API Well Number: 43013512250000

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 F-36-8-17

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)
ML-44305

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

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

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

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

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

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

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

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

19. SLANT
VERTICAL ○ DIRECTIONAL ◉ HORIZONTAL ○

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	1915 FNL 731 FWL	SWNW	36	8.0 S	17.0 E	S
Top of Uppermost Producing Zone	1526 FNL 275 FWL	SWNW	36	8.0 S	17.0 E	S
At Total Depth	1350 FNL 60 FWL	SWNW	36	8.0 S	17.0 E	S

21. COUNTY
DUCHESNE

22. DISTANCE TO NEAREST LEASE LINE (Feet)
60

23. NUMBER OF ACRES IN DRILLING UNIT
20

25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)
1290

26. PROPOSED DEPTH
MD: 6389 TVD: 6320

27. ELEVATION - GROUND LEVEL
5017

28. BOND NUMBER
B001834

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 - 6389	15.5	J-55 LT&C	8.3	Premium Lite High Strength	303	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** 02/14/2012 **EMAIL** mcrozier@newfield.com

API NUMBER ASSIGNED
43013512250000

APPROVAL
Permit Manager

RECEIVED: June 11, 2012

NEWFIELD PRODUCTION COMPANY
GMBU F-36-8-17
AT SURFACE: SW/NW SECTION 36, T8S, R17E
UINTAH 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' – 1620'
Green River	1620'
Wasatch	6270'
Proposed TD	6389'

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

Green River Formation (Oil) 1620' – 6270'

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)

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4. *PROPOSED CASING PROGRAM*

a. Casing Design: GMBU F-36-8-17

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'	6,389'	15.5	J-55	LTC	4,810 2.37	4,040 1.99	217,000 2.19

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 F-36-8-17

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	4,389'	Prem Lite II w/ 10% gel + 3% KCl	303 989	30%	11.0	3.26
Prod casing Tail	2,000'	50/50 Poz w/ 2% gel + 3% KCl	363 451	30%	14.3	1.24

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

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

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

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

The operator's minimum specifications for pressure control equipment are as follows:

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An 8" Double Ram Hydraulic unit with a closing unit will be utilized. Function test of BOP's will be check daily.

Refer to **Exhibit C** for a diagram of BOP equipment that will be used on this well.

6. **TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

From surface to ±300 feet will be drilled with an air/mist system. The air rig is equipped with a 6 ½" blooie line that is straight run and securely anchored. The blooie line is used with a discharge less than 100 ft from the wellbore in order to minimize the well pad size. The blooie line is not equipped with an automatic igniter or continuous pilot light and the compressor is located less than 100 ft from the well bore due to the low possibility of combustion with the air dust mixture. The trailer mounted compressor (capacity of 2000 CFM) has a safety shut-off valve which is located 15 feet from the air rig. A truck with 70 bbls of water is on stand by to be used as kill fluid, if necessary. From about ±300 feet to TD, a fresh water system will be utilized. Clay inhibition and hole stability will be achieved with a KCl substitute additive. This additive will be identified in the APD and reviewed to determine if the reserve pit shall be lined. This fresh water system will typically contain Total Dissolved Solids (TDS) of less than 3000 PPM. Anticipated mud weight is 8.4 lbs/gal. If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite

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

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

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

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

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

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

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

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

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

No abnormal temperatures or pressures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated bottomhole pressure will approximately equal total depth in feet multiplied by a 0.433 psi/foot gradient.

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

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

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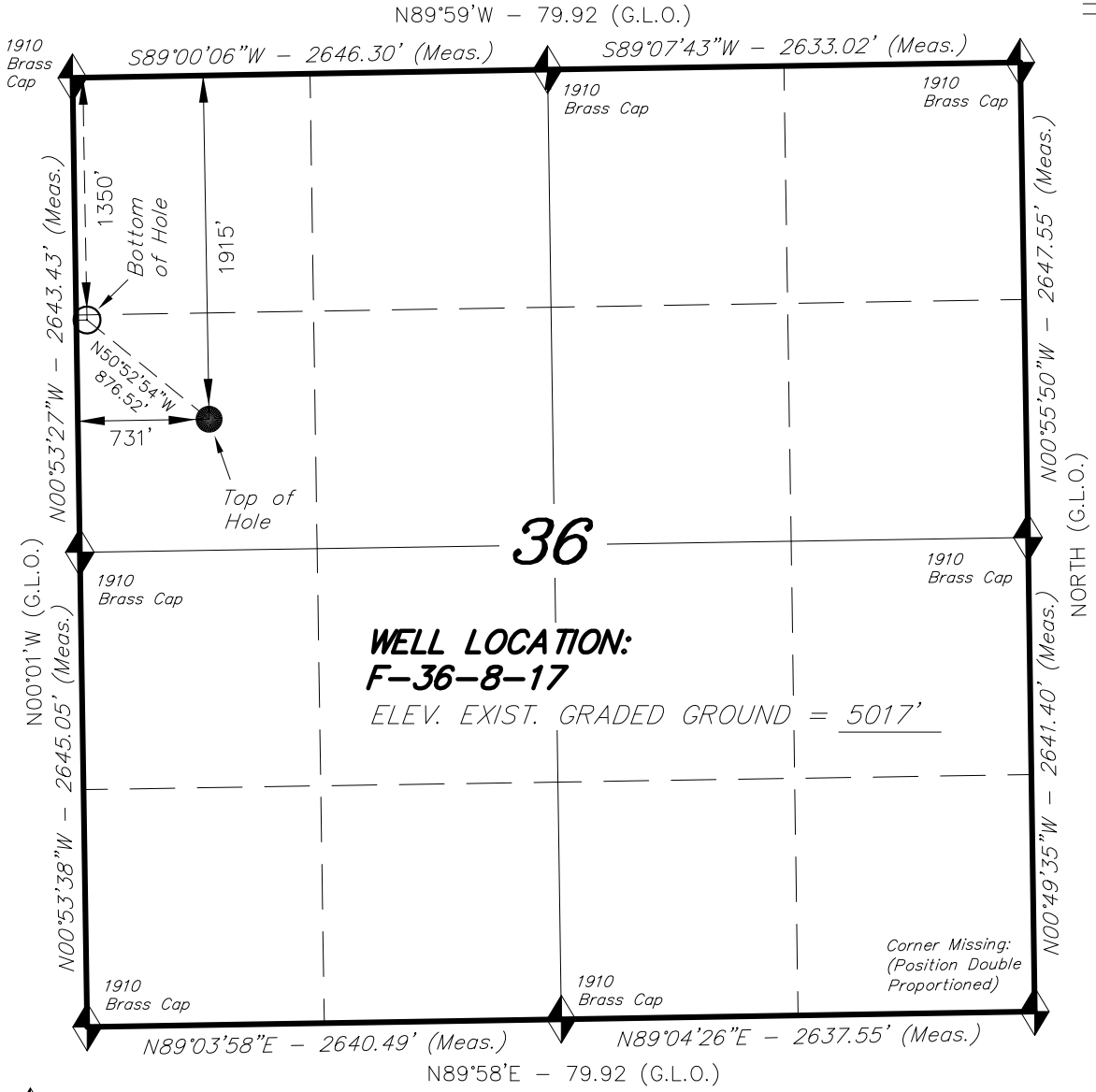
T8S, R17E, S.L.B.&M.



= SECTION CORNERS LOCATED

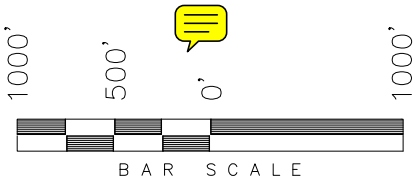
BASIS OF ELEV; Elevations are based on an N.G.S. OPUS Correction. LOCATION: LAT. 40°04'09.56" LONG. 110°00'43.28" (Tristate Aluminum Cap) Elev. 5281.57'

F-36-8-17
(Surface Location) *NAD 83*
LATITUDE = 40° 04' 35.20"
LONGITUDE = 109° 57' 42.26"

NEWFIELD EXPLORATION COMPANY

WELL LOCATION, F-36-8-17, LOCATED AS SHOWN IN THE SW 1/4 NW 1/4 OF SECTION 36, T8S, R17E, S.L.B.&M. UINTAH COUNTY, UTAH.

TARGET BOTTOM HOLE, F-36-8-17, LOCATED AS SHOWN IN THE SW 1/4 NW 1/4 OF SECTION 36, T8S, R17E, S.L.B.&M. UINTAH COUNTY, UTAH.



NOTES:

1. *Well footages are measured at right angles to the Section Lines.*
2. *Bearings are based on Global Positioning Satellite observations.*
3. *The Bottom of Hole footages are 1350' FNL & 60' FWL.*

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

REGISTERED LAND SURVEYOR
REGISTRATION No. 189377
STATE OF UTAH

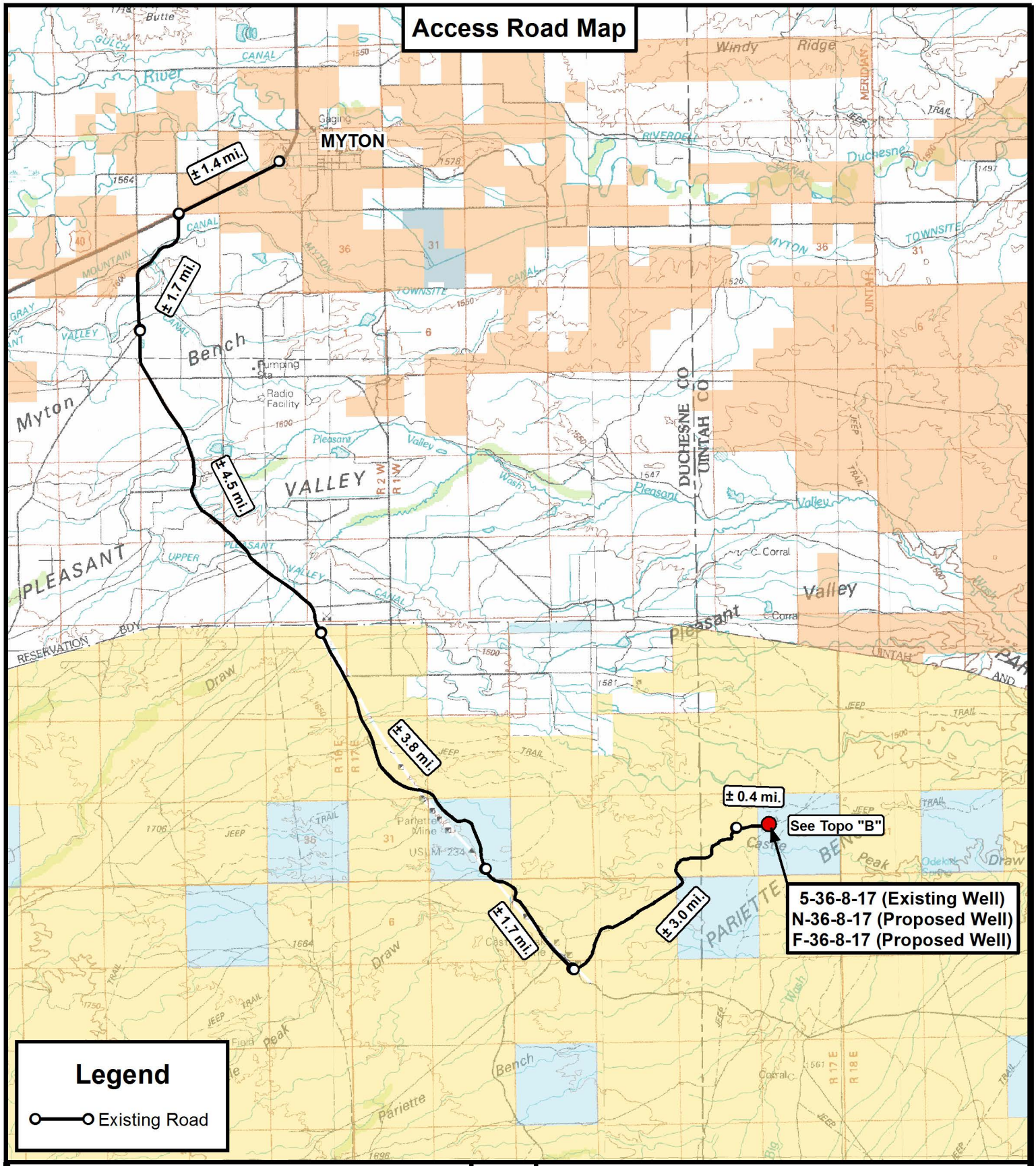
REGISTERED LAND SURVEYOR
No. 189377
11-11-11
STACY W. STEWART
STATE OF UTAH

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

DATE SURVEYED: 01-18-11	SURVEYED BY: T.P.	VERSION:
DATE DRAWN: 01-28-11	DRAWN BY: M.W.	V3
REVISED: 09-22-11 F.T.M.	SCALE: 1" = 1000'	

RECEIVED: February 14, 2012

API Well Number: 43013512250000



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

N

NEWFIELD EXPLORATION COMPANY

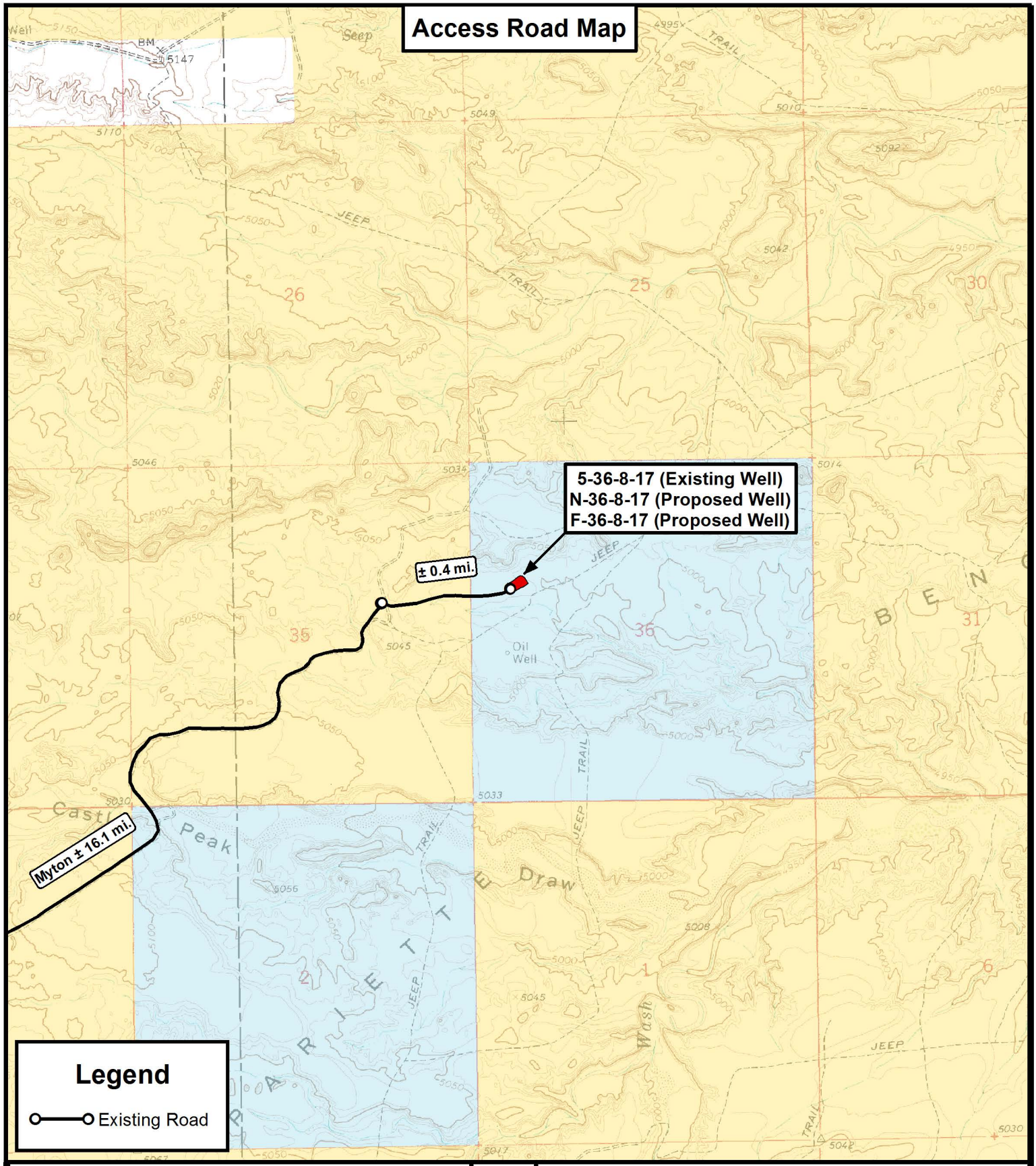
5-36-8-17 (Existing Well)
N-36-8-17 (Proposed Well)
F-36-8-17 (Proposed Well)
SEC. 36, T8S, R17E, S.L.B.&M. Uintah County, UT.

DRAWN BY: C.H.M.	REVISED: 09-22-11 D.C.R.	VERSION:	
DATE: 02-12-2011		V3	
SCALE: 1:100,000			

TOPOGRAPHIC MAP

SHEET A

API Well Number: 43013512250000



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

DRAWN BY: C.H.M.	REVISED: 09-22-11 D.C.R.	VERSION:	
DATE: 02-12-2011		V3	
SCALE: 1 " = 2,000 '			

N

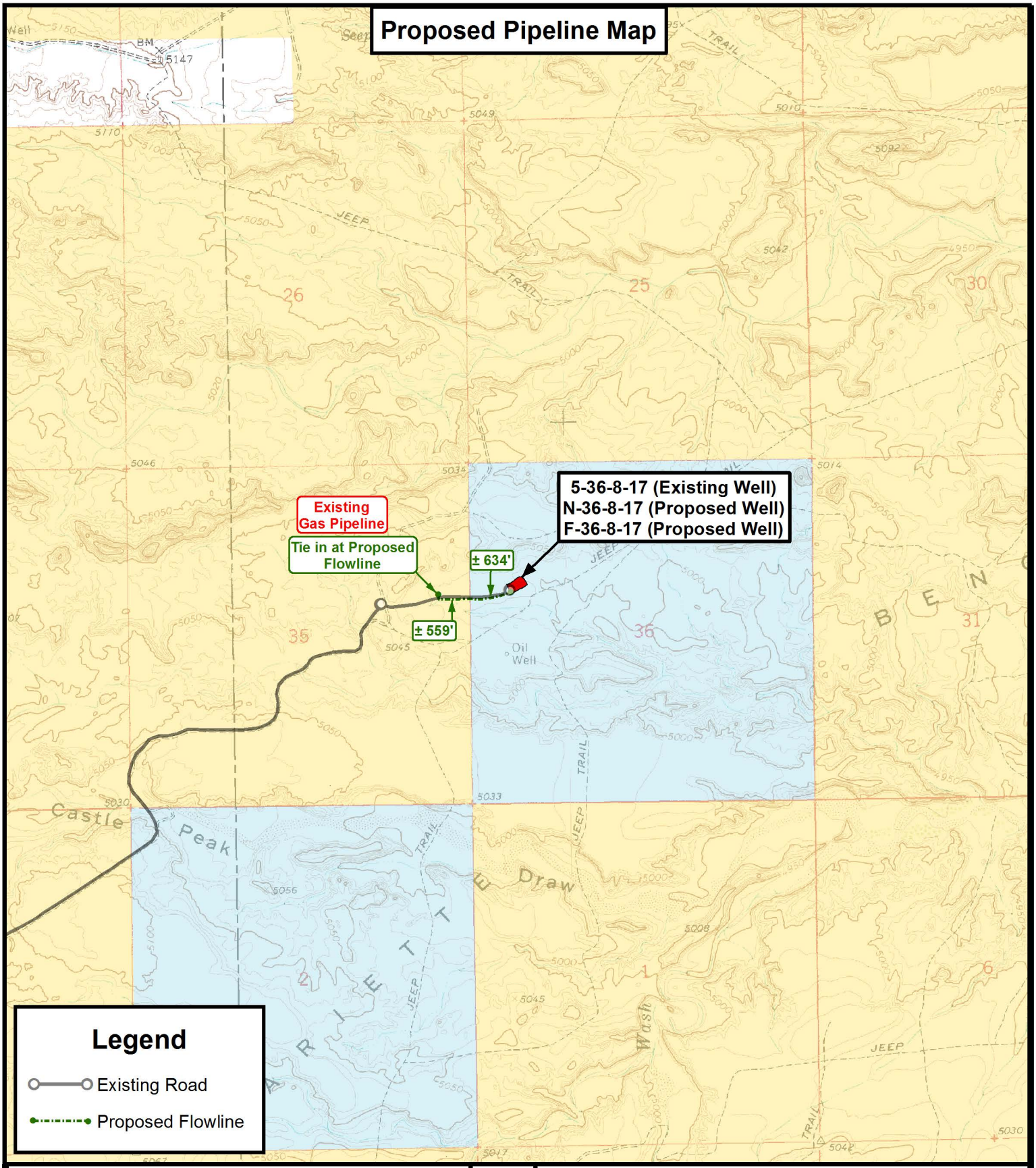
NEWFIELD EXPLORATION COMPANY

5-36-8-17 (Existing Well)
N-36-8-17 (Proposed Well)
F-36-8-17 (Proposed Well)
SEC. 36, T8S, R17E, S.L.B.&M. Uintah County, UT.

TOPOGRAPHIC MAP

SHEET B

API Well Number: 43013512250000



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

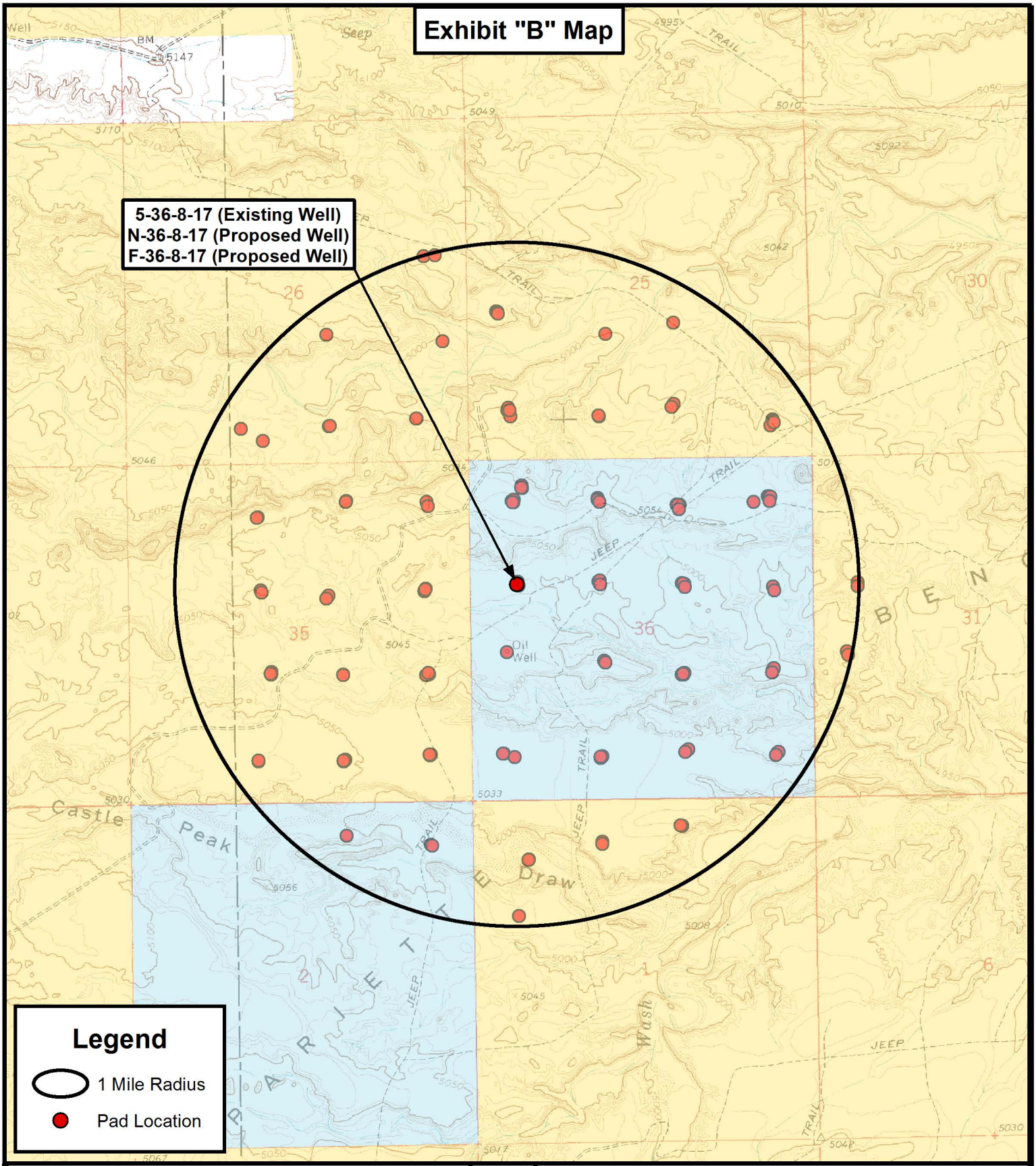
N

NEWFIELD EXPLORATION COMPANY

5-36-8-17 (Existing Well)
N-36-8-17 (Proposed Well)
F-36-8-17 (Proposed Well)
SEC. 36, T8S, R17E, S.L.B.&M. Uintah County, UT.

DRAWN BY: C.H.M.	REVISED: 09-22-11 D.C.R.	VERSION:	TOPOGRAPHIC MAP
DATE: 02-12-2011		V3	SHEET C
SCALE: 1 " = 2,000 '			

API Well Number: 43013512250000



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

DRAWN BY: C.H.M.	REVISED: 09-22-11 D.C.R.	VERSION:	
DATE: 02-12-2011		V3	
SCALE: 1 " = 2,000 '			

N

NEWFIELD EXPLORATION COMPANY

5-36-8-17 (Existing Well)
N-36-8-17 (Proposed Well)
F-36-8-17 (Proposed Well)
SEC. 36, T8S, R17E, S.L.B.&M. Uintah County, UT.

TOPOGRAPHIC MAP

SHEET D

API Well Number: 43013512250000

NEWFIELD EXPLORATION

USGS Myton SW (UT)
SECTION 36 T8S, R17E
F-36-8-17

Wellbore #1

Plan: Design #1

Standard Planning Report

03 May, 2012

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NEWFIELD

Payzone Directional

Planning Report

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well F-36-8-17
Company:	NEWFIELD EXPLORATION	**TVD Reference:**	F-36-8-17 @ 5029.0ft (Newfield Rig)
Project:	USGS Myton SW (UT)	**MD Reference:**	F-36-8-17 @ 5029.0ft (Newfield Rig)
Site:	SECTION 36 T8S, R17E	**North Reference:**	True
Well:	F-36-8-17	**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 36 T8S, R17E

Site Position:		**Northing:**	7,200,290.92 ft	**Latitude:**	40° 4' 35.190 N
From:	Lat/Long	**Easting:**	2,072,102.31 ft	**Longitude:**	109° 57' 26.000 W
Position Uncertainty:	0.0 ft	**Slot Radius:**	"	**Grid Convergence:**	0.99 °

Well F-36-8-17, SHL LAT: 40 04 35.00 LONG: -109 57 42.35

Well Position	**+N/-S**	-19.3 ft	**Northing:**	7,200,249.80 ft	**Latitude:**	40° 4' 35.000 N
	+E/-W	-1,270.9 ft	**Easting:**	2,070,831.96 ft	**Longitude:**	109° 57' 42.350 W
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	5,029.0 ft	**Ground Level:**	5,017.0 ft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/28/2011	11.33	65.85	52,343

Design Design #1

Audit Notes:

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

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	309.12

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,213.2	9.20	309.12	1,210.6	31.0	-38.1	1.50	1.50	0.00	309.12	
6,389.2	9.20	309.12	6,320.0	553.0	-680.0	0.00	0.00	0.00	0.00	F-36-8-17 TGT 1

RECEIVED: February 14, 2012

NEWFIELD

Payzone Directional

Planning Report

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well F-36-8-17
Company:	NEWFIELD EXPLORATION	**TVD Reference:**	F-36-8-17 @ 5029.0ft (Newfield Rig)
Project:	USGS Myton SW (UT)	**MD Reference:**	F-36-8-17 @ 5029.0ft (Newfield Rig)
Site:	SECTION 36 T8S, R17E	**North Reference:**	True
Well:	F-36-8-17	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	1.50	309.12	700.0	0.8	-1.0	1.3	1.50	1.50	0.00
800.0	3.00	309.12	799.9	3.3	-4.1	5.2	1.50	1.50	0.00
900.0	4.50	309.12	899.7	7.4	-9.1	11.8	1.50	1.50	0.00
1,000.0	6.00	309.12	999.3	13.2	-16.2	20.9	1.50	1.50	0.00
1,100.0	7.50	309.12	1,098.6	20.6	-25.4	32.7	1.50	1.50	0.00
1,200.0	9.00	309.12	1,197.5	29.7	-36.5	47.0	1.50	1.50	0.00
1,213.2	9.20	309.12	1,210.6	31.0	-38.1	49.1	1.50	1.50	0.00
1,300.0	9.20	309.12	1,296.3	39.7	-48.9	63.0	0.00	0.00	0.00
1,400.0	9.20	309.12	1,395.0	49.8	-61.3	79.0	0.00	0.00	0.00
1,500.0	9.20	309.12	1,493.7	59.9	-73.7	95.0	0.00	0.00	0.00
1,600.0	9.20	309.12	1,592.4	70.0	-86.1	110.9	0.00	0.00	0.00
1,700.0	9.20	309.12	1,691.1	80.1	-98.5	126.9	0.00	0.00	0.00
1,800.0	9.20	309.12	1,789.8	90.2	-110.9	142.9	0.00	0.00	0.00
1,900.0	9.20	309.12	1,888.5	100.3	-123.3	158.9	0.00	0.00	0.00
2,000.0	9.20	309.12	1,987.3	110.3	-135.7	174.9	0.00	0.00	0.00
2,100.0	9.20	309.12	2,086.0	120.4	-148.1	190.9	0.00	0.00	0.00
2,200.0	9.20	309.12	2,184.7	130.5	-160.5	206.9	0.00	0.00	0.00
2,300.0	9.20	309.12	2,283.4	140.6	-172.9	222.8	0.00	0.00	0.00
2,400.0	9.20	309.12	2,382.1	150.7	-185.3	238.8	0.00	0.00	0.00
2,500.0	9.20	309.12	2,480.8	160.8	-197.7	254.8	0.00	0.00	0.00
2,600.0	9.20	309.12	2,579.5	170.9	-210.1	270.8	0.00	0.00	0.00
2,700.0	9.20	309.12	2,678.3	180.9	-222.5	286.8	0.00	0.00	0.00
2,800.0	9.20	309.12	2,777.0	191.0	-234.9	302.8	0.00	0.00	0.00
2,900.0	9.20	309.12	2,875.7	201.1	-247.3	318.8	0.00	0.00	0.00
3,000.0	9.20	309.12	2,974.4	211.2	-259.7	334.7	0.00	0.00	0.00
3,100.0	9.20	309.12	3,073.1	221.3	-272.1	350.7	0.00	0.00	0.00
3,200.0	9.20	309.12	3,171.8	231.4	-284.5	366.7	0.00	0.00	0.00
3,300.0	9.20	309.12	3,270.5	241.5	-296.9	382.7	0.00	0.00	0.00
3,400.0	9.20	309.12	3,369.2	251.5	-309.3	398.7	0.00	0.00	0.00
3,500.0	9.20	309.12	3,468.0	261.6	-321.7	414.7	0.00	0.00	0.00
3,600.0	9.20	309.12	3,566.7	271.7	-334.1	430.7	0.00	0.00	0.00
3,700.0	9.20	309.12	3,665.4	281.8	-346.5	446.6	0.00	0.00	0.00
3,800.0	9.20	309.12	3,764.1	291.9	-358.9	462.6	0.00	0.00	0.00
3,900.0	9.20	309.12	3,862.8	302.0	-371.3	478.6	0.00	0.00	0.00
4,000.0	9.20	309.12	3,961.5	312.1	-383.7	494.6	0.00	0.00	0.00
4,100.0	9.20	309.12	4,060.2	322.2	-396.1	510.6	0.00	0.00	0.00
4,200.0	9.20	309.12	4,159.0	332.2	-408.5	526.6	0.00	0.00	0.00
4,300.0	9.20	309.12	4,257.7	342.3	-420.9	542.6	0.00	0.00	0.00
4,400.0	9.20	309.12	4,356.4	352.4	-433.3	558.5	0.00	0.00	0.00
4,500.0	9.20	309.12	4,455.1	362.5	-445.7	574.5	0.00	0.00	0.00
4,600.0	9.20	309.12	4,553.8	372.6	-458.1	590.5	0.00	0.00	0.00
4,700.0	9.20	309.12	4,652.5	382.7	-470.5	606.5	0.00	0.00	0.00
4,800.0	9.20	309.12	4,751.2	392.8	-482.9	622.5	0.00	0.00	0.00
4,900.0	9.20	309.12	4,850.0	402.8	-495.3	638.5	0.00	0.00	0.00
5,000.0	9.20	309.12	4,948.7	412.9	-507.7	654.5	0.00	0.00	0.00
5,100.0	9.20	309.12	5,047.4	423.0	-520.1	670.4	0.00	0.00	0.00
5,200.0	9.20	309.12	5,146.1	433.1	-532.5	686.4	0.00	0.00	0.00

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NEWFIELD

Payzone Directional

Planning Report

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well F-36-8-17
Company:	NEWFIELD EXPLORATION	**TVD Reference:**	F-36-8-17 @ 5029.0ft (Newfield Rig)
Project:	USGS Myton SW (UT)	**MD Reference:**	F-36-8-17 @ 5029.0ft (Newfield Rig)
Site:	SECTION 36 T8S, R17E	**North Reference:**	True
Well:	F-36-8-17	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.0	9.20	309.12	5,244.8	443.2	-544.9	702.4	0.00	0.00	0.00
5,400.0	9.20	309.12	5,343.5	453.3	-557.3	718.4	0.00	0.00	0.00
5,500.0	9.20	309.12	5,442.2	463.4	-569.8	734.4	0.00	0.00	0.00
5,600.0	9.20	309.12	5,541.0	473.4	-582.2	750.4	0.00	0.00	0.00
5,700.0	9.20	309.12	5,639.7	483.5	-594.6	766.3	0.00	0.00	0.00
5,800.0	9.20	309.12	5,738.4	493.6	-607.0	782.3	0.00	0.00	0.00
5,900.0	9.20	309.12	5,837.1	503.7	-619.4	798.3	0.00	0.00	0.00
6,000.0	9.20	309.12	5,935.8	513.8	-631.8	814.3	0.00	0.00	0.00
6,100.0	9.20	309.12	6,034.5	523.9	-644.2	830.3	0.00	0.00	0.00
6,200.0	9.20	309.12	6,133.2	534.0	-656.6	846.3	0.00	0.00	0.00
6,300.0	9.20	309.12	6,232.0	544.0	-669.0	862.3	0.00	0.00	0.00
6,389.2	9.20	309.12	6,320.0	553.0	-680.0	876.5	0.00	0.00	0.00

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API Well Number: 43013512250000

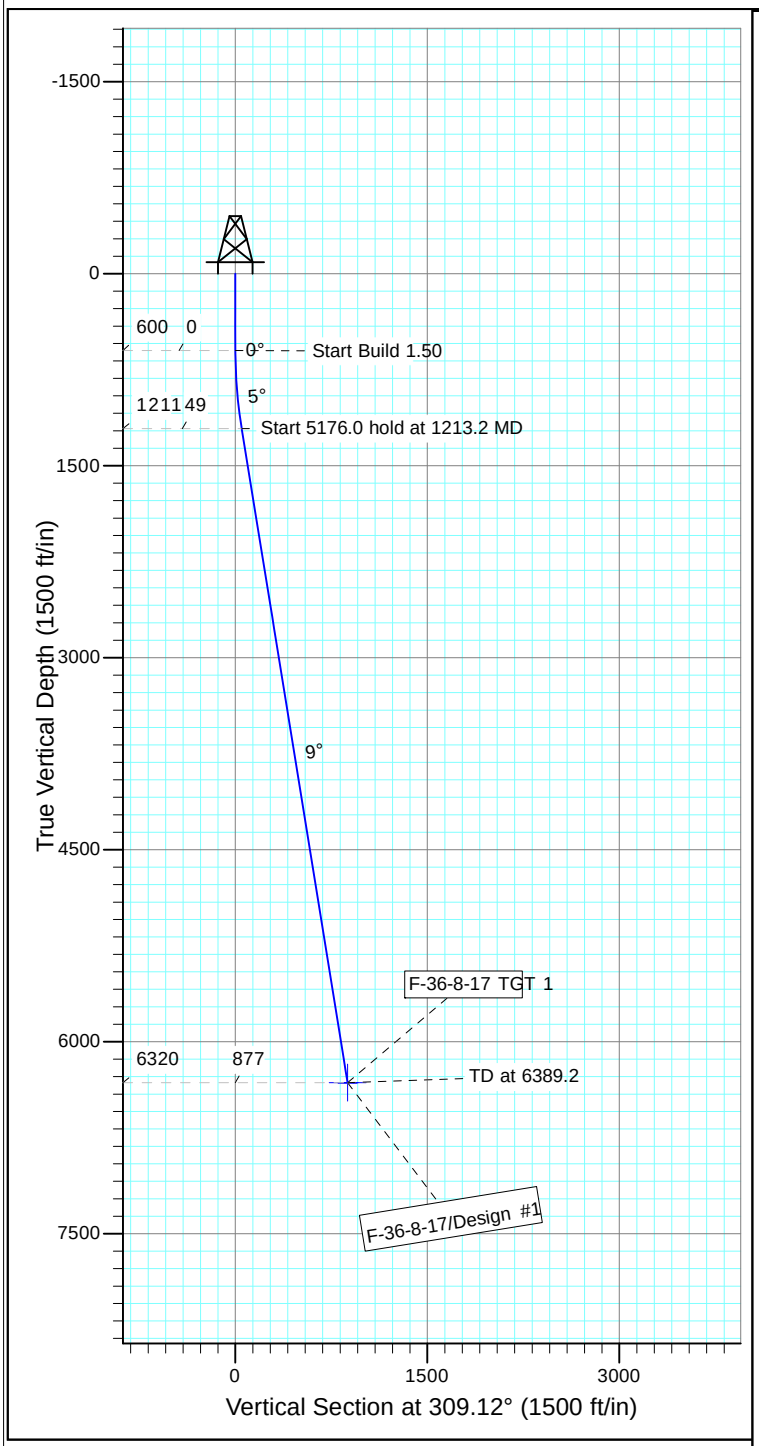
NEWFIELD

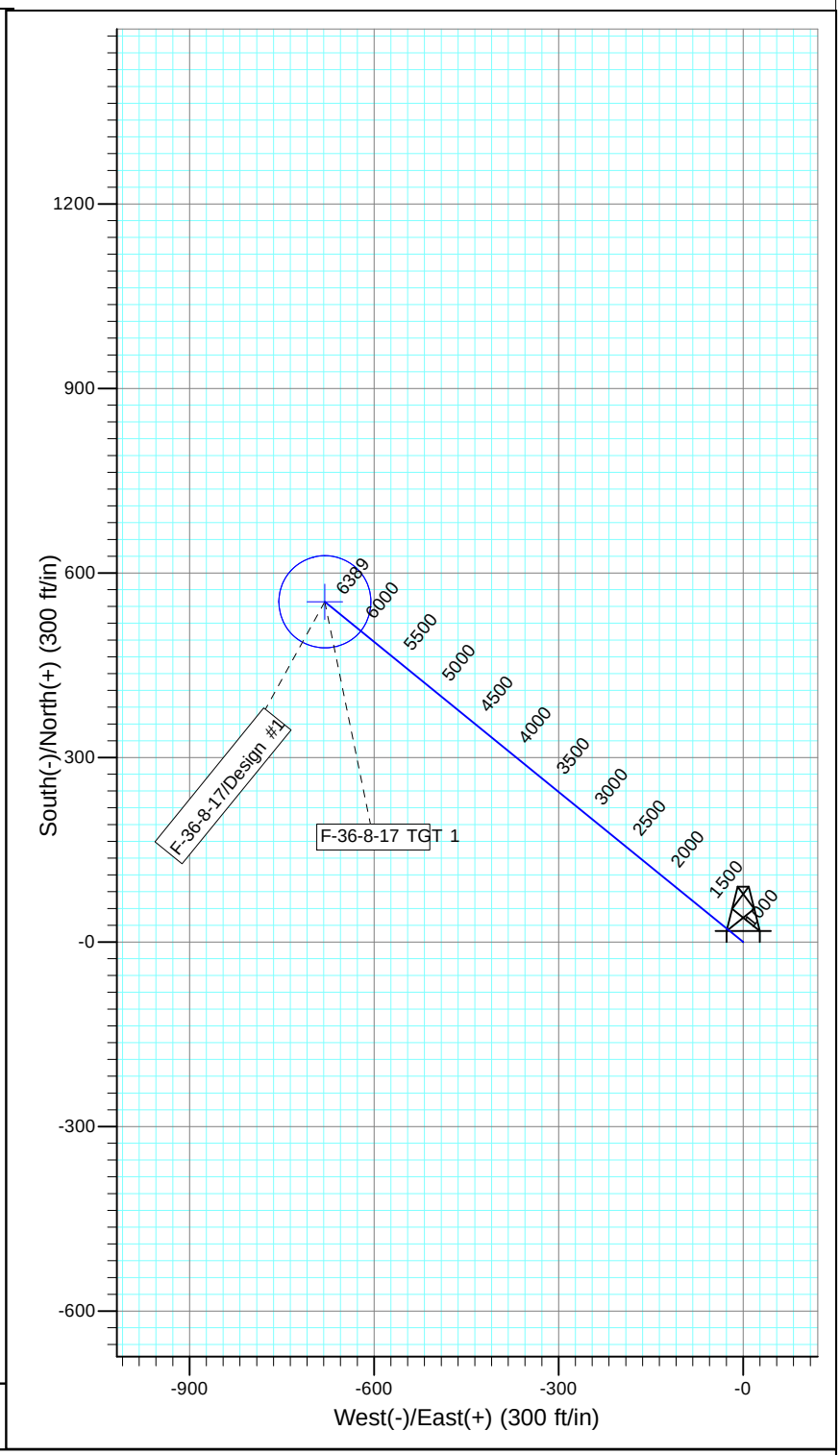
Project: USGS Myton SW (UT)
Site: SECTION 36 T8S, R17E
Well: F-36-8-17
Wellbore: Wellbore #1
Design: Design #1

Azimuths to True North
Magnetic North: 11.33°

Magnetic Field
Strength: 52343.1snT
Dip Angle: 65.85°
Date: 1/28/2011
Model: IGRF2010

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





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
F-36-8-17 TGT 1	6320.0	553.0	-680.0	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1213.2	9.20	309.12	1210.6	31.0	-38.1	1.50	309.12	49.1	
4	6389.2	9.20	309.12	6320.0	553.0	-680.0	0.00	0.00	876.5	F-36-8-17 TGT 1

PAYZONE

NEWFIELD PRODUCTION COMPANY
GMBU F-36-8-17
AT SURFACE: SW/NW SECTION 36, T8S, R17E
UINTAH COUNTY, UTAH

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. EXISTING ROADS

See attached Topographic Map "A"

To reach Newfield Production Company well location site GMBU F-36-8-17 located in the SW 1/4 NW 1/4 Section 36, T8S, R17E, Uintah County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles ± to the junction of this highway and UT State Hwy 53; proceed southeasterly – 11.7 miles ± to it's junction with an existing road to the northeast; proceed northeasterly – 3.4 miles ± to the existing 5-36-8-17 well pad.

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

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

2. PLANNED ACCESS ROAD

There is no proposed access road for this location. The proposed well will be drilled directionaly off of the existing 5-36-8-17 well pad. See attached **Topographic Map "B"**.

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

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

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

3. LOCATION OF EXISTING WELLS

Refer to Exhibit "B".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

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

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

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

Tank batteries will be built to State specifications.

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

5. LOCATION AND TYPE OF WATER SUPPLY

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

Johnson Water District
Water Right : 43-10136

Maurice Harvey Pond
Water Right: 47-1358

Neil Moon Pond
Water Right: 43-11787

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

There will be no water well drilled at this site.

6. SOURCE OF CONSTRUCTION MATERIALS

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

A mineral material application is not required for this location.

7. METHODS FOR HANDLING WASTE DISPOSAL

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

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

A portable toilet will be provided for human waste.

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

8. ANCILLARY FACILITIES

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

9. ***WELL SITE LAYOUT***

See attached Location Layout Sheet.

Fencing Requirements

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

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

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

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

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

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

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

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

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

a) Producing Location

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

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

b) Dry Hole Abandoned Location

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

11. ***SURFACE OWNERSHIP*** – State of Utah.

11. ***OTHER ADDITIONAL INFORMATION :***

Surface Flow Line

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Newfield requests 1,193' of surface flow line be granted. The Surface Flow Line will consist of up to a 14" bundled pipe consisting of 2-2" poly glycol lines and 1-3" production line. For all new wells, Newfield. **Refer to Topographic Map "C"** for the proposed location of the proposed flow line. Flow lines will be tan and will be constructed using the following procedures:

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

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

a) Newfield Production Company is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, Newfield is to immediately stop work that might further disturb such materials and contact the Authorized Officer.

b) Newfield Production will control noxious weeds along rights-of-way for roads, pipelines, well sites or other applicable facilities. On State administered land it is required that a Pesticide Use Proposal shall be submitted and given approval prior to the application of herbicides or other possible hazardous chemicals.

c) Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on State Lands after the conclusion of drilling operations or at any other time without State authorization. However, if State authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities

Water Disposal

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

Additional Surface Stipulations

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

Hazardous Material Declaration

Newfield Production Company guarantees that during the drilling and completion of the GMBU F-36-8-17, 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 F-36-8-17, 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.

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

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

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

Representative

Name: Tim Eaton

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

Certification
Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #F-36-8-17, Section 36, Township 8S, Range 17E: Lease ML-44305 Uintah 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 #B001834.

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

2/14/12
Date

Mandie Crozier
Regulatory Analyst
Newfield Production Company

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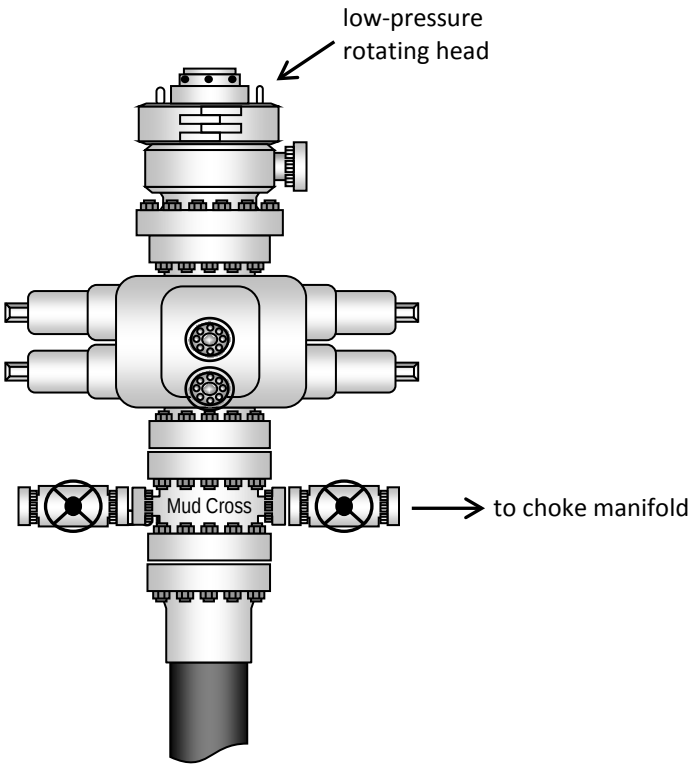
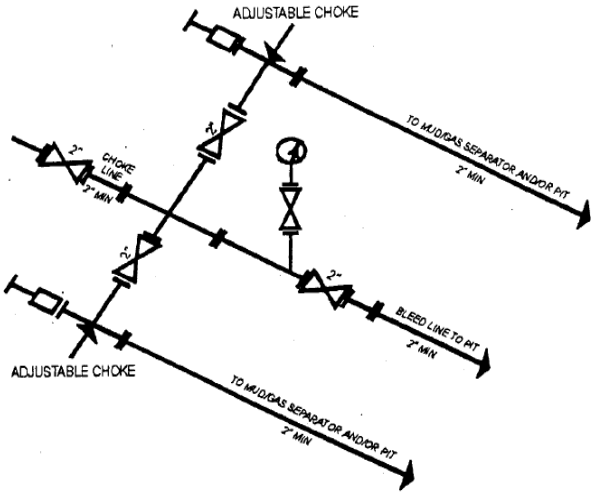
Typical 2M BOP stack configuration





2M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

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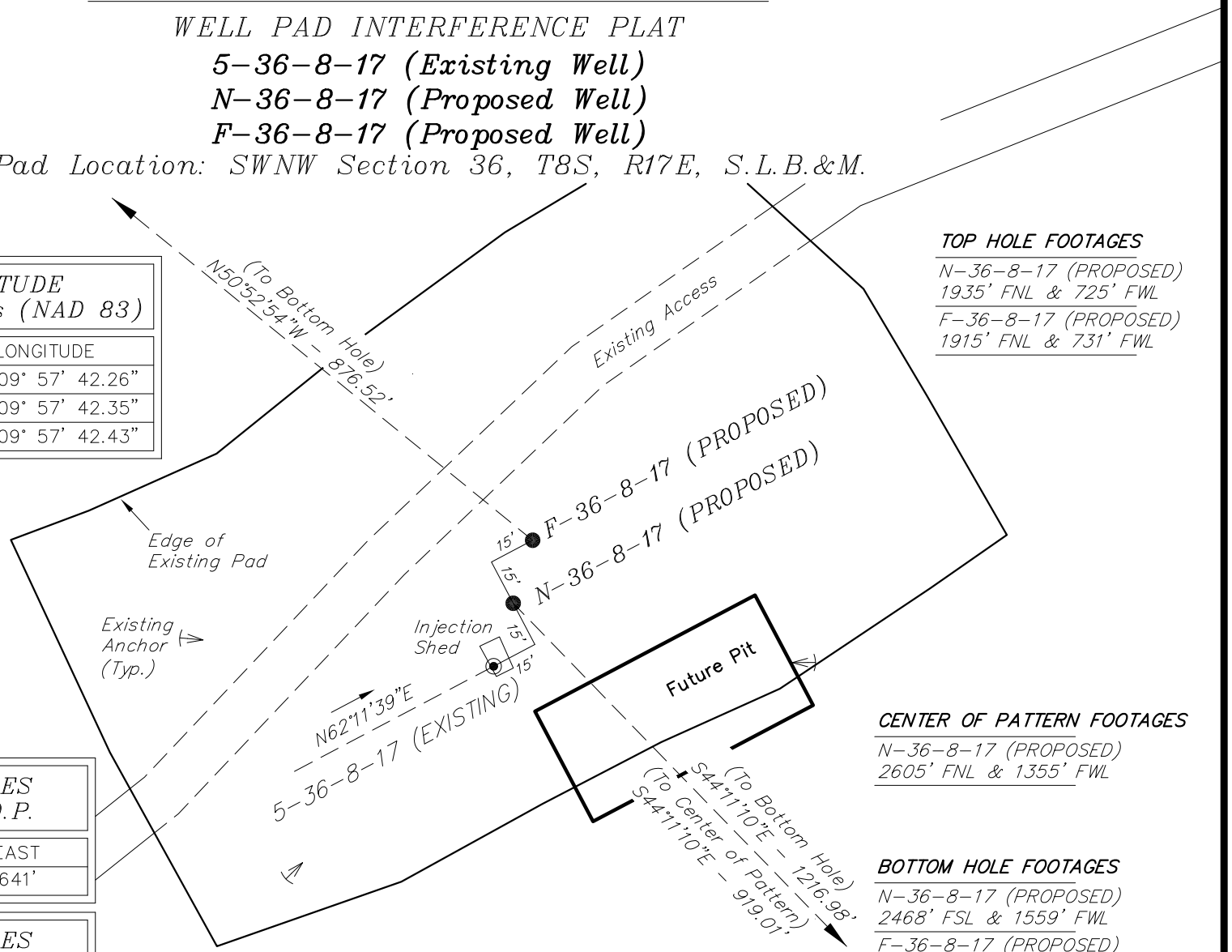
NEWFIELD EXPLORATION COMPANY

WELL PAD INTERFERENCE PLAT

5-36-8-17 (Existing Well)
N-36-8-17 (Proposed Well)
F-36-8-17 (Proposed Well)

Pad Location: SWNW Section 36, T8S, R17E, S.L.B.&M.



LATITUDE & LONGITUDE
Surface position of Wells (NAD 83)

WELL	LATITUDE	LONGITUDE
F-36-8-17	40° 04' 35.20"	109° 57' 42.26"
N-36-8-17	40° 04' 35.00"	109° 57' 42.35"
5-36-8-17	40° 04' 34.80"	109° 57' 42.43"

Note:
Bearings are based on GPS Observations.

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

WELL	NORTH	EAST
N-36-8-17	-659'	641'

RELATIVE COORDINATES
From Top Hole to Bottom Hole

WELL	NORTH	EAST
F-36-8-17	553'	-680'
N-36-8-17	-873'	848'

TOP HOLE FOOTAGES
N-36-8-17 (PROPOSED)
1935' FNL & 725' FWL
F-36-8-17 (PROPOSED)
1915' FNL & 731' FWL

CENTER OF PATTERN FOOTAGES
N-36-8-17 (PROPOSED)
2605' FNL & 1355' FWL

BOTTOM HOLE FOOTAGES
N-36-8-17 (PROPOSED)
2468' FSL & 1559' FWL
F-36-8-17 (PROPOSED)
1350' FNL & 60' FWL

SURVEYED BY: T.P.	DATE SURVEYED: 01-18-11	VERSION:	Tri State Land Surveying, Inc. (435) 781-2501
DRAWN BY: M.W.	DATE DRAWN: 01-28-11	V3	180 NORTH VERNAL AVE. VERNAL, UTAH 84078
SCALE: 1" = 50'	REVISED: F.T.M. 09-22-11		

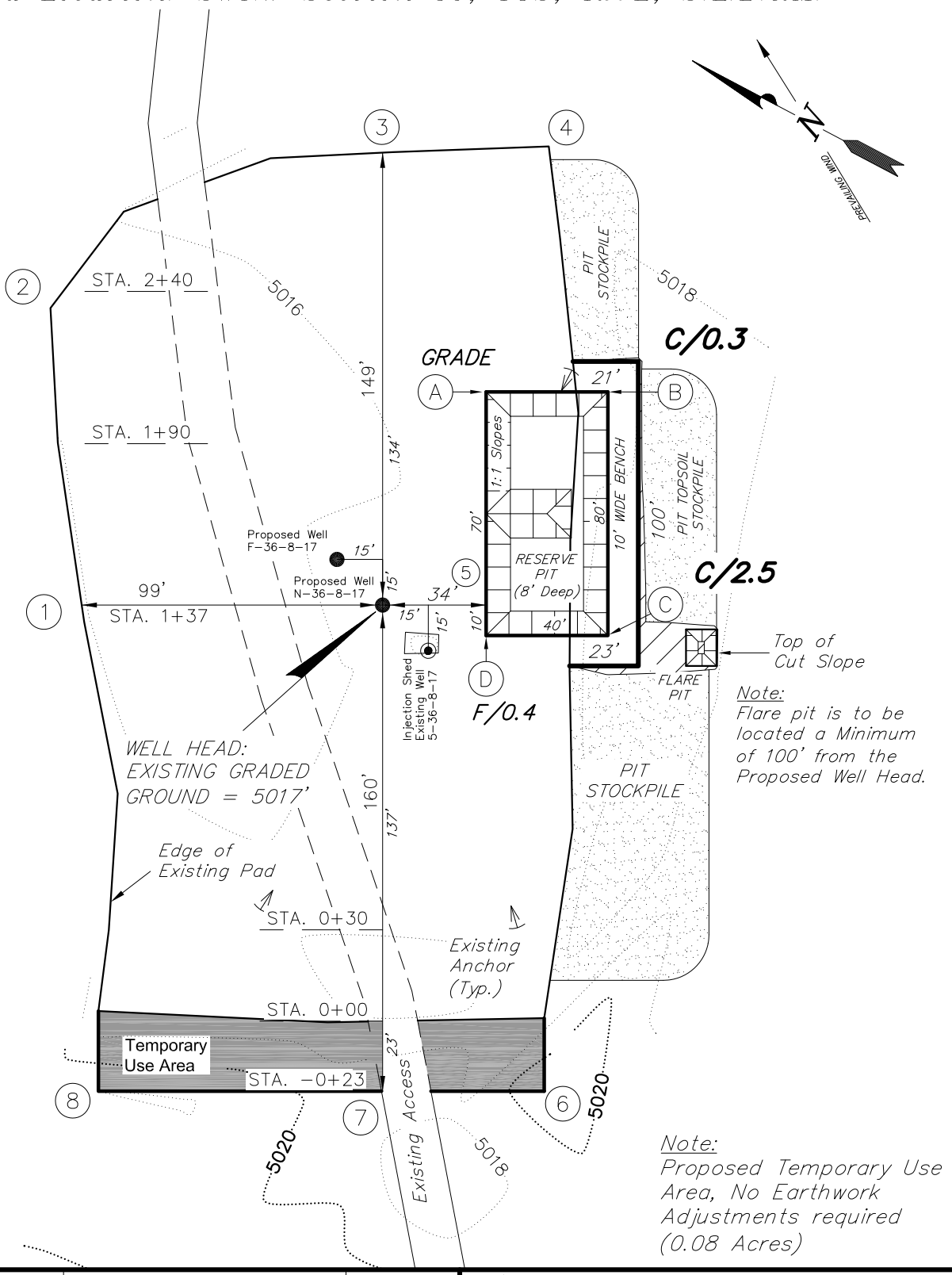
RECEIVED: February 14, 2012

NEWFIELD EXPLORATION COMPANY

LOCATION LAYOUT

5-36-8-17 (Existing Well)
N-36-8-17 (Proposed Well)
F-36-8-17 (Proposed Well)

Pad Location: SWNW Section 36, T8S, R17E, S.L.B.&M.



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DRAWN BY: M.W.	DATE DRAWN: 01-28-11	V3	180 NORTH VERNAL AVE. VERNAL, UTAH 84078
SCALE: 1" = 50'	REVISED: F.T.M. 09-22-11		

RECEIVED: February 14, 2012

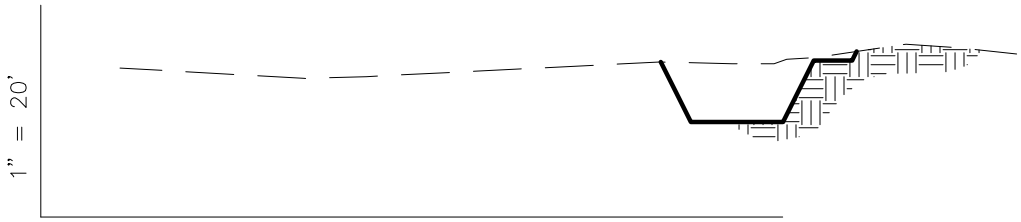
NEWFIELD EXPLORATION COMPANY

CROSS SECTIONS

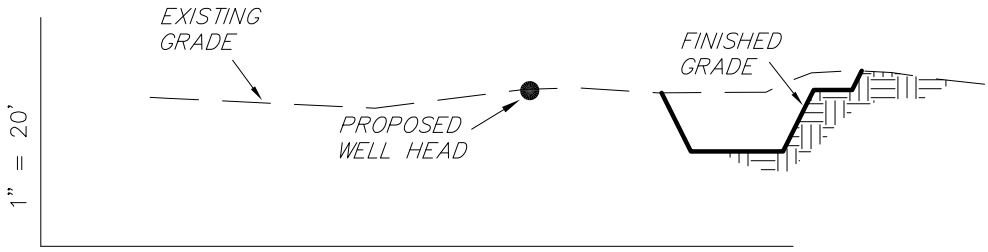
5-36-8-17 (Existing Well)
N-36-8-17 (Proposed Well)
F-36-8-17 (Proposed Well)

Pad Location: SWNW Section 36, T8S, R17E, S.L.B.&M.

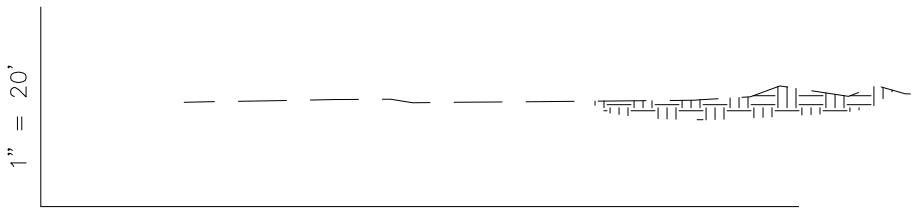
STA. 2+40



STA. 1+90



STA. 1+37



STA. 0+30

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

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

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	0	10	Topsoil is not included in Pad Cut	-10
PIT	610	0		610
TOTALS	610	10	120	600

SURVEYED BY: T.P.	DATE SURVEYED: 01-18-11	VERSION:	Tri State Land Surveying, Inc.	(435) 781-2501
DRAWN BY: M.W.	DATE DRAWN: 01-28-11	V3	180 NORTH VERNAL AVE. VERNAL, UTAH 84078	
SCALE: 1" = 50'	REVISED: F.T.M. 09-22-11			

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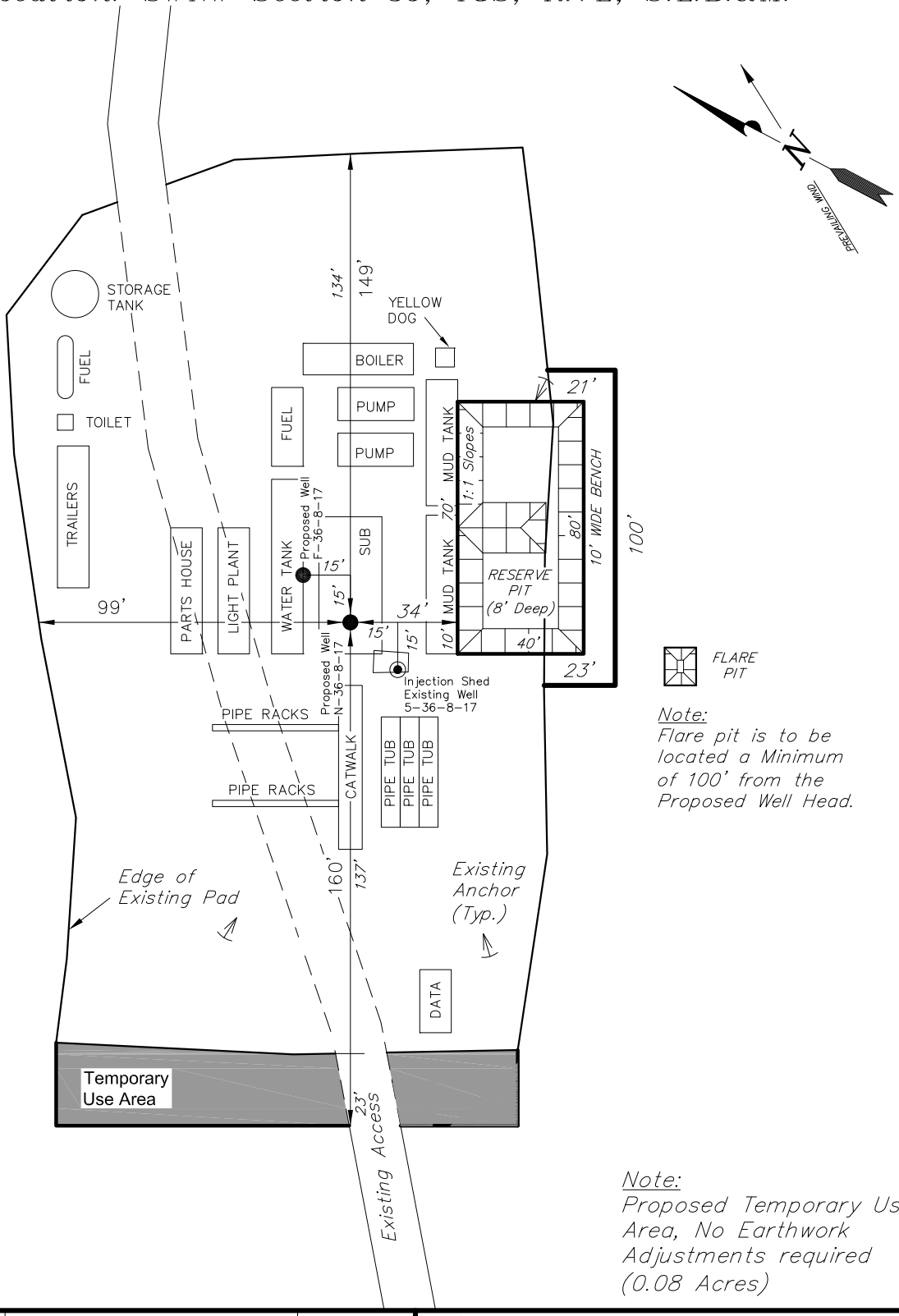
NEWFIELD EXPLORATION COMPANY

TYPICAL RIG LAYOUT

5-36-8-17 (Existing Well)
N-36-8-17 (Proposed Well)
F-36-8-17 (Proposed Well)

Pad Location: SWNW Section 36, T8S, R17E, S.L.B.&M.



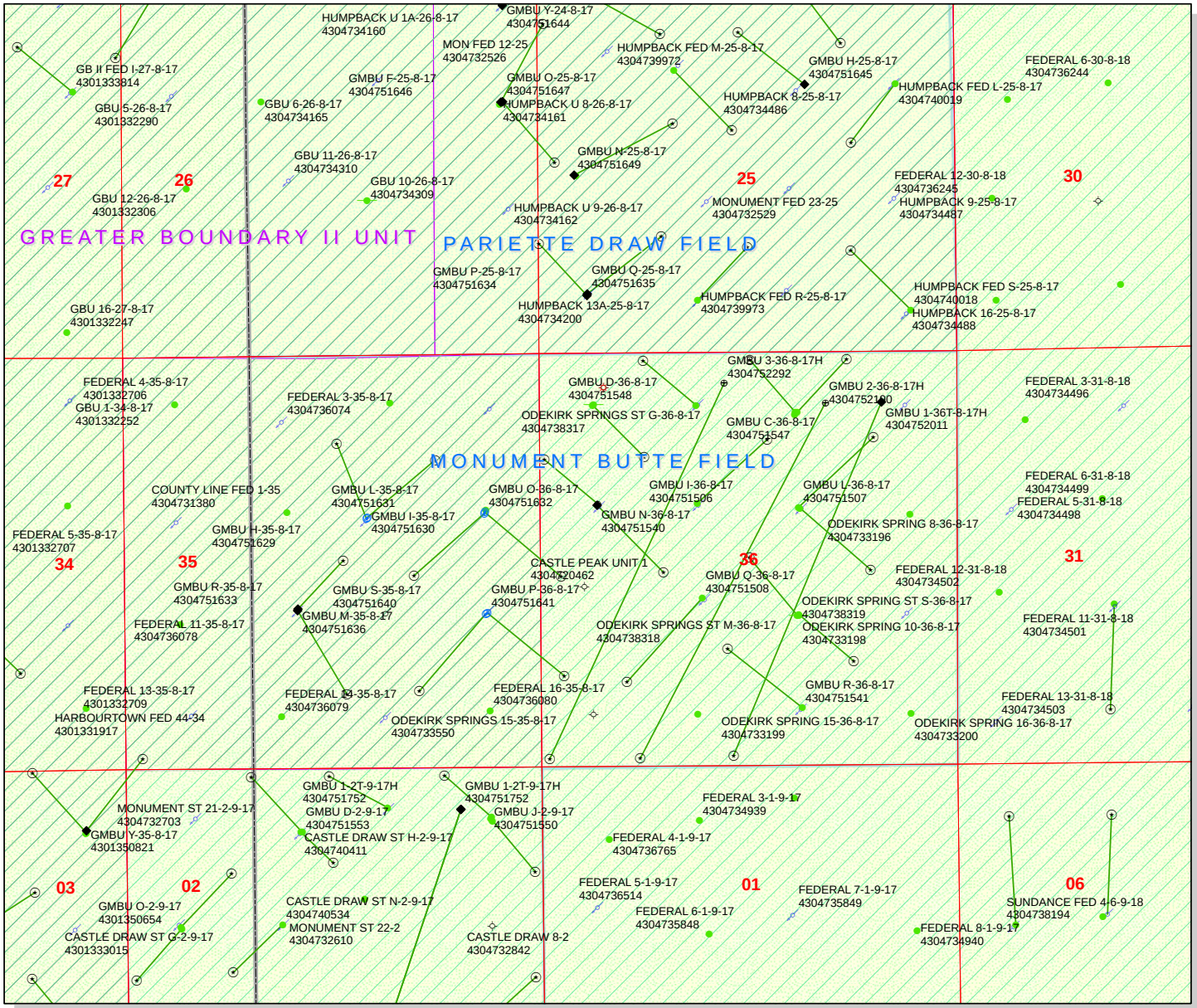
Note:
Flare pit is to be located a Minimum of 100' from the Proposed Well Head.

Note:
Proposed Temporary Use Area, No Earthwork Adjustments required (0.08 Acres)

SURVEYED BY: T.P.	DATE SURVEYED: 01-18-11	VERSION:	Tri State Land Surveying, Inc. (435) 781-2501
DRAWN BY: M.W.	DATE DRAWN: 01-28-11	V3	180 NORTH VERNAL AVE. VERNAL, UTAH 84078
SCALE: 1" = 50'	REVISED: F.T.M. 09-22-11		

RECEIVED: February 14, 2012

API Well Number: 43013512250000



API Number: 4301351225

Well Name: GMBU F-36-8-17

Township T0.8 . Range R1.7 . Section 36

Meridian: SLBM

Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:
Map Produced by Diana Mason

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

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

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

1,700 850 0 1,700 Feet

1:15,707

RECEIVED: February 15, 2012

From: Jim Davis
To: APD APPROVAL
CC: Jensen, Chris; mcrozier@newfield.com; teaton@newfield.com
Date: 3/22/2012 4:02 PM
Subject: Newfield APD approvals

The following APDs have been approved by SITLA including arch and paleo clearance.

GMBU X-9-9-17 (4301351247)
GMBU F-36-8-17 (4301351225)
GMBU 3-16-9-17H (4301351254)
GMBU 2-16-9-16H (4301351255)
GMBU 3-32-8-18H (4304752396)
GMBU 1-2-9-18H (4304752397)
GMBU 1-32-8-18H (4304752401)
GMBU 3-36-8-17H (4304752292)
GMBU 3-2-9-18H (4304752291)
GMBU Y-10-9-17 (4301351253)
GMBU V-9-9-17 (4301351251)

Thanks.
-Jim

RECEIVED: March 22, 2012

United States Department of the Interior

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

IN REPLY REFER TO:
3160
(UT-922)

February 17, 2012

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2012 Plan of Development Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following well is planned for calendar year 2012 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-51225	GMBU F-36-8-17	Sec 36 T08S R17E 1915 FNL 0731 FWL BHL Sec 36 T08S R17E 1350 FNL 0060 FWL

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

Michael L. Coulthard

Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land Management, ou=Branch of Minerals, email=Michael_Coulthard@blm.gov, c=US
Date: 2012.02.17 12:23:13 -07'00'

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

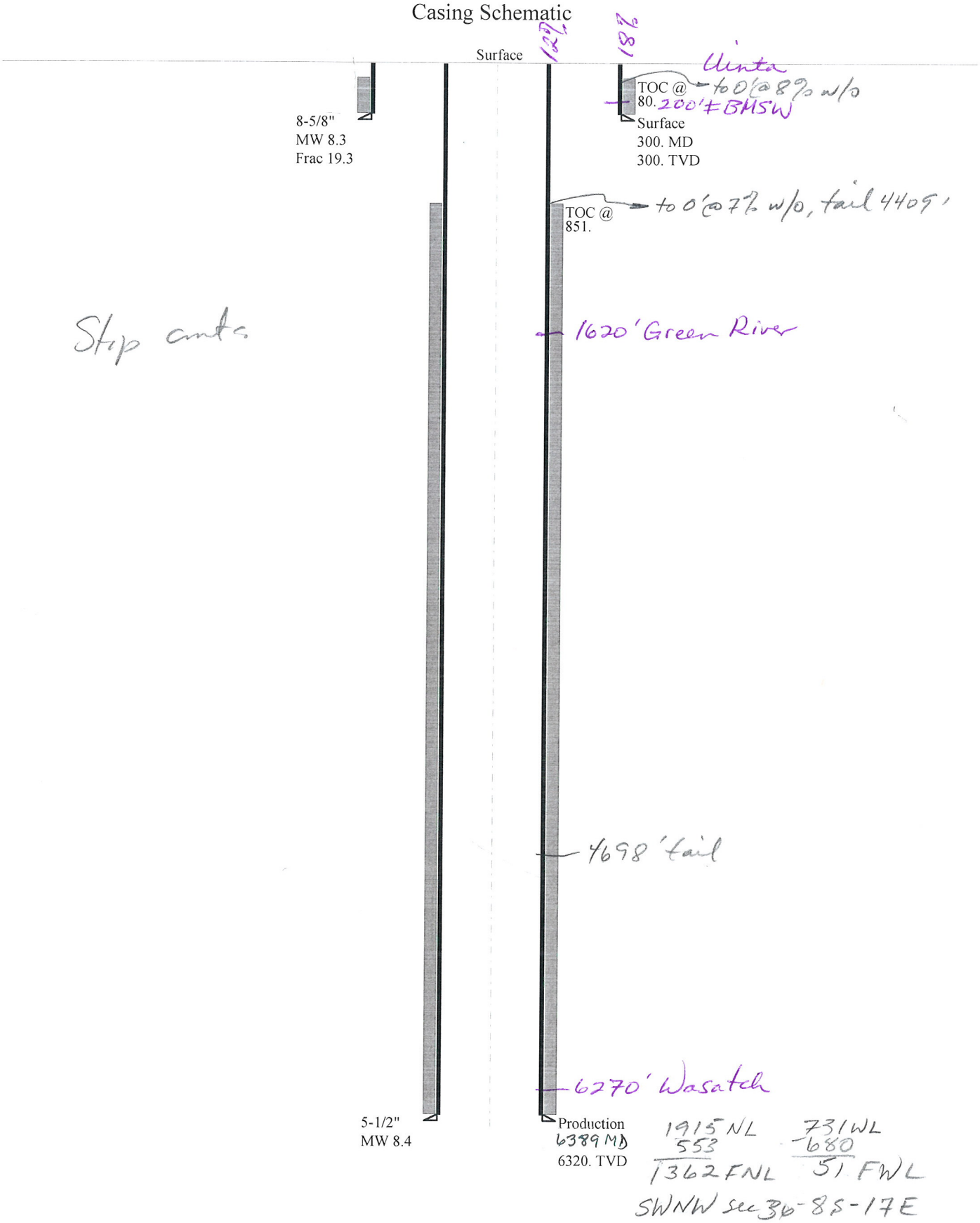
MCoulthard:mc:2-17-12

RECEIVED: May 30, 2012

API Well Number: 43013512250000

43013512250000 GMBU F-36-8-17

Casing Schematic



API Well Number: 43013512250000

Well name:	**43013512250000 GMBU F-36-8-17**
Operator:	**NEWFIELD PRODUCTION COMPANY**
String type:	Surface
Project ID:	43-013-51225
Location:	DUCHESNE COUNTY

Design parameters:

Collapse

Mud weight: 8.330 ppg
Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 264 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 300 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Tension:

8 Round STC:	1.80 (J)
8 Round LTC:	1.70 (J)
Buttress:	1.60 (J)
Premium:	1.50 (J)
Body yield:	1.50 (B)

Tension is based on air weight.
Neutral point: 262 ft

Environment:

H2S considered?	No
Surface temperature:	74 °F
Bottom hole temperature:	78 °F
Temperature gradient:	1.40 °F/100ft
Minimum section length:	100 ft
Cement top:	80 ft

Non-directional string.

Re subsequent strings:

Next setting depth:	6,320 ft
Next mud weight:	8.400 ppg
Next setting BHP:	2,758 psi
Fracture mud wt:	19.250 ppg
Fracture depth:	300 ft
Injection pressure:	300 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ($)
1	300	8.625	24.00	J-55	ST&C	300	300	7.972	1544

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	130	1370	10.557	300	2950	9.83	7.2	244	33.90 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: April 20,2012
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 300 ft, a mud weight of 8.33 ppg The casing is considered to be evacuated for collapse purposes.
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

API Well Number: 43013512250000

Well name:	**43013512250000 GMBU F-36-8-17**
Operator:	**NEWFIELD PRODUCTION COMPANY**
String type:	Production
Project ID:	43-013-51225
Location:	DUCHESNE COUNTY

Design parameters:

Collapse

Mud weight: 8.400 ppg
Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 1,367 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 2,758 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Tension:

8 Round STC:	1.80 (J)
8 Round LTC:	1.80 (J)
Buttress:	1.60 (J)
Premium:	1.50 (J)
Body yield:	1.60 (B)

Tension is based on air weight.
Neutral point: 5,613 ft

Environment:

H2S considered?	No
Surface temperature:	74 °F
Bottom hole temperature:	162 °F
Temperature gradient:	1.40 °F/100ft
Minimum section length:	1,000 ft
Cement top:	851 ft

Directional Info - Build & Hold

Kick-off point	600 ft
Departure at shoe:	1121 ft
Maximum dogleg:	1.5 °/100ft
Inclination at shoe:	11.89 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ($)
1	6434	5.5	15.50	J-55	LT&C	6320	6434	4.825	22718

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	2758	4040	1.465	2758	4810	1.74	98	217	2.22 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: April 20,2012
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 6320 ft, a mud weight of 8.4 ppg The casing is considered to be evacuated for collapse purposes.
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.
Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

API Well Number: 43013512250000

BOPE REVIEW NEWFIELD PRODUCTION COMPANY GMBU F-36-8-17 43013512250000

Well Name	NEWFIELD PRODUCTION COMPANY GMBU F-36-8-17 43013512250			
String	Surf	Prod		
Casing Size(")	8.625	5.500		
Setting Depth (TVD)	300	6320		
Previous Shoe Setting Depth (TVD)	0	300		
Max Mud Weight (ppg)	8.3	8.4		
BOPE Proposed (psi)	500	2000		
Casing Internal Yield (psi)	2950	4810		
Operators Max Anticipated Pressure (psi)	2766	8.4		

Calculations	**Surf String**	**8.625**	"
Max BHP (psi)	.052*Setting Depth*MW=	129	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	93	YES air drill
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	63	YES OK
			***Can Full Expected Pressure Be Held At Previous Shoe?**
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	63	NO OK
Required Casing/BOPE Test Pressure=		300	psi
***Max Pressure Allowed @ Previous Casing Shoe=**		0	psi *Assumes 1psi/ft frac gradient

Calculations	**Prod String**	**5.500**	"
Max BHP (psi)	.052*Setting Depth*MW=	2761	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	2003	NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	1371	YES OK
			***Can Full Expected Pressure Be Held At Previous Shoe?**
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	1437	NO Reasonable for area
Required Casing/BOPE Test Pressure=		2000	psi
***Max Pressure Allowed @ Previous Casing Shoe=**		300	psi *Assumes 1psi/ft frac gradient

Calculations	**String**		"
Max BHP (psi)	.052*Setting Depth*MW=		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO
			***Can Full Expected Pressure Be Held At Previous Shoe?**
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO
Required Casing/BOPE Test Pressure=			psi
***Max Pressure Allowed @ Previous Casing Shoe=**			psi *Assumes 1psi/ft frac gradient

Calculations	**String**		"
Max BHP (psi)	.052*Setting Depth*MW=		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO
			***Can Full Expected Pressure Be Held At Previous Shoe?**
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO
Required Casing/BOPE Test Pressure=			psi
***Max Pressure Allowed @ Previous Casing Shoe=**			psi *Assumes 1psi/ft frac gradient

RECEIVED: June 07, 2012

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

Operator NEWFIELD PRODUCTION COMPANY
Well Name GMBU F-36-8-17
API Number 43013512250000 **APD No** 5324 **Field/Unit** MONUMENT BUTTE
Location: 1/4,1/4 SWNW **Sec** 36 **Tw** 8.0S **Rng** 17.0E 1915 FNL 731 FWL
GPS Coord (UTM) 588524 4436752 **Surface Owner**

Participants

T. Eaton, F. Bird, Z. Mc Intyre– Newfield; C. Jensen,– DOGM ; J. Davis- SITLA; A. Hansen- DWR;

Regional/Local Setting & Topography

This location is on the Parriette Bench in the Monument Butte field 17 road miles south of Myton, Utah in Uintah county less than 1 mile west of the County line. Castle Peak draw can be seen in the immediate vicinity. Odekirk Springs can also be found with in a one mile radius. The topography is relatively flat with slopes of around 5% or less. Erosion has created a network of draws and drainages that are deeply cut. Drainages in the area are eventual tributaries of Snyder reservoir. This is good habitat for Accipiters.
This well will be drilled on an existing well pad that hosts the 5-36-8-17 and the N-36-8-17

Surface Use Plan

Current Surface Use
Existing Well Pad

New Road Miles	Well Pad	Src Const Material	Surface Formation
0	**Width** 310 **Length** 260	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate? Y

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Existing well pad. Nothing exists outside of weeds

wildlife;
Suurounding habitat contains forbs that may be suitable browse for deer, antelope and rabbits, though none were observed. Disturbed soils do not support habitat for wildlife. DWR had no comment / issues

Soil Type and Characteristics

gravels and disturbed native soils

Erosion Issues N

Sedimentation Issues N

RECEIVED: June 11, 2012

API Well Number: 43013512250000

Site Stability Issues N

Drainage Diverson Required? N

Berm Required? Y

Erosion Sedimentation Control Required? N

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)	300 to 1000	2	
Dist. Nearest Municipal Well (ft)	>5280	0	
Distance to Other Wells (feet)		20	
Native Soil Type	Mod permeability	10	
Fluid Type	Fresh Water	5	
Drill Cuttings	Normal Rock	0	
Annual Precipitation (inches)	10 to 20	5	
Affected Populations			
Presence Nearby Utility Conduits	Not Present	0	
	Final Score	47	1 Sensitivity Level

Characteristics / Requirements

Pit to be dug to a depth of 8'. Pit should be fenced to prevent entry by deer, other wildlife and domestic animals. Pit to be closed within one year after drilling activities are complete.

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

Other Observations / Comments

Chris Jensen	3/14/2012
Evaluator	**Date / Time**

RECEIVED: June 11, 2012

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
5324	43013512250000	LOCKED	OW	S	No
Operator	NEWFIELD PRODUCTION COMPANY		**Surface Owner-APD**		
Well Name	GMBU F-36-8-17		**Unit**	GMBU (GRRV)	
Field	MONUMENT BUTTE		**Type of Work**	DRILL	
Location	SWNW 36 8S 17E S 1915 FNL 731 FWL GPS Coord (UTM) 588526E 4436749N				

Geologic Statement of Basis

Newfield proposes to set 300 feet of surface casing at this location. The base of the moderately saline water at this location is estimated to be at approximately 200 feet. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of section 36. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The proposed casing and cement program should adequately protect any useable ground water.

Brad Hill	4/2/2012
APD Evaluator	**Date / Time**

Surface Statement of Basis

Well is to be drilled on existing well pad. Host well is the 5-36-8-17. The N-36-8-17 is proposed and will be drilled at near the same time
The soil type and topography at present do not combine to pose a significant threat to erosion or sediment/ pollution transport in these regional climate conditions. Construction standards of the Operator appear to be adequate for the proposed purpose. I recognize no special flora or animal species or cultural resources on site that the proposed action may harm. The location should be bermed to prevent spills from leaving the confines of the pad. Fencing around the reserve pit will be necessary once the well is drilled to prevent wildlife and livestock from entering. A synthetic liner of 16 mils (minimum) should be utilized in the reserve pit.

Chris Jensen	3/14/2012
Onsite Evaluator	**Date / Time**

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils shall be properly installed and maintained in the reserve pit.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

RECEIVED: June 11, 2012

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 2/14/2012 **API NO. ASSIGNED:** 43013512250000
WELL NAME: GMBU F-36-8-17
OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695) **PHONE NUMBER:** 435 646-4825
CONTACT: Mandie Crozier

PROPOSED LOCATION: SWNW 36 080S 170E **Permit Tech Review:** ✔

SURFACE: 1915 FNL 0731 FWL **Engineering Review:** ✔

BOTTOM: 1350 FNL 0060 FWL **Geology Review:** ✔

COUNTY: DUCHESNE
LATITUDE: 40.07636 **LONGITUDE:** -109.96176
UTM SURF EASTINGS: 588526.00 **NORTHINGS:** 4436749.00
FIELD NAME: MONUMENT BUTTE
LEASE TYPE: 3 - State
LEASE NUMBER: ML-44305 **PROPOSED PRODUCING FORMATION(S):** GREEN RIVER
SURFACE OWNER: 3 - State **COALBED METHANE:** NO

RECEIVED AND/OR REVIEWED:

- ✔ **PLAT**
- ✔ **Bond:** STATE - B001834
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ✔ **Water Permit:** 437478
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☐ **Intent to Commingle**

Commingling Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**

Unit: GMBU (GRRV)

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

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

- ✔ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations:
5 - Statement of Basis - bhill
8 - Cement to Surface -- 2 strings - hmacdonald
15 - Directional - dmason
25 - Surface Casing - hmacdonald
27 - Other - bhill

RECEIVED: June 11, 2012

GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

****

Well Name: GMBU F-36-8-17
API Well Number: 43013512250000
Lease Number: ML-44305
Surface Owner: STATE
Approval Date: 6/11/2012

Issued to:
NEWFIELD PRODUCTION COMPANY , Rt 3 Box 3630 , Myton, UT 84052

Authority:
Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 213-11. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:
This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:
Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:
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).

Cement volumes for the 8 5/8" and 5 1/2" casing strings shall be determined from actual hole diameters in order to place cement from the pipe setting depths back to the surface, as stated in drill plan.

Surface casing shall be cemented to the surface.

Additional Approvals:
The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan - contact Dustin Doucet
- Significant plug back of the well - contact Dustin Doucet
- Plug and abandonment of the well - contact Dustin Doucet

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 OR
  submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
  at http://oilgas.ogm.utah.gov
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing - contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program
  - contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well - contact Dan Jarvis

Contact Information:
The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
  801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
  801-231-8956 - after office hours

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:

Approved By:

For John Rogers
Associate Director, Oil & Gas

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Ross 29 Submitted By Branden Arnold Phone Number 435-401-0223
Well Name/Number GMBU F-36-8-17
Qtr/Qtr SW/NW Section 36 Township 8S Range 17E
Lease Serial Number ML-44305
API Number 43-013-51225

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

Date/Time 6/25/12 4:00 AM ☐ PM ☒

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

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

Date/Time 6/25/12 11:00 AM ☒ PM ☐

BOPE

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

Date/Time _____ _____ AM ☐ PM ☐

Remarks _____

_____

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-44305

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 F-36-8-17

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

9. API NUMBER: 43013512250000

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: 1915 FNL 0731 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 36 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: 7/2/2012
- ☐ 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: Revised Directional Plan

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

There was a slight error with the directional drill plan that was originally submitted with this APD. Attached find the corrected one that matches exactly what is shown on the plats.

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

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

SIGNATURE	DATE
N/A	7/2/2012

RECEIVED: Jul. 02, 2012

NEWFIELD EXPLORATION

USGS Myton SW (UT)
SECTION 36 T8S, R17E
F-36-8-17

Wellbore #1

Plan: Design #1

Standard Planning Report

28 June, 2012

RECEIVED: Jul. 02, 2012

NEWFIELD

Payzone Directional

Planning Report

PAYZONE DIRECTIONAL

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well F-36-8-17
Company:	NEWFIELD EXPLORATION	**TVD Reference:**	F-36-8-17 @ 5029.0ft (Newfield Rig)
Project:	USGS Myton SW (UT)	**MD Reference:**	F-36-8-17 @ 5029.0ft (Newfield Rig)
Site:	SECTION 36 T8S, R17E	**North Reference:**	True
Well:	F-36-8-17	**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 36 T8S, R17E

Site Position:		**Northing:**	7,200,290.92 ft	**Latitude:**	40° 4' 35.190 N
From:	Lat/Long	**Easting:**	2,072,102.31 ft	**Longitude:**	109° 57' 26.000 W
Position Uncertainty:	0.0 ft	**Slot Radius:**	"	**Grid Convergence:**	0.99 °

Well F-36-8-17, SHL LAT: 40 04 35.20 LONG: -109 57 42.26

Well Position	**+N/-S**	1.0 ft	**Northing:**	7,200,270.15 ft	**Latitude:**	40° 4' 35.200 N
	+E/-W	-1,263.9 ft	**Easting:**	2,070,838.61 ft	**Longitude:**	109° 57' 42.260 W
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	5,029.0 ft	**Ground Level:**	5,017.0 ft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/28/2011	11.33	65.85	52,343

Design Design #1

Audit Notes:

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

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	311.84

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,191.7	8.88	311.84	1,189.4	30.5	-34.1	1.50	1.50	0.00	311.84	
6,384.6	8.88	311.84	6,320.0	565.0	-631.0	0.00	0.00	0.00	0.00	F-36-8-17 TGT 1

RECEIVED: Jul. 02, 2012

NEWFIELD

Payzone Directional

Planning Report

PAYZONE DIRECTIONAL

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well F-36-8-17
Company:	NEWFIELD EXPLORATION	**TVD Reference:**	F-36-8-17 @ 5029.0ft (Newfield Rig)
Project:	USGS Myton SW (UT)	**MD Reference:**	F-36-8-17 @ 5029.0ft (Newfield Rig)
Site:	SECTION 36 T8S, R17E	**North Reference:**	True
Well:	F-36-8-17	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	1.50	311.84	700.0	0.9	-1.0	1.3	1.50	1.50	0.00
800.0	3.00	311.84	799.9	3.5	-3.9	5.2	1.50	1.50	0.00
900.0	4.50	311.84	899.7	7.9	-8.8	11.8	1.50	1.50	0.00
1,000.0	6.00	311.84	999.3	14.0	-15.6	20.9	1.50	1.50	0.00
1,100.0	7.50	311.84	1,098.6	21.8	-24.3	32.7	1.50	1.50	0.00
1,191.7	8.88	311.84	1,189.4	30.5	-34.1	45.7	1.50	1.50	0.00
1,200.0	8.88	311.84	1,197.5	31.4	-35.0	47.0	0.00	0.00	0.00
1,300.0	8.88	311.84	1,296.3	41.7	-46.5	62.4	0.00	0.00	0.00
1,400.0	8.88	311.84	1,395.1	52.0	-58.0	77.9	0.00	0.00	0.00
1,500.0	8.88	311.84	1,493.9	62.2	-69.5	93.3	0.00	0.00	0.00
1,600.0	8.88	311.84	1,592.7	72.5	-81.0	108.7	0.00	0.00	0.00
1,700.0	8.88	311.84	1,691.5	82.8	-92.5	124.2	0.00	0.00	0.00
1,800.0	8.88	311.84	1,790.4	93.1	-104.0	139.6	0.00	0.00	0.00
1,900.0	8.88	311.84	1,889.2	103.4	-115.5	155.0	0.00	0.00	0.00
2,000.0	8.88	311.84	1,988.0	113.7	-127.0	170.5	0.00	0.00	0.00
2,100.0	8.88	311.84	2,086.8	124.0	-138.5	185.9	0.00	0.00	0.00
2,200.0	8.88	311.84	2,185.6	134.3	-150.0	201.3	0.00	0.00	0.00
2,300.0	8.88	311.84	2,284.4	144.6	-161.5	216.7	0.00	0.00	0.00
2,400.0	8.88	311.84	2,383.2	154.9	-173.0	232.2	0.00	0.00	0.00
2,500.0	8.88	311.84	2,482.0	165.2	-184.5	247.6	0.00	0.00	0.00
2,600.0	8.88	311.84	2,580.8	175.5	-196.0	263.0	0.00	0.00	0.00
2,700.0	8.88	311.84	2,679.6	185.8	-207.5	278.5	0.00	0.00	0.00
2,800.0	8.88	311.84	2,778.4	196.0	-219.0	293.9	0.00	0.00	0.00
2,900.0	8.88	311.84	2,877.2	206.3	-230.4	309.3	0.00	0.00	0.00
3,000.0	8.88	311.84	2,976.0	216.6	-241.9	324.8	0.00	0.00	0.00
3,100.0	8.88	311.84	3,074.8	226.9	-253.4	340.2	0.00	0.00	0.00
3,200.0	8.88	311.84	3,173.6	237.2	-264.9	355.6	0.00	0.00	0.00
3,300.0	8.88	311.84	3,272.4	247.5	-276.4	371.0	0.00	0.00	0.00
3,400.0	8.88	311.84	3,371.2	257.8	-287.9	386.5	0.00	0.00	0.00
3,500.0	8.88	311.84	3,470.0	268.1	-299.4	401.9	0.00	0.00	0.00
3,600.0	8.88	311.84	3,568.8	278.4	-310.9	417.3	0.00	0.00	0.00
3,700.0	8.88	311.84	3,667.6	288.7	-322.4	432.8	0.00	0.00	0.00
3,800.0	8.88	311.84	3,766.4	299.0	-333.9	448.2	0.00	0.00	0.00
3,900.0	8.88	311.84	3,865.2	309.3	-345.4	463.6	0.00	0.00	0.00
4,000.0	8.88	311.84	3,964.0	319.6	-356.9	479.1	0.00	0.00	0.00
4,100.0	8.88	311.84	4,062.8	329.9	-368.4	494.5	0.00	0.00	0.00
4,200.0	8.88	311.84	4,161.6	340.1	-379.9	509.9	0.00	0.00	0.00
4,300.0	8.88	311.84	4,260.4	350.4	-391.4	525.3	0.00	0.00	0.00
4,400.0	8.88	311.84	4,359.2	360.7	-402.9	540.8	0.00	0.00	0.00
4,500.0	8.88	311.84	4,458.0	371.0	-414.4	556.2	0.00	0.00	0.00
4,600.0	8.88	311.84	4,556.8	381.3	-425.9	571.6	0.00	0.00	0.00
4,700.0	8.88	311.84	4,655.6	391.6	-437.4	587.1	0.00	0.00	0.00
4,800.0	8.88	311.84	4,754.4	401.9	-448.9	602.5	0.00	0.00	0.00
4,900.0	8.88	311.84	4,853.2	412.2	-460.3	617.9	0.00	0.00	0.00
5,000.0	8.88	311.84	4,952.0	422.5	-471.8	633.4	0.00	0.00	0.00
5,100.0	8.88	311.84	5,050.8	432.8	-483.3	648.8	0.00	0.00	0.00
5,200.0	8.88	311.84	5,149.6	443.1	-494.8	664.2	0.00	0.00	0.00

RECEIVED: Jul. 02, 2012

NEWFIELD

Payzone Directional

Planning Report

PAYZONE DIRECTIONAL

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well F-36-8-17
Company:	NEWFIELD EXPLORATION	**TVD Reference:**	F-36-8-17 @ 5029.0ft (Newfield Rig)
Project:	USGS Myton SW (UT)	**MD Reference:**	F-36-8-17 @ 5029.0ft (Newfield Rig)
Site:	SECTION 36 T8S, R17E	**North Reference:**	True
Well:	F-36-8-17	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.0	8.88	311.84	5,248.4	453.4	-506.3	679.6	0.00	0.00	0.00
5,400.0	8.88	311.84	5,347.2	463.7	-517.8	695.1	0.00	0.00	0.00
5,500.0	8.88	311.84	5,446.0	474.0	-529.3	710.5	0.00	0.00	0.00
5,600.0	8.88	311.84	5,544.8	484.2	-540.8	725.9	0.00	0.00	0.00
5,700.0	8.88	311.84	5,643.6	494.5	-552.3	741.4	0.00	0.00	0.00
5,800.0	8.88	311.84	5,742.4	504.8	-563.8	756.8	0.00	0.00	0.00
5,900.0	8.88	311.84	5,841.3	515.1	-575.3	772.2	0.00	0.00	0.00
6,000.0	8.88	311.84	5,940.1	525.4	-586.8	787.7	0.00	0.00	0.00
6,100.0	8.88	311.84	6,038.9	535.7	-598.3	803.1	0.00	0.00	0.00
6,200.0	8.88	311.84	6,137.7	546.0	-609.8	818.5	0.00	0.00	0.00
6,300.0	8.88	311.84	6,236.5	556.3	-621.3	833.9	0.00	0.00	0.00
6,384.6	8.88	311.84	6,320.0	565.0	-631.0	847.0	0.00	0.00	0.00

RECEIVED: Jul. 02, 2012

Sundry Number: 27283 API Well Number: 43013512250000

NEWFIELD

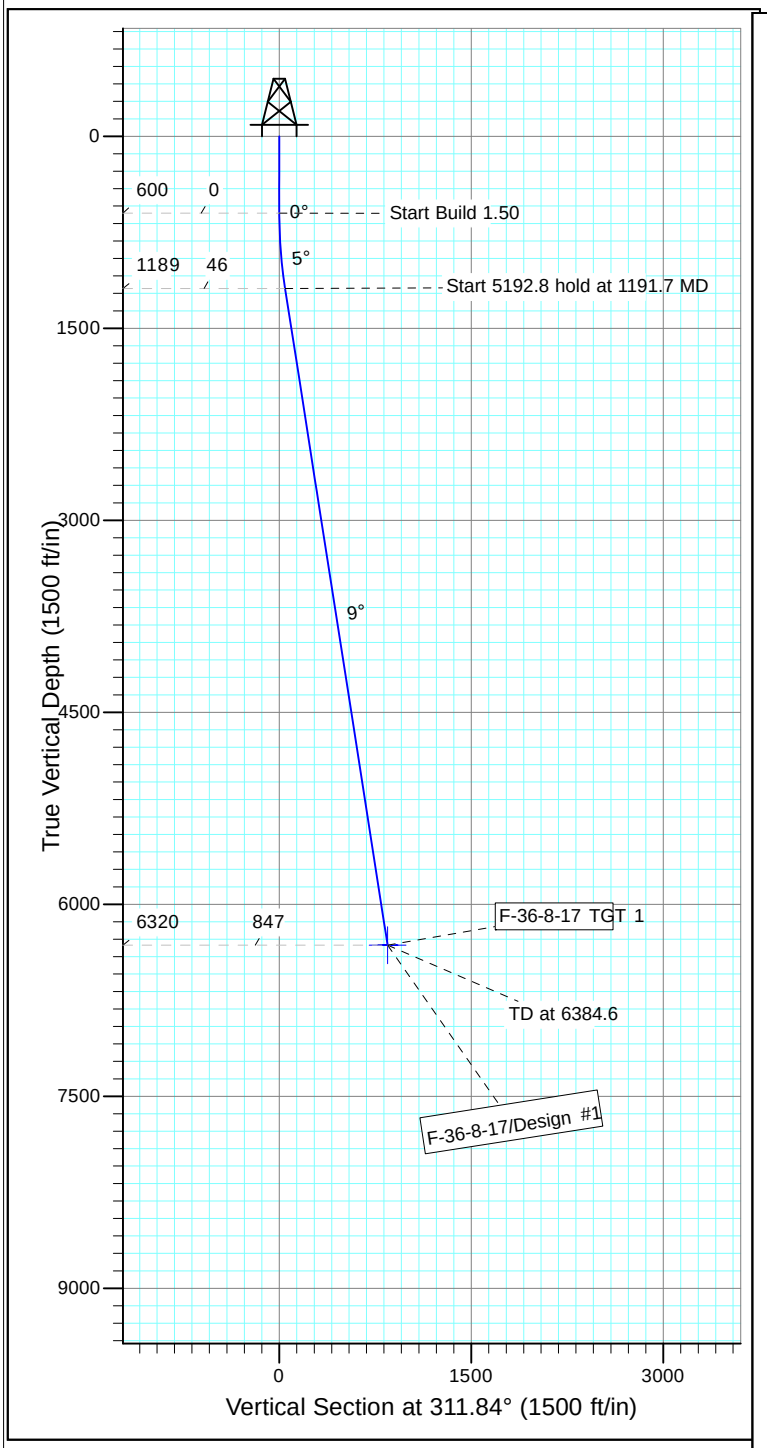
Project: USGS Myton SW (UT)
Site: SECTION 36 T8S, R17E
Well: F-36-8-17
Wellbore: Wellbore #1
Design: Design #1

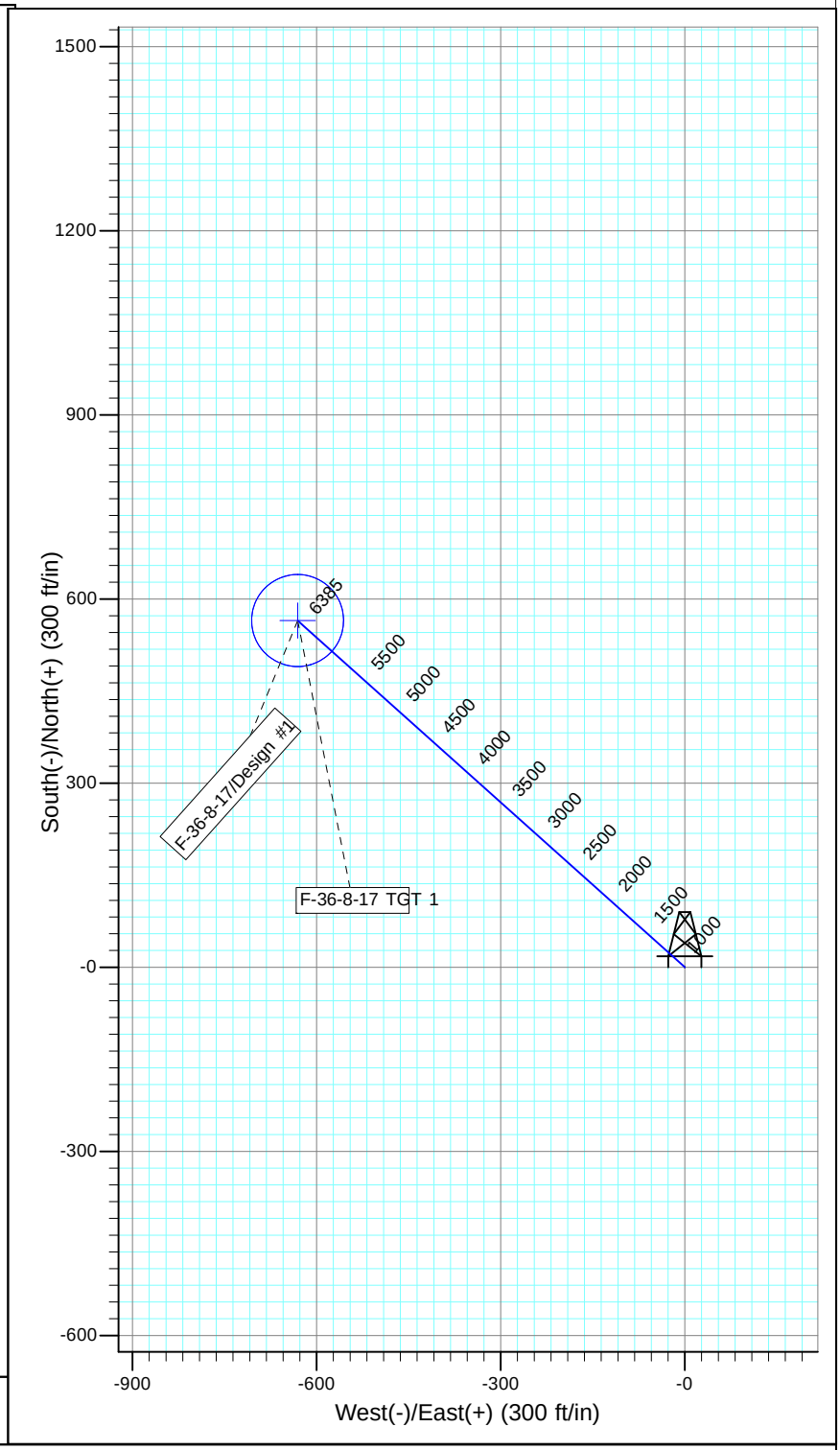
T M

Azimuths to True North
Magnetic North: 11.33°

Magnetic Field
Strength: 52343.1snT
Dip Angle: 65.85°
Date: 1/28/2011
Model: IGRF2010

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





WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
F-36-8-17 TGT 1	6320.0	565.0	-631.0	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1191.7	8.88	311.84	1189.4	30.5	-34.1	1.50	311.84	45.7	
4	6384.6	8.88	311.84	6320.0	565.0	-631.0	0.00	0.00	847.0	F-36-8-17 TGT 1

PAYZONE DIRECTIONAL

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

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

OPERATOR ACCT. NO. N2695

ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE
B	99999	17400	4301351047	GMBU S-4-9-17	NWSE	4	9S	17E	DUCHESNE	6/30/2012	7/18/12

WELL 1 COMMENTS:
GRRV BHL: SESE

ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE
B	99999	17400	4304751881	GMBU M-32-8-18	SWNE	32	8S	~~17E~~ 18	UINTAH	6/29/2012	7/18/12

GRRV BHL: NESW

ACTION B	CURRENT ENTITY NO	NEW ENTITY NO	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE
B	99999	17400	4301351225	GMBU F-36-8-17	SWNW	36	8S	17E	DUCHESNE	6/26/2012	7·18·12

GRRV BHL: SWNW

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE
B	99999	17400	4304751540	GMBU N-36-8-17	SWNW	36	8S	17E	UINTAH	6/27/2012	7·18·12

GRRV BHL: NESW

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE
B	99999	17400	4301351115	GMBU M-6-9-16	NWSE	6	9S	16E	DUCHESNE	7/3/2012	7·18·12

GRRV BHL: SENW

ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE
A	99999	18612	4301351370	LUSTY 14-2-3-3W	SESW	2	3S	3W	DUCHESNE	7/4/2012	7·18·12

Confidential

WSTC

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

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

RECEIVED
JUL 11 2012
Div. of Oil, Gas & Mining

Signature: Tabitha Timothy
Production Clerk 07/09/12

MEMO TO FILE
August 7, 2012

From: Don Staley

Re: Newfield Well GMBU F-36-8-17 Permitted in WRONG COUNTY
Change API Number From 4301351225 to 4304753013

Mandie Crozier of Newfield contacted me via email on 8/1/2012. She informed me that the above well was incorrectly permitted in Duchesne County, it is actually located in Uintah County, and the well was drilling and almost complete. She wanted to know how to correct the problem.

The surveyor's plat map in the well file confirms that the well is in Uintah County.

These are the steps taken to fix this error:

- A copy was made of the original permit information, spud information, etc., in the DOGM database and the pdf well file and moved to a new Uintah County API number: 4304753013.
- The original permit under API number 4301351225 was informally rescinded in our databases in order to maintain a "paper trail" of the old API number and to lock it up from future use (no rescind letters were issued to the operator or other parties).
- Comments were placed in applicable database records and notes were added to the pdf well files under both API numbers to explain what took place.
- Mandie Crozier of Newfield was instructed on 8/2/2012 to spread the word that the new API number should be used on all future correspondence pertaining to this well.
- Beth Hamann and Mickey Coulthard of the BLM were notified of the changes on 8/7/2012.
- Jim Davis and LaVonne Garrison of SITLA were notified of the changes on 8/7/2012.