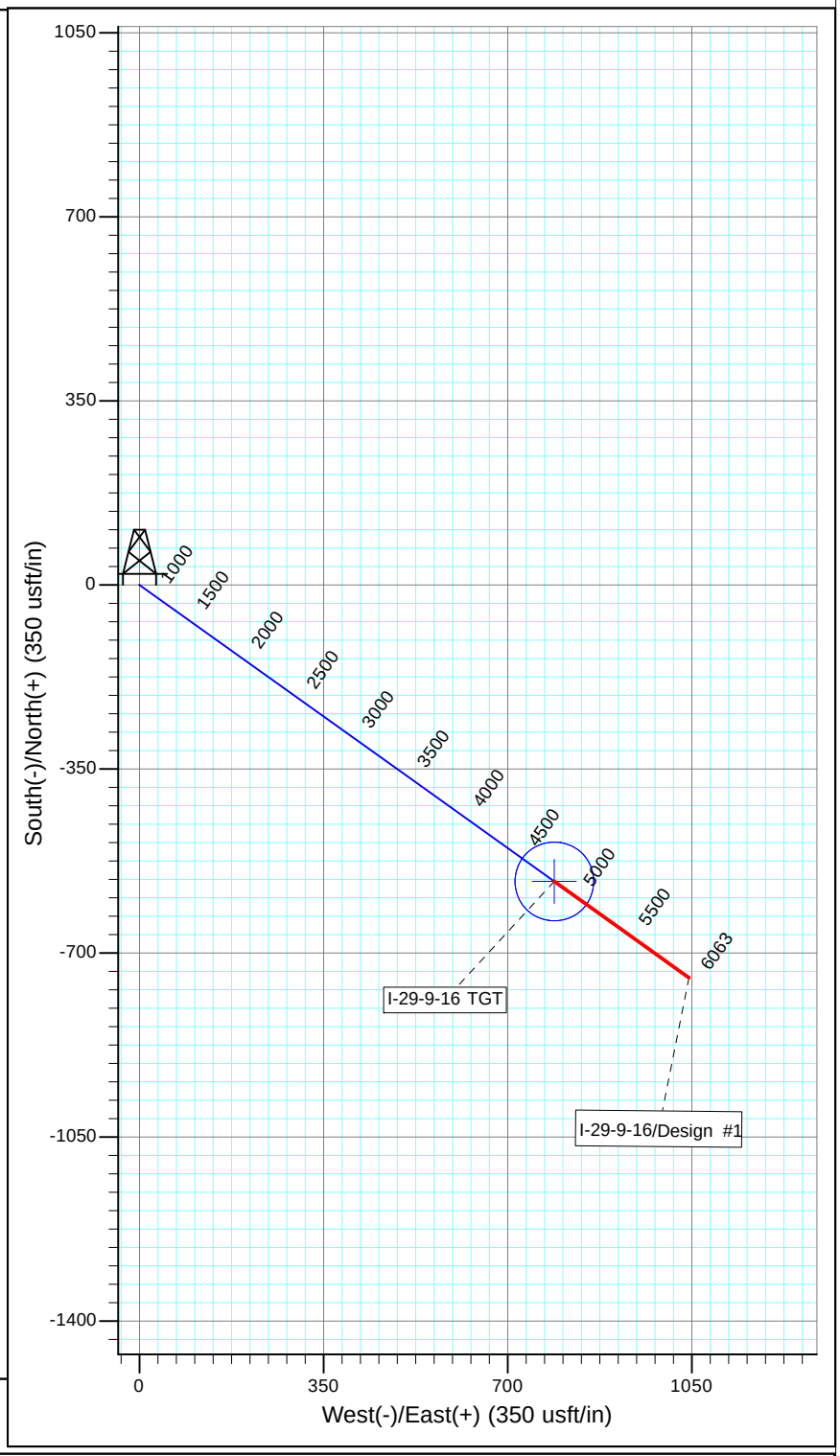
T M

Azimuths to True North
Magnetic North: 10.97°

Magnetic Field
Strength: 51952.2snT
Dip Angle: 65.68°
Date: 4/21/2014
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-29-9-16 TGT	4725.0	-564.0	788.6	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	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	1598.9	14.98	125.57	1587.5	-75.5	105.6	1.50	125.57	129.9	
4	4846.8	14.98	125.57	4725.0	-564.0	788.6	0.00	0.00	969.5	I-29-9-16 TGT
5	6063.1	14.98	125.57	5900.0	-746.9	1044.4	0.00	0.00	1284.0	

PAYZONE DIRECTIONAL

API Well Number: 43013531860000

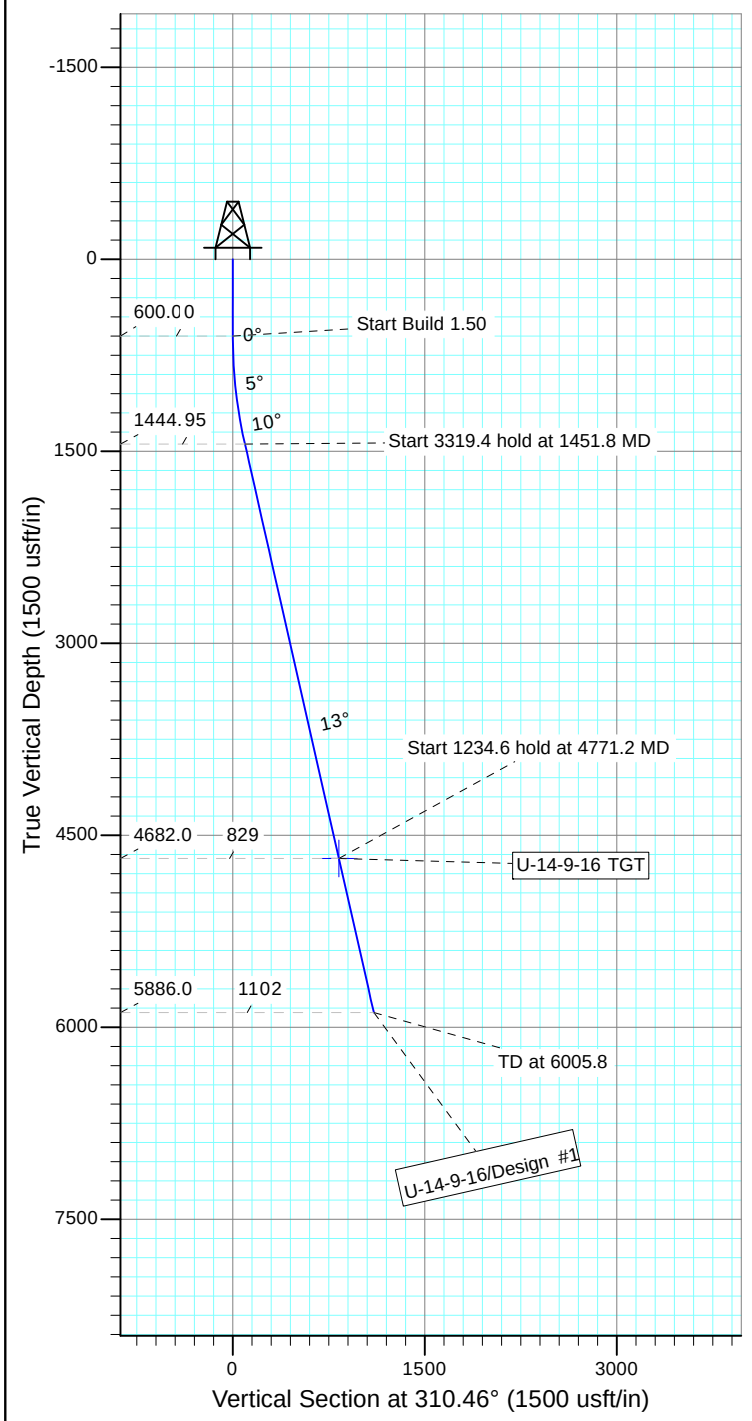
NEWFIELD

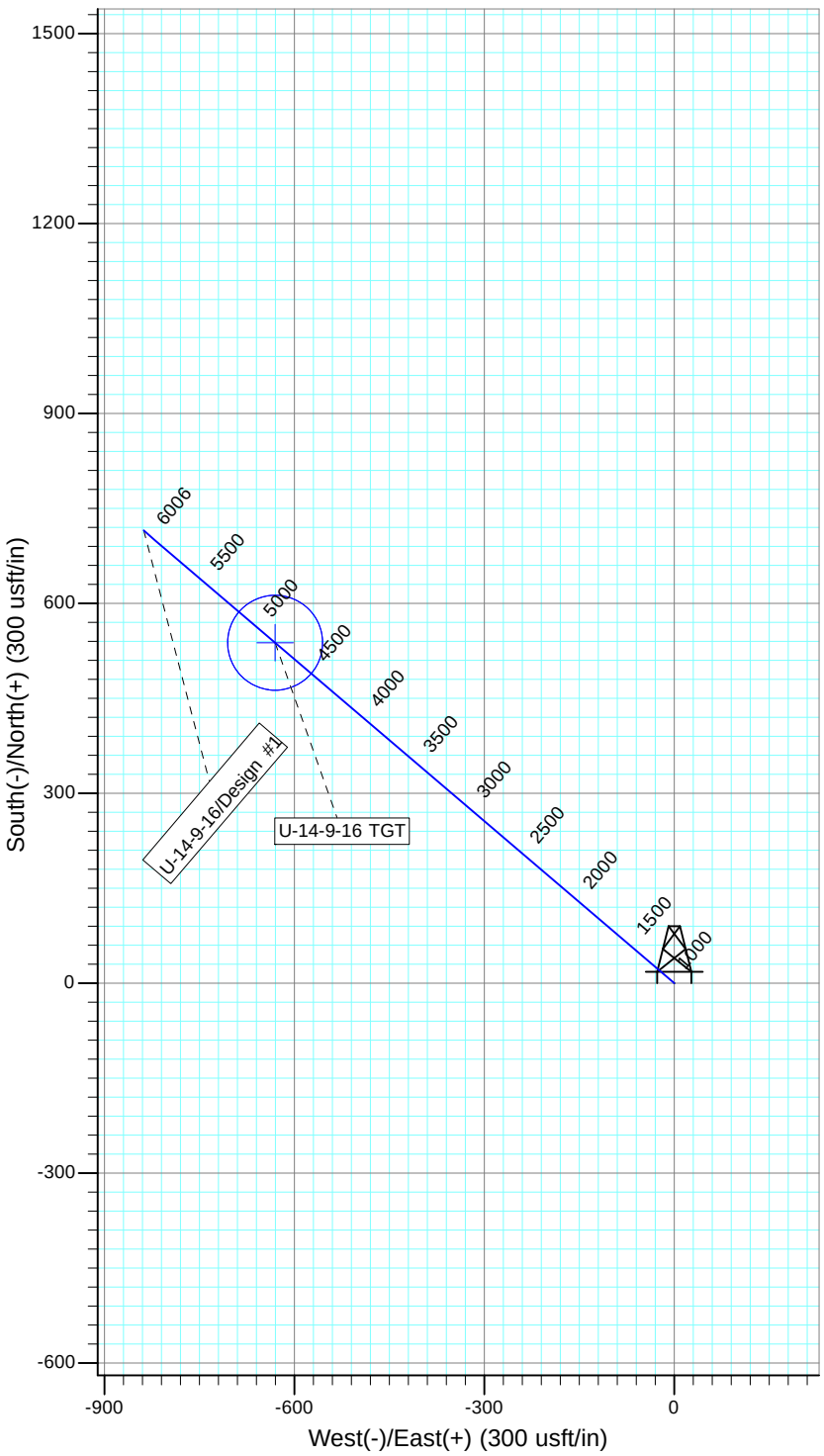
Project: USGS Myton SW (UT)
Site: SECTION 24 T9S, R16E
Well: U-14-9-16
Wellbore: Wellbore #1
Design: Design #1

T M

Azimuths to True North
Magnetic North: 10.96°

Magnetic Field
Strength: 51985.2snT
Dip Angle: 65.71°
Date: 3/11/2014
Model: IGRF2010





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
U-14-9-16 TGT	4682.0	537.8	-630.5	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	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	1451.8	12.78	310.46	1444.8	61.4	-72.0	1.50	310.46	94.6	
4	4771.2	12.78	310.46	4682.0	537.8	-630.5	0.00	0.00	828.7	U-14-9-16 TGT
5	6005.8	12.78	310.46	5886.0	714.9	-838.3	0.00	0.00	1101.7	

PATZONE

API Well Number: 43013531860000

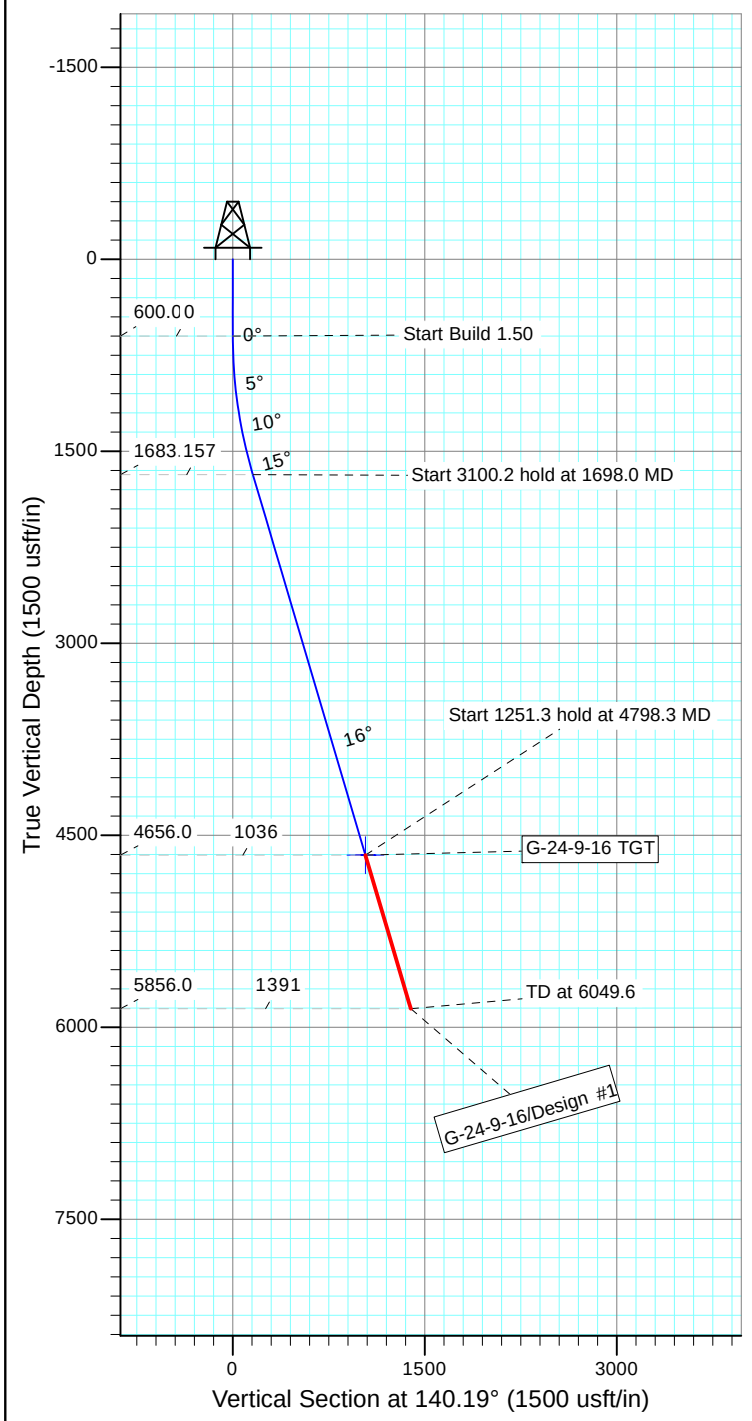
NEWFIELD

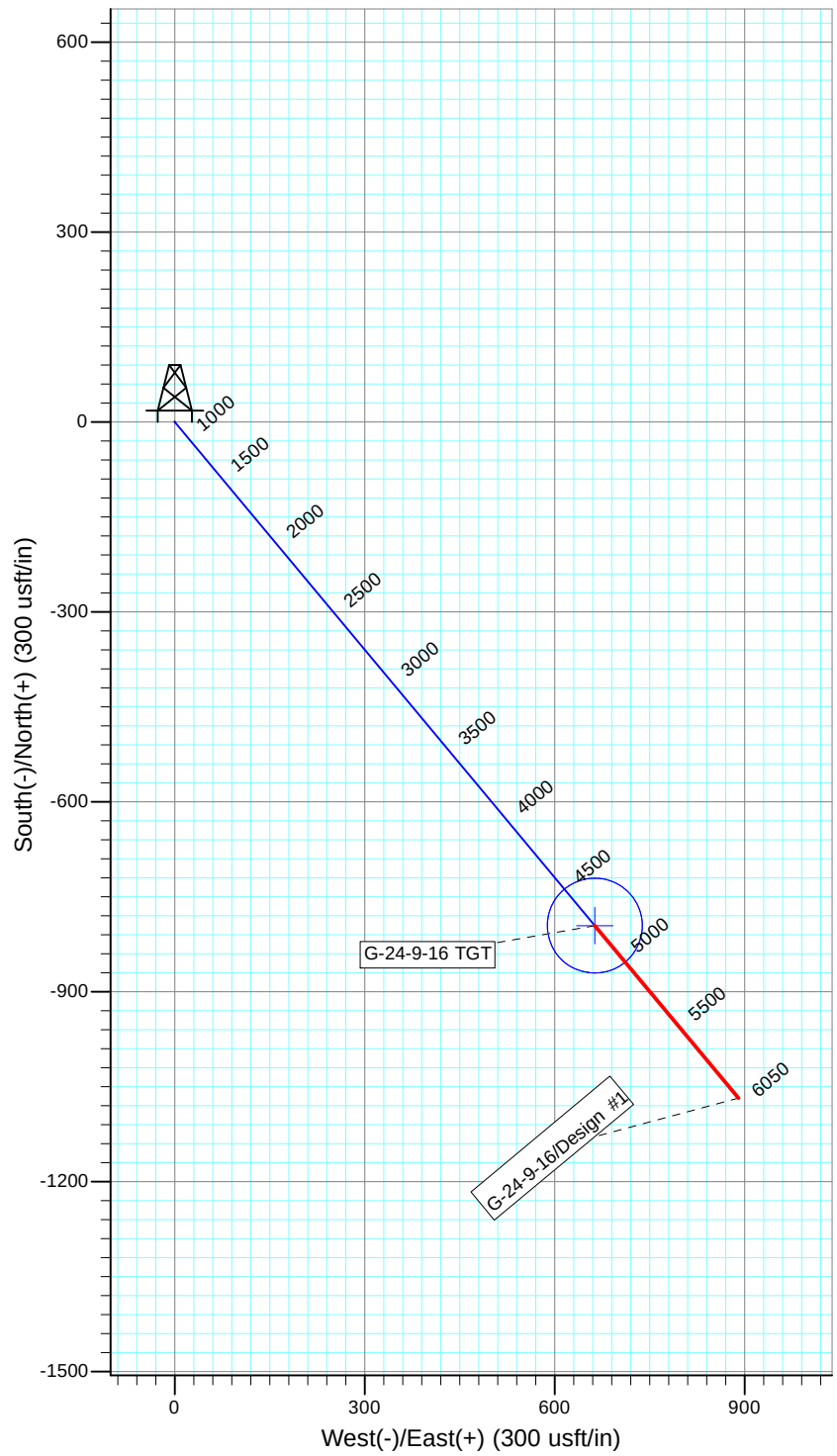
Project: USGS Myton SW (UT)
Site: SECTION 24 T9S, R16E
Well: G-24-9-16
Wellbore: Wellbore #1
Design: Design #1

T M

Azimuths to True North
Magnetic North: 10.95°

Magnetic Field
Strength: 51975.2snT
Dip Angle: 65.70°
Date: 4/17/2014
Model: IGRF2010





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
G-24-9-16 TGT	4656.0	-795.6	663.1	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	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	1698.0	16.47	140.19	1683.0	-120.4	100.4	1.50	140.19	156.7	
4	4798.3	16.47	140.19	4656.0	-795.6	663.1	0.00	0.00	1035.7	G-24-9-16 TGT
5	6049.6	16.47	140.19	5856.0	-1068.2	890.3	0.00	0.00	1390.5	

PAYZONE

API Well Number: 43013531860000

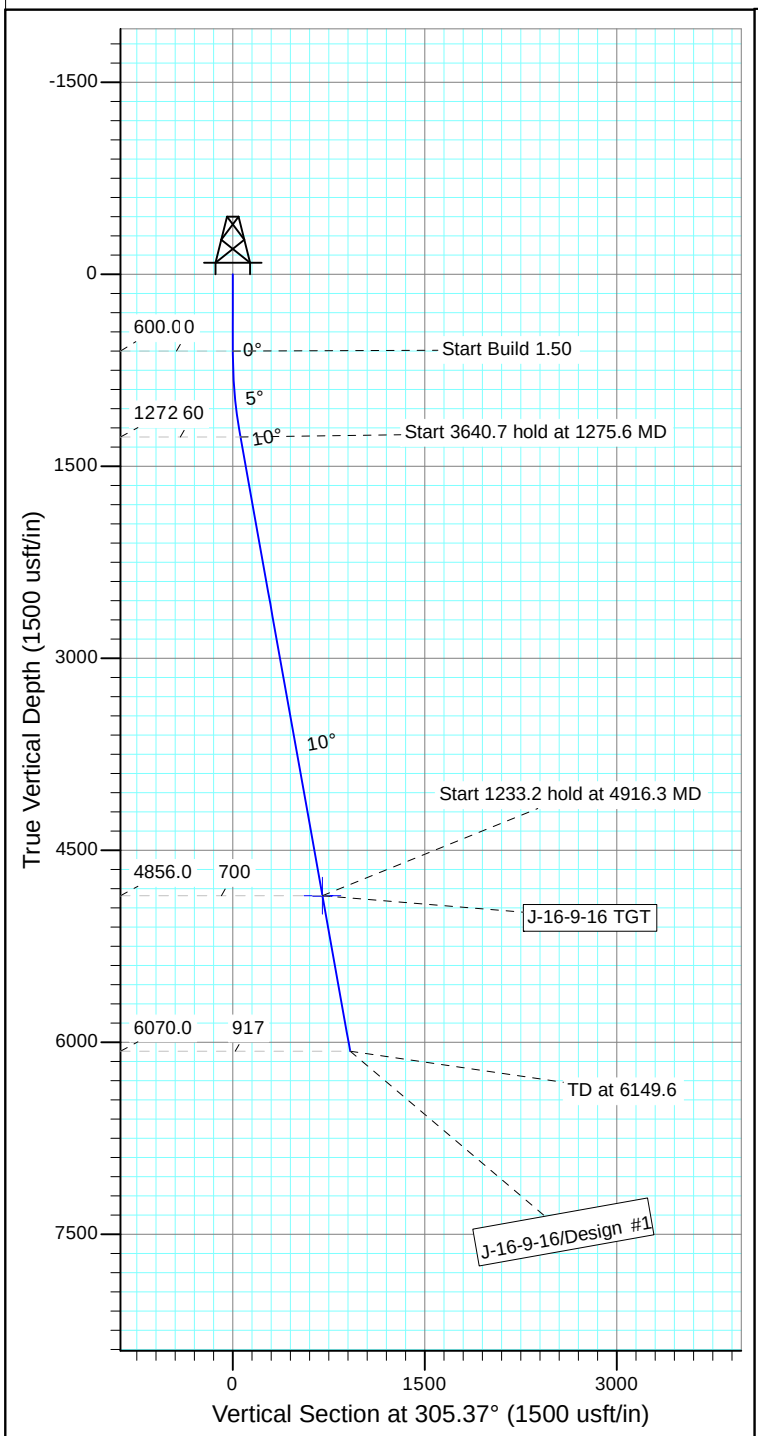
NEWFIELD

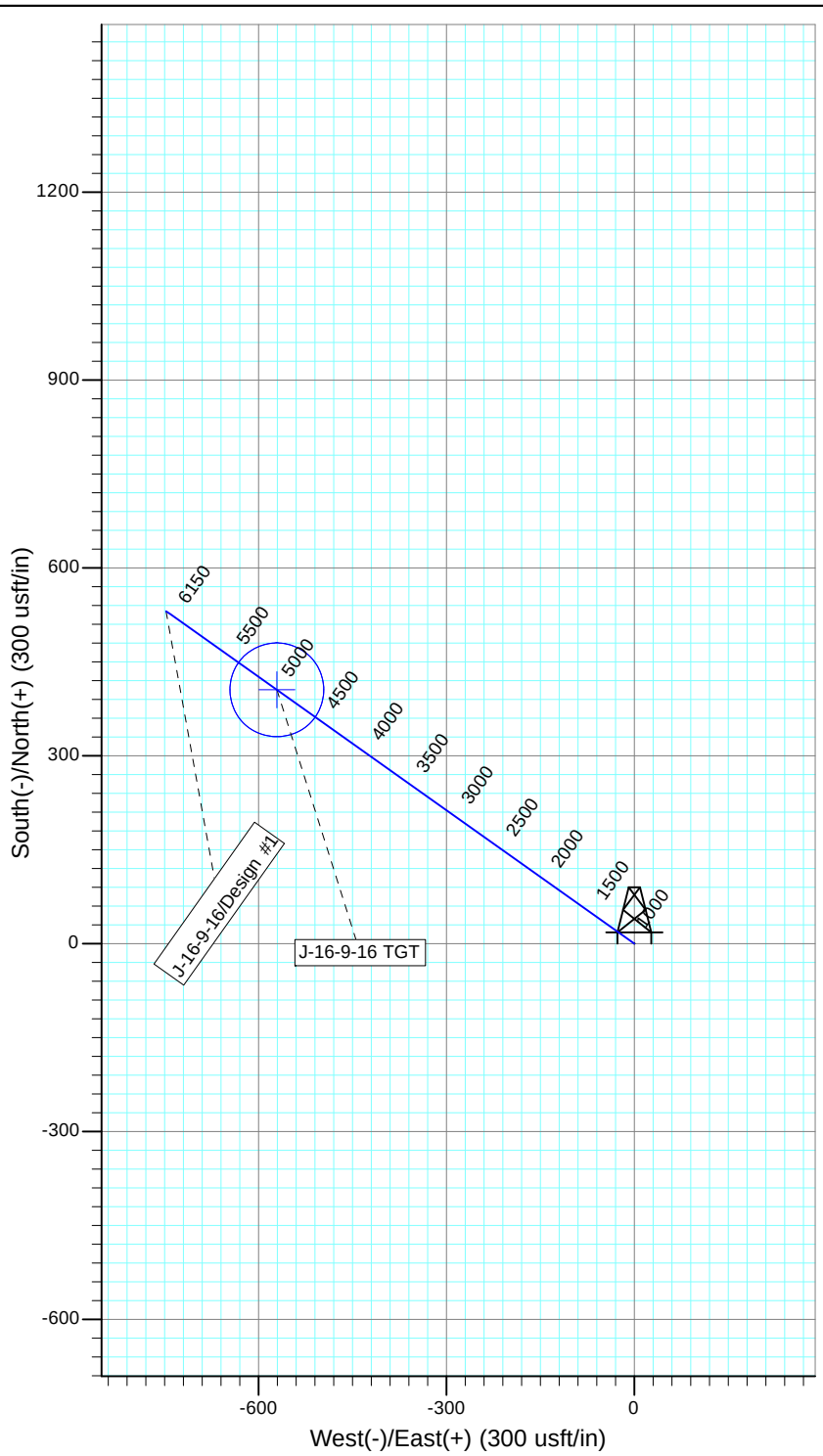
Project: USGS Myton SW (UT)
Site: SECTION 15 T9S, R16E
Well: J-16-9-16
Wellbore: Wellbore #1
Design: Design #1

T M

Azimuths to True North
Magnetic North: 10.97°

Magnetic Field
Strength: 51976.6snT
Dip Angle: 65.71°
Date: 4/9/2014
Model: IGRF2010





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
J-16-9-16 TGT	4856.0	405.3	-570.9	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DIeg	TFace	VSect	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	1275.6	10.13	305.37	1272.1	34.5	-48.6	1.50	305.37	59.6	
4	4916.3	10.13	305.37	4856.0	405.3	-570.9	0.00	0.00	700.2	J-16-9-16 TGT
5	6149.6	10.13	305.37	6070.0	530.9	-747.9	0.00	0.00	917.2	

PATZONE

API Well Number: 43013531860000

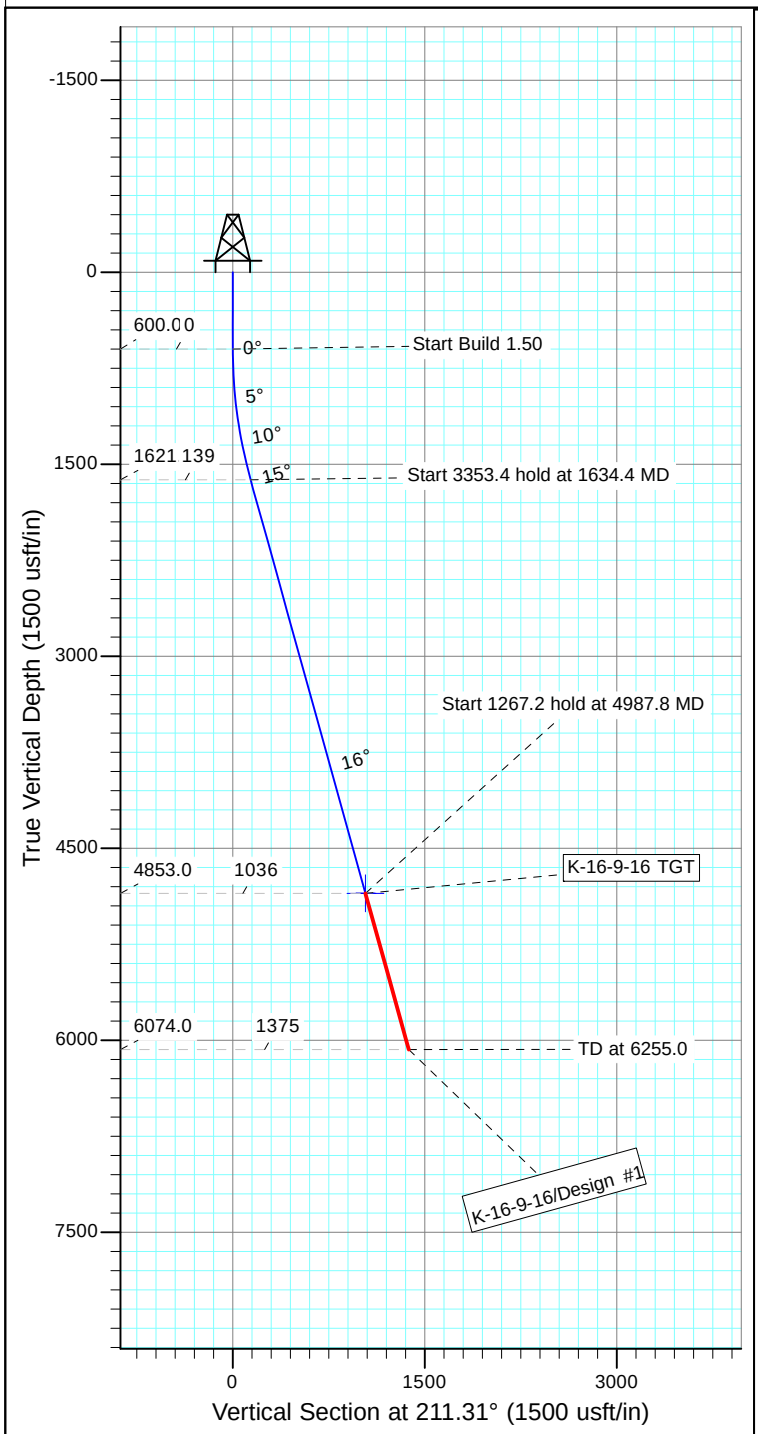
NEWFIELD

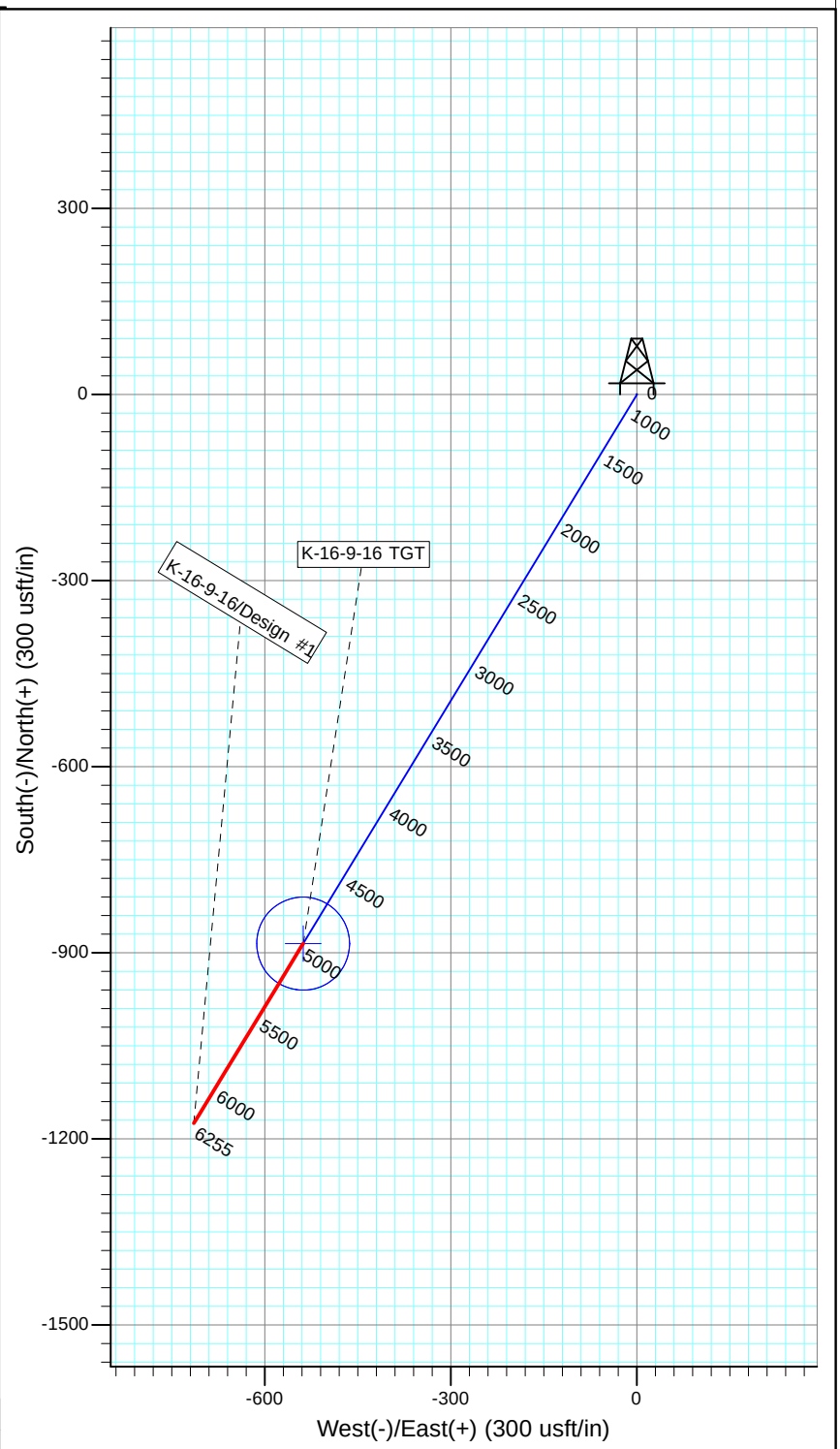
Project: USGS Myton SW (UT)
Site: SECTION 15 T9S, R16E
Well: K-16-9-16
Wellbore: Wellbore #1
Design: Design #1

T M

Azimuths to True North
Magnetic North: 10.97°

Magnetic Field
Strength: 51978.7snT
Dip Angle: 65.71°
Date: 4/1/2014
Model: IGRF2010





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
K-16-9-16 TGT	4853.0	-885.3	-538.5	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	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	1634.4	15.52	211.31	1621.8	-118.9	-72.3	1.50	211.31	139.2	
4	4987.8	15.52	211.31	4853.0	-885.3	-538.5	0.00	0.00	1036.2	K-16-9-16 TGT
5	6255.0	15.52	211.31	6074.0	-1174.9	-714.6	0.00	0.00	1375.2	

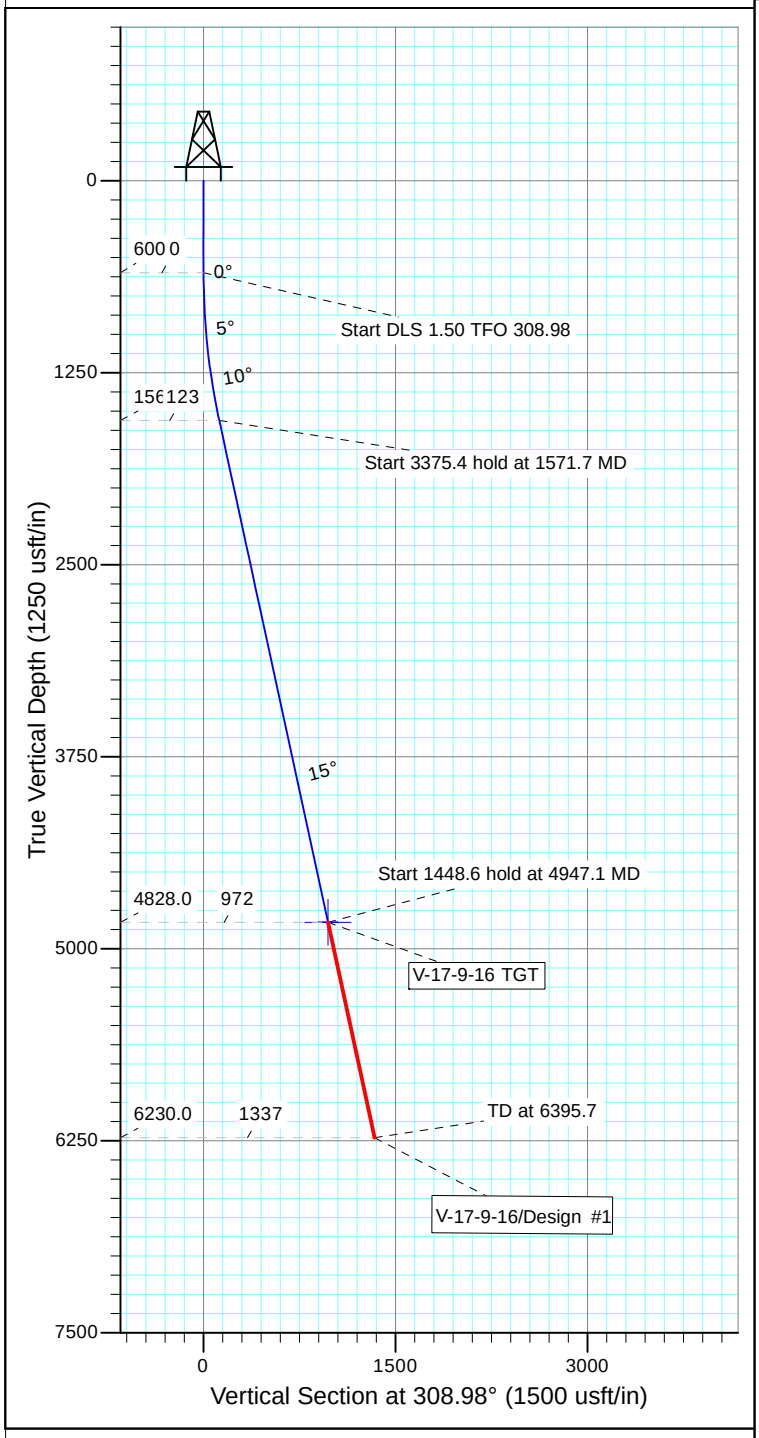
PATZONE

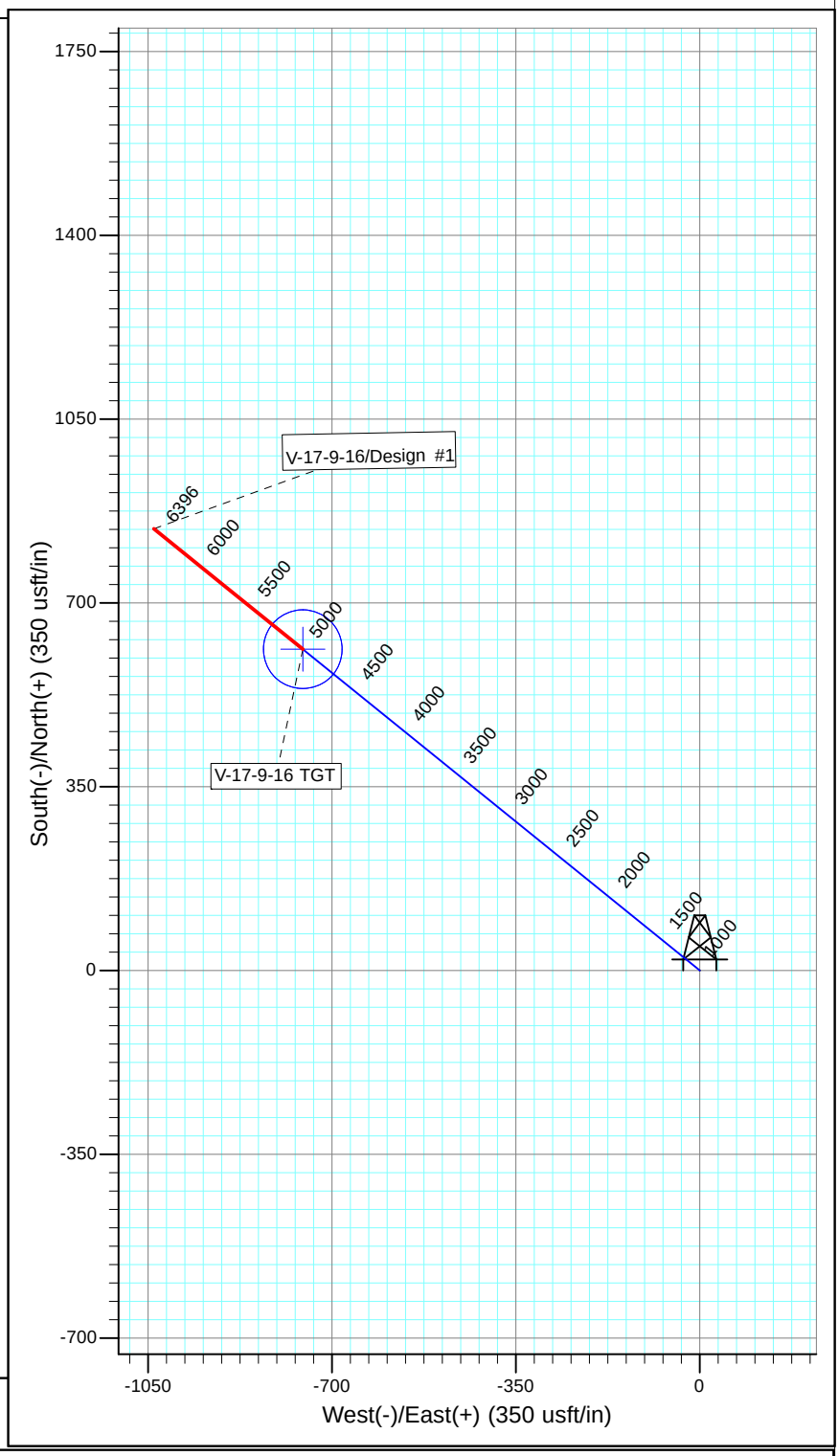
API Well Number: 43013531860000

Project: USGS Myton SW (UT)
Site: SECTION 20 T9, R16
Well: V-17-9-16
Wellbore: Wellbore #1
Design: Design #1

Azimuths to True North
Magnetic North: 10.92°

Magnetic Field
Strength: 51920.3snT
Dip Angle: 65.68°
Date: 9/23/2014
Model: IGRF2010





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
V-17-9-16 TGT	4828.0	611.6	-755.8	Circle (Radius: 75.0)

SECTION DETAILS

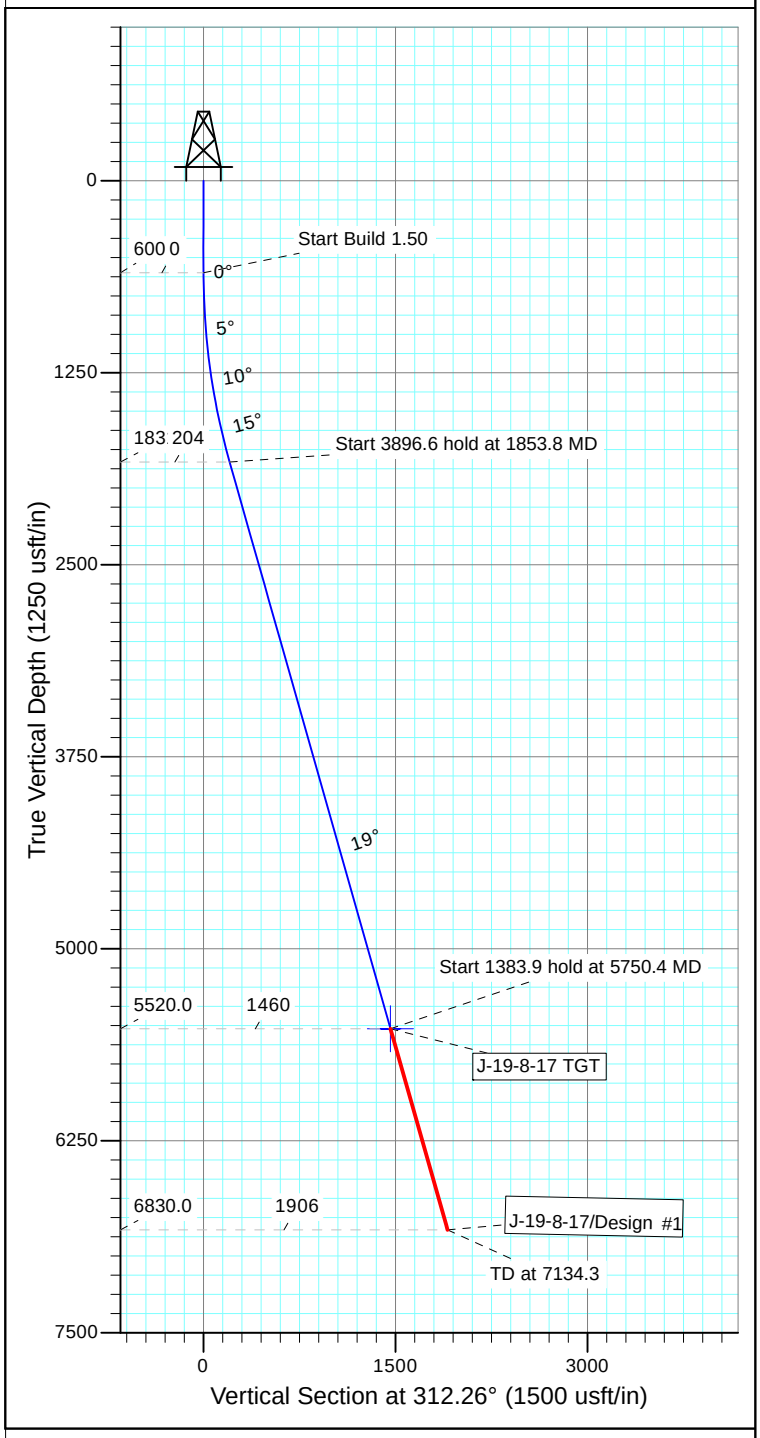
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1571.7	14.57	308.98	1561.2	77.3	-95.6	1.50	308.98	122.9	
4	4947.1	14.57	308.98	4828.0	611.6	-755.8	0.00	0.00	972.3	V-17-9-16 TGT
5	6395.7	14.57	308.98	6230.0	840.9	-1039.2	0.00	0.00	1336.9	

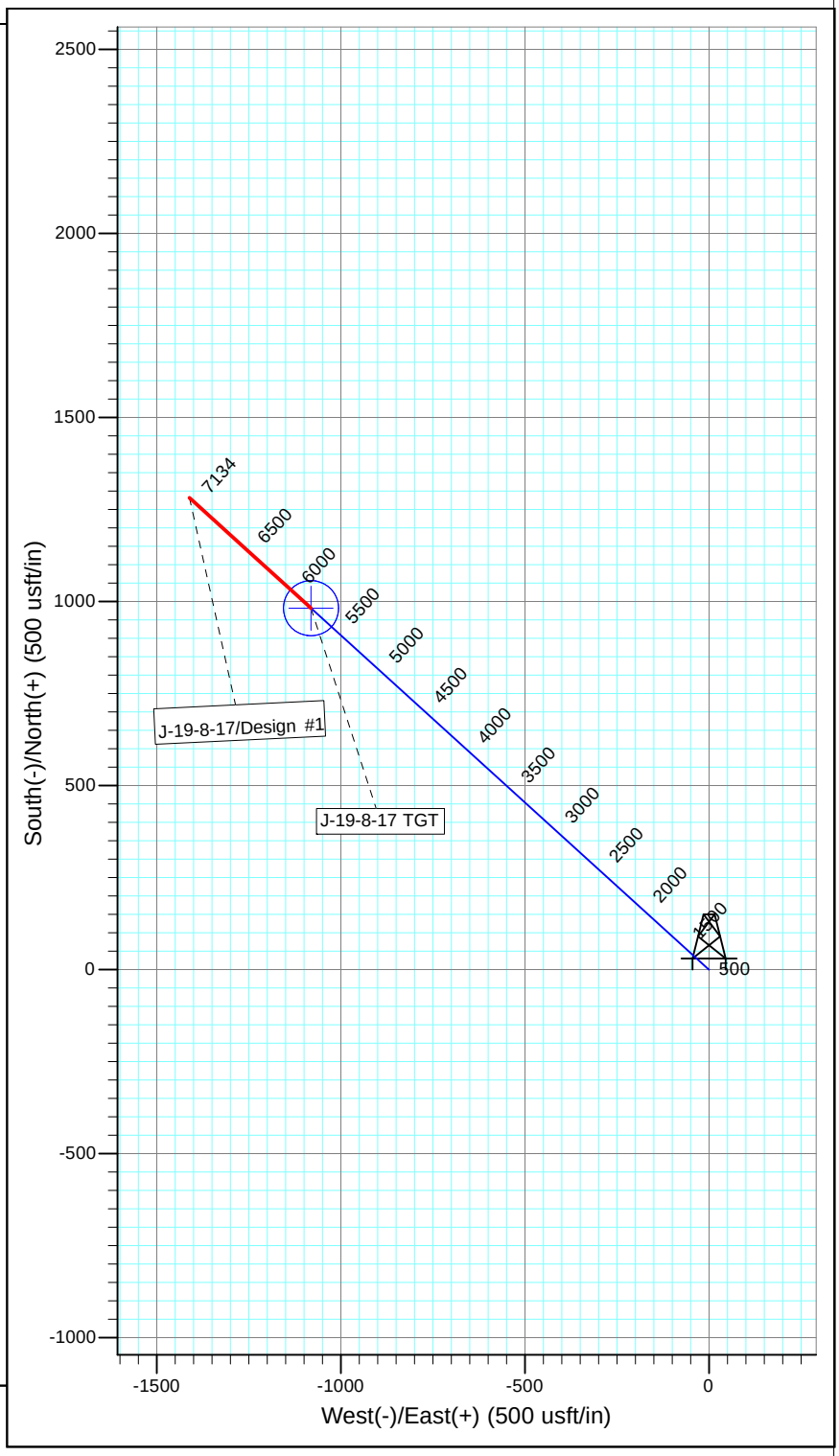
API Well Number: 43013531860000

Project: USGS Myton SW (UT)
Site: SECTION 20 T8S, R17E
Well: J-19-8-17
Wellbore: Wellbore #1
Design: Design #1

Azimuths to True North
Magnetic North: 10.91°

Magnetic Field
Strength: 51995.4snT
Dip Angle: 65.77°
Date: 8/14/2014
Model: IGRF2010





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
J-19-8-17 TGT	5520.0	981.9	-1080.7	Circle (Radius: 75.0)

SECTION DETAILS

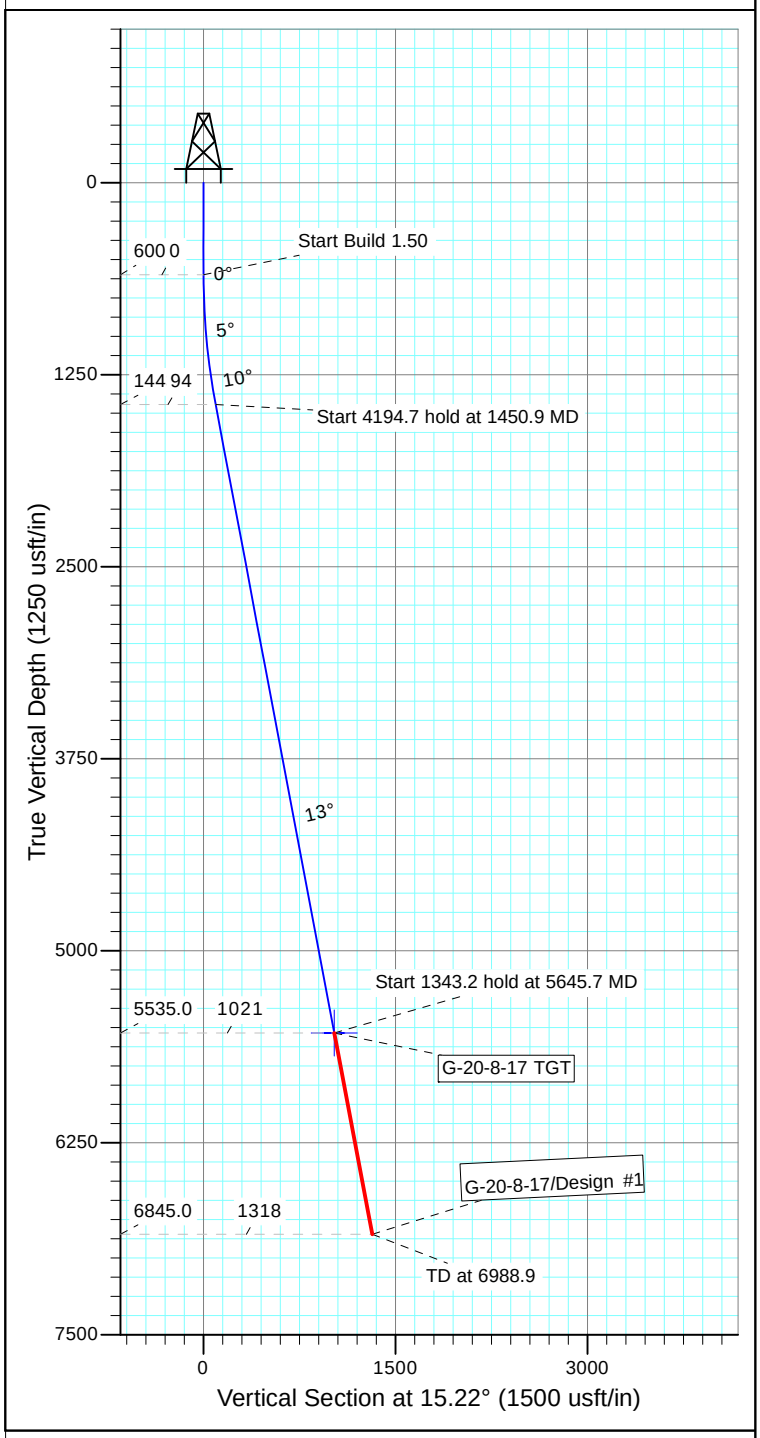
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1853.8	18.81	312.26	1831.4	137.1	-150.9	1.50	312.26	203.9	
4	5750.4	18.81	312.26	5520.0	981.9	-1080.7	0.00	0.00	1460.1	J-19-8-17 TGT
5	7134.3	18.81	312.26	6830.0	1282.0	-1410.8	0.00	0.00	1906.3	

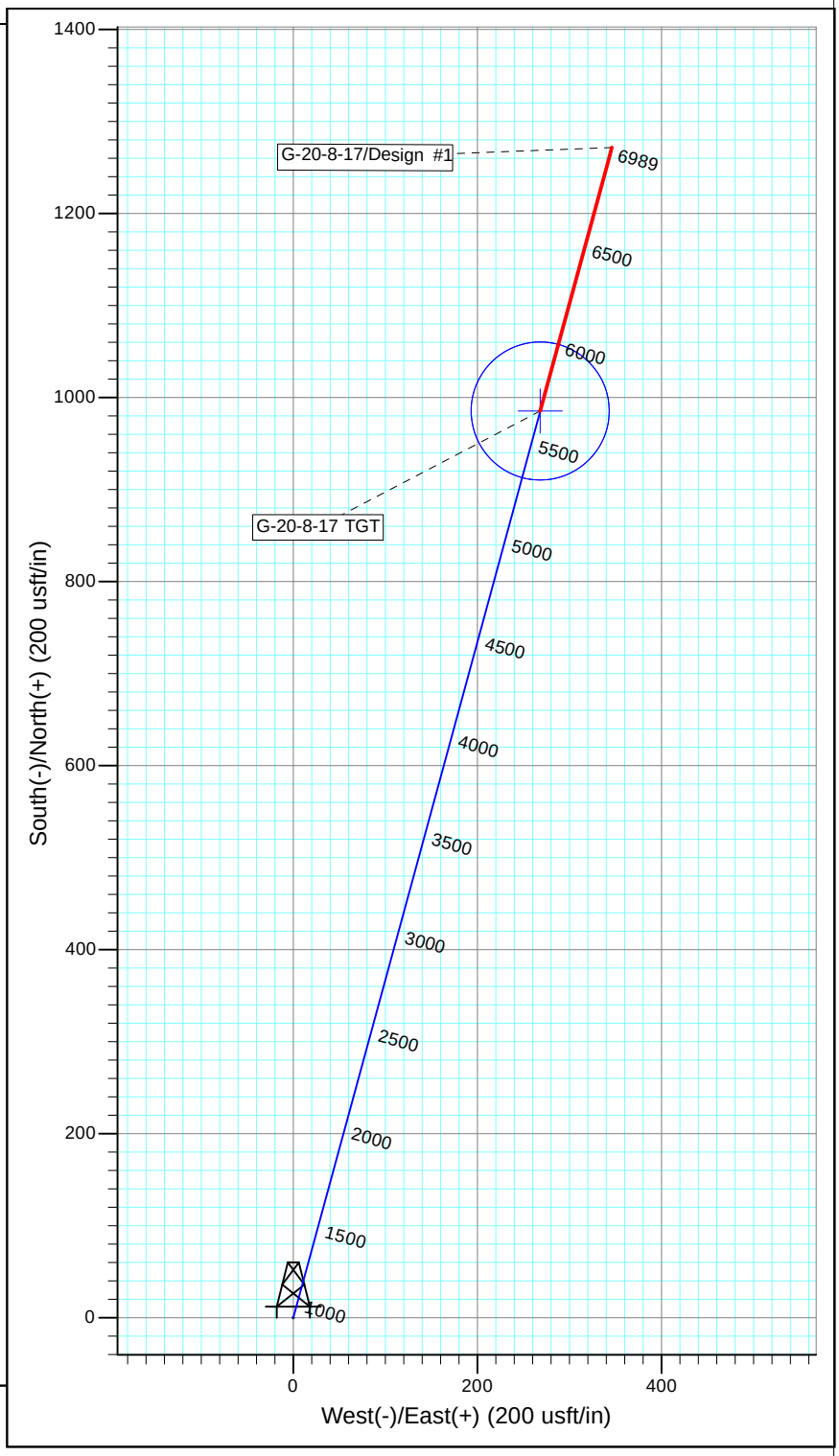
API Well Number: 43013531860000

Project: USGS Myton SW (UT)
Site: SECTION 20 T8S, R17E
Well: G-20-8-17
Wellbore: Wellbore #1
Design: Design #1

Azimuths to True North
Magnetic North: 10.91°

Magnetic Field
Strength: 51995.4snT
Dip Angle: 65.77°
Date: 8/14/2014
Model: IGRF2010





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
G-20-8-17 TGT	5535.0	985.3	268.1	Circle (Radius: 75.0)

SECTION DETAILS

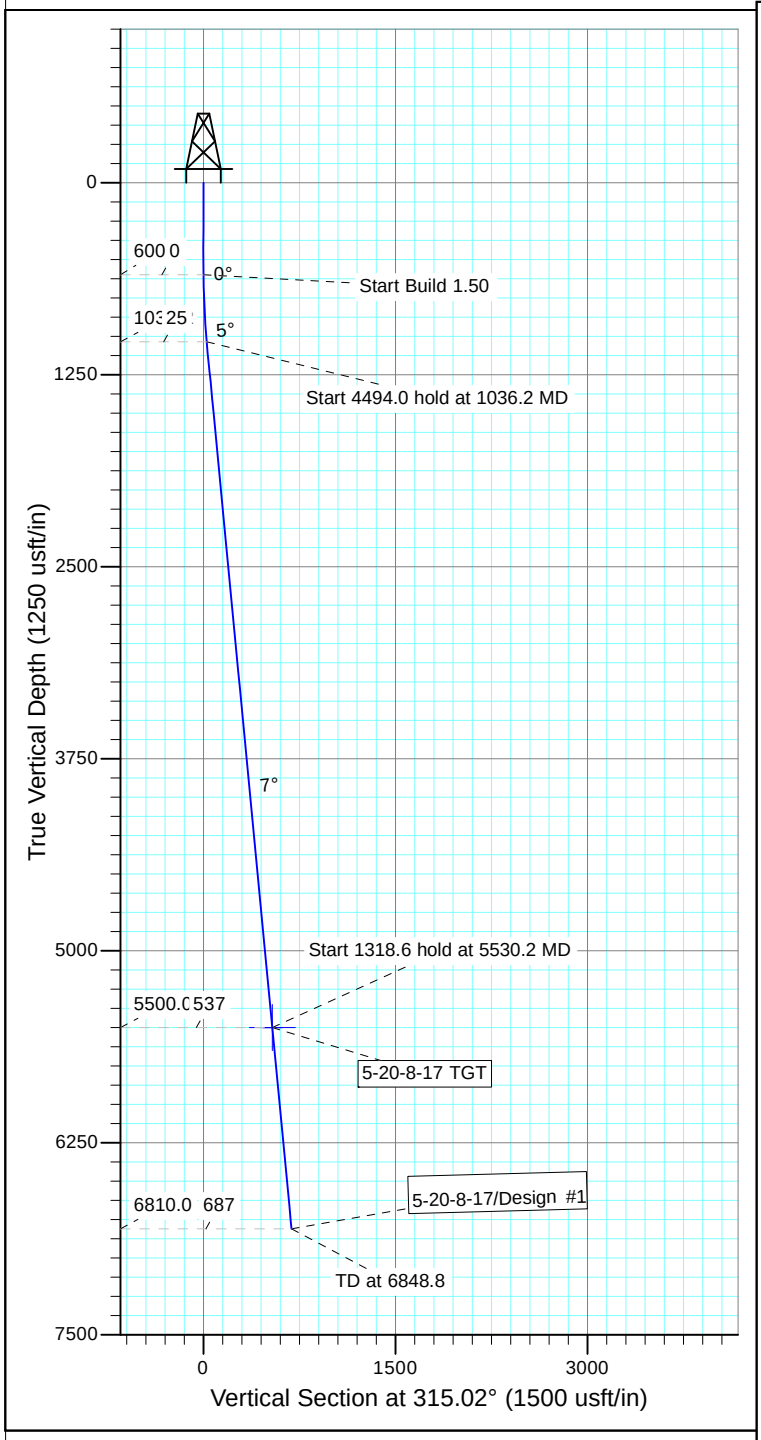
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1450.9	12.76	15.22	1443.9	91.1	24.8	1.50	15.22	94.4	
4	5645.7	12.76	15.22	5535.0	985.3	268.1	0.00	0.00	1021.2	G-20-8-17 TGT
5	6988.9	12.76	15.22	6845.0	1271.7	346.0	0.00	0.00	1317.9	

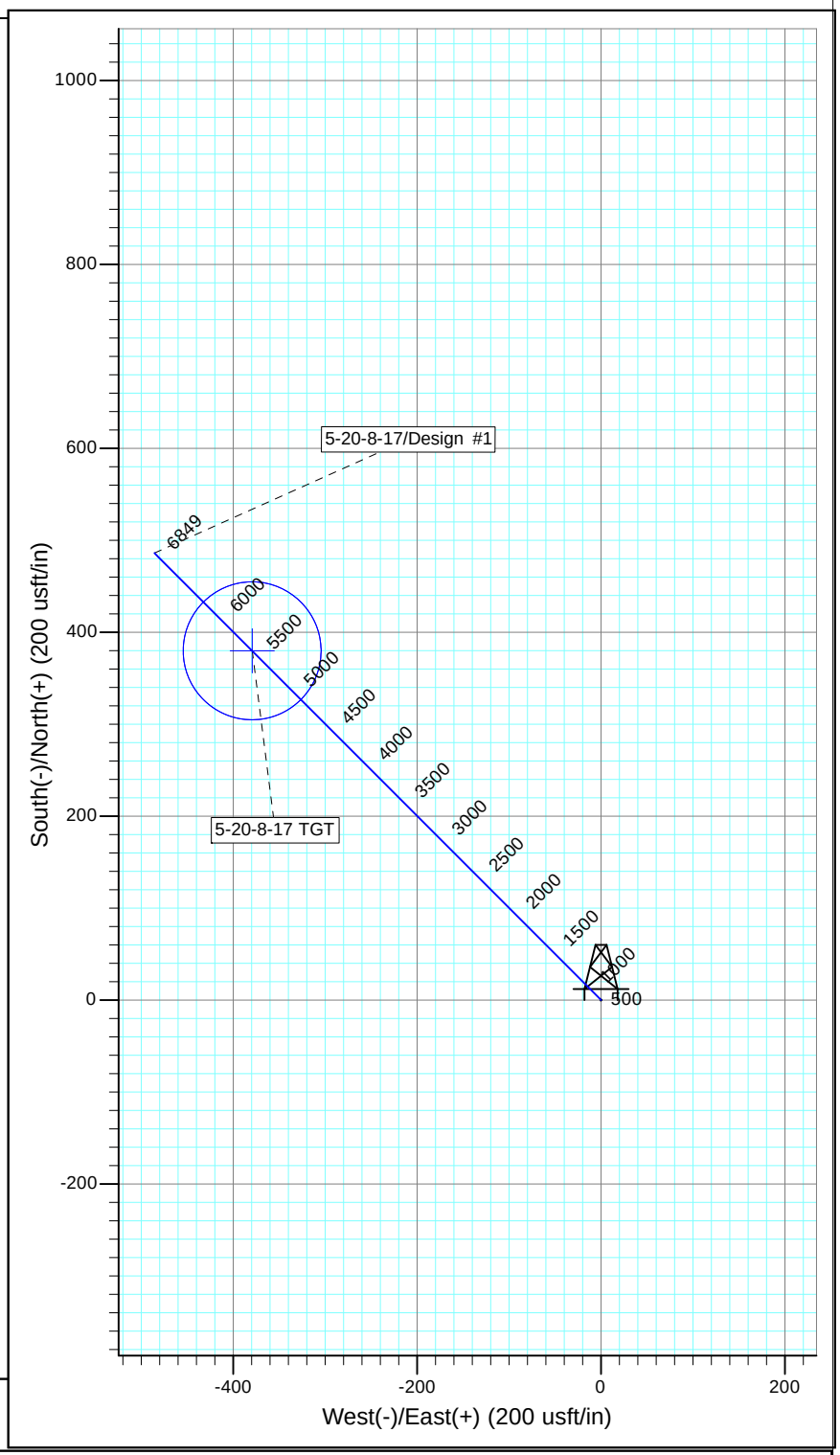
API Well Number: 43013531860000

Project: USGS Myton SW (UT)
Site: SECTION 20 T8S, R17E
Well: 5-20-8-17
Wellbore: Wellbore #1
Design: Design #1

Azimuths to True North
Magnetic North: 10.89°

Magnetic Field
Strength: 51981.0snT
Dip Angle: 65.77°
Date: 10/6/2014
Model: IGRF2010





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
5-20-8-17 TGT	5500.0	379.8	-379.6	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	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	1036.2	6.54	315.02	1035.2	17.6	-17.6	1.50	315.02	24.9	
4	5530.2	6.54	315.02	5500.0	379.8	-379.6	0.00	0.00	537.0	5-20-8-17 TGT
5	6848.8	6.54	315.02	6810.0	486.1	-485.8	0.00	0.00	687.2	

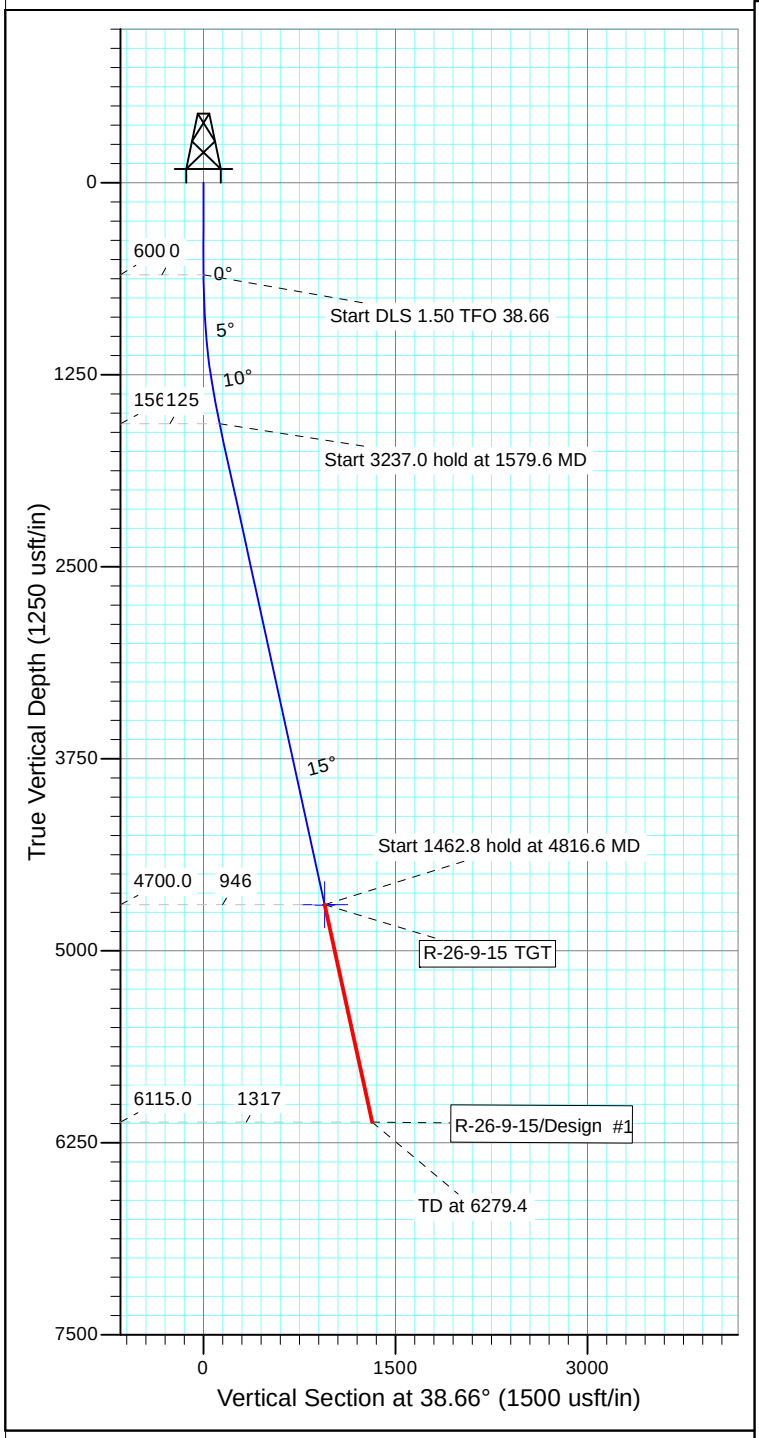
API Well Number: 43013531860000

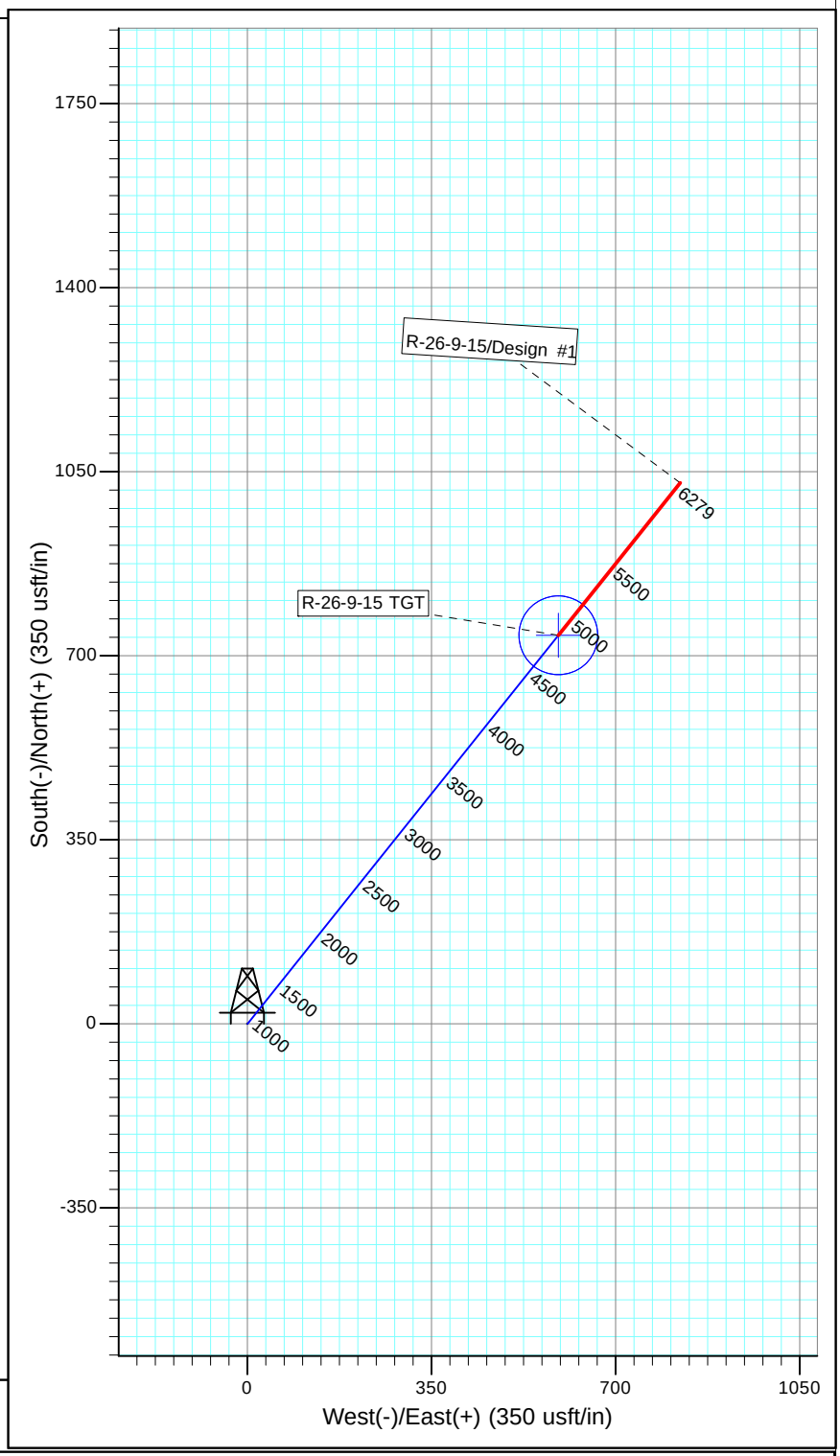
NEWFIELD

Project: USGS Myton SW (UT)
Site: SECTION 26 T9S, 15E
Well: R-26-9-15
Wellbore: Wellbore #1
Design: Design #1

T M
Azimuths to True North
Magnetic North: 10.94°

Magnetic Field
Strength: 51893.0snT
Dip Angle: 65.65°
Date: 9/23/2014
Model: IGRF2010





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
R-26-9-15 TGT	4700.0	738.7	590.9	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	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	1579.6	14.69	38.66	1568.9	97.5	78.0	1.50	38.66	124.9	
4	4816.6	14.69	38.66	4700.0	738.7	590.9	0.00	0.00	946.0	R-26-9-15 TGT
5	6279.4	14.69	38.66	6115.0	1028.4	822.7	0.00	0.00	1317.0	

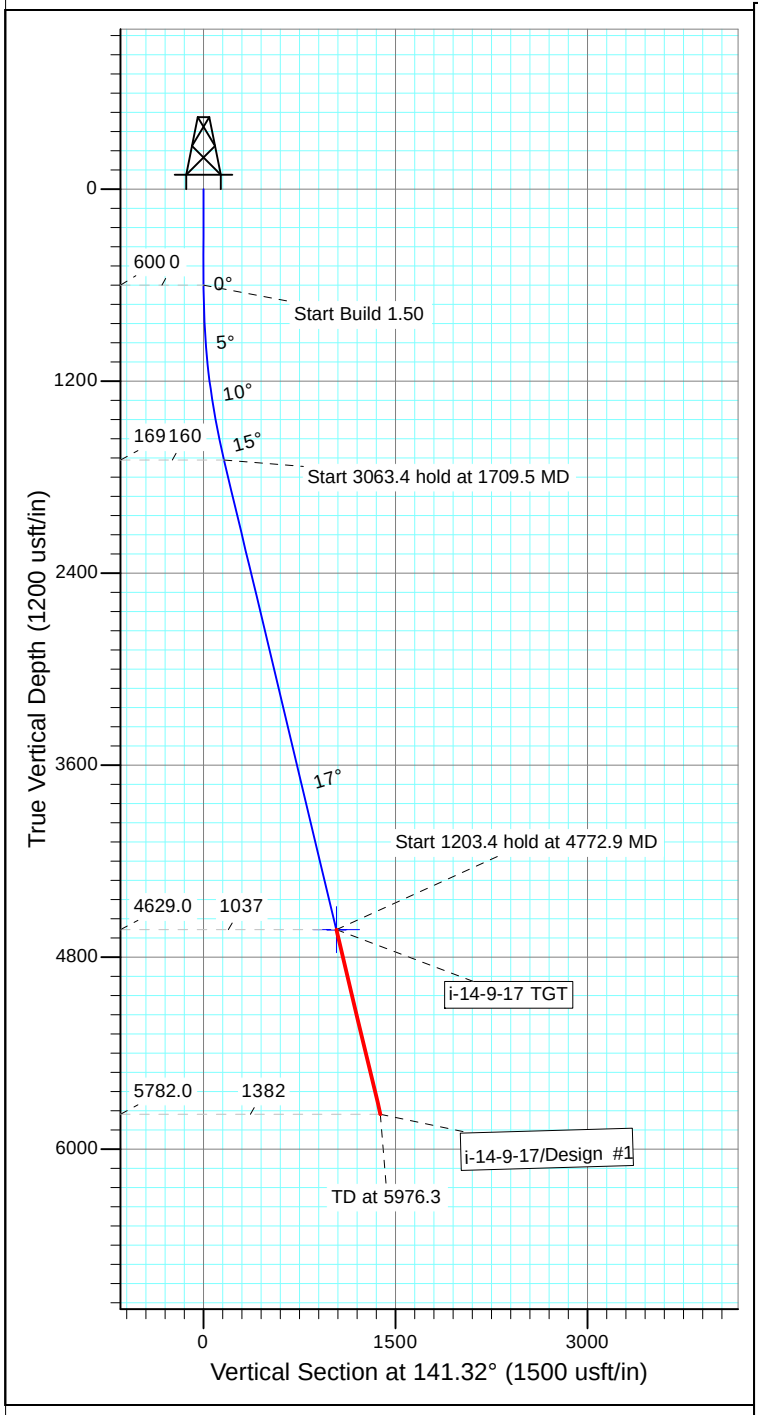
PAYZONE DIRECTIONAL

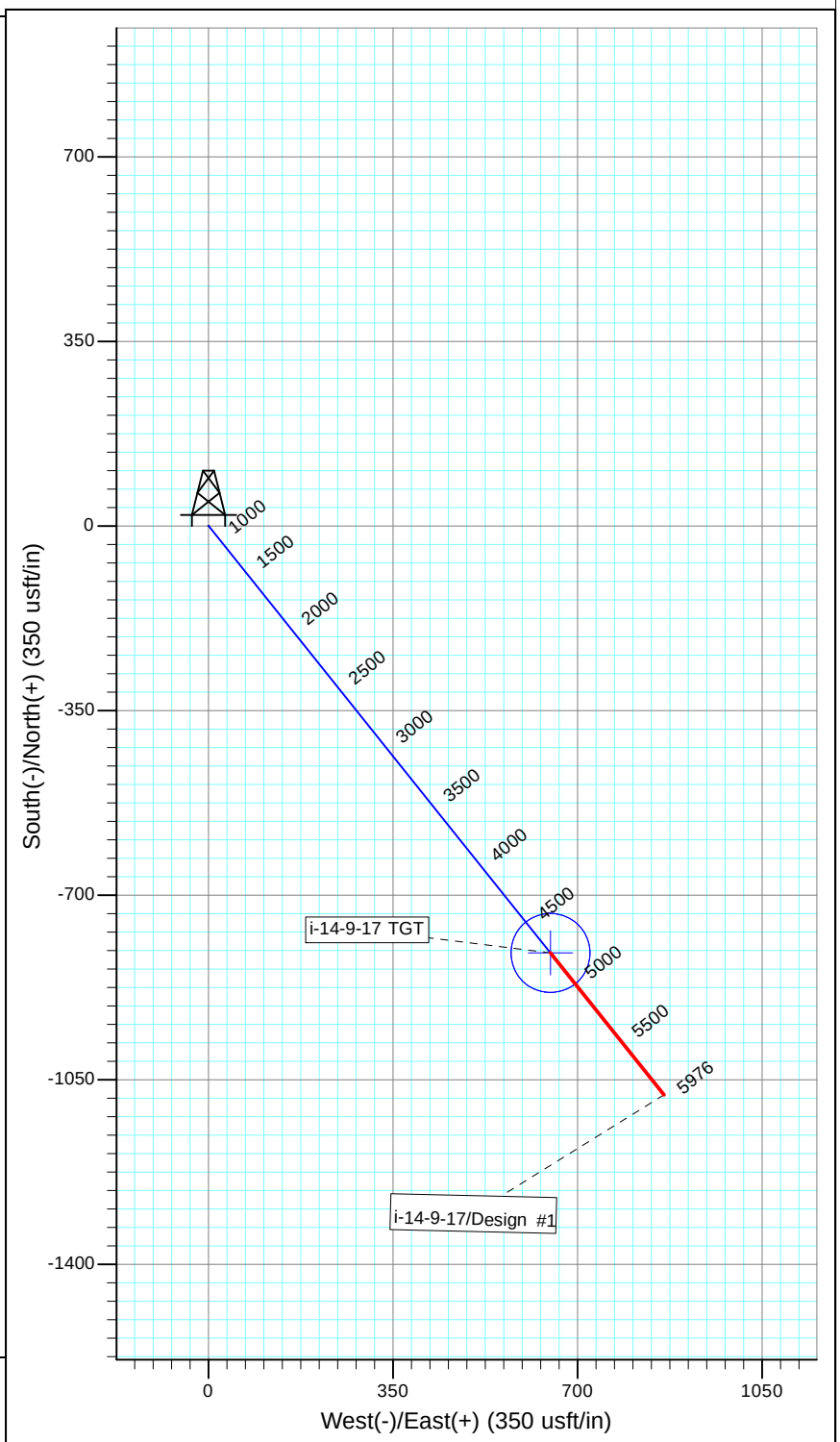
API Well Number: 43013531860000

Project: USGS Myton SW (UT)
Site: SECTION 14 T9, R17
Well: i-14-9-17
Wellbore: Wellbore #1
Design: Design #1

Azimuths to True North
Magnetic North: 10.86°

Magnetic Field
Strength: 51963.7snT
Dip Angle: 65.72°
Date: 9/3/2014
Model: IGRF2010





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
i-14-9-17 TGT	4629.0	-809.8	648.3	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DIeg	TFace	VSect	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	1709.5	16.64	141.32	1694.0	-124.9	100.0	1.50	141.32	160.0	
4	4772.9	16.64	141.32	4629.0	-809.8	648.3	0.00	0.00	1037.3	i-14-9-17 TGT
5	5976.3	16.64	141.32	5782.0	-1078.9	863.7	0.00	0.00	1382.0	

API Well Number: 43013531860000

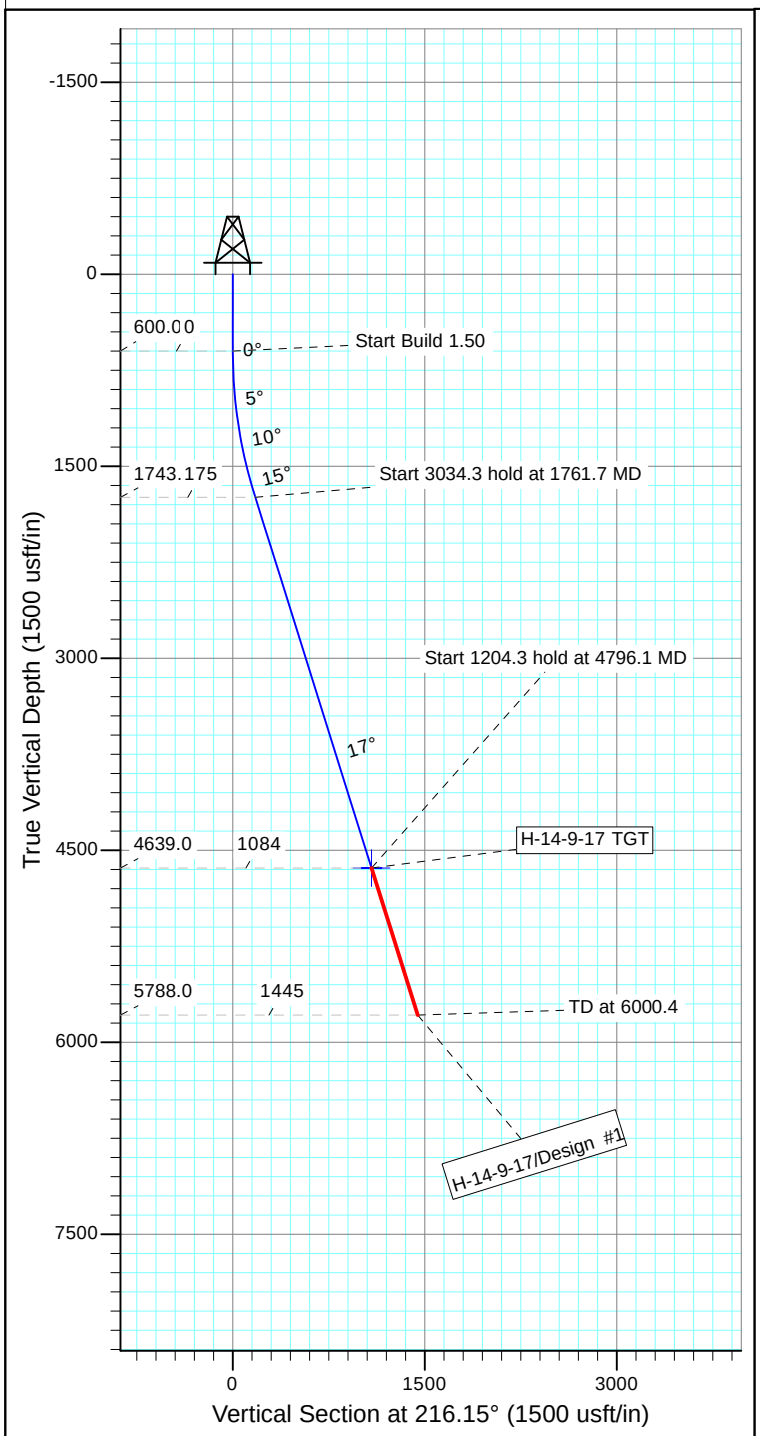
NEWFIELD

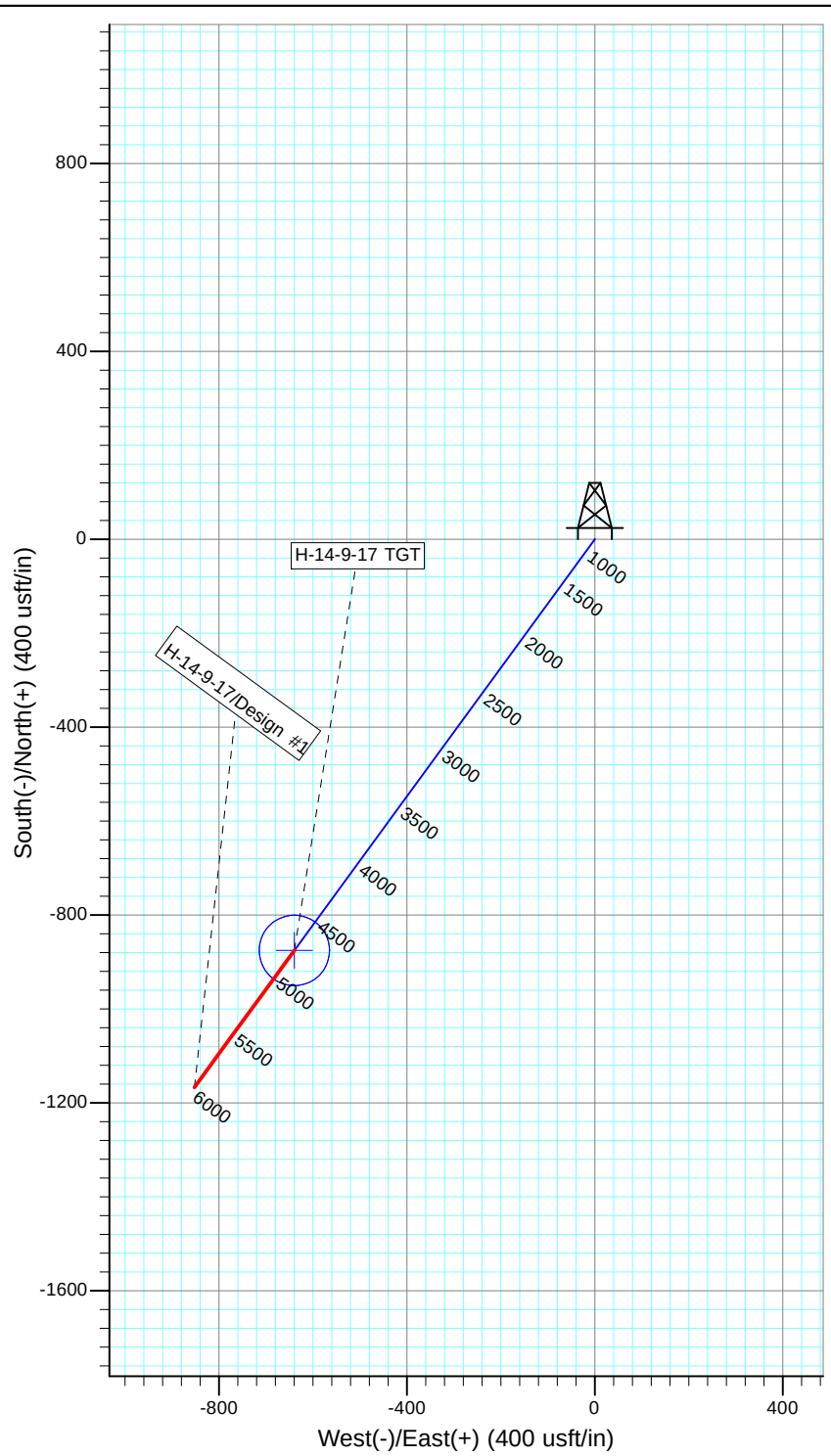
Project: USGS Myton SW (UT)
Site: SECTION 14 T9, R17
Well: H-14-9-17
Wellbore: Wellbore #1
Design: Design #1

T M

Azimuths to True North
Magnetic North: 10.91°

Magnetic Field
Strength: 52003.0snT
Dip Angle: 65.74°
Date: 4/11/2014
Model: IGRF2010





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
H-14-9-17 TGT	4639.0	-875.3	-639.5	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	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	1761.7	17.43	216.15	1743.9	-141.6	-103.4	1.50	216.15	175.3	
4	4796.1	17.43	216.15	4639.0	-875.3	-639.5	0.00	0.00	1084.0	H-14-9-17 TGT
5	6000.4	17.43	216.15	5788.0	-1166.5	-852.2	0.00	0.00	1444.7	

PATZONE

API Well Number: 43013531860000

NEWFIELD

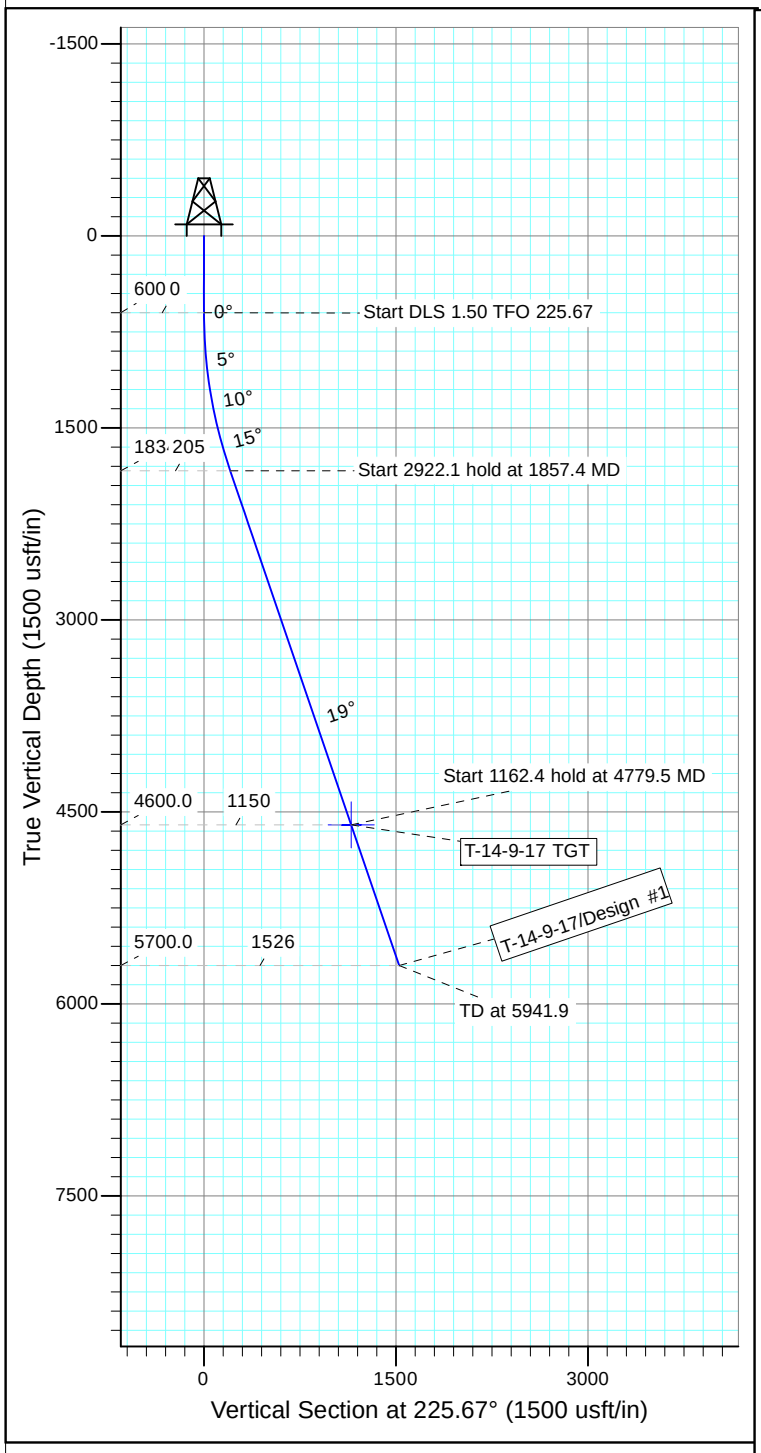
Project: USGS Myton SW (UT)
Site: Section 13 T 9S R17E
Well: T-14-9-17
Wellbore: Wellbore #1
Design: Design #1

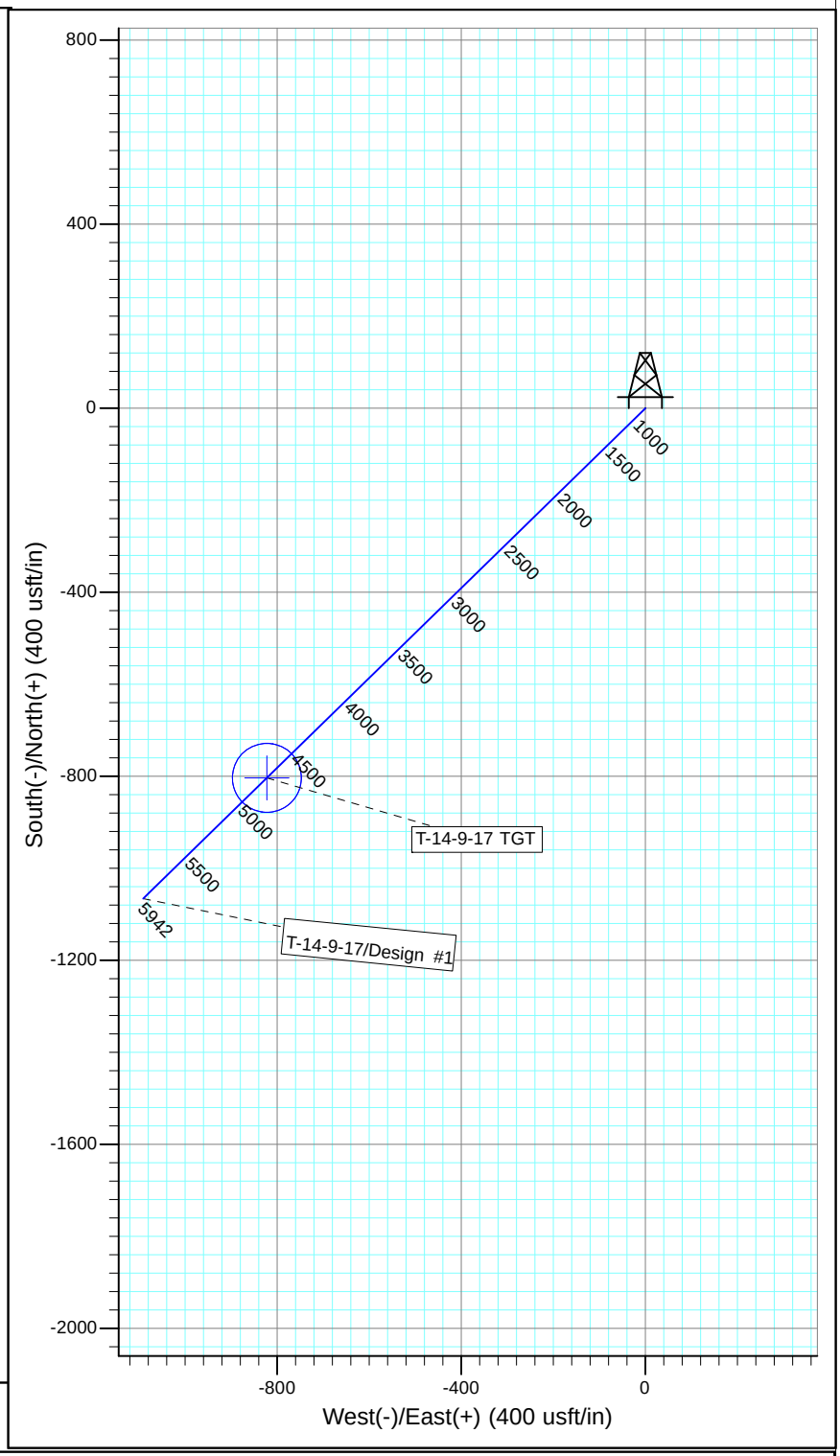
T M

Azimuths to True North
Magnetic North: 10.95°

Magnetic Field
Strength: 52035.3snT
Dip Angle: 65.74°
Date: 12/2/2013
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-14-9-17 TGT	4600.0	-803.4	-822.4	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	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	1857.4	18.86	225.67	1834.8	-143.3	-146.7	1.50	225.67	205.1	
4	4779.5	18.86	225.67	4600.0	-803.4	-822.4	0.00	0.00	1149.7	T-14-9-17 TGT
5	5941.9	18.86	225.67	5700.0	-1066.0	-1091.2	0.00	0.00	1525.5	

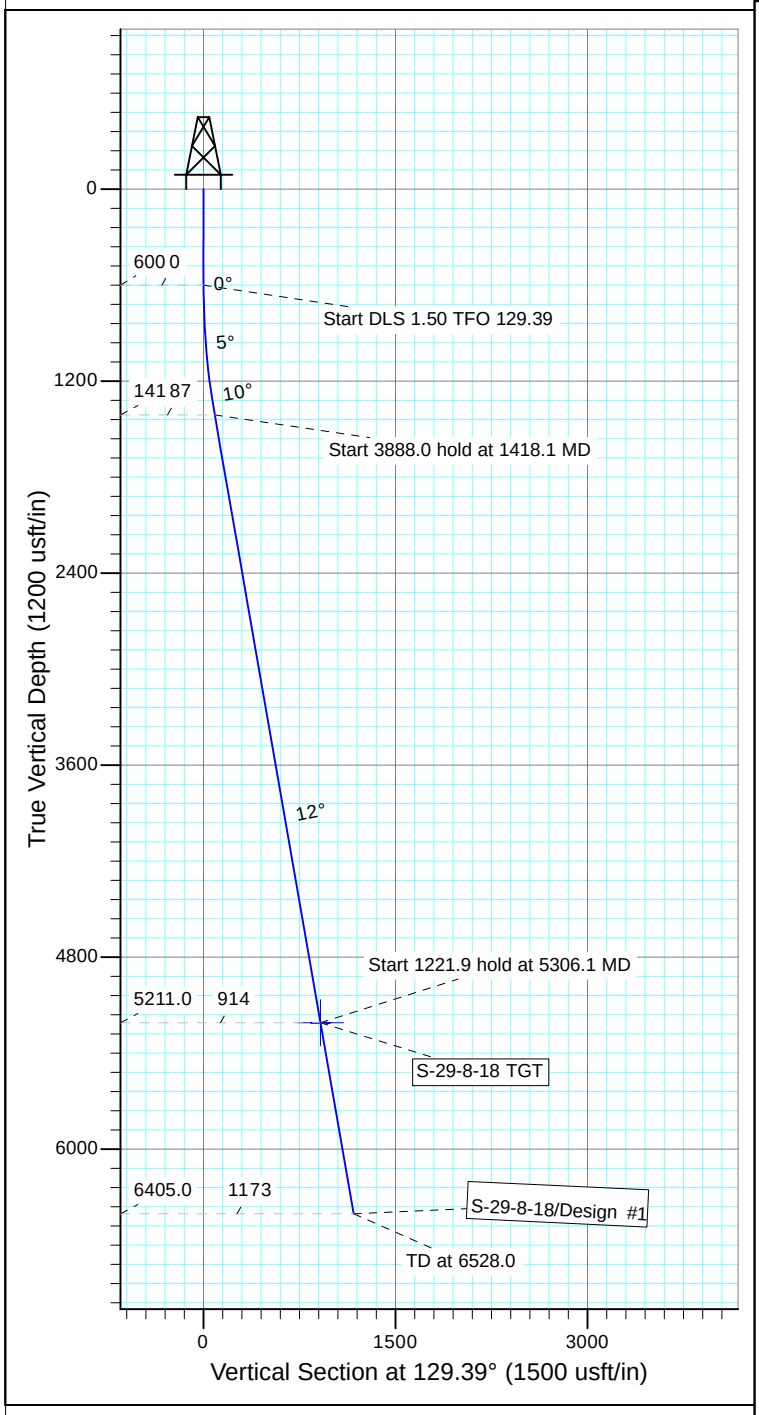
PAYZONE DIRECTIONAL

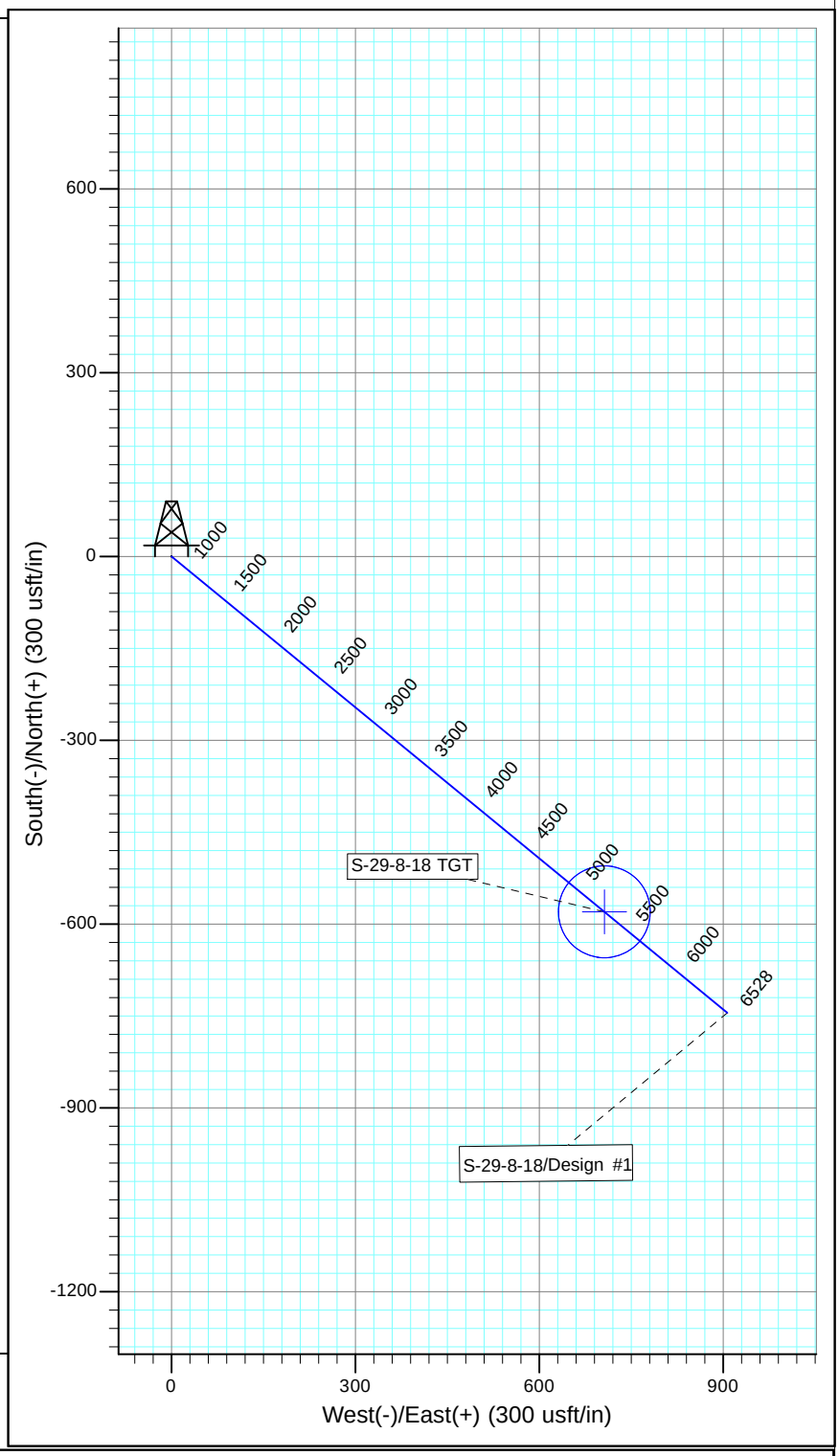
API Well Number: 43013531860000

Project: USGS Myton SW (UT)
Site: SECTION 29 T8S, R18E
Well: S-29-8-18
Wellbore: Wellbore #1
Design: Design #1

Azimuths to True North
Magnetic North: 10.85°

Magnetic Field
Strength: 52000.2snT
Dip Angle: 65.78°
Date: 9/3/2014
Model: IGRF2010





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
S-29-8-18 TGT	5211.0	-579.8	706.1	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	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	1418.1	12.27	129.39	1411.8	-55.4	67.4	1.50	129.39	87.3	
4	5306.1	12.27	129.39	5211.0	-579.8	706.1	0.00	0.00	913.6	S-29-8-18 TGT
5	6528.0	12.27	129.39	6405.0	-744.6	906.8	0.00	0.00	1173.3	

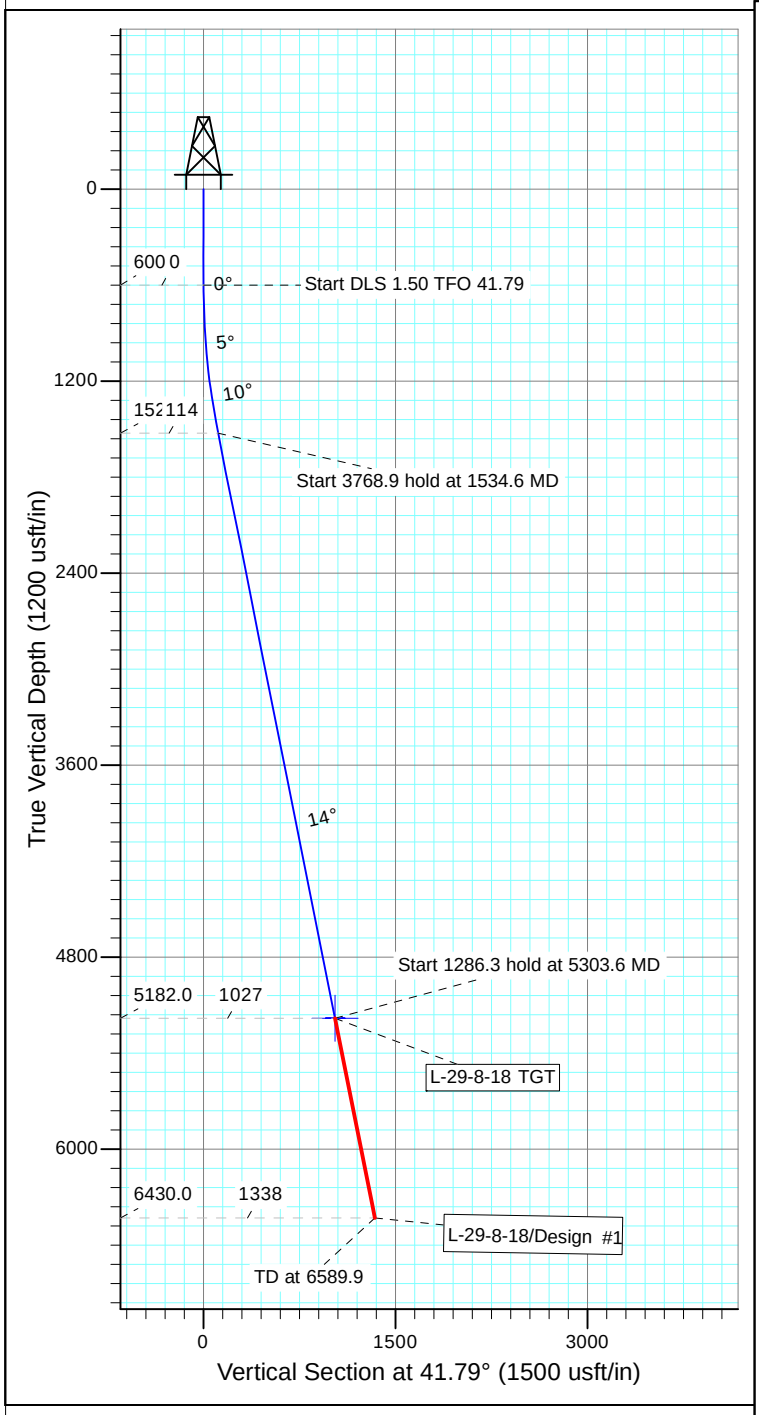
API Well Number: 43013531860000

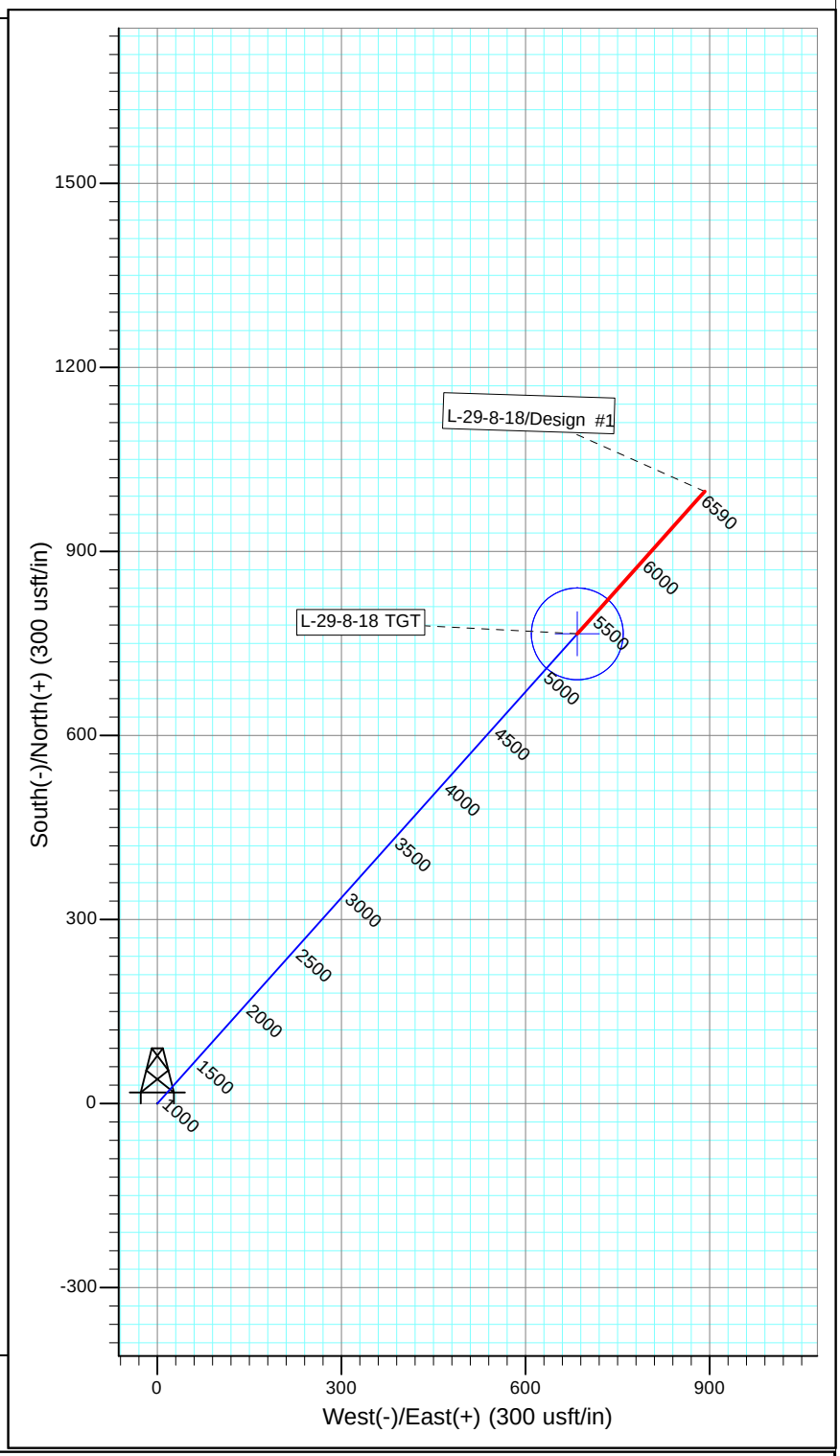
NEWFIELD

Project: USGS Myton SW (UT)
Site: SECTION 29 T8S, R18E
Well: L-29-8-18
Wellbore: Wellbore #1
Design: Design #1

T M Azimuths to True North
Magnetic North: 10.85°

Magnetic Field
Strength: 52000.2snT
Dip Angle: 65.78°
Date: 9/3/2014
Model: IGRF2010





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
L-29-8-18 TGT	5182.0	765.6	684.2	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	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	1534.6	14.02	41.79	1525.3	84.8	75.8	1.50	41.79	113.8	
4	5303.6	14.02	41.79	5182.0	765.6	684.2	0.00	0.00	1026.8	L-29-8-18 TGT
5	6589.9	14.02	41.79	6430.0	997.9	891.9	0.00	0.00	1338.4	

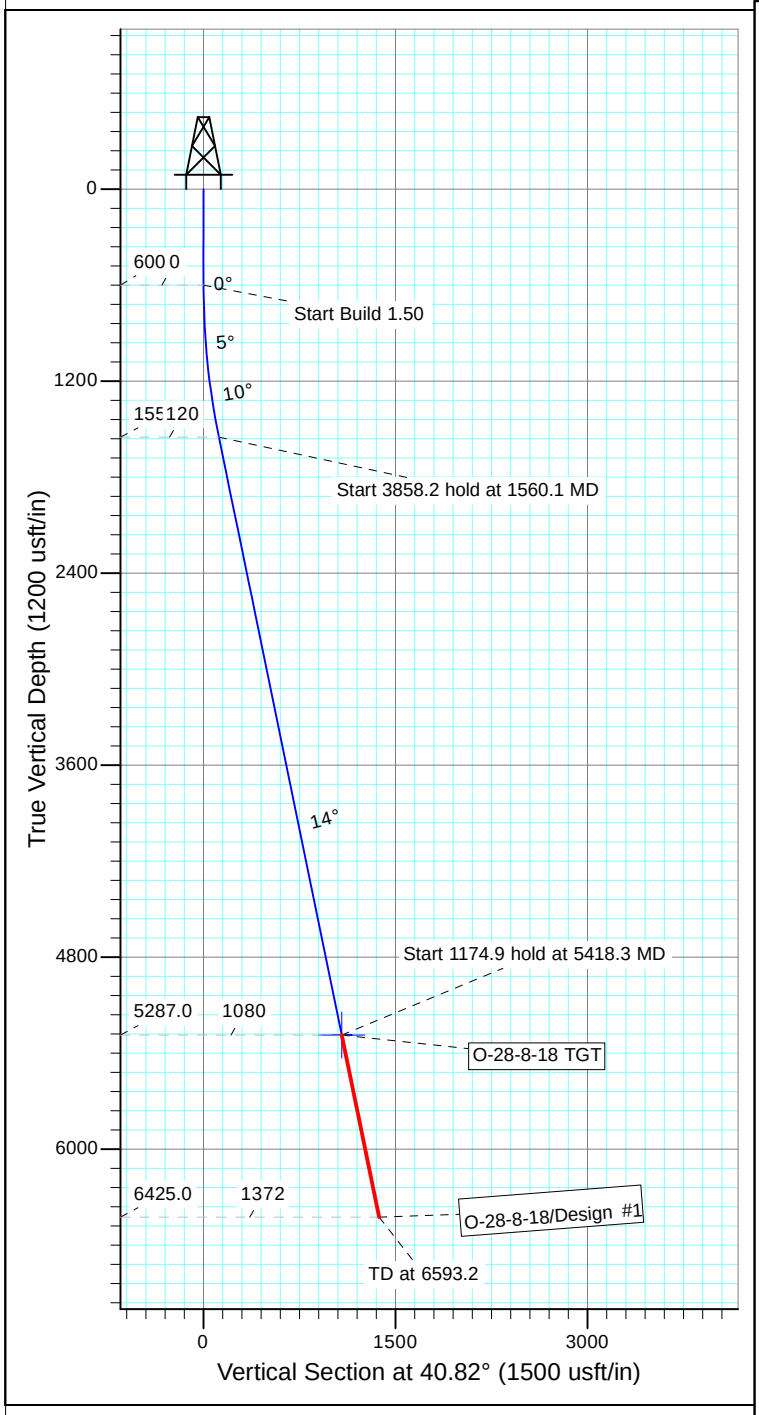
PAYZONE DIRECTIONAL

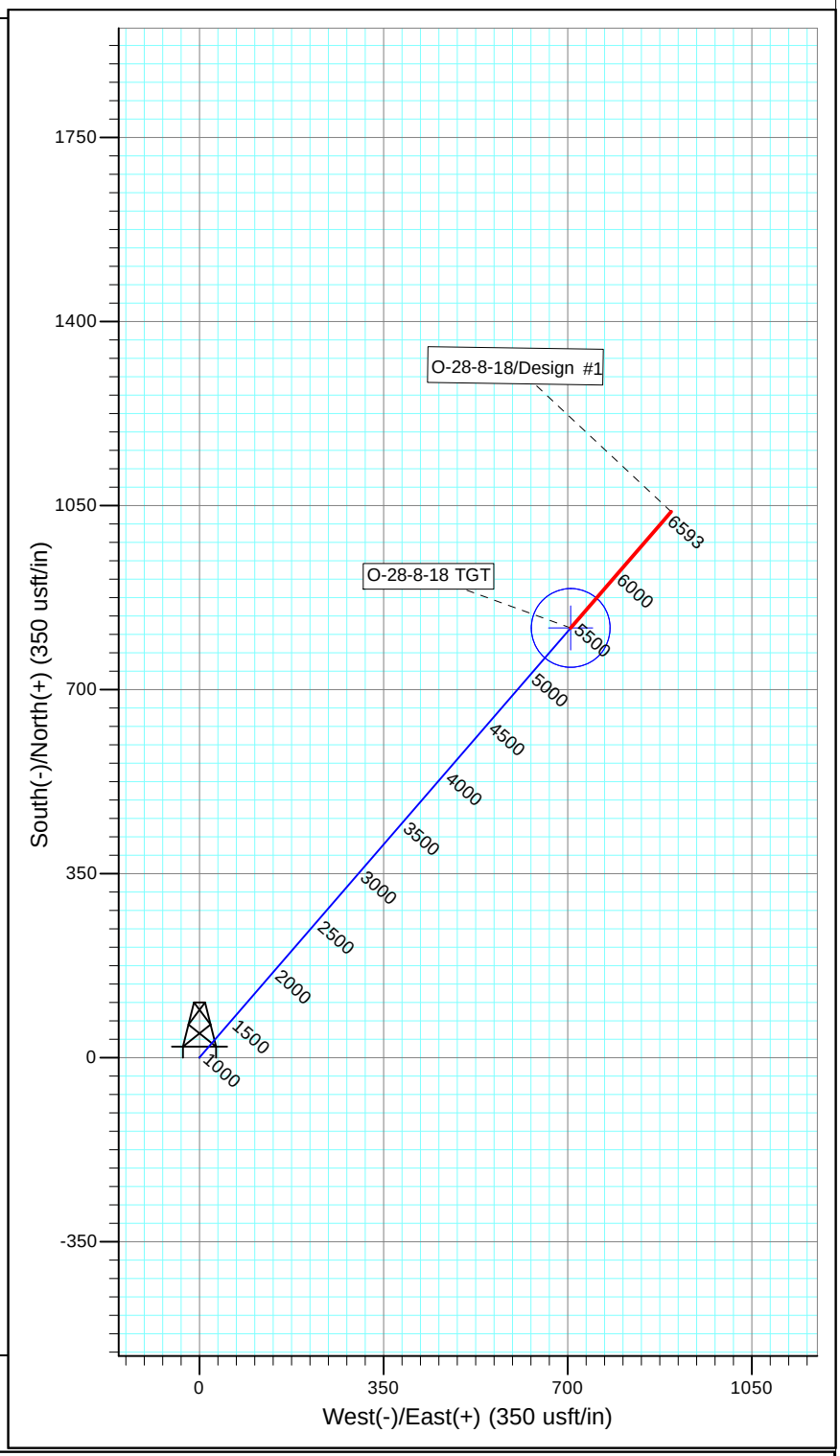
API Well Number: 43013531860000

Project: USGS Myton SW (UT)
Site: SECTION 29 T8S, R18E
Well: O-28-8-18
Wellbore: Wellbore #1
Design: Design #1

Azimuths to True North
Magnetic North: 10.85°

Magnetic Field
Strength: 52001.0snT
Dip Angle: 65.78°
Date: 9/3/2014
Model: IGRF2010





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
O-28-8-18 TGT	5287.0	817.0	705.7	Circle (Radius: 75.0)

SECTION DETAILS

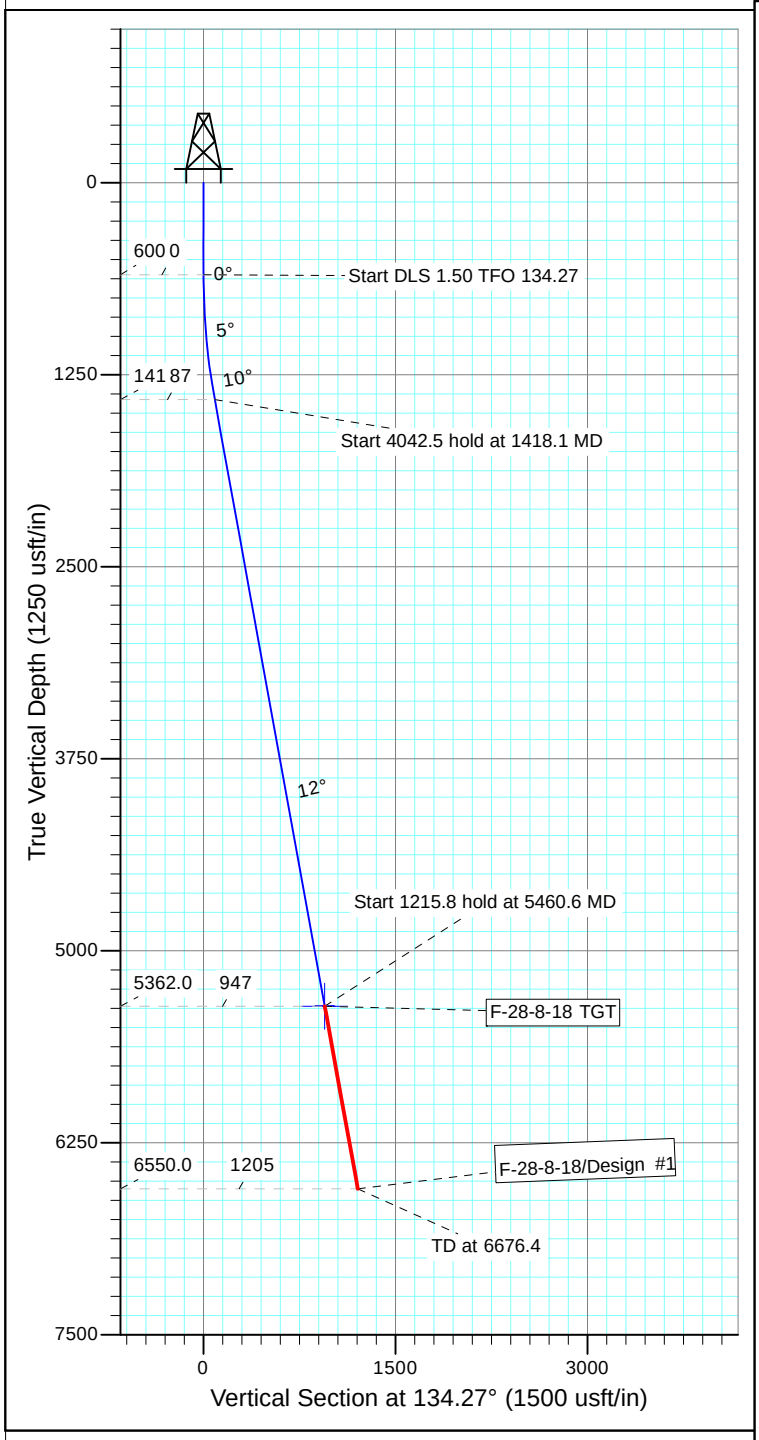
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1560.1	14.40	40.82	1550.0	90.8	78.5	1.50	40.82	120.0	
4	5418.3	14.40	40.82	5287.0	817.0	705.7	0.00	0.00	1079.6	O-28-8-18 TGT
5	6593.2	14.40	40.82	6425.0	1038.2	896.7	0.00	0.00	1371.9	

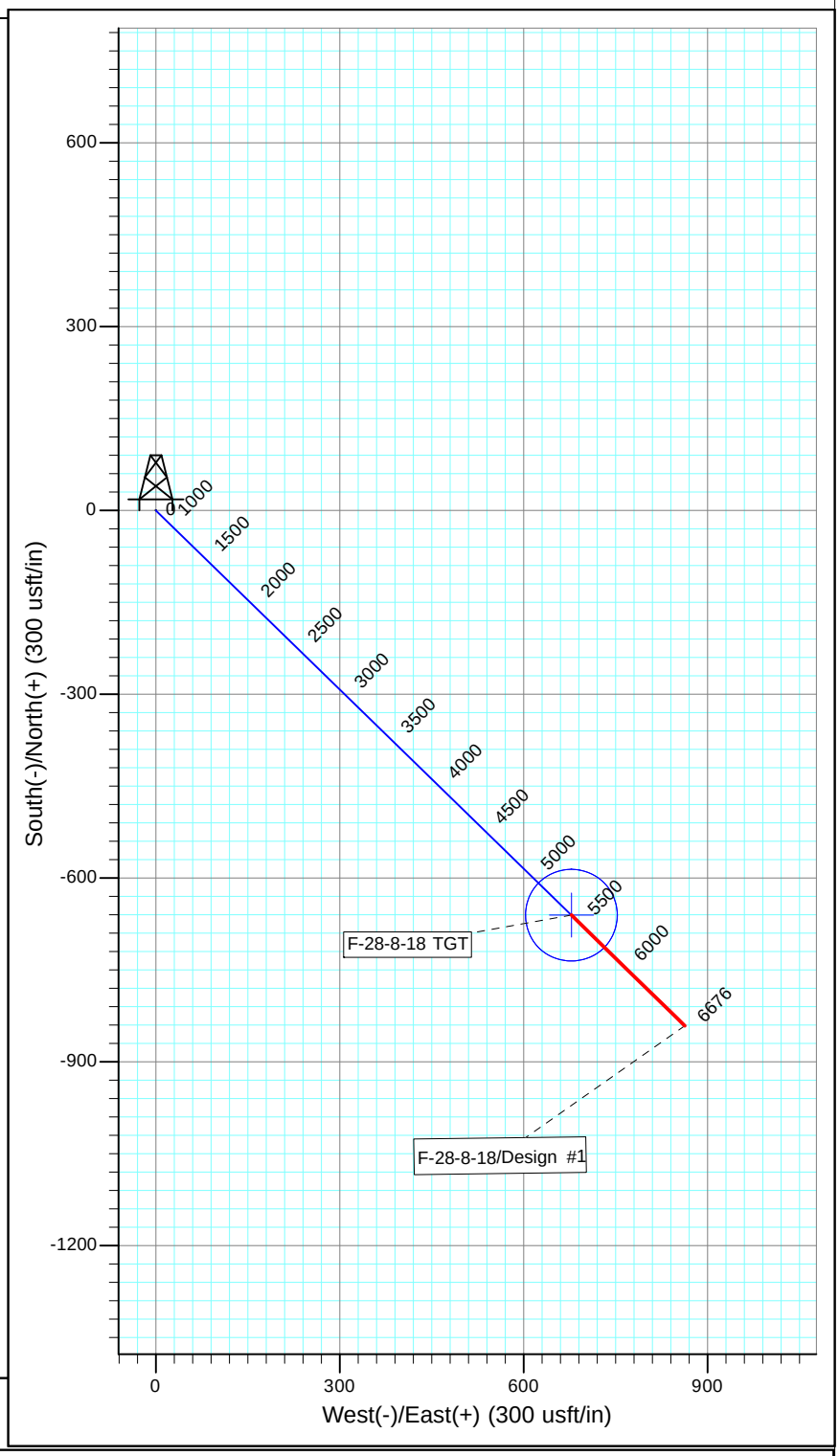
API Well Number: 43013531860000

Project: USGS Myton SW (UT)
Site: SECTION 29 T8S, R18E
Well: F-28-8-18
Wellbore: Wellbore #1
Design: Design #1

Azimuths to True North
Magnetic North: 10.84°

Magnetic Field
Strength: 51998.6snT
Dip Angle: 65.78°
Date: 9/25/2014
Model: IGRF2010





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
F-28-8-18 TGT	5362.0	-660.7	677.8	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	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	1418.1	12.27	134.27	1411.9	-60.9	62.5	1.50	134.27	87.3	
4	5460.6	12.27	134.27	5362.0	-660.7	677.8	0.00	0.00	946.5	F-28-8-18 TGT
5	6676.4	12.27	134.27	6550.0	-841.1	862.8	0.00	0.00	1205.0	

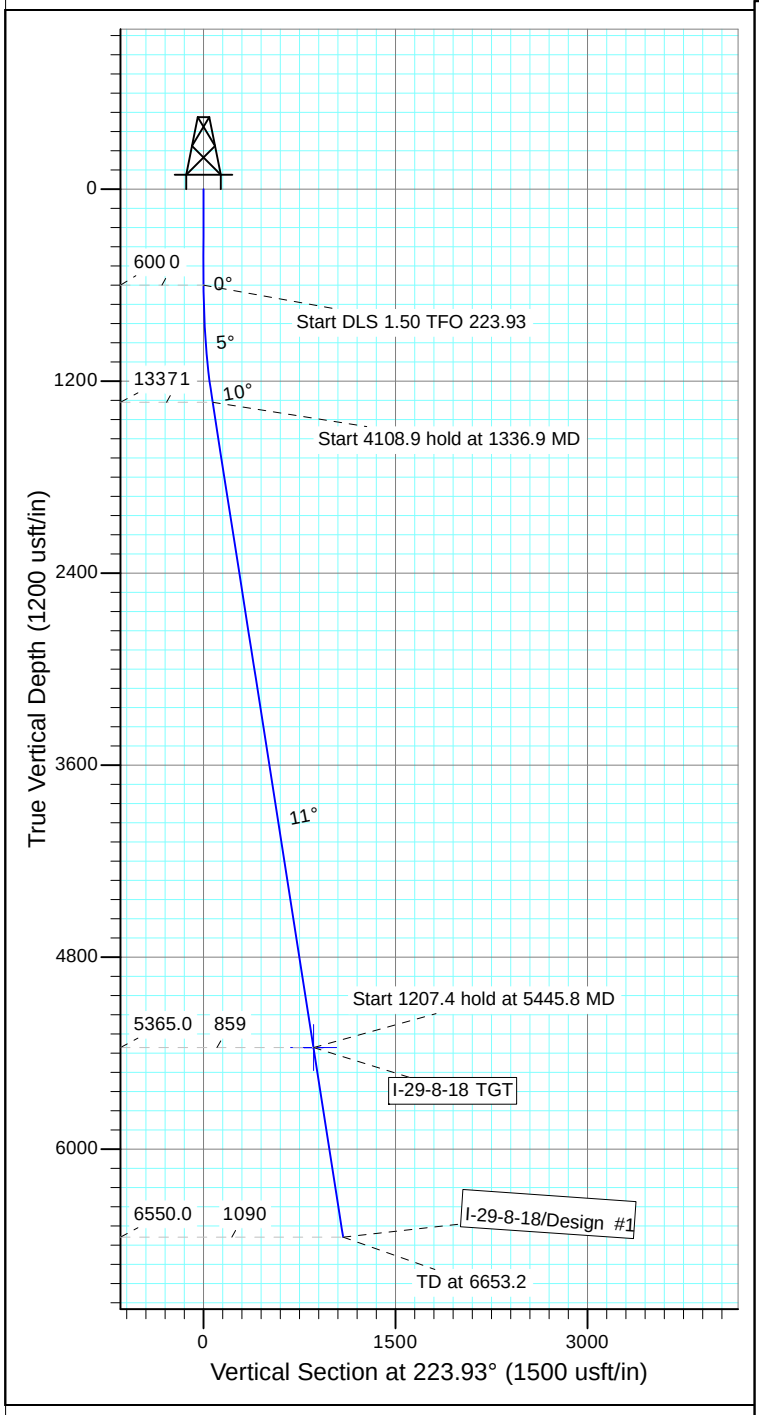
API Well Number: 43013531860000

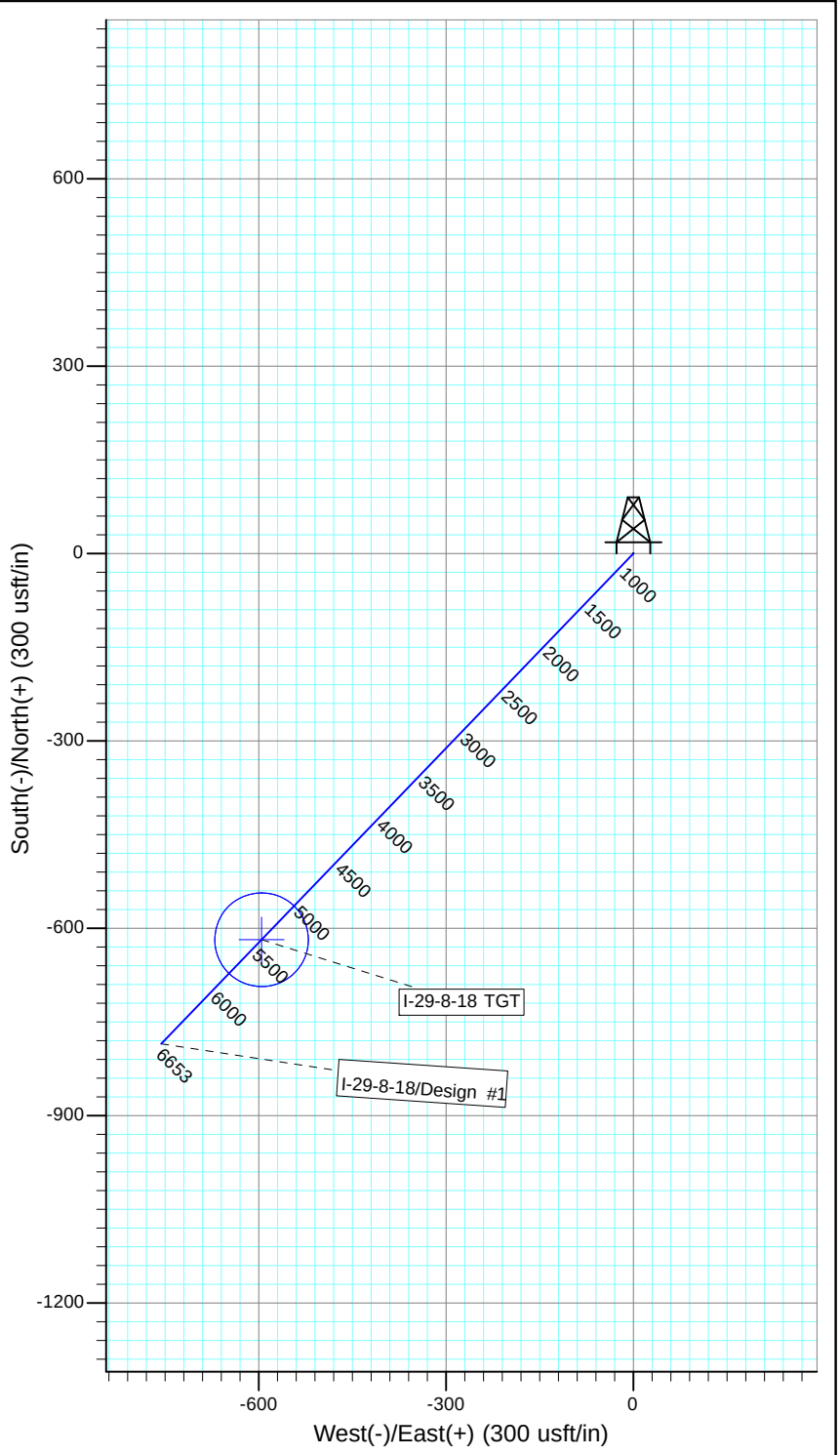
NEWFIELD

Project: USGS Myton SW (UT)
Site: SECTION 29 T8S, R18E
Well: I-29-8-18
Wellbore: Wellbore #1
Design: Design #1

T M
Azimuths to True North
Magnetic North: 10.85°

Magnetic Field
Strength: 52004.6snT
Dip Angle: 65.78°
Date: 9/3/2014
Model: IGRF2010





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
I-29-8-18 TGT	5365.0	-618.4	-595.7	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	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	1336.9	11.05	223.93	1332.4	-51.0	-49.2	1.50	223.93	70.9	
4	5445.8	11.05	223.93	5365.0	-618.4	-595.7	0.00	0.00	858.7	I-29-8-18 TGT
5	6653.2	11.05	223.93	6550.0	-785.1	-756.3	0.00	0.00	1090.2	

PAYZONE DIRECTIONAL

ON-SITE PREDRILL EVALUATION
Utah Division of Oil, Gas and Mining

Operator NEWFIELD PRODUCTION COMPANY
Well Name GMBU G-20-8-17
API Number 43013531860000 **APD No** 10470 **Field/Unit** MONUMENT BUTTE
Location: 1/4,1/4 SWNW **Sec** 20 **Tw** 8.0S **Rng** 17.0E 2324 FNL 1036 FWL
GPS Coord (UTM) 582149 4439781 **Surface Owner** Cedar View SL LLC

Participants

Mandie Crozier, Joe Pippy, Ryan Goodliffe (Newfield), Sheri Wysong (BLM)

Regional/Local Setting & Topography

This site is in Pleasant Valley and approximately 6 miles south of Myton, Utah. The site sits in the corner of a large farm field out of the reach of the irrigation sprinklers. The area slopes west toward the crop field. There is a good deal of existing oilfield development existing in this area along with farming and ranching.

Surface Use Plan

Current Surface Use
Grazing

New Road Miles	Well Pad	Src Const Material	Surface Formation
0.06	**Width** 155 **Length** 370	Offsite	OURAY

Ancillary Facilities N

Waste Management Plan Adequate? Y

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna
Pasture grass

Soil Type and Characteristics
Deep sandy loam

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diverson Required? N

Berm Required? Y

Erosion Sedimentation Control Required? N

RECEIVED: December 03, 2014

Paleo Survey Run? Y **Paleo Potental Observed?** N **Cultural Survey Run?** Y **Cultural Resources?** N

Reserve Pit

Site-Specific Factors		Site Ranking	
Distance to Groundwater (feet)	100 to 200	5	
Distance to Surface Water (feet)	>1000	0	
Dist. Nearest Municipal Well (ft)	>5280	0	
Distance to Other Wells (feet)		20	
Native Soil Type	High permeability	20	
Fluid Type	TDS>10000	15	
Drill Cuttings	Normal Rock	0	
Annual Precipitation (inches)		0	
Affected Populations			
Presence Nearby Utility Conduits	Not Present	0	
	Final Score	60	1 Sensitivity Level

Characteristics / Requirements

The reserve pit is proposed in a cut stable location. Dimensions are 70ft x 40ft x 8ft. Newfield representative Joe Pippy stated that a 16 mil reserve pit liner and felt subliner are standard equipment on all Newfield reserve pits. This liner program appears adequate for this location.

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

Other Observations / Comments

Richard Powell	11/25/2014
Evaluator	**Date / Time**

RECEIVED: December 03, 2014

Application for Permit to Drill
Statement of Basis
Utah Division of Oil, Gas and Mining

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
10470	43013531860000	LOCKED	OW	P	No

Operator	NEWFIELD PRODUCTION COMPANY	**Surface Owner-APD**	Cedar View SL LLC
Well Name	GMBU G-20-8-17	**Unit**	GMBU (GRRV)
Field	MONUMENT BUTTE	**Type of Work**	DRILL
Location	SWNW 20 8S 17E S 2324 FNL 1036 FWL GPS Coord (UTM) 582156E 4439775N		

Geologic Statement of Basis

The mineral rights for the proposed well are owned by the Federal Government. The BLM will be the agency responsible for evaluating and approving the drilling, casing and cement programs.

Brad Hill — **APD Evaluator**

12/2/2014 — **Date / Time**

Surface Statement of Basis

This proposed three oil well pad is on fee surface with federal minerals. I was unable to contact surface owner Glen Holmes but his neighbor and cousin Wade Price was in attendance and stated that he often helped with his cousin's farm and could represent Mr. Holmes during this presite inspection. Mr. Price then stated that the placement of this well site was acceptable because it was placed in a corner of the land away from cultivated and irrigated property. This site is in the Pleasant Valley area which is used heavily for ranching and farming and where there is already a great deal of oilfield development. This site slopes toward the farm field to the west and should be bermed to keep spilled or leaked fluids from leaving the pad. A reserve pit is proposed and according to Newfield representative Joe Pippy a 16 mil liner and felt subliner will be used. Soils here appear to be quite deep and permeable. BLM representative Sheri Wysong was also in attendance and expressed no concerns with drilling at this site.

Richard Powell — **Onsite Evaluator**

11/25/2014 — **Date / Time**

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The well site shall be bermed to prevent fluids from entering or leaving the pad.
Surface	Measures (BMP's) shall be taken to protect steep slopes and topsoil pile from erosion, sedimentation and stability issues.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

RECEIVED: December 03, 2014

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 10/17/2014 **API NO. ASSIGNED:** 43013531860000
WELL NAME: GMBU G-20-8-17
OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695) **PHONE NUMBER:** 435 646-4825
CONTACT: Mandie Crozier

PROPOSED LOCATION: SWNW 20 080S 170E **Permit Tech Review:** ☑

SURFACE: 2324 FNL 1036 FWL **Engineering Review:** ☐

BOTTOM: 1058 FNL 1403 FWL **Geology Review:** ☑

COUNTY: DUCHESNE
LATITUDE: 40.10427 **LONGITUDE:** -110.03607
UTM SURF EASTINGS: 582156.00 **NORTHINGS:** 4439775.00
FIELD NAME: MONUMENT BUTTE
LEASE TYPE: 1 - Federal
LEASE NUMBER: UTU-76954 **PROPOSED PRODUCING FORMATION(S):** GREEN RIVER
SURFACE OWNER: 4 - Fee **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: 213-11
Effective Date: 11/30/2009
Siting: Suspends Gen Siting

- ☑ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations:
4 - Federal Approval - lcordova
5 - Statement of Basis - bhill
15 - Directional - lcordova
27 - Other - bhill

RECEIVED: December 03, 2014

GARY R. HERBERT
Governor
SPENCER J. COX
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 G-20-8-17
API Well Number: 43013531860000
Lease Number: UTU-76954
Surface Owner: FEE (PRIVATE)
Approval Date: 12/3/2014

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 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.

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

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

Notification Requirements:
The operator is required to notify the Division of Oil, Gas and Mining of the

following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284
  (please leave a voicemail message if not available)
  OR
  submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
  at http://oilgas.ogm.utah.gov

Reporting Requirements:

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

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

Approved By:

For John Rogers
Associate Director, Oil & Gas

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OCT 24 2014

BLM Vernal UT

Form 3160-3
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
UTU76954

6. If Indian, Allottee or Tribe Name

1a. Type of Work: ☒ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.
UTU87538X

8. Lease Name and Well No.
GMBU G-20-8-17

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

2. Name of Operator
NEWFIELD EXPLORATION
Contact: MANDIE CROZIER
E-Mail: mcrozier@newfield.com

9. API Well No.
43013531860

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

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

10. Field and Pool, or Exploratory
MONUMENT BUTTE

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

At surface SWNW 2324FNL 1036FWL

At proposed prod. zone NENW 1058FNL 1403FWL

11. Sec., T., R., M., or Blk. and Survey or Area
Sec 20 T8S R17E Mer SLB

14. Distance in miles and direction from nearest town or post office*
9.3 MILES SOUTHEAST OF MYTON

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)
APPROXIMATELY 1058'

16. No. of Acres in Lease
1561.00

17. Spacing Unit dedicated to this well
40.00

18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.
APPROXIMATELY 660'

19. Proposed Depth
6989 MD
6845 TVD

20. BLM/BIA Bond No. on file
WYB000493

21. Elevations (Show whether DF, KB, RT, GL, etc.
5292 GL

22. Approximate date work will start
01/01/2015

23. Estimated duration
7 DAYS

RECEIVED
AUG 19 2015
DIV. OF OIL, GAS & MINING

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
10/17/2014

Title
REGULATORY SPECIALIST

Approved by (Signature)

Name (Printed/Typed)
Jerry Kenczka

Date
AUG 12 2015

Title
Assistant Field Manager
Lands & Mineral Resources

Office
VERNAL FIELD OFFICE

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

CONDITIONS OF APPROVAL ATTACHED

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

Additional Operator Remarks (see next page)

Electronic Submission #271670 verified by the BLM Well Information System
For NEWFIELD EXPLORATION, sent to the Vernal
Committed to AFMSS for processing by ROBIN R. HANSEN on 10/27/2014 ()

NOTICE OF APPROVAL

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

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

CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	**Newfield Exploration**	**Location:**	**SWNW, Sec. 20, T8S, R17E**
Well No:	**GMBU G-20-8-17**	**Lease No:**	**UTU-76954**
API No:	**43-013-53186**	**Agreement:**	

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

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

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

NOTIFICATION REQUIREMENTS

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

SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)

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

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

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

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

STIPULATIONS / CONDITIONS OF APPROVAL

Company/Operator:	Newfield Production Company
Well Name & Number:	GMBU 5-20-8-17, G-20-8-17 and J-19-8-17
Host Location:	5-20-8-17

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

1. The best method to avoid entrainment is to pump from an off-channel location – one that does not connect to the river during high spring flows. An infiltration gallery constructed in a service approved location is best.

2. If the pump head is located in the river channel the following stipulations apply:
   a. Do not situate the pump in a low-flow or no-flow area as these habitats tend to concentrate larval fishes.

   b. Limit the amount of pumping, to the greatest extent possible, during that period of the year when larval fish may be present (April 1 to August 1).

   c. Limit the amount of pumping, to the greatest extent possible, during the midnight hours (10pm to 2 am), as larval drift studies indicate that this is a period of greatest daily activity. Dusk is the preferred pumping time, as larval drift abundance is lowest during this time.

3. Screen all pump intakes with 3/32" mesh material.

4. Approach velocities for intake structures should follow the National Marine Fisheries Service's document "fish screening criteria for anadromous salmonids". For projects with an in-stream intake that operate in stream reaches where larval fish may be present, the approach velocity should not exceed 0.33 feet per second (ft/s).

5. Report any fish impinged on the intake screen or entrained into irrigation canals to the service (801.975.3330) or the Utah Division of Wildlife Resources:

Northeastern Region
318 N. Vernal Ave.
Vernal, UT 84078
Phone: (435)781-9453

Air Quality

- All internal combustion equipment will be kept in good working order.
- Water or other approved dust suppressants will be used at construction sites and along roads, as determined appropriate by the Authorized Officer. Dust suppressant such as magnesium chloride or fresh water may be used, as needed, during the drilling phase.
- Open burning of garbage or refuse will not occur at well sites or other facilities.
- Drill rigs will be equipped with Tier II or better diesel engines.
- Low bleed pneumatics will be installed on separator dump valves and other controllers.
- During completion, no venting will occur, and flaring will be limited as much as possible. Production equipment and gathering lines will be installed as soon as possible.
- Telemetry will be installed to remotely monitor and control production.
- When feasible, two or more rigs (including drilling and completion rigs) will not be run simultaneously within 200 meters of each other. If two or more rigs must be run simultaneously within 200 meters of each other, then effective public health buffer zones out to 200 meters (m) from the nearest emission source will be implemented. Examples of an effective public health protection buffer zone include the demarcation of a public access exclusion zone by signage at intervals of every 250 feet that is visible from a distance of 125 feet during daylight hours, and a physical buffer such as active surveillance to ensure the property is not accessible by the public during drilling operations. Alternatively, the proponent may demonstrate compliance with the 1-hour NO_2 National Ambient Air Quality Standards (NAAQS) with appropriate and accepted near-field modeling. As part of this demonstration, the proponent may propose alternative mitigation that could include but is not limited to natural gas–fired drill rigs, installation of NO_X controls, time/use restrictions, and/or drill rig spacing.
- Green completions will be used for all well completion activities where technically feasible.

DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

Operator: Newfield Production Company
Included in APD Down-hole review dated 12/22/2014
Wells:
GMBU J-19-8-17
GMBU G-20-8-17
GMBU 5-20-8-17

Well specific down-hole COA's:

- If applicable, Variances to OO2, Section III.E shall be granted as requested regarding the air drilling program for the surface hole.
- Newfield Production Co. shall comply with all applicable requirements in the SOP (version: "Greater Monument Butte Green River Development Program", August 16, 2013)
- Cement for the production casing shall be brought 200 feet above the surface casing shoe.

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

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

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

- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the <u>top of cement</u> and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well by CD (compact disc). This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

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

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

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

    - Operator name, address, and telephone number.

    - Well name and number.

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

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

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

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

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

    - Communitization agreement number, if applicable.

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

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

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

and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

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

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

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

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

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

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

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

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-76954

SUNDRY NOTICES AND REPORTS ON WELLS

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: GMBU G-20-8-17

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

9. API NUMBER: 43013531860000

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

PHONE NUMBER: 435 646-4825 Ext

9. FIELD and POOL or WILDCAT: MONUMENT BUTTE

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 2324 FNL 1036 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 20 Township: 08.0S Range: 17.0E Meridian: S

COUNTY: DUCHESNE

STATE: UTAH

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

TYPE OF SUBMISSION

- ✓ NOTICE OF INTENT — Approximate date work will start: 12/3/2015
- ☐ SUBSEQUENT REPORT — Date of Work Completion:
- ☐ SPUD REPORT — Date of Spud:
- ☐ DRILLING REPORT — Report Date:

TYPE OF ACTION

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

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

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

November 10, 2015

Approved by the Utah Division of Oil, Gas and Mining

Date:

By:

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

SIGNATURE	DATE
N/A	11/10/2015

RECEIVED: Nov. 10, 2015

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43013531860000

API: 43013531860000
Well Name: GMBU G-20-8-17
Location: 2324 FNL 1036 FWL QTR SWNW SEC 20 TWNP 080S RNG 170E MER S
Company Permit Issued to: NEWFIELD PRODUCTION COMPANY
Date Original Permit Issued: 12/3/2014

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

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

Signature: Mandie Crozier **Date:** 11/10/2015
Title: Regulatory Tech **Representing:** NEWFIELD PRODUCTION COMPANY

RECEIVED: Nov. 10, 2015

FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-76954

SUNDRY NOTICES AND REPORTS ON WELLS

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QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 20 Township: 08.0S Range: 17.0E Meridian: S

COUNTY: DUCHESNE

STATE: UTAH

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

TYPE OF SUBMISSION

- ✓ NOTICE OF INTENT — Approximate date work will start: 12/3/2016
- ☐ SUBSEQUENT REPORT — Date of Work Completion:
- ☐ SPUD REPORT — Date of Spud:
- ☐ DRILLING REPORT — Report Date:

TYPE OF ACTION

☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
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☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	✓ APD EXTENSION
☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

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

November 14, 2016

Approved by the Utah Division of Oil, Gas and Mining

Date:

By:

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

SIGNATURE	DATE
N/A	11/8/2016

RECEIVED: Nov. 08, 2016

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43013531860000

API: 43013531860000
Well Name: GMBU G-20-8-17
Location: 2324 FNL 1036 FWL QTR SWNW SEC 20 TWNP 080S RNG 170E MER S
Company Permit Issued to: NEWFIELD PRODUCTION COMPANY
Date Original Permit Issued: 12/3/2014

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

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- **Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?** ○ **Yes** ◉ **No**
- **Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?** ○ **Yes** ◉ **No**
- **Has the approved source of water for drilling changed?** ○ **Yes** ◉ **No**
- **Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?** ○ **Yes** ◉ **No**
- **Is bonding still in place, which covers this proposed well?** ◉ **Yes** ○ **No**

Signature: Mandie Crozier **Date:** 11/8/2016
Title: Regulatory Tech **Representing:** NEWFIELD PRODUCTION COMPANY

RECEIVED: Nov. 08, 2016