

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

FORM 3

AMENDED REPORT 

<b>APPLICATION FOR PERMIT TO DRILL</b>						1. WELL NAME and NUMBER GMBU W-20-8-17						
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT MONUMENT BUTTE						
4. TYPE OF WELL Oil Well      Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME GMBU (GRRV)						
6. NAME OF OPERATOR NEWFIELD PRODUCTION COMPANY						7. OPERATOR PHONE 435 646-4825						
8. ADDRESS OF OPERATOR Rt 3 Box 3630 , Myton, UT, 84052						9. OPERATOR E-MAIL mcrozier@newfield.com						
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU-76956			11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>						
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')						
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')						
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>						
20. LOCATION OF WELL		FOOTAGES		QTR-QTR		SECTION		TOWNSHIP		RANGE		MERIDIAN
LOCATION AT SURFACE		600 FNL 2016 FWL		NENW		29		8.0 S		17.0 E		S
Top of Uppermost Producing Zone		203 FNL 2485 FWL		NENW		29		8.0 S		17.0 E		S
At Total Depth		114 FSL 2414 FEL		SWSE		20		8.0 S		17.0 E		S
21. COUNTY DUCHEсне			22. DISTANCE TO NEAREST LEASE LINE (Feet) 114			23. NUMBER OF ACRES IN DRILLING UNIT 20						
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 815			26. PROPOSED DEPTH MD: 6710 TVD: 6600						
27. ELEVATION - GROUND LEVEL 5268			28. BOND NUMBER WYB000493			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 437478						
<b>Hole, Casing, and Cement Information</b>												
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 - 6710	15.5	J-55 LT&C	8.3	Premium Lite High Strength		325	3.26	11.0	
							50/50 Poz		363	1.24	14.3	
<b>ATTACHMENTS</b>												
<b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>												
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER						<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN						
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)						<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER						
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)						<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP						
NAME Mandie Crozier				TITLE Regulatory Tech				PHONE 435 646-4825				
SIGNATURE				DATE 04/04/2012				EMAIL mcrozier@newfield.com				
API NUMBER ASSIGNED 43013513600000				APPROVAL   Permit Manager								

NEWFIELD PRODUCTION COMPANY  
GMBU W-20-8-17  
AT SURFACE: NE/NW SECTION 29, 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' – 1820'
Green River	1820'
Wasatch	6510'
<b>Proposed TD</b>	<b>6710'</b>

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

Green River Formation (Oil)	1820' – 6510'
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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 <sub>3</sub> ) (mg/l)
Dissolved Bicarbonate (NaHCO <sub>3</sub> ) (mg/l)	Dissolved Chloride (Cl) (mg/l)
Dissolved Sulfate (SO <sub>4</sub> ) (mg/l)	Dissolved Total Solids (TDS) (mg/l)

4. **PROPOSED CASING PROGRAM****a. Casing Design: GMBU W-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'	6,710'	15.5	J-55	LTC	4,810 2.25	4,040 1.89	217,000 2.09

## 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 W-20-8-17**

Job	Fill	Description	Sacks	OH Excess*	Weight (ppg)	Yield (ft <sup>3</sup> /sk)
			ft <sup>3</sup>			
Surface casing	300'	Class G w/ 2% CaCl	138	30%	15.8	1.17
			161			
Prod casing Lead	4,710'	Prem Lite II w/ 10% gel + 3% KCl	325	30%	11.0	3.26
			1061			
Prod casing Tail	2,000'	50/50 Poz w/ 2% gel + 3% KCl	363	30%	14.3	1.24
			451			

\*Actual volume pumped will be 15% over the caliper log

- Compressive strength of lead cement: 1800 psi @ 24 hours, 2250 psi @ 72 hours

- Compressive strength of tail cement: 2500 psi @ 24 hours

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

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

5. **MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

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

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

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

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

From surface to  $\pm 300$  feet will be drilled with an air/mist system. The air rig is equipped with a 6 1/2" blooie line that is straight run and securely anchored. The blooie line is used with a discharge less than 100 ft from the wellbore in order to minimize the well pad size. The blooie line is not equipped with an automatic igniter or continuous pilot light and the compressor is located less than 100 ft from the well bore due to the low possibility of combustion with the air dust mixture. The trailer mounted compressor (capacity of 2000 CFM) has a safety shut-off valve which is located 15 feet from the air rig. A truck with 70 bbls of water is on stand by to be used as kill fluid, if necessary. From about  $\pm 300$  feet to TD, a fresh water system will be utilized. Clay inhibition and hole stability will be achieved with a KCl substitute additive. This additive will be identified in the APD and reviewed to determine if the reserve pit shall be lined. This fresh water system will typically contain Total Dissolved Solids (TDS) of less than 3000 PPM. Anticipated mud weight is 8.4 lbs/gal. If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite

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

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

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

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

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

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

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

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

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

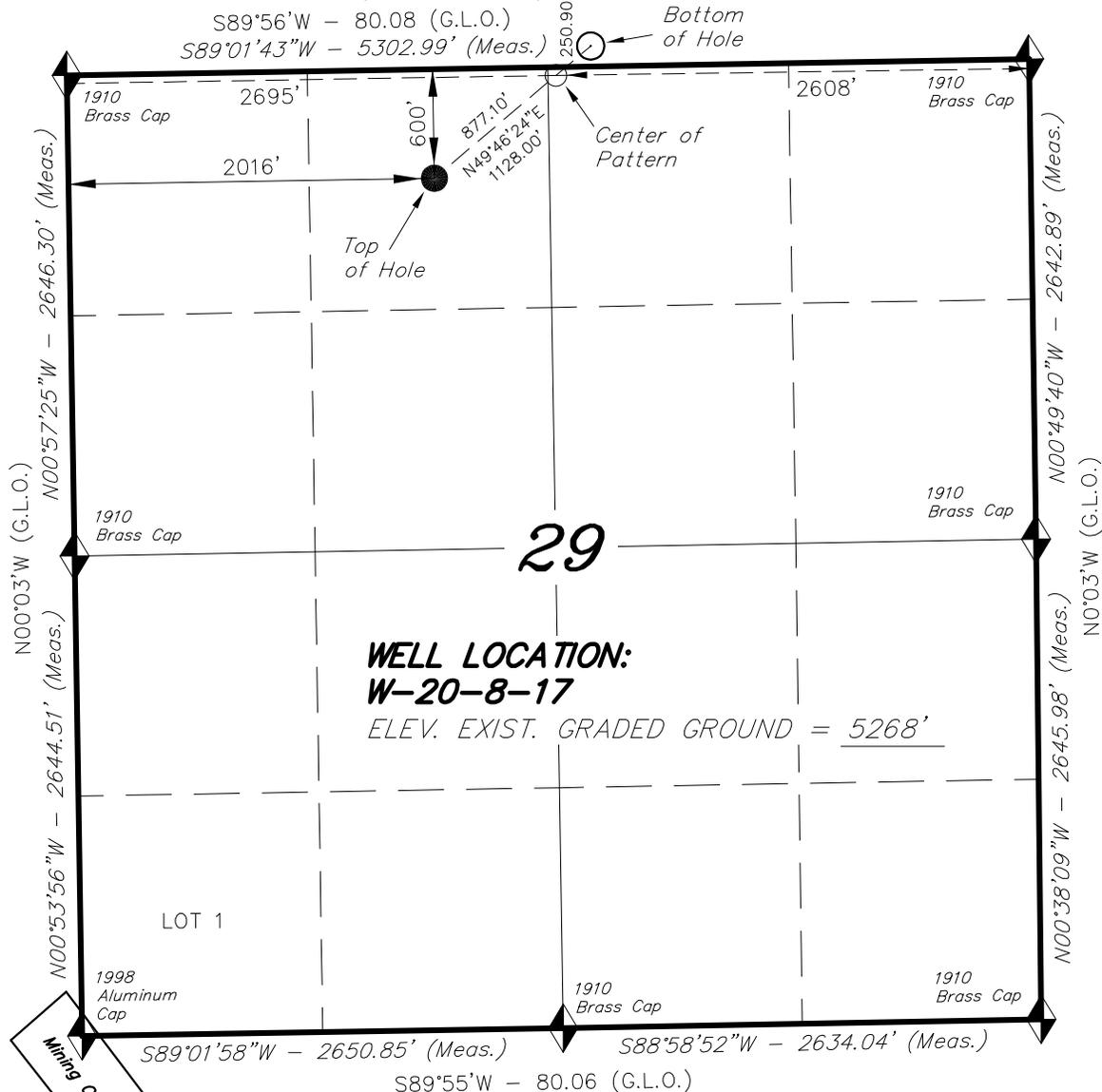
No abnormal temperatures or pressures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated

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

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

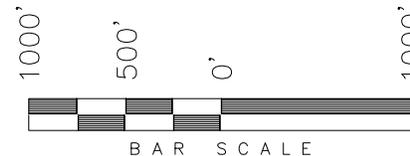
It is anticipated that the drilling operations will commence the third quarter of 2012, and take approximately seven (7) days from spud to rig release.

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



## NEWFIELD EXPLORATION COMPANY

WELL LOCATION, W-20-8-17, LOCATED AS SHOWN IN THE NE 1/4 NW 1/4 OF SECTION 29, T8S, R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.

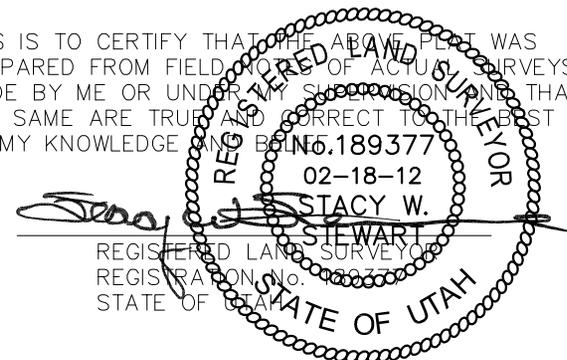


**NOTES:**

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.
3. The Center of Pattern footages are 45' FNL & 2695' FWL.



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



◆ = SECTION CORNERS LOCATED

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

**W-20-8-17**  
 (Surface Location) NAD 83  
 LATITUDE =  $40^{\circ}05'40.35''$   
 LONGITUDE =  $110^{\circ}01'57.53''$

### TRI STATE LAND SURVEYING & CONSULTING

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

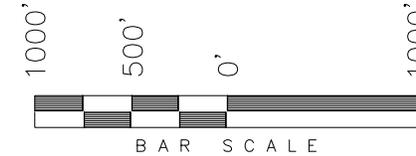
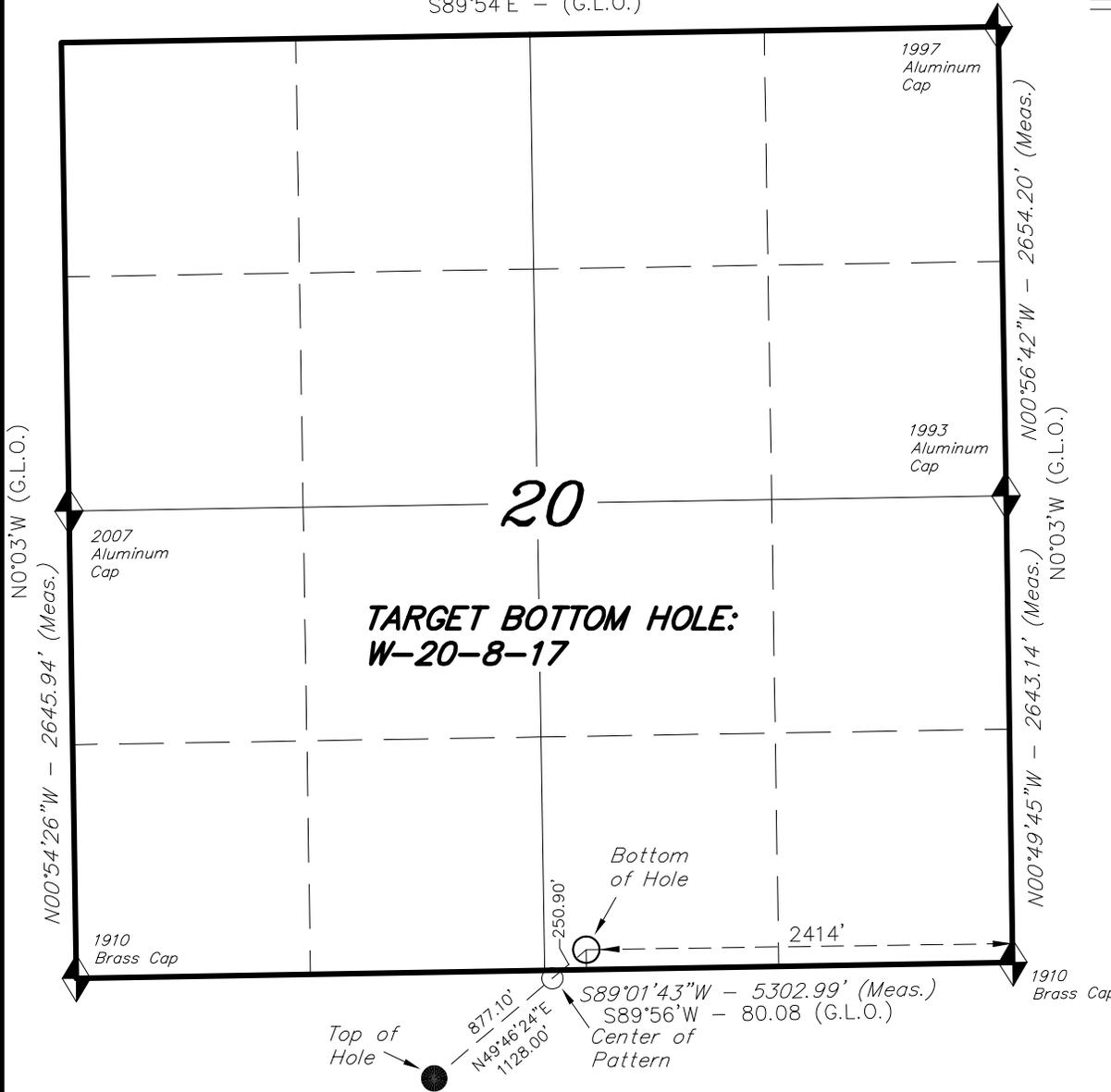
DATE SURVEYED: 09-27-11	SURVEYED BY: S.H.	VERSION:
DATE DRAWN: 01-10-12	DRAWN BY: F.T.M.	V1
REVISED: 02-18-12 R.V.C.	SCALE: 1" = 1000'	

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

S89°54'E - (G.L.O.)

## NEWFIELD EXPLORATION COMPANY

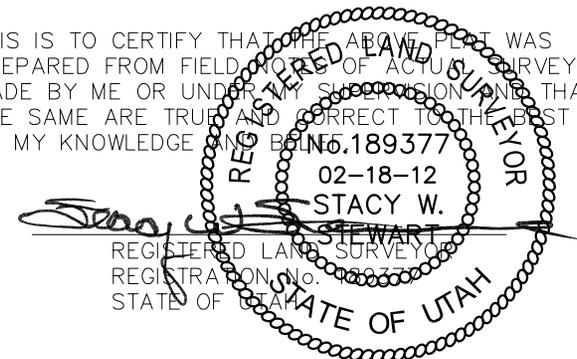
TARGET BOTTOM HOLE, W-20-8-17,  
 LOCATED AS SHOWN IN THE SW 1/4  
 SE 1/4 OF SECTION 20, T8S, R17E,  
 S.L.B.&M. DUCHESNE COUNTY, UTAH.



**NOTES:**

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.
3. The Bottom of Hole footages are 114' FSL & 2414' FEL.

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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'

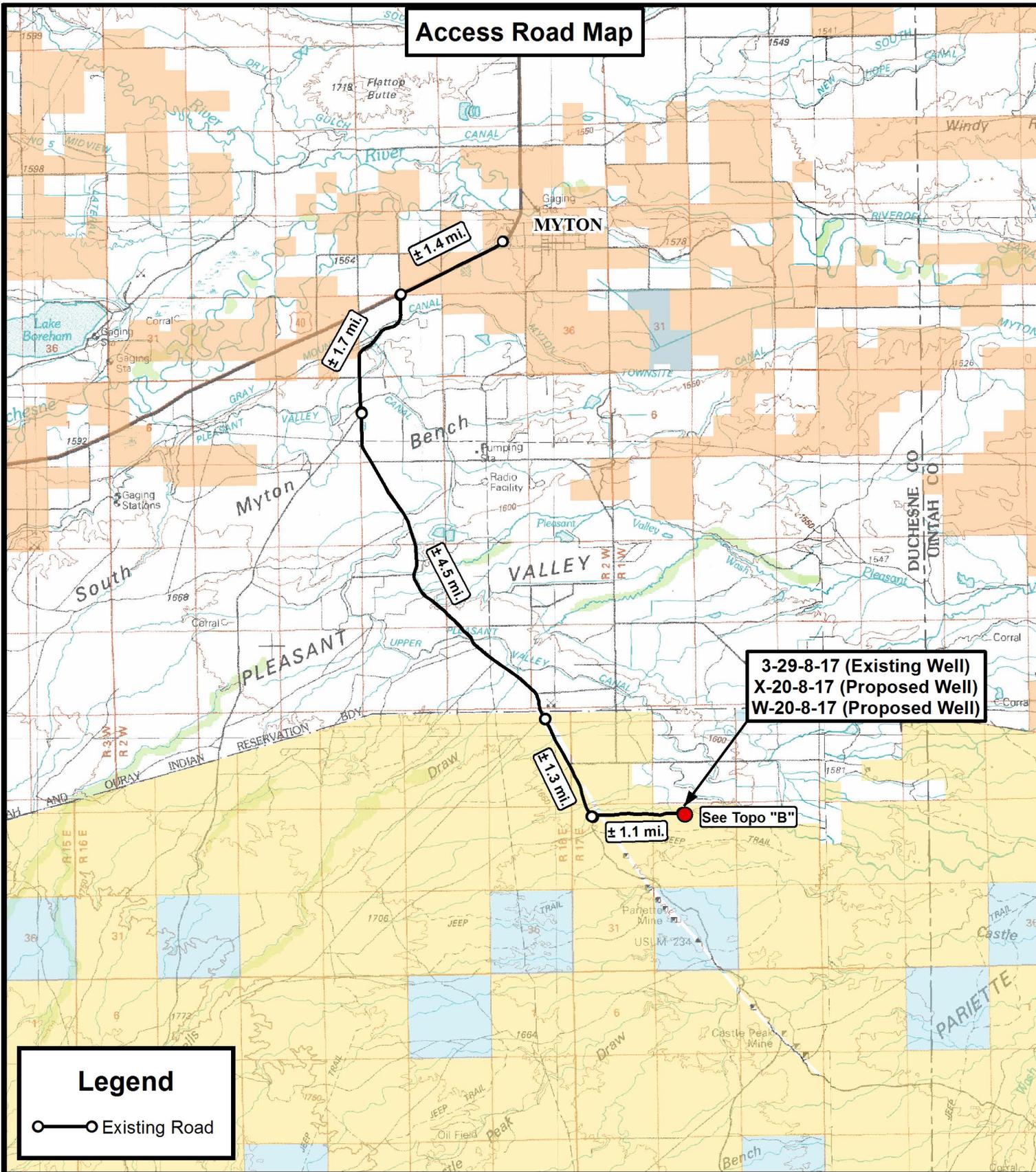
◆ = SECTION CORNERS LOCATED

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DATE SURVEYED: 09-27-11	SURVEYED BY: C.S.	VERSION:
DATE DRAWN: 01-10-12	DRAWN BY: F.T.M.	V1
REVISED: 02-18-12 R.V.C.	SCALE: 1" = 1000'	

**Access Road Map**



**Legend**

○—○ Existing Road

3-29-8-17 (Existing Well)  
 X-20-8-17 (Proposed Well)  
 W-20-8-17 (Proposed Well)

See Topo "B"



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 F: (435) 781-2518



**NEWFIELD EXPLORATION COMPANY**

3-29-8-17 (Existing Well)  
 X-20-8-17 (Proposed Well)  
 W-20-8-17 (Proposed Well)

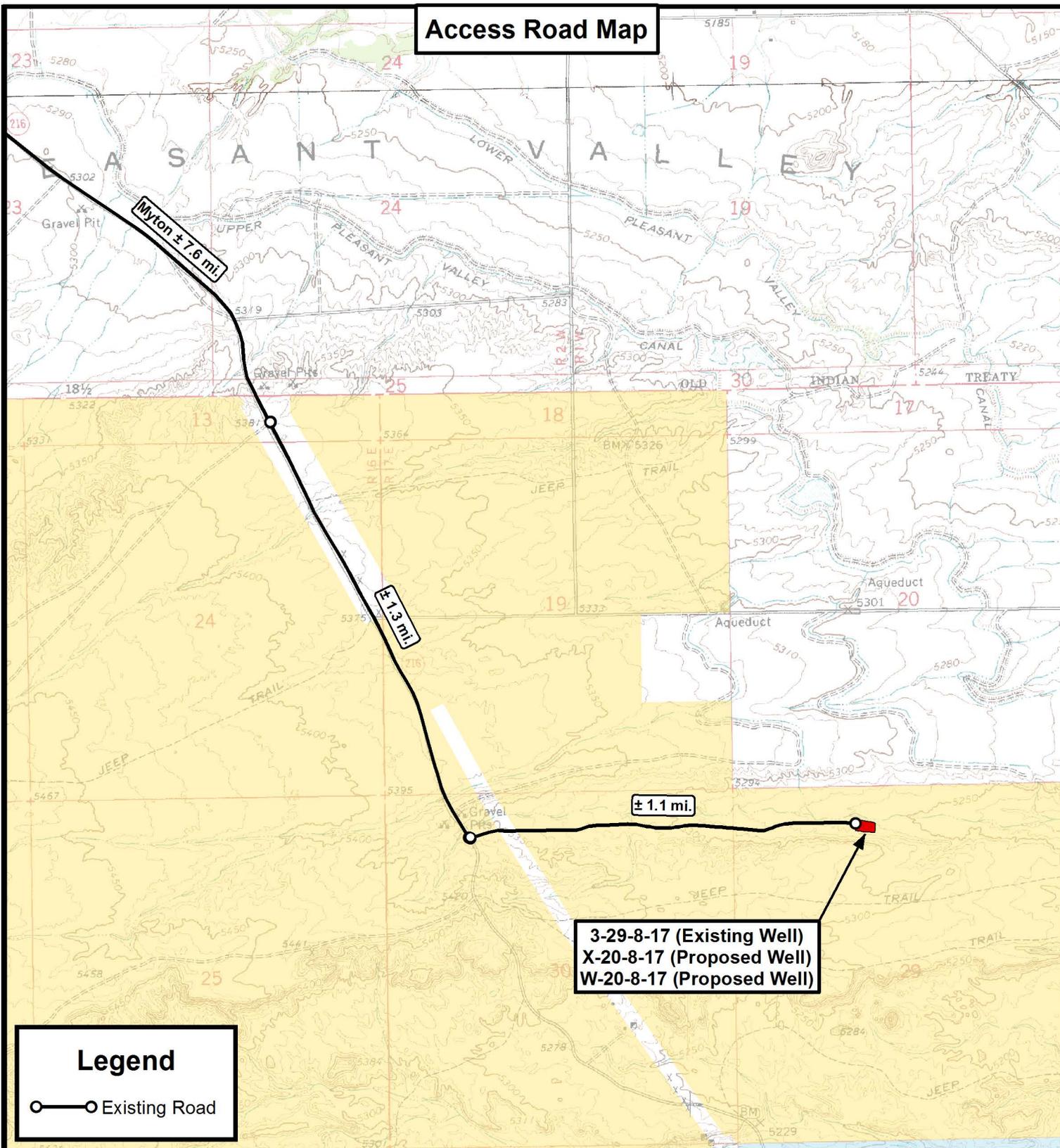
SEC. 29, T8S, R17E, S.L.B.&M. Duchesne County, UT.

DRAWN BY:	D.C.R.	REVISED:	02-18-12 D.C.R.	VERSION:	
DATE:	09-28-2011				<b>V1</b>
SCALE:	1:100,000				

**TOPOGRAPHIC MAP**

SHEET  
**A**

**Access Road Map**



3-29-8-17 (Existing Well)  
 X-20-8-17 (Proposed Well)  
 W-20-8-17 (Proposed Well)

**Legend**

○—○ Existing Road

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



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**NEWFIELD EXPLORATION COMPANY**

3-29-8-17 (Existing Well)  
 X-20-8-17 (Proposed Well)  
 W-20-8-17 (Proposed Well)

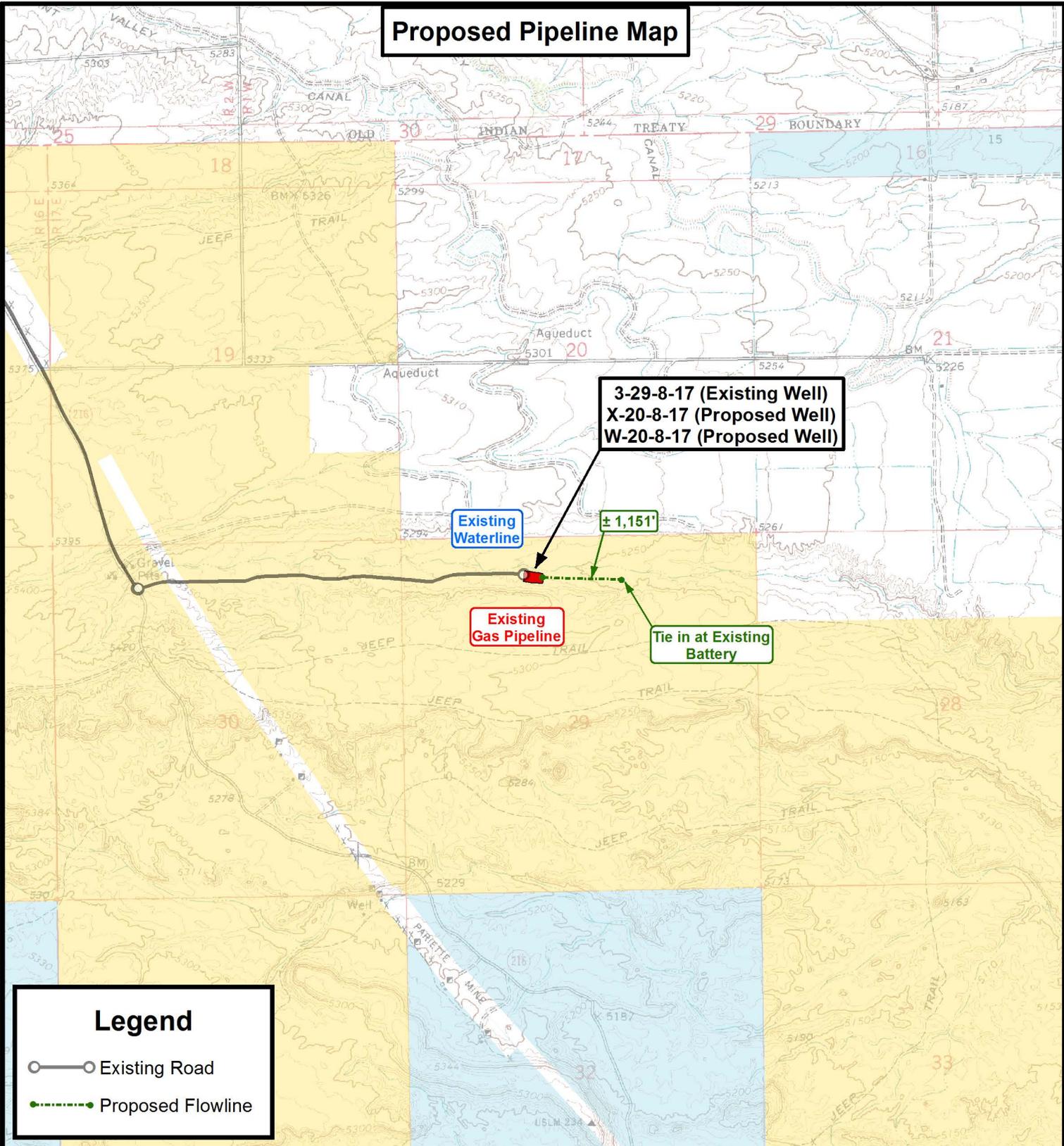
SEC. 29, T8S, R17E, S.L.B.&M. Duchesne County, UT.

DRAWN BY:	D.C.R.	REVISED:	02-18-12 D.C.R.	VERSION:
DATE:	09-28-2011			<b>V1</b>
SCALE:	1" = 2,000'			

**TOPOGRAPHIC MAP**

SHEET **B**

**Proposed Pipeline Map**



**Legend**

- Existing Road
- Proposed Flowline

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DRAWN BY:	D.C.R.	REVISED:	02-18-12 D.C.R.
DATE:	09-28-2011	VERSION:	<b>V1</b>
SCALE:	1" = 2,000'		



**NEWFIELD EXPLORATION COMPANY**

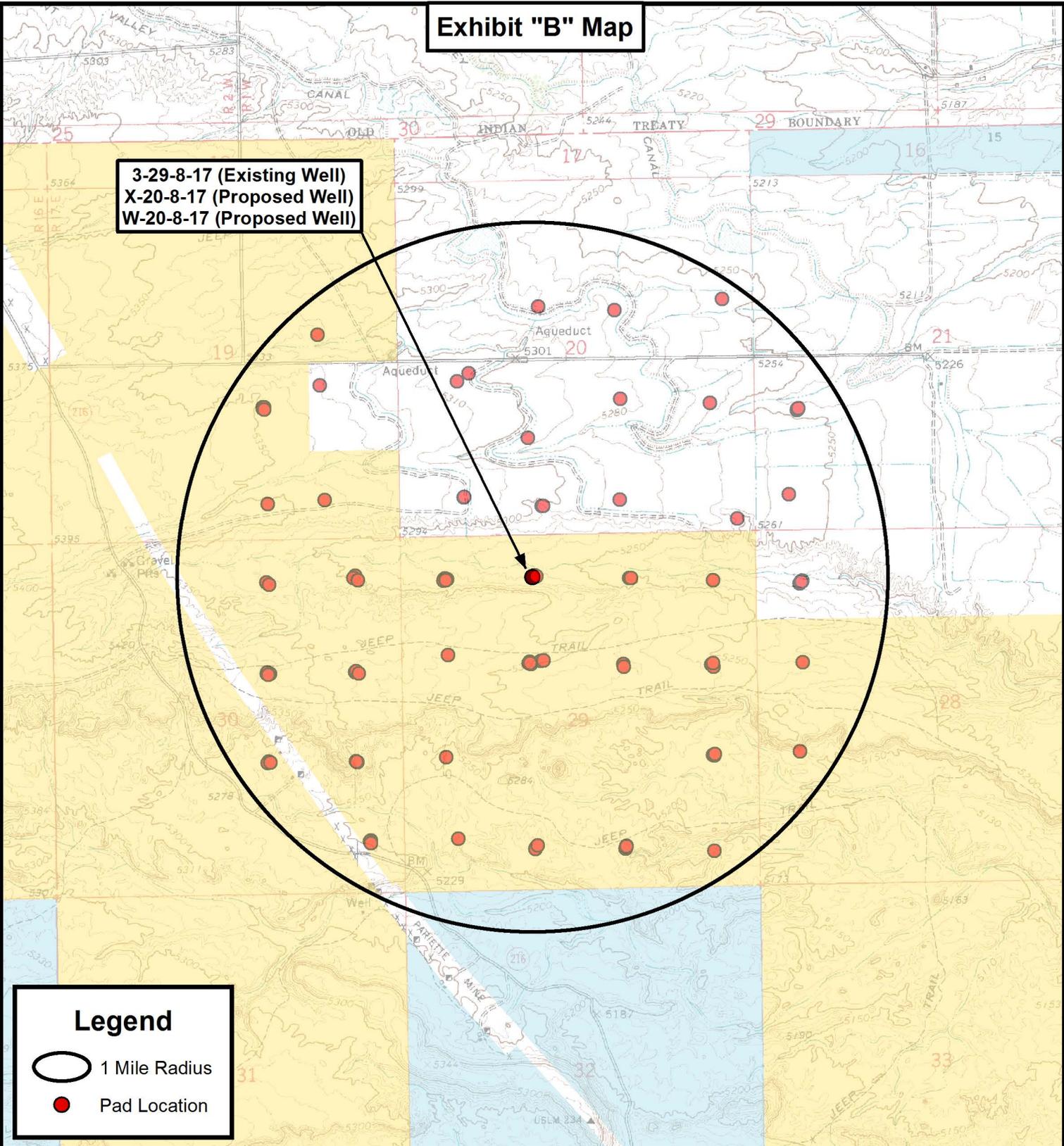
3-29-8-17 (Existing Well)  
X-20-8-17 (Proposed Well)  
W-20-8-17 (Proposed Well)

SEC. 29, T8S, R17E, S.L.B.&M. Duchesne County, UT.

<b>TOPOGRAPHIC MAP</b>	SHEET <b>C</b>
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**Exhibit "B" Map**

**3-29-8-17 (Existing Well)**  
**X-20-8-17 (Proposed Well)**  
**W-20-8-17 (Proposed Well)**



**Legend**

-  1 Mile Radius
-  Pad Location

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**NEWFIELD EXPLORATION COMPANY**

3-29-8-17 (Existing Well)  
 X-20-8-17 (Proposed Well)  
 W-20-8-17 (Proposed Well)

SEC. 29, T8S, R17E, S.L.B.&M. Duchesne County, UT.

DRAWN BY:	D.C.R.	REVISED:	02-18-12 D.C.R.	VERSION:
DATE:	09-28-2011			<b>V1</b>
SCALE:	1" = 2,000'			

**TOPOGRAPHIC MAP**

SHEET **D**



# **NEWFIELD EXPLORATION**

**USGS Myton SW (UT)  
SECTION 29 T8S, R17E  
W-20-8-17**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**05 January, 2012**





**Payzone Directional**  
Planning Report



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well W-20-8-17
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	W-20-8-17 @ 5280.0ft (Newfield Rig)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	W-20-8-17 @ 5280.0ft (Newfield Rig)
<b>Site:</b>	SECTION 29 T8S, R17E	<b>North Reference:</b>	Grid
<b>Well:</b>	W-20-8-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

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

<b>Site</b>	SECTION 29 T8S, R17E, T8S R17E				
<b>Site Position:</b>		<b>Northing:</b>	7,204,529.47 ft	<b>Latitude:</b>	40° 5' 20.491 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,051,571.00 ft	<b>Longitude:</b>	110° 1' 49.208 W
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"	<b>Grid Convergence:</b>	0.94 °

<b>Well</b>	W-20-8-17, SHL LAT: 40 05 40.35 LONG: -110 01 57.53					
<b>Well Position</b>	<b>+N/-S</b>	1,998.5 ft	<b>Northing:</b>	7,206,527.97 ft	<b>Latitude:</b>	40° 5' 40.350 N
	<b>+E/-W</b>	-679.6 ft	<b>Easting:</b>	2,050,891.38 ft	<b>Longitude:</b>	110° 1' 57.530 W
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	5,280.0 ft	<b>Ground Level:</b>	5,268.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	1/5/2012	11.24	65.83	52,248

<b>Design</b>	Design #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	5,350.0	0.0	0.0	49.77

<b>Plan Sections</b>										
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	
1,356.5	11.35	49.77	1,351.6	48.2	57.0	1.50	1.50	0.00	49.77	
5,434.7	11.35	49.77	5,350.0	566.4	669.7	0.00	0.00	0.00	0.00	W-20-8-17 TGT
6,709.6	11.35	49.77	6,600.0	728.5	861.2	0.00	0.00	0.00	0.00	



**Payzone Directional**  
Planning Report



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well W-20-8-17
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	W-20-8-17 @ 5280.0ft (Newfield Rig)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	W-20-8-17 @ 5280.0ft (Newfield Rig)
<b>Site:</b>	SECTION 29 T8S, R17E	<b>North Reference:</b>	Grid
<b>Well:</b>	W-20-8-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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	49.77	700.0	0.8	1.0	1.3	1.50	1.50	0.00
800.0	3.00	49.77	799.9	3.4	4.0	5.2	1.50	1.50	0.00
900.0	4.50	49.77	899.7	7.6	9.0	11.8	1.50	1.50	0.00
1,000.0	6.00	49.77	999.3	13.5	16.0	20.9	1.50	1.50	0.00
1,100.0	7.50	49.77	1,098.6	21.1	24.9	32.7	1.50	1.50	0.00
1,200.0	9.00	49.77	1,197.5	30.4	35.9	47.0	1.50	1.50	0.00
1,300.0	10.50	49.77	1,296.1	41.3	48.8	64.0	1.50	1.50	0.00
1,356.5	11.35	49.77	1,351.6	48.2	57.0	74.7	1.50	1.50	0.00
1,400.0	11.35	49.77	1,394.2	53.7	63.5	83.2	0.00	0.00	0.00
1,500.0	11.35	49.77	1,492.3	66.5	78.6	102.9	0.00	0.00	0.00
1,600.0	11.35	49.77	1,590.3	79.2	93.6	122.6	0.00	0.00	0.00
1,700.0	11.35	49.77	1,688.3	91.9	108.6	142.3	0.00	0.00	0.00
1,800.0	11.35	49.77	1,786.4	104.6	123.6	161.9	0.00	0.00	0.00
1,900.0	11.35	49.77	1,884.4	117.3	138.7	181.6	0.00	0.00	0.00
2,000.0	11.35	49.77	1,982.5	130.0	153.7	201.3	0.00	0.00	0.00
2,100.0	11.35	49.77	2,080.5	142.7	168.7	221.0	0.00	0.00	0.00
2,200.0	11.35	49.77	2,178.6	155.4	183.7	240.6	0.00	0.00	0.00
2,300.0	11.35	49.77	2,276.6	168.1	198.7	260.3	0.00	0.00	0.00
2,400.0	11.35	49.77	2,374.7	180.8	213.8	280.0	0.00	0.00	0.00
2,500.0	11.35	49.77	2,472.7	193.5	228.8	299.7	0.00	0.00	0.00
2,600.0	11.35	49.77	2,570.8	206.2	243.8	319.3	0.00	0.00	0.00
2,700.0	11.35	49.77	2,668.8	218.9	258.8	339.0	0.00	0.00	0.00
2,800.0	11.35	49.77	2,766.8	231.7	273.9	358.7	0.00	0.00	0.00
2,900.0	11.35	49.77	2,864.9	244.4	288.9	378.4	0.00	0.00	0.00
3,000.0	11.35	49.77	2,962.9	257.1	303.9	398.0	0.00	0.00	0.00
3,100.0	11.35	49.77	3,061.0	269.8	318.9	417.7	0.00	0.00	0.00
3,200.0	11.35	49.77	3,159.0	282.5	334.0	437.4	0.00	0.00	0.00
3,300.0	11.35	49.77	3,257.1	295.2	349.0	457.1	0.00	0.00	0.00
3,400.0	11.35	49.77	3,355.1	307.9	364.0	476.8	0.00	0.00	0.00
3,500.0	11.35	49.77	3,453.2	320.6	379.0	496.4	0.00	0.00	0.00
3,600.0	11.35	49.77	3,551.2	333.3	394.0	516.1	0.00	0.00	0.00
3,700.0	11.35	49.77	3,649.3	346.0	409.1	535.8	0.00	0.00	0.00
3,800.0	11.35	49.77	3,747.3	358.7	424.1	555.5	0.00	0.00	0.00
3,900.0	11.35	49.77	3,845.3	371.4	439.1	575.1	0.00	0.00	0.00
4,000.0	11.35	49.77	3,943.4	384.1	454.1	594.8	0.00	0.00	0.00
4,100.0	11.35	49.77	4,041.4	396.8	469.2	614.5	0.00	0.00	0.00
4,200.0	11.35	49.77	4,139.5	409.6	484.2	634.2	0.00	0.00	0.00
4,300.0	11.35	49.77	4,237.5	422.3	499.2	653.8	0.00	0.00	0.00
4,400.0	11.35	49.77	4,335.6	435.0	514.2	673.5	0.00	0.00	0.00
4,500.0	11.35	49.77	4,433.6	447.7	529.3	693.2	0.00	0.00	0.00
4,600.0	11.35	49.77	4,531.7	460.4	544.3	712.9	0.00	0.00	0.00
4,700.0	11.35	49.77	4,629.7	473.1	559.3	732.5	0.00	0.00	0.00
4,800.0	11.35	49.77	4,727.7	485.8	574.3	752.2	0.00	0.00	0.00
4,900.0	11.35	49.77	4,825.8	498.5	589.3	771.9	0.00	0.00	0.00
5,000.0	11.35	49.77	4,923.8	511.2	604.4	791.6	0.00	0.00	0.00
5,100.0	11.35	49.77	5,021.9	523.9	619.4	811.3	0.00	0.00	0.00
5,200.0	11.35	49.77	5,119.9	536.6	634.4	830.9	0.00	0.00	0.00



## Payzone Directional Planning Report

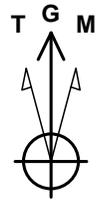


<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well W-20-8-17
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	W-20-8-17 @ 5280.0ft (Newfield Rig)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	W-20-8-17 @ 5280.0ft (Newfield Rig)
<b>Site:</b>	SECTION 29 T8S, R17E	<b>North Reference:</b>	Grid
<b>Well:</b>	W-20-8-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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	11.35	49.77	5,218.0	549.3	649.4	850.6	0.00	0.00	0.00
5,400.0	11.35	49.77	5,316.0	562.0	664.5	870.3	0.00	0.00	0.00
5,434.7	11.35	49.77	5,350.0	566.4	669.7	877.1	0.00	0.00	0.00
5,500.0	11.35	49.77	5,414.1	574.7	679.5	890.0	0.00	0.00	0.00
5,600.0	11.35	49.77	5,512.1	587.5	694.5	909.6	0.00	0.00	0.00
5,700.0	11.35	49.77	5,610.2	600.2	709.5	929.3	0.00	0.00	0.00
5,800.0	11.35	49.77	5,708.2	612.9	724.5	949.0	0.00	0.00	0.00
5,900.0	11.35	49.77	5,806.2	625.6	739.6	968.7	0.00	0.00	0.00
6,000.0	11.35	49.77	5,904.3	638.3	754.6	988.3	0.00	0.00	0.00
6,100.0	11.35	49.77	6,002.3	651.0	769.6	1,008.0	0.00	0.00	0.00
6,200.0	11.35	49.77	6,100.4	663.7	784.6	1,027.7	0.00	0.00	0.00
6,300.0	11.35	49.77	6,198.4	676.4	799.7	1,047.4	0.00	0.00	0.00
6,400.0	11.35	49.77	6,296.5	689.1	814.7	1,067.0	0.00	0.00	0.00
6,500.0	11.35	49.77	6,394.5	701.8	829.7	1,086.7	0.00	0.00	0.00
6,600.0	11.35	49.77	6,492.6	714.5	844.7	1,106.4	0.00	0.00	0.00
6,709.6	11.35	49.77	6,600.0	728.5	861.2	1,128.0	0.00	0.00	0.00



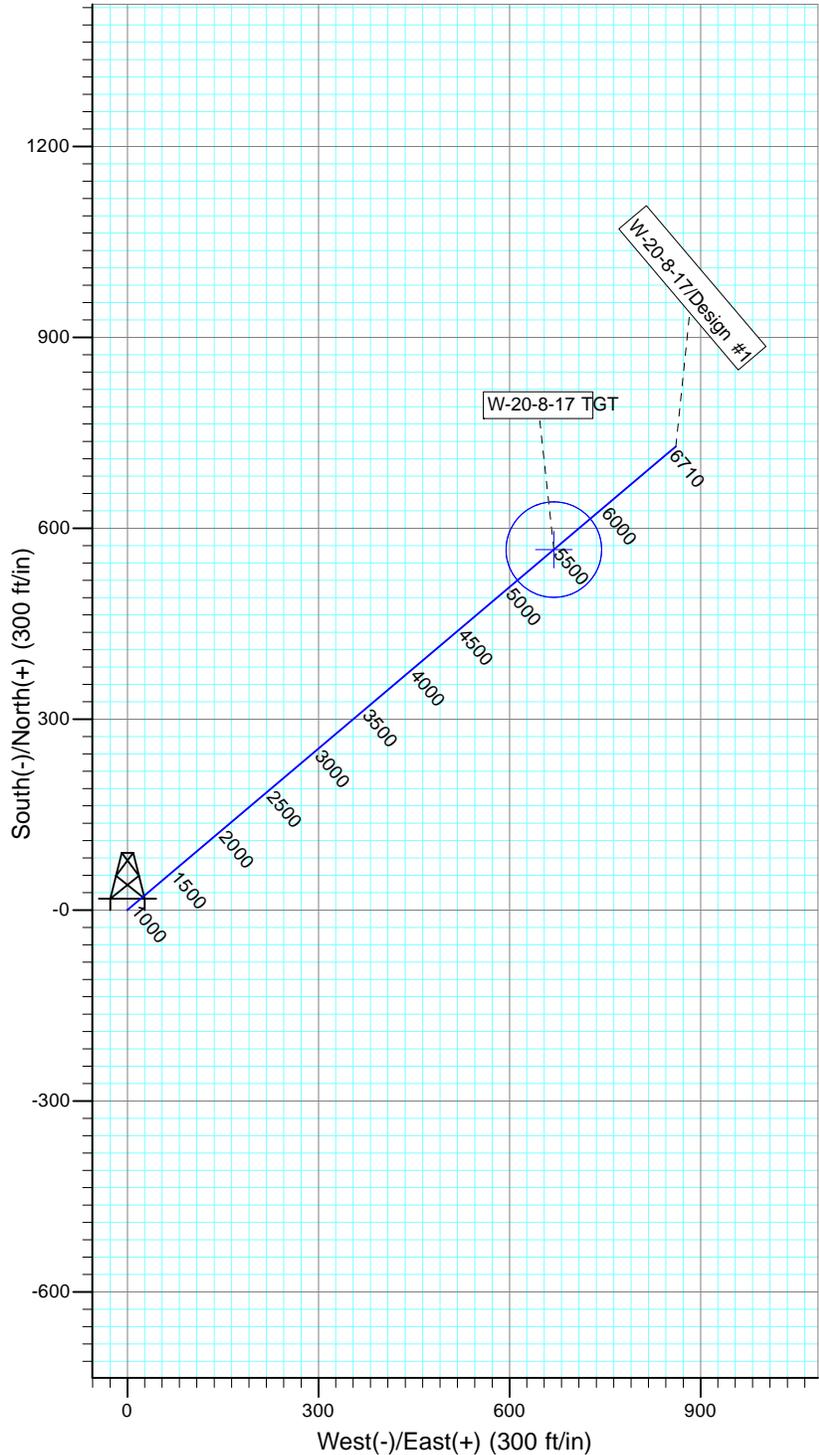
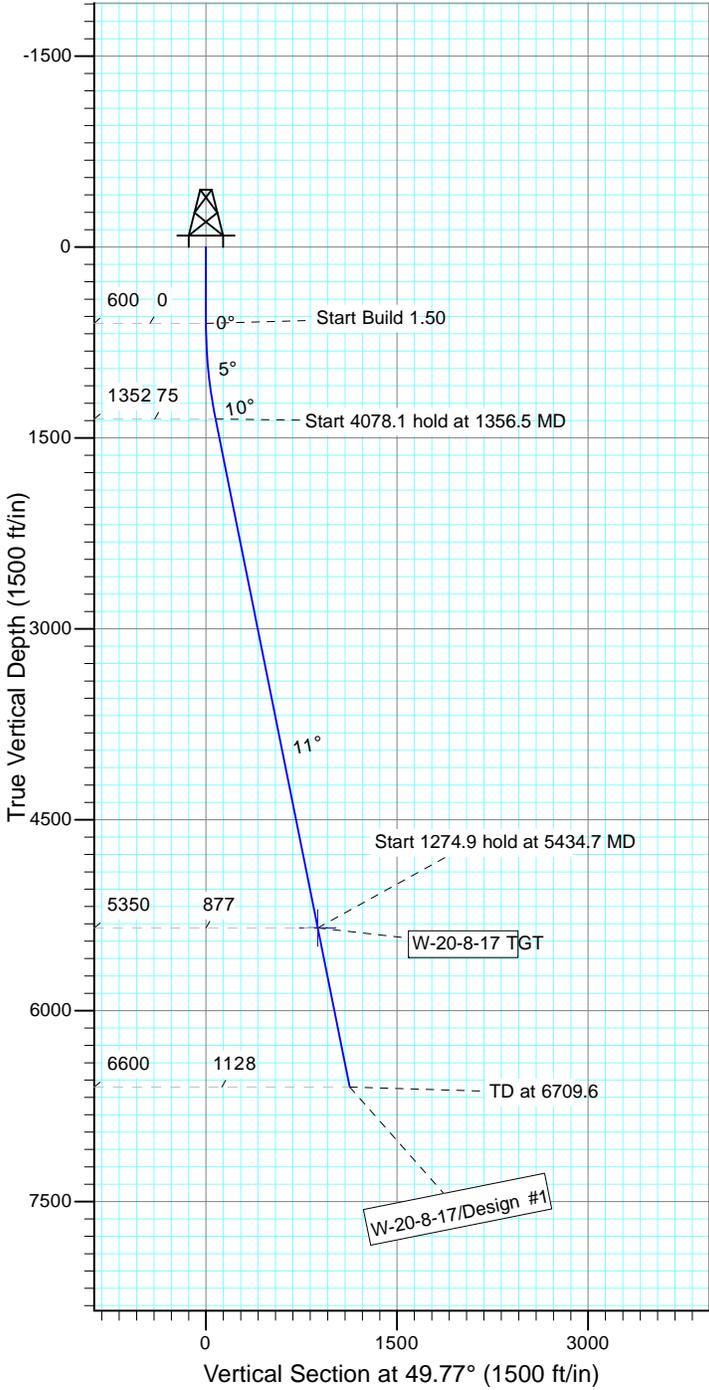
Project: USGS Myton SW (UT)  
 Site: SECTION 29 T8S, R17E  
 Well: W-20-8-17  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to Grid North  
 True North: -0.94°  
 Magnetic North: 10.30°

Magnetic Field  
 Strength: 52248.2snT  
 Dip Angle: 65.83°  
 Date: 1/5/2012  
 Model: IGRF2010

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



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
W-20-8-17 TGT	5350.0	566.4	669.7	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1356.5	11.35	49.77	1351.6	48.2	57.0	1.50	49.77	74.7	
4	5434.7	11.35	49.77	5350.0	566.4	669.7	0.00	0.00	877.1	W-20-8-17 TGT
5	6709.6	11.35	49.77	6600.0	728.5	861.2	0.00	0.00	1128.0	



**NEWFIELD PRODUCTION COMPANY  
GMBU W-20-8-17  
AT SURFACE: NE/NW SECTION 29, 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 Production Company well location site GMBU W-20-8-17 located in the NE 1/4 NW 1/4 Section 29, T8S R17E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 – 1.4 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed in a southeasterly direction – 7.5 miles  $\pm$  to it's junction with an existing road to the east; ; proceed in a easterly direction – 1.1 miles  $\pm$  to it's junction with the beginning of the access road the existing 3-29-8-17 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**

There is no proposed access road for this location. The proposed well will be drilled directionally off of the existing 3-29-8-17 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.

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**

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

9. **WELL SITE LAYOUT**

See attached Location Layout Sheet.

**Fencing Requirements**

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

- a) A 39-inch net wire shall be used with at least one strand of barbed wire on top of the net.
- b) The net wire shall be no more than two (2) inches above the ground. The barbed wire shall be three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.
- c) Corner posts shall be centered and/or braced in such a manner to keep tight at all times
- d) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.
- e) All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

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

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

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

- a) Producing Location

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

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

- b) Dry Hole Abandoned Location

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

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

12. **OTHER ADDITIONAL INFORMATION**

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. State of Utah Antiquities Project Permit # U-12-MQ-0213b,p 4/3/12, prepared by Montgomery Archaeological Consultants. Paleontological Resource Survey prepared by, Wade Miller, 11/18/11. See attached report cover pages, Exhibit "D".

### **Surface Flow Line**

Newfield requests 1,151' of surface flow line be granted. The Surface Flow Line will consist of up to a 14" bundled pipe consisting of 2-2" poly glycol lines and 1-3" production line. For all new wells, Newfield. **Refer to Topographic Map "C"** for the proposed location of the proposed flow line. Flow lines will be tan and will be constructed using the following procedures:

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

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

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

### **Water Disposal**

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

### **Additional Surface Stipulations**

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

### **Details of the On-Site Inspection**

The proposed GMBU W-20-8-17 was on-sited on 3/14/12. The following were present; Corie Miller (Newfield Production), Janna Simonsen (Bureau of Land Management), Aaron Roe (Bureau of Land Management), and Suzanne Grayson (Bureau of Land Management).

### **Hazardous Material Declaration**

Newfield Production Company guarantees that during the drilling and completion of the GMBU W-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 W-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.

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

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

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

Representative

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

Certification

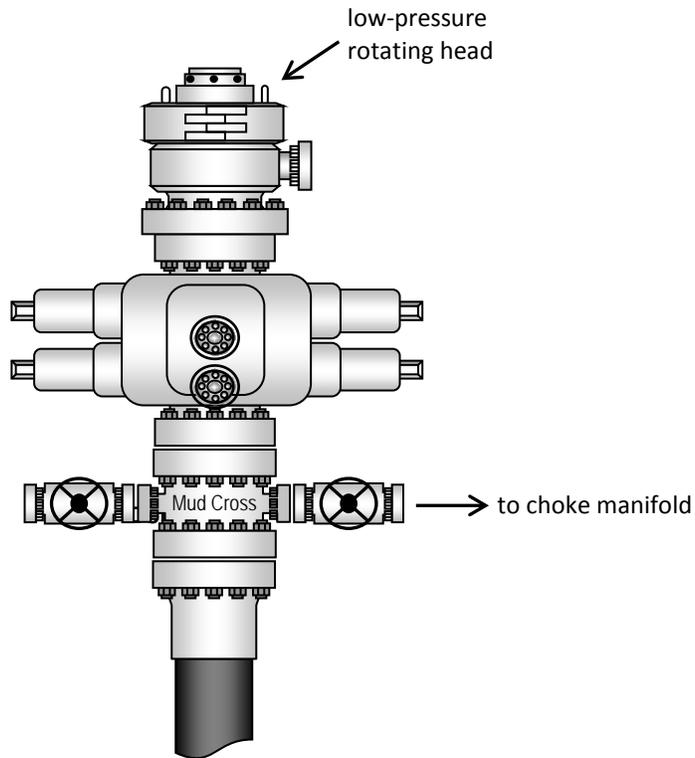
Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #W-20-8-17, Section 29, Township 8S, Range 17E: Lease UTU-76956 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Federal Bond #WYB000493.

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

3/27/12  
Date

\_\_\_\_\_  
Mandie Crozier  
Regulatory Analyst  
Newfield Production Company

### Typical 2M BOP stack configuration



2M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

# NEWFIELD EXPLORATION COMPANY

## WELL PAD INTERFERENCE PLAT

3-29-8-17 (Existing Well)

X-20-8-17 (Proposed Well)

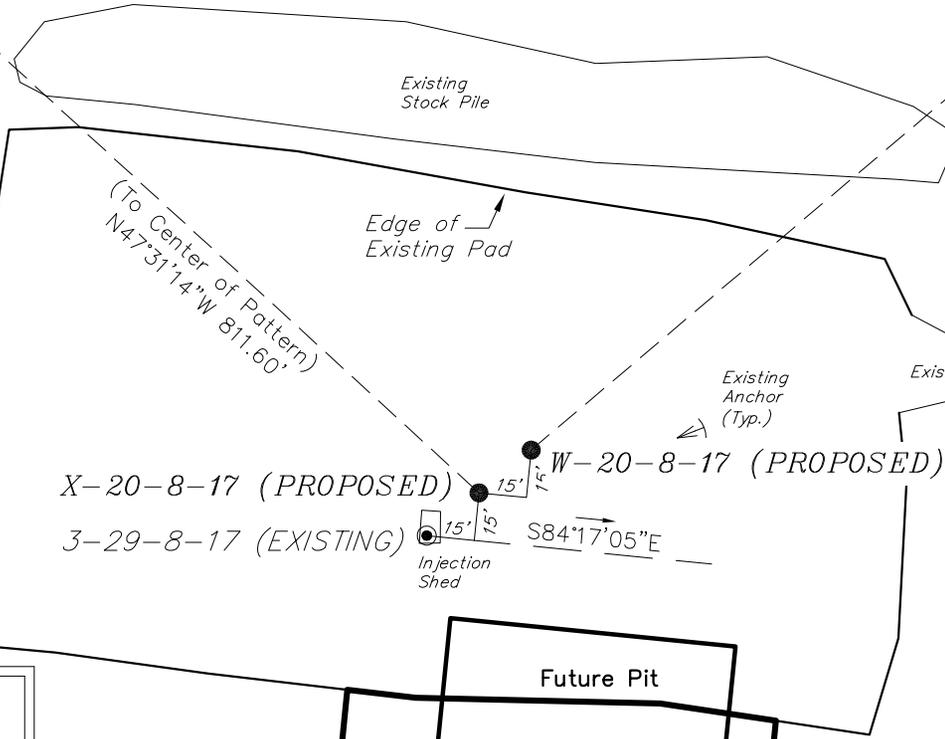
W-20-8-17 (Proposed Well)

Pad Location: NENW Section 29, T8S, R17E, S.L.B.&M.



(To Bottom Hole)  
N47°31'14"W 1042.15'

(To Bottom Hole)  
N49°46'24"E 1128.00'  
(To Center of Pattern)  
N49°46'24"E 877.10'



### CENTER OF PATTERN FOOTAGES

X-20-8-17 (PROPOSED)  
55' FNL & 1410' FWL  
W-20-8-17 (PROPOSED)  
45' FNL & 2695' FWL

### TOP HOLE FOOTAGES

X-20-8-17 (PROPOSED)  
613' FNL & 1999' FWL  
W-20-8-17 (PROPOSED)  
600' FNL & 2016' FWL

### BOTTOM HOLE FOOTAGES

X-20-8-17 (PROPOSED)  
104' FSL & 1242' FWL  
W-20-8-17 (PROPOSED)  
114' FSL & 2414' FEL

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

WELL	NORTH	EAST
X-20-8-17	548'	-599'
W-20-8-17	566'	670'

### RELATIVE COORDINATES From Top Hole to Bottom Hole

WELL	NORTH	EAST
X-20-8-17	704'	-769'
W-20-8-17	728'	861'

**Note:**  
Bearings are based  
on GPS Observations.

### LATITUDE & LONGITUDE Surface position of Wells (NAD 83)

WELL	LATITUDE	LONGITUDE
3-29-8-17	40° 05' 40.09"	110° 01' 57.96"
X-20-8-17	40° 05' 40.22"	110° 01' 57.75"
W-20-8-17	40° 05' 40.35"	110° 01' 57.53"

SURVEYED BY: C.S.	DATE SURVEYED: 09-27-11	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 09-28-11	V1
SCALE: 1" = 60'	REVISED: R.V.C. 02-18-12	

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

# NEWFIELD EXPLORATION COMPANY

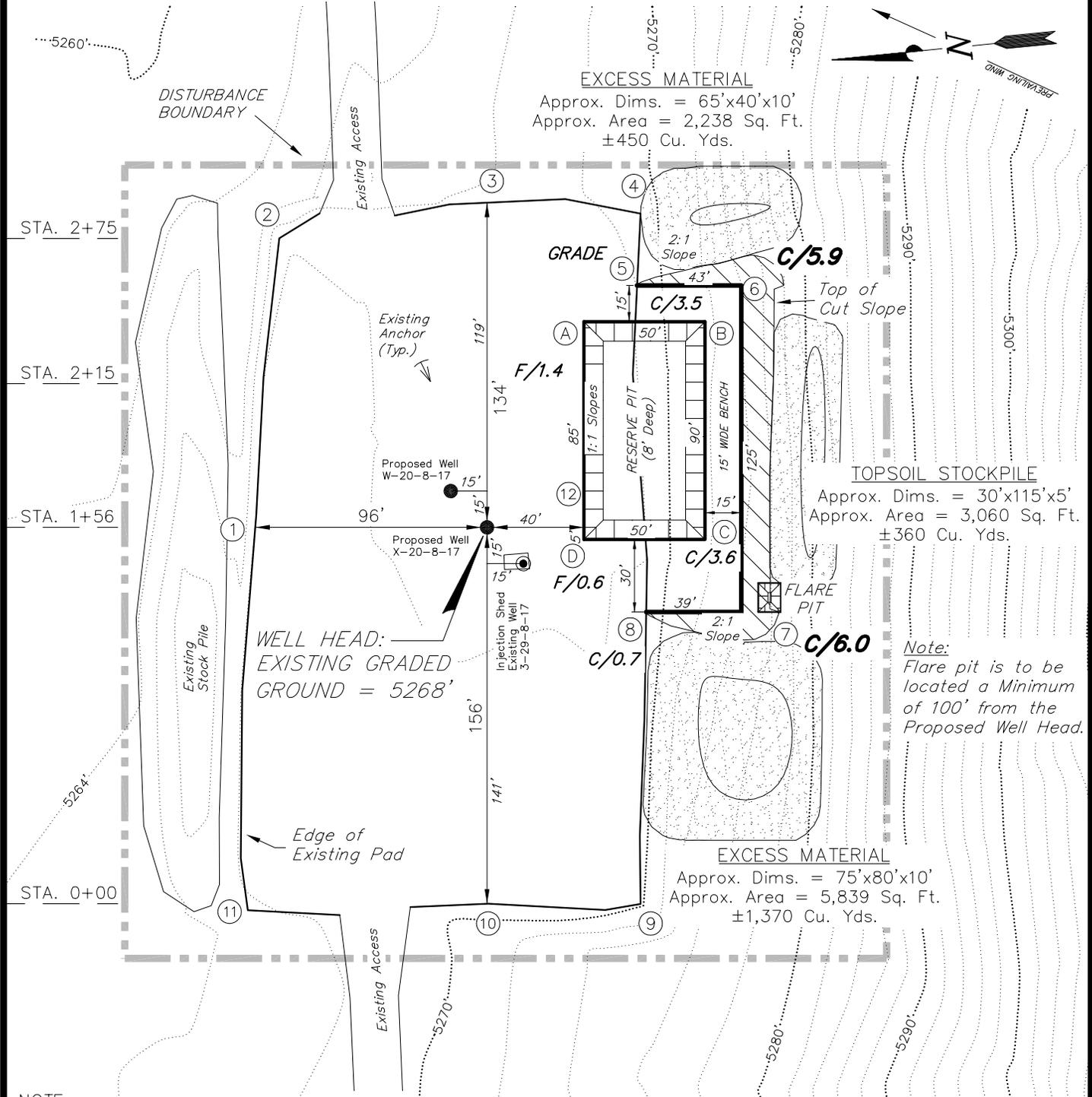
## LOCATION LAYOUT

3-29-8-17 (Existing Well)

X-20-8-17 (Proposed Well)

W-20-8-17 (Proposed Well)

Pad Location: NENW Section 29, T8S, R17E, S.L.B.&M.



NOTE:  
The topsoil & excess material areas are calculated as being mounds containing 2,170 cubic yards of dirt (a 10% fluff factor is included). The mound areas are calculated with push slopes of 1.5:1 & fall slopes of 1.5:1.

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

SURVEYED BY: C.S.	DATE SURVEYED: 09-27-11	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 09-28-11	V1
SCALE: 1" = 60'	REVISED: R.V.C. 02-18-12	

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

# NEWFIELD EXPLORATION COMPANY

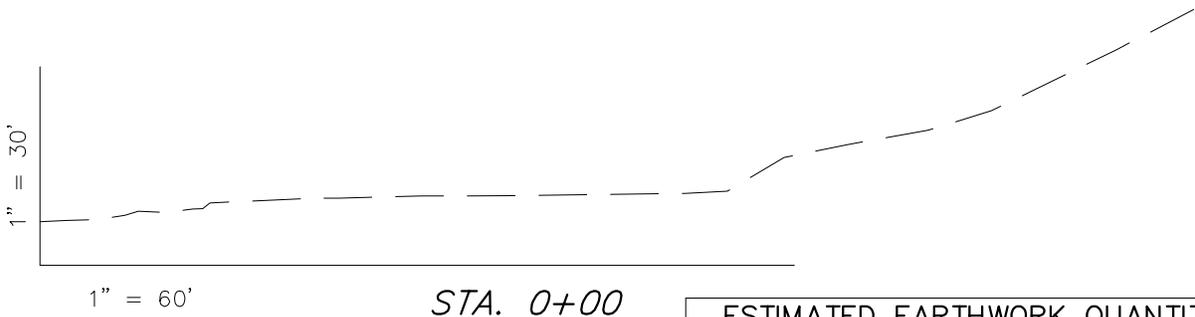
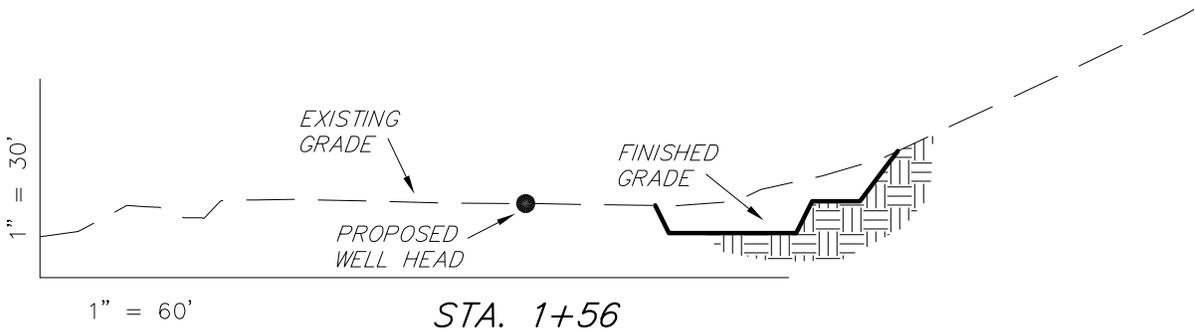
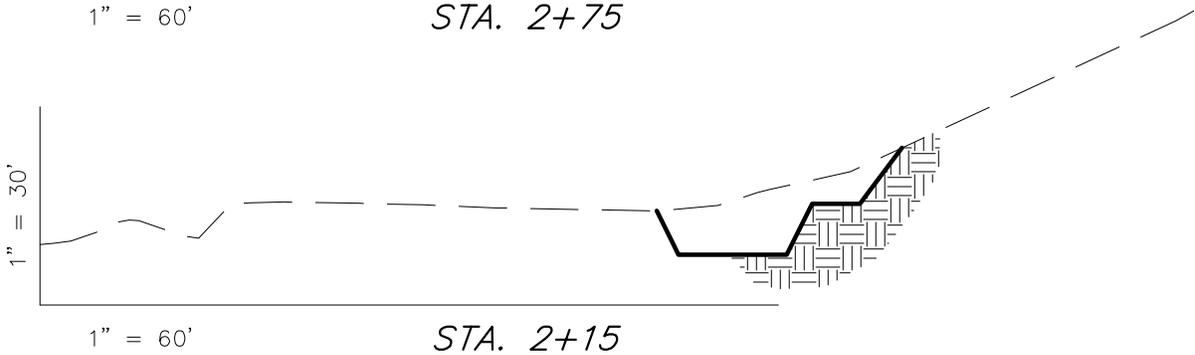
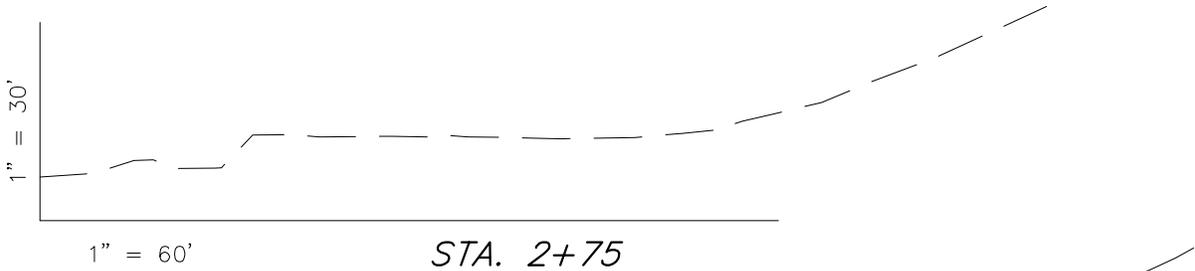
## CROSS SECTIONS

3-29-8-17 (Existing Well)

X-20-8-17 (Proposed Well)

W-20-8-17 (Proposed Well)

Pad Location: NENW Section 29, T8S, R17E, S.L.B.&M.



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

ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)				
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	680	60	Topsoil is not included in Pad Cut	620
PIT	1,030	0		1,030
TOTALS	1,710	60	320	1,650

SURVEYED BY: C.S.	DATE SURVEYED: 09-27-11	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 09-28-11	V1
SCALE: 1" = 60'	REVISED: R.V.C. 02-18-12	

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

(435) 781-2501

RECEIVED: April 04, 2012

# NEWFIELD EXPLORATION COMPANY

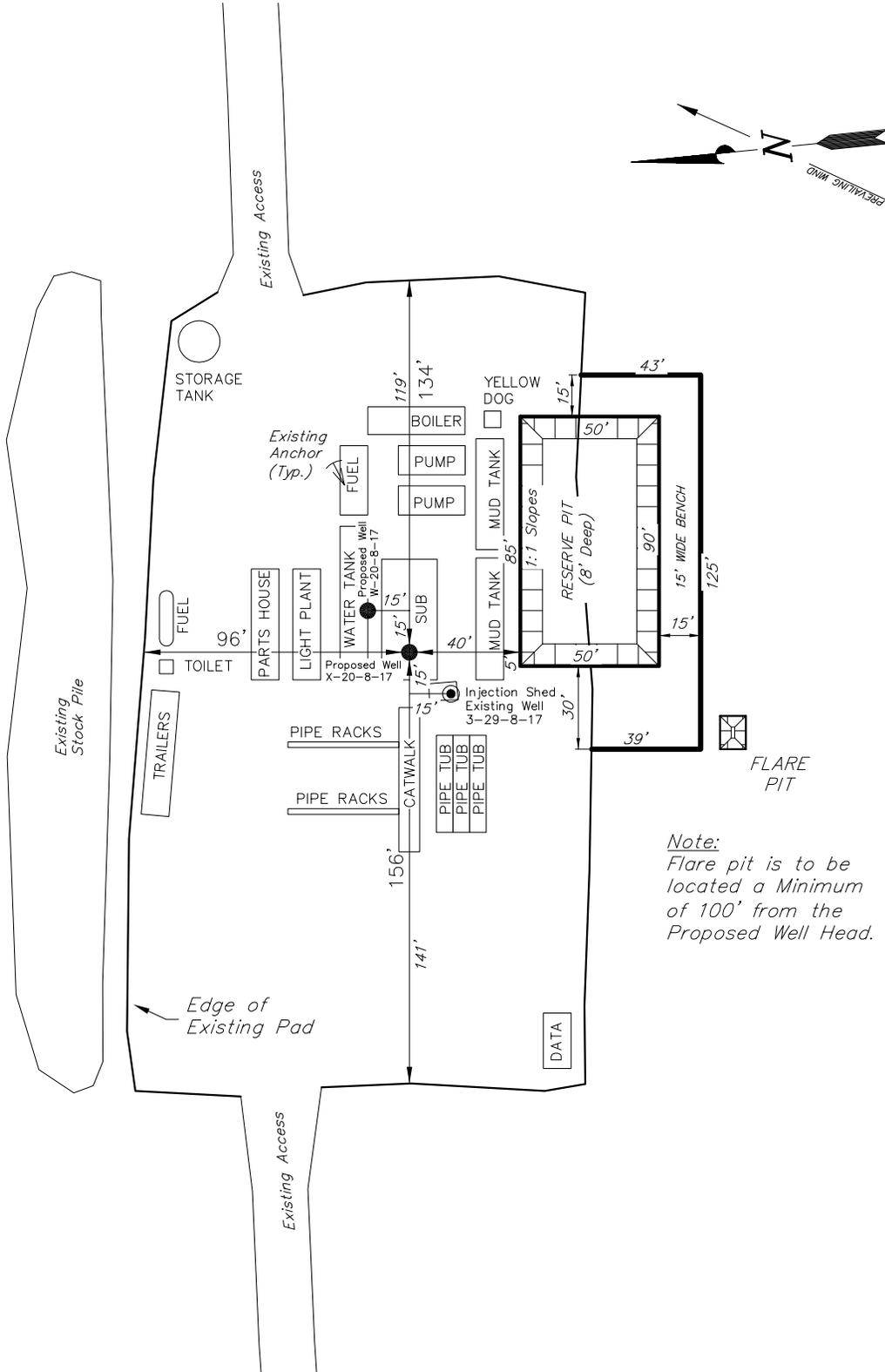
## TYPICAL RIG LAYOUT

3-29-8-17 (Existing Well)

X-20-8-17 (Proposed Well)

W-20-8-17 (Proposed Well)

Pad Location: NENW Section 29, T8S, R17E, S.L.B.&M.



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

SURVEYED BY: C.S.	DATE SURVEYED: 09-27-11	VERSION:	<p>Tri State Land Surveying, Inc. (435) 781-2501 180 NORTH VERNAL AVE. VERNAL, UTAH 84078</p>
DRAWN BY: F.T.M.	DATE DRAWN: 09-28-11	V1	
SCALE: 1" = 60'	REVISED: R.V.C. 02-18-12		



*VIA ELECTRONIC DELIVERY*

April 5, 2012

State of Utah, Division of Oil, Gas and Mining  
ATTN: Diana Mason  
P.O. Box 145801  
Salt Lake City, UT 84114-5801

RE: Directional Drilling  
**W-20-8-17**  
Greater Monument Butte (Green River) Unit

Surface Hole: T8S-R17E Section 29: NENW (UTU-76956)  
600' FNL 2016' FWL

At Target: T8S-R17E Section 20: SWSE (UTU-76954)  
114' FSL 2414' FEL

Duchesne County, Utah

Dear Ms. Mason:

Pursuant to the filing by Newfield Production Company (NPC) of an Application for Permit to Drill the above referenced well dated 4/4/2012, a copy of which is attached, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

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

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

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

Sincerely,  
Newfield Production Company

A handwritten signature in cursive script that reads "Leslie Burget".

Leslie Burget  
Land Associate

Form 3160-3  
(August 2007)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB No. 1004-0136  
Expires July 31, 2010**APPLICATION FOR PERMIT TO DRILL OR REENTER**

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU76956
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator NEWFIELD PRODUCTION COMPANY Contact: MANDIE CROZIER Email: mcrozier@newfield.com		7. If Unit or CA Agreement, Name and No. GREATER MONUMENT
3a. Address ROUTE #3 BOX 3630 MYTON, UT 84052		8. Lease Name and Well No. GMBU W-20-8-17
3b. Phone No. (include area code) Ph: 435-646-4825 Fx: 435-646-3031		9. API Well No.
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface NENW 600FNL 2016FWL At proposed prod. zone SWSE 114FSL 2414FEL		10. Field and Pool, or Exploratory MONUMENT BUTTE
14. Distance in miles and direction from nearest town or post office* 10.0		11. Sec., T., R., M., or Blk. and Survey or Area Sec 29 T8S R17E Mer SLB
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 114'	16. No. of Acres in Lease 600.00	12. County or Parish DUCHESNE
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 815'	19. Proposed Depth 6710 MD 6600 TVD	13. State UT
21. Elevations (Show whether DF, KB, RT, GL, etc.) 5268 GL	22. Approximate date work will start 07/31/2012	17. Spacing Unit dedicated to this well 20.00
		20. BLM/BIA Bond No. on file WYB000493
		23. Estimated duration 7 DAYS

## 24. Attachments

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

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

25. Signature (Electronic Submission)	Name (Printed/Typed) MANDIE CROZIER Ph: 435-646-4825	Date 04/04/2012
Title REGULATORY ANALYST		
Approved by (Signature)	Name (Printed/Typed)	Date
Title	Office	

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

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

**Additional Operator Remarks (see next page)**

**Electronic Submission #134746 verified by the BLM Well Information System  
For NEWFIELD PRODUCTION COMPANY, sent to the Vernal**

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

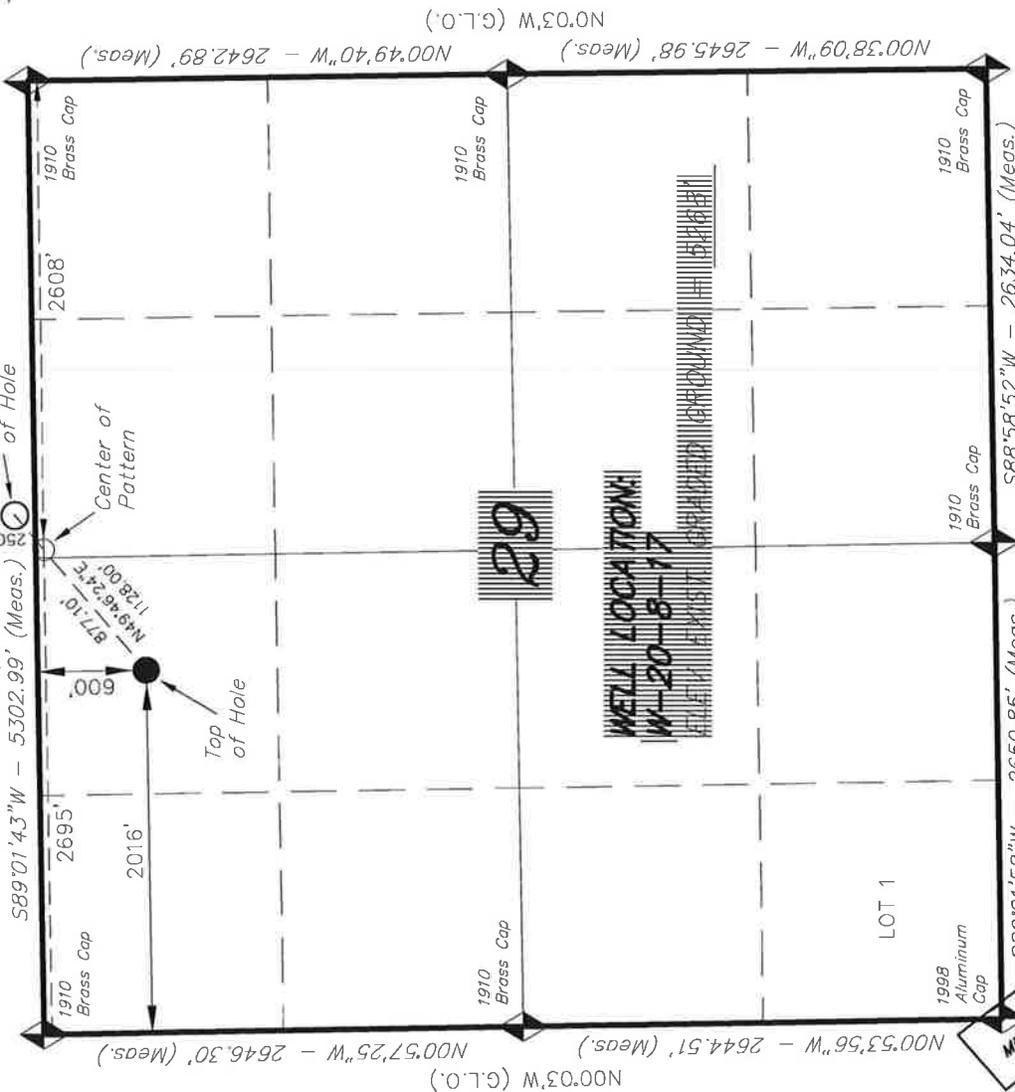
API Well Number: 43013513600000

**Additional Operator Remarks:**

SURFACE LEASE: UTU-76956  
BOTTOM HOLE LEASE: UTU-76954

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

S89°56'W - 80.08 (G.L.O.)  
 S89°01'43"W - 5302.99' (Meas.)

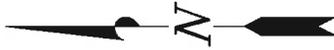
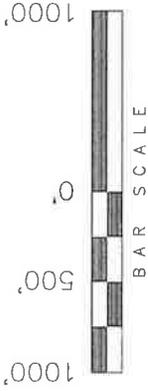


SECTION CORNERS LOCATED  
 BASIS OF ELEV; Elevations are based on an N.G.S. OPUS Correction. LOCATION: LAT. 40°04'09.56" LONG. 110°00'43.28" (Tristate Aluminum Cap) Elev. 5281.57'

**W-20-8-17**  
 (Surface Location) NAD 83  
 LATITUDE = 40° 05' 40.35"  
 LONGITUDE = 110° 01' 57.53"

**NEWFIELD EXPLORATION COMPANY**

WELL LOCATION, W-20-8-17, LOCATED AS SHOWN IN THE NE 1/4 NW 1/4 OF SECTION 29, 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.
3. The Center of Pattern footages are 45' FNL & 2695' FWL.

THIS IS TO CERTIFY THAT THE ABOVE SET WAS PREPARED FROM FIELD NOTES AND 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

02-18-12  
 STACY W.

REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 189377  
 STATE OF UTAH

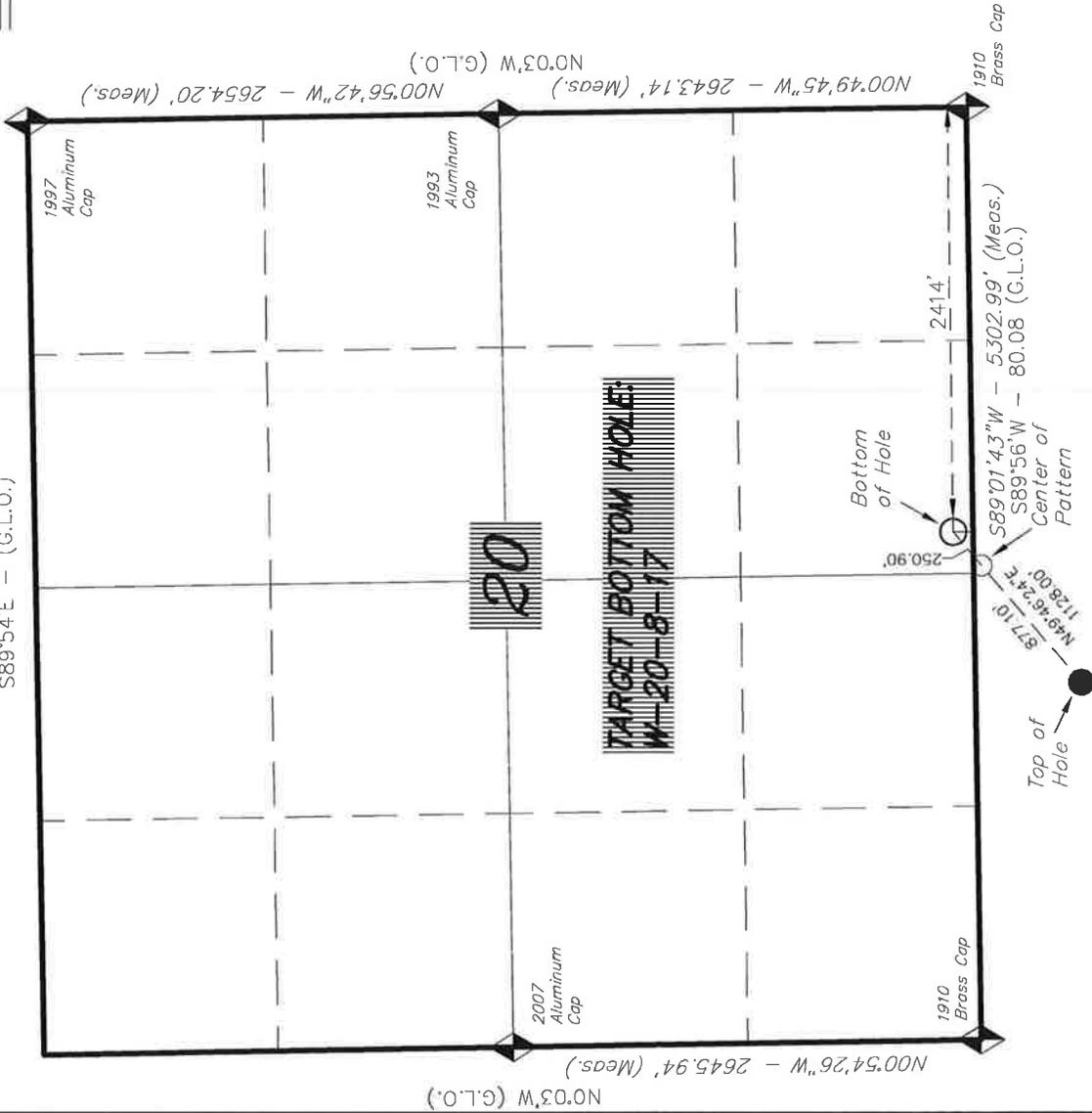
**TRI STATE LAND SURVEYING & CONSULTING**

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

DATE SURVEYED: 09-27-11	SURVEYED BY: S.H.	VERSION:
DATE DRAWN: 01-10-12	DRAWN BY: F.T.M.	V1
REVISED: 02-18-12 R.V.C.	SCALE: 1" = 1000'	

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

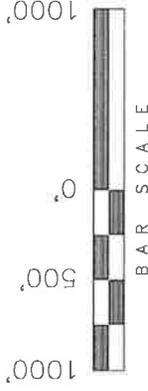
S89°54'E - (G.L.O.)



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' = SECTION CORNERS LOCATED

# NEWFIELD EXPLORATION COMPANY

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



**NOTES:**

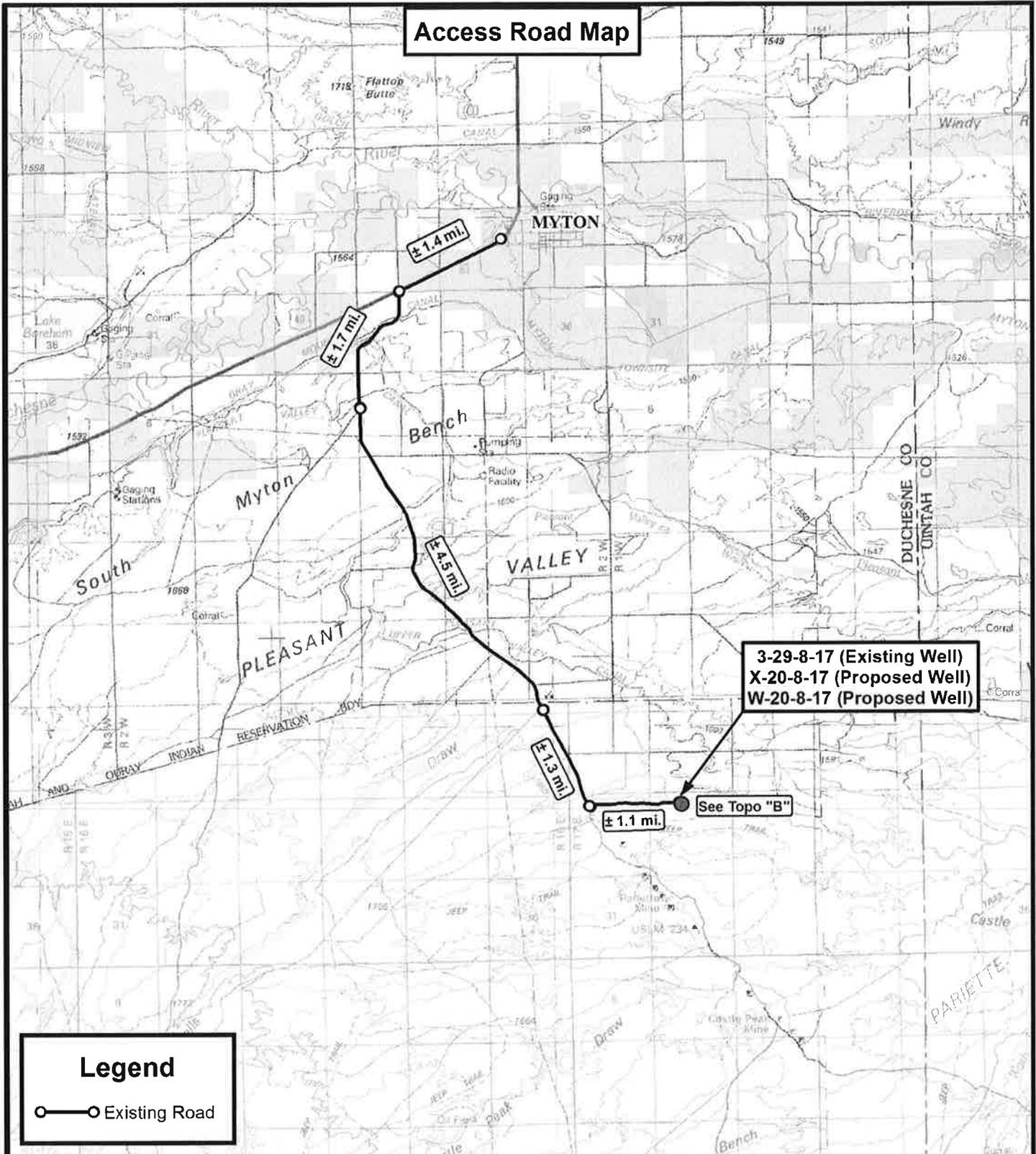
1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.
3. The Bottom of Hole footages are 114' FSL & 2414' FEL.

THIS IS TO CERTIFY THAT THE ABOVE 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. 15,189,377  
STATE OF UTAH  
02-18-12  
STACY W.

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

DATE SURVEYED: 09-27-11	SURVEYED BY: C.S.	VERSION:
DATE DRAWN: 01-10-12	DRAWN BY: F.T.M.	V1
REVISED: 02-18-12 R.V.C.	SCALE: 1" = 1000'	



**Legend**

○—○ Existing Road

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

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



**NEWFIELD EXPLORATION COMPANY**

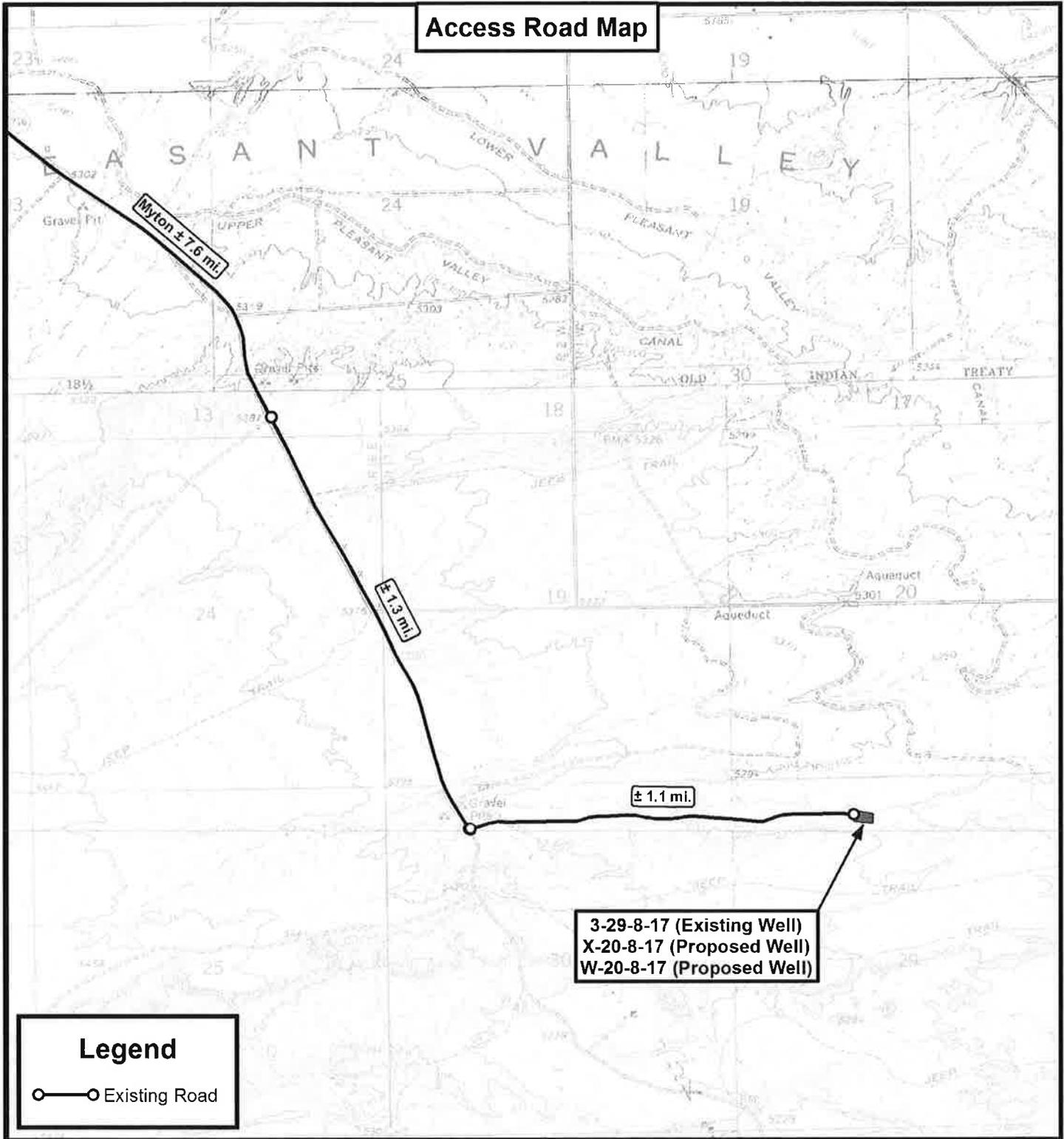
3-29-8-17 (Existing Well)  
 X-20-8-17 (Proposed Well)  
 W-20-8-17 (Proposed Well)

SEC. 29, T8S, R17E, S.L.B.&M. Duchesne County, UT.

DRAWN BY:	D.C.R.	REVISED:	02-18-12 D.C.R.	VERSION:
DATE:	09-28-2011			<b>V1</b>
SCALE:	1:100,000			

**TOPOGRAPHIC MAP**

SHEET **A**



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

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

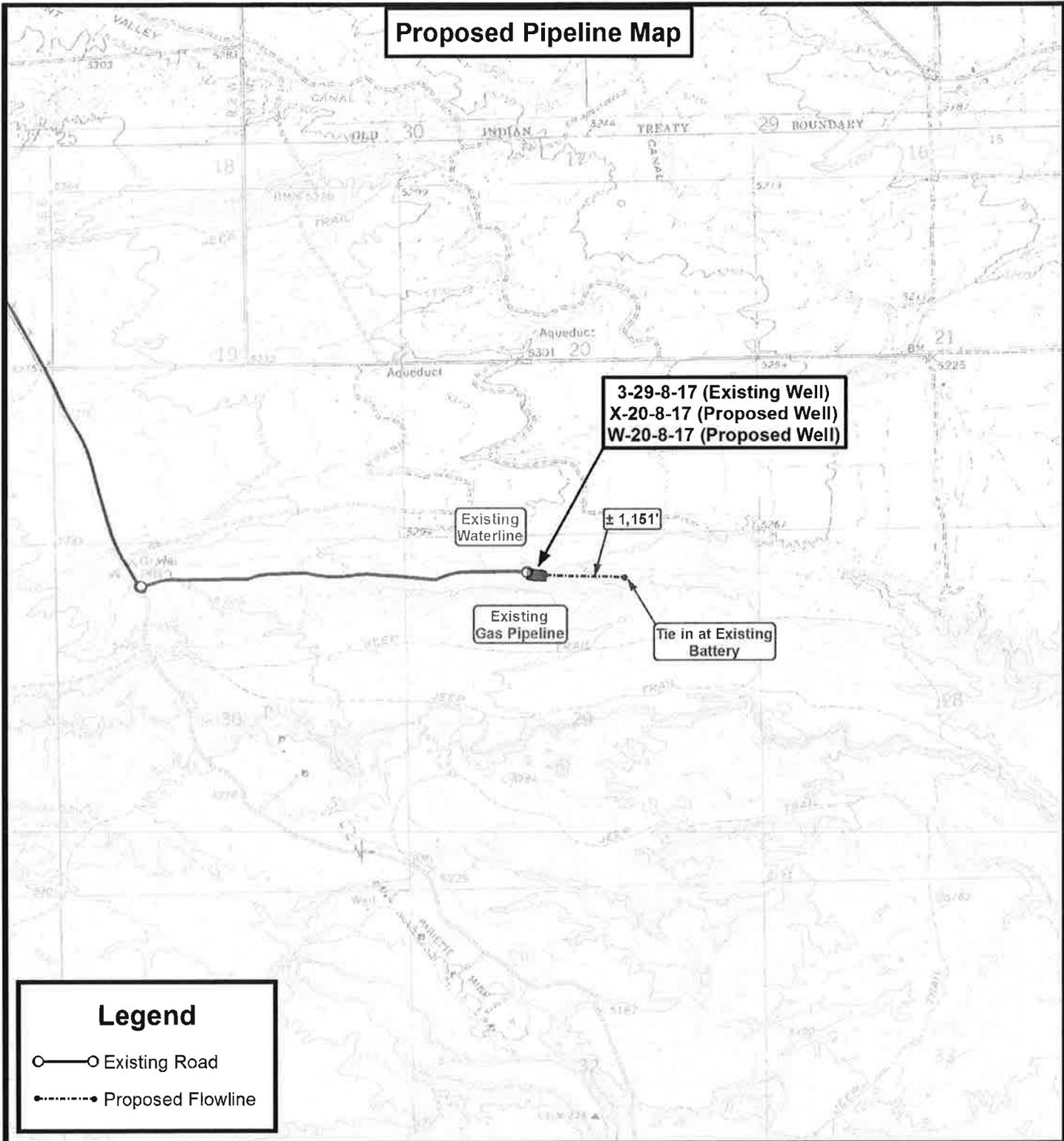


**NEWFIELD EXPLORATION COMPANY**  
 3-29-8-17 (Existing Well)  
 X-20-8-17 (Proposed Well)  
 W-20-8-17 (Proposed Well)  
 SEC. 29, T8S, R17E, S.L.B.&M. Duchesne County, UT.

DRAWN BY:	D.C.R.	REVISED:	02-18-12 D.C.R.	VERSION:
DATE:	09-28-2011			<b>V1</b>
SCALE:	1" = 2,000'			

<b>TOPOGRAPHIC MAP</b>	SHEET <b>B</b>
------------------------	-------------------

**Proposed Pipeline Map**



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

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



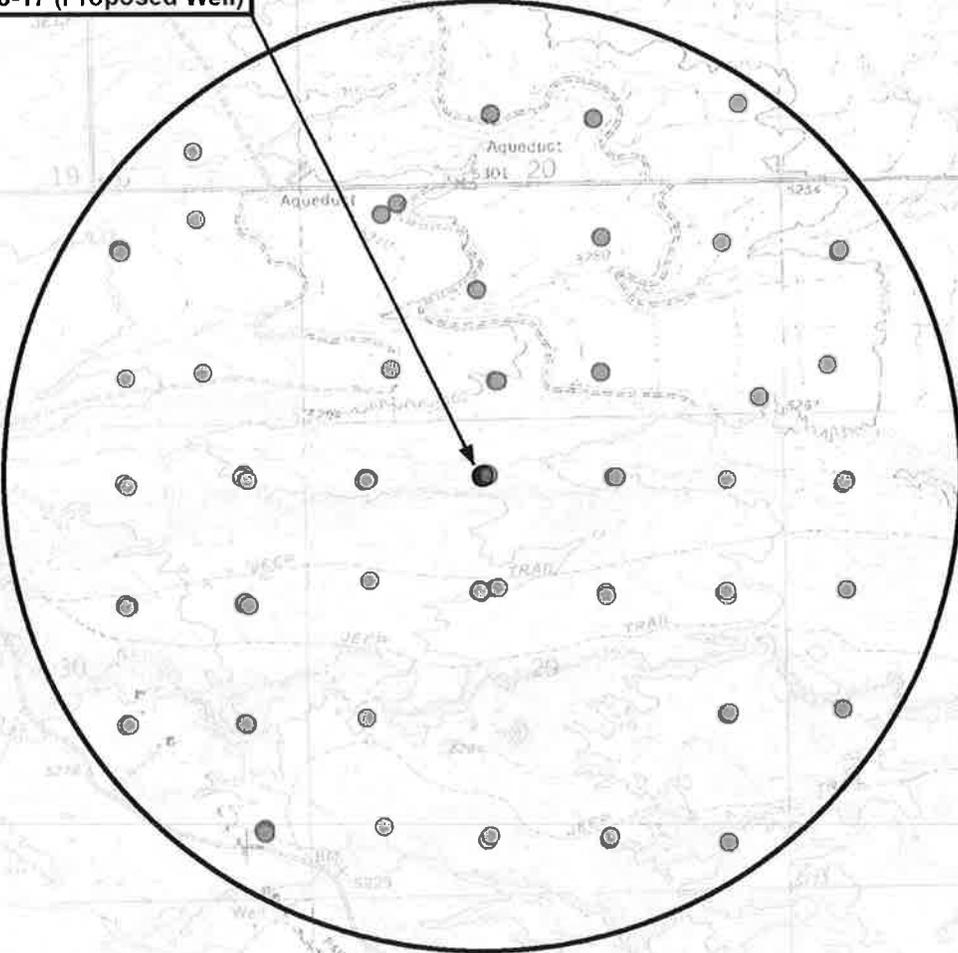
**NEWFIELD EXPLORATION COMPANY**  
 3-29-8-17 (Existing Well)  
 X-20-8-17 (Proposed Well)  
 W-20-8-17 (Proposed Well)  
 SEC. 29, T8S, R17E, S.L.B.&M. Duchesne County, UT.

DRAWN BY:	D.C.R.	REVISED:	02-18-12 D.C.R.	VERSION:
DATE:	09-28-2011			<b>V1</b>
SCALE:	1" = 2,000'			

**TOPOGRAPHIC MAP** SHEET **C**

**Exhibit "B" Map**

3-29-8-17 (Existing Well)  
 X-20-8-17 (Proposed Well)  
 W-20-8-17 (Proposed Well)



**Legend**

-  1 Mile Radius
-  Pad Location

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



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

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



**NEWFIELD EXPLORATION COMPANY**

3-29-8-17 (Existing Well)  
 X-20-8-17 (Proposed Well)  
 W-20-8-17 (Proposed Well)

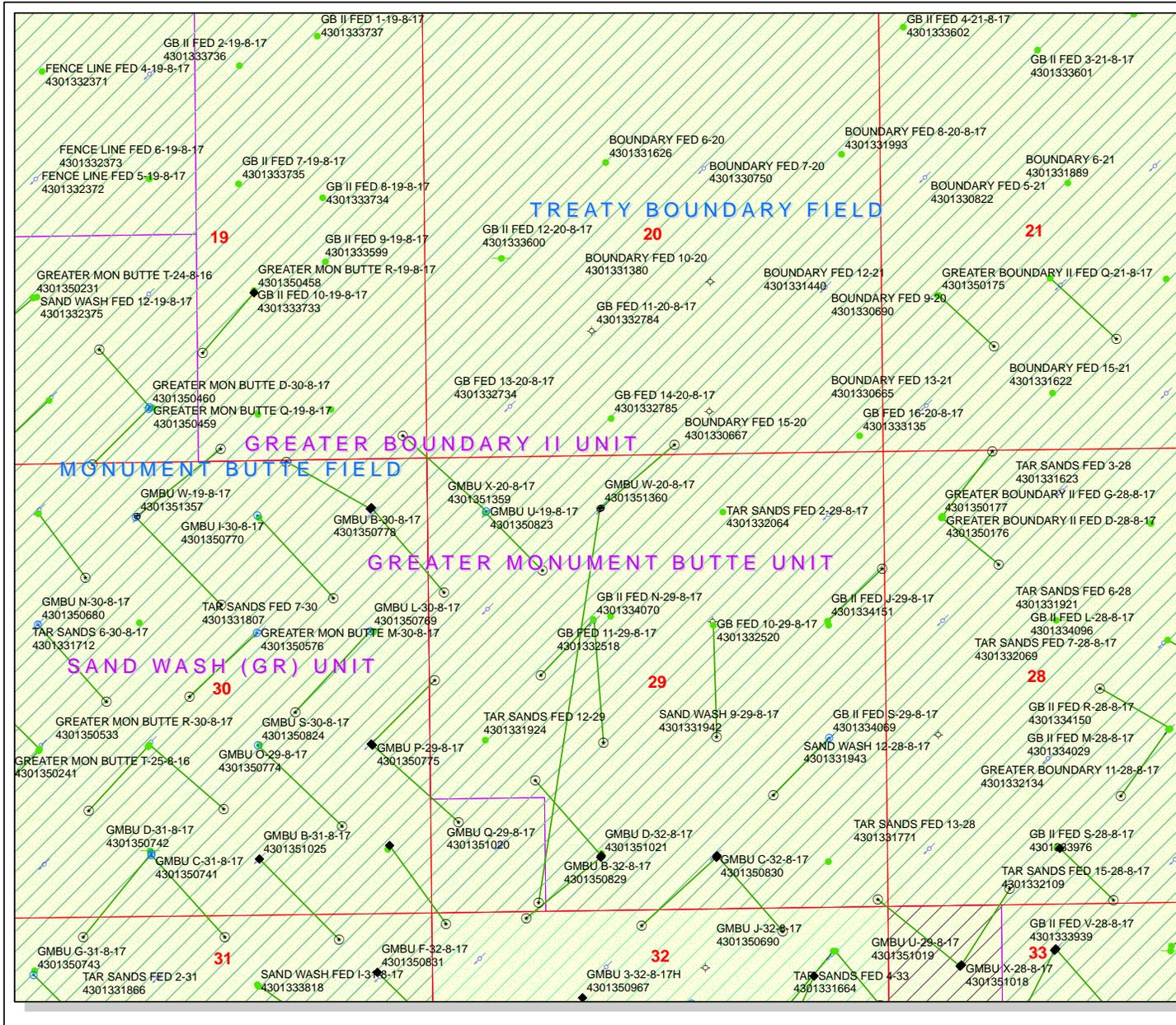
SEC. 29, T8S, R17E, S.L.B.&M. Duchesne County, UT.

DRAWN BY:	D.C.R.	REVISED:	02-18-12 D.C.R.	VERSION:
DATE:	09-28-2011			<b>V1</b>
SCALE:	1" = 2,000'			

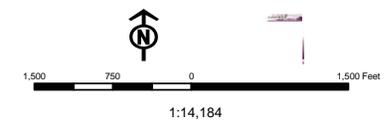
<b>TOPOGRAPHIC MAP</b>	SHEET <b>D</b>
------------------------	-------------------

**API Number: 4301351360**  
**Well Name: GMBU W-20-8-17**  
 Township T0.8 . Range R1.7 . Section 29  
 Meridian: SLBM  
 Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:  
 Map Produced by Diana Mason



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



# 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)

April 6, 2012

## Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

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

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

API#	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-51348	GMBU E-21-9-17	Sec 17 T09S R17E 0706 FSL 0665 FEL BHL Sec 21 T09S R17E 0186 FNL 0200 FWL
43-013-51351	GMBU D-21-9-17	Sec 16 T09S R17E 0671 FSL 1966 FWL BHL Sec 21 T09S R17E 0138 FNL 1143 FWL
43-013-51354	GMBU N-34-8-16	Sec 34 T08S R16E 1961 FNL 0651 FWL BHL Sec 34 T08S R16E 2438 FSL 1534 FWL
43-013-51355	GMBU G-15-9-17	Sec 15 T09S R17E 1995 FNL 1983 FWL BHL Sec 15 T09S R17E 1252 FNL 1224 FWL
43-013-51356	GMBU H-15-9-17	Sec 15 T09S R17E 1982 FNL 2000 FWL BHL Sec 15 T09S R17E 1383 FNL 2464 FEL
43-013-51357	GMBU W-19-8-17	Sec 30 T08S R17E 0622 FNL 1810 FWL BHL Sec 19 T08S R17E 0142 FSL 2387 FEL
43-013-51358	GMBU Y-23-8-17	Sec 27 T08S R17E 0748 FNL 0721 FEL BHL Sec 23 T08S R17E 0075 FSL 0069 FWL
43-013-51359	GMBU X-20-8-17	Sec 29 T08S R17E 0613 FNL 1999 FWL BHL Sec 29 T08S R17E 0104 FSL 1242 FWL

RECEIVED: April 06, 2012

API#	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-51360	GMBU W-20-8-17	Sec 29 T08S R17E 0600 FNL 2016 FWL BHL Sec 20 T08S R17E 0114 FSL 2414 FEL
43-013-51361	GMBU B-27-8-17	Sec 22 T08S R17E 0915 FSL 2068 FEL BHL Sec 27 T08S R17E 0297 FNL 1162 FEL
43-013-51362	GMBU C-27-8-17	Sec 22 T08S R17E 0903 FSL 2086 FEL BHL Sec 27 T08S R17E 0298 FNL 2480 FWL

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

Michael L. Coulthard  Digitally signed by Michael L. Coulthard  
DN: cn=Michael L. Coulthard, o=Bureau of Land Management,  
ou=Branch of Minerals, email=Michael\_Coulthard@blm.gov, c=US  
Date: 2012.04.06 12:40:01 -0600

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

MCoulthard:mc:4-6-12

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 4/4/2012

API NO. ASSIGNED: 43013513600000

WELL NAME: GMBU W-20-8-17

OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695)

PHONE NUMBER: 435 646-4825

CONTACT: Mandie Crozier

PROPOSED LOCATION: NENW 29 080S 170E

Permit Tech Review: 

SURFACE: 0600 FNL 2016 FWL

Engineering Review: 

BOTTOM: 0114 FSL 2414 FEL

Geology Review: 

COUNTY: DUCHESNE

LATITUDE: 40.09454

LONGITUDE: -110.03258

UTM SURF EASTINGS: 582466.00

NORTHINGS: 4438698.00

FIELD NAME: MONUMENT BUTTE

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-76956

PROPOSED PRODUCING FORMATION(S): GREEN RIVER

SURFACE OWNER: 1 - Federal

COALBED METHANE: NO

## RECEIVED AND/OR REVIEWED:

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

Commingle Approved

## LOCATION AND SITING:

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

Comments: Presite Completed

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



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

## Permit To Drill

\*\*\*\*\*

**Well Name:** GMBU W-20-8-17  
**API Well Number:** 4301351360000  
**Lease Number:** UTU-76956  
**Surface Owner:** FEDERAL  
**Approval Date:** 4/10/2012

### Issued to:

NEWFIELD PRODUCTION COMPANY , Rt 3 Box 3630 , Myton, UT 84052

### Authority:

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

### Duration:

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

### General:

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

### Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

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

### Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website  
at <http://oilgas.ogm.utah.gov>

**Reporting Requirements:**

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

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

**Approved By:**

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

For John Rogers  
Associate Director, Oil & Gas

RECEIVED

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APR 10 2012

APPLICATION FOR PERMIT TO DRILL OR REENTER

BLM

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU76956
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator NEWFIELD PRODUCTION COMPANY Contact: MANDIE CROZIER Email: mcrozier@newfield.com		7. If Unit or CA Agreement, Name and No. GREATER MONUMENT
3a. Address ROUTE #3 BOX 3630 MYTON, UT 84052		8. Lease Name and Well No. GMBU W-20-8-17
3b. Phone No. (include area code) Ph: 435-646-4825 Fx: 435-646-3031		9. API Well No. 43-013-51360
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NENW 600FNL 2016FWL At proposed prod. zone SWSE 114FSL 2414FEL sec 20		10. Field and Pool, or Exploratory MONUMENT BUTTE
14. Distance in miles and direction from nearest town or post office* 10.0		11. Sec., T., R., M., or Blk. and Survey or Area Sec 29 T8S R17E Mer SLB
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 114'	16. No. of Acres in Lease 600.00	12. County or Parish DUCHESNE
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 815'	19. Proposed Depth 6710 MD 6600 TVD	13. State UT
21. Elevations (Show whether DF, KB, RT, GL, etc.) 5268 GL	22. Approximate date work will start 07/31/2012	17. Spacing Unit dedicated to this well 20.00
24. Attachments		20. BLM/BIA Bond No. on file WYB000493
The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:		23. Estimated duration 7 DAYS

RECEIVED  
NOV 23 2012  
DIV. OF ON. GAS & MINING

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

25. Signature (Electronic Submission)	Name (Printed/Typed) MANDIE CROZIER Ph: 435-646-4825	Date 04/04/2012
Title REGULATORY ANALYST		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date NOV 16 2012
Title Assistant Field Manager Lands & Mineral Resources		
Office VERNAL FIELD OFFICE		

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

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 #134746 verified by the BLM Well Information System  
For NEWFIELD PRODUCTION COMPANY, sent to the Vernal  
Committed to AFMSS for processing by LESLIE ROBINSON on 04/11/2012

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

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

125X507945

NOV 22 2012



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

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company: Newfield Production Company  
Well No: GMBU W-20-8-17  
API No: 43-013-51360

Location: NENW, Sec. 29, T8S, R17E  
Lease No: UTU-76956  
Agreement: GREATER MONUMENT BUTTE

**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: <a href="mailto:blm_ut_vn_opreport@blm.gov">blm ut vn opreport@blm.gov</a>
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<sub>x</sub> 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<sub>x</sub> 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.
- 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.

**Monitoring and Reporting**

- The operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) that designates the proposed site-specific monitoring and reference sites chosen for the location. A description of the proposed sites shall be included, as well as a map showing the locations of the proposed sites.
- The operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) 3 growing seasons after reclamation efforts have occurred evaluating the status of the reclaimed areas in order to determine whether the BLM standards set forth in the Green River District Reclamation Guidelines have been met (30% or greater basal cover).
- Prior to beginning new surface disturbance, the operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) providing the results of the noxious weed inventory described in the Green River District Reclamation Guidelines (2011). If weeds are found the report shall include 1) A GPS location recorded in North American Datum 1983; 2) species; 3) canopy cover or number of plants; 4) and size of infestation (estimate square feet or acres. Information shall be also documented in the reclamation report.

**CONDITIONS OF APPROVAL**

**Wildlife**

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

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

**COA's derived from mitigating measures in the EA:**

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

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

- There is a ferruginous hawk nest within ½ mile of the proposed project area. If construction or drilling is proposed from March 1-August 31, then a nesting survey will be conducted by a qualified biologist according to protocol. If the nest is found to be inactive, then permission to proceed may be granted by the BLM Authorized Officer. If the nest is determined to be active, then the timing restriction will remain in effect.
- The proposed project is within 0.25 mile of burrowing owl habitat. If construction or drilling is proposed from March 1-August 31, then a nesting survey will be conducted by a qualified biologist according to protocol. If no nests are located, then permission to proceed may be granted by the BLM Authorized Officer. If a nest is located, then the timing restriction will remain in effect.

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

- For areas of fresh water collection, an infiltration gallery will be constructed in a Service approved location. An infiltration gallery is basically a pit or trench dug within the floodplain to a depth below the water table. Water is drawn from the pit rather than from the river directly. If this is not possible, limit pumping within the river to off-channel locations that do not connect to the river during high spring flows.
- If water cannot be drawn using the measures above and the pump head will be located in the river channel where larval fish are known to occur, the following measures apply:
  - Avoid pumping from low-flow or no-flow areas as these habitats tend to concentrate larval fish
  - Avoid pumping to the greatest extent possible, during that period of the year when larval fish may be present (see previous bullet); and

- Avoid pumping, to the greatest extent possible, during the midnight hours (10:00 p.m. to 2:00 a.m.) as larval drift studies indicate that this is a period of greatest daily activity. Dusk is the preferred pumping time, as larval drift abundance is lowest during this time.
- Screen all pump intakes with 3/32-inch mesh material.
- Report any fish impinged on the intake screen to the FWS office (801.975.3330) and the:  
Utah Division of Wildlife Resources  
Northeastern Region  
152 East 100 North  
Vernal, UT 84078  
(435) 781-9453

### **Air Quality**

- 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.
- Signs will be installed on the access road, reducing speed to 25 MPH, during the drilling phase.
- 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<sub>2</sub> 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<sub>x</sub> controls, time/use restrictions, and/or drill rig spacing.
- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horse power must not emit more than 2 grams of NO<sub>x</sub> per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower-hour.
- All new and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 grams of NO<sub>x</sub> per horsepower-hour.
- Green completions would be used for all well completion activities where technically feasible.
- Employ enhanced VOC emission controls with 95% control efficiency on production equipment having a potential to emit greater than 5 tons per year.

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

**SITE SPECIFIC DOWNHOLE COAs:**

- Newfield Production Co. shall adhere to all referenced requirements in the SOP (version: "Greater Monument Butte Green River Development Program", Feb 16, 2012). The operator shall also comply with applicable laws and regulations; with lease terms Onshore Oil and Gas Orders, NTL's; and with other orders and instructions of the, authorized officer.

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

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

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

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

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to BLM\_UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

## OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at [www.ONRR.gov](http://www.ONRR.gov).
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location ( $\frac{1}{4}$  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.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-76956	
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>	
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.	
<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>	<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> GMBU W-20-8-17
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY	<b>9. API NUMBER:</b> 43013513600000
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052	<b>PHONE NUMBER:</b> 435 646-4825 Ext
<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE	<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0600 FNL 2016 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NENW Section: 29 Township: 08.0S Range: 17.0E Meridian: S
<b>COUNTY:</b> DUCHESNE	<b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 4/10/2013	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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.

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

**Date:** March 12, 2013

**By:** 

<b>NAME (PLEASE PRINT)</b> Mandie Crozier	<b>PHONE NUMBER</b> 435 646-4825	<b>TITLE</b> Regulatory Tech
<b>SIGNATURE</b> N/A	<b>DATE</b> 3/5/2013	



**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 43013513600000**

API: 43013513600000

Well Name: GMBU W-20-8-17

Location: 0600 FNL 2016 FWL QTR NENW SEC 29 TWNP 080S RNG 170E MER S

Company Permit Issued to: NEWFIELD PRODUCTION COMPANY

Date Original Permit Issued: 4/10/2012

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: 3/5/2013

Title: Regulatory Tech Representing: NEWFIELD PRODUCTION COMPANY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

1a. Type of Well  Oil Well  Gas Well  Dry  Other  
 b. Type of Completion:  New Well  Work Over  Deepen  Plug Back  Diff. Resvr.,  
 Other: \_\_\_\_\_

2. Name of Operator  
**NEWFIELD PRODUCTION COMPANY**

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

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

5. Lease Serial No.  
**UTU76956**

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.  
**UTU87538X**

8. Lease Name and Well No.  
**GMBU W-20-8-17**

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
  
 At surface **600' FNL 2016' FWL (NE/NW) SEC 29 T8S R17E (UTU-76956)**

10. Field and Pool or Exploratory  
**MONUMENT BUTTE**

11. Sec., T., R., M., on Block and Survey or Area  
**SEC 29 T8S R17E MER SLB**

At top prod. interval reported below **128' FNL 2579' FWL (NE/NW) SEC 29 T8S R17E (UTU-76956)**

12. County or Parish **DUCHESNE** 13. State **UT**

At total depth **89' FSL 2443' FEL (SW/SE) SEC 20 T8S R17E (UTU-76954)**

14. Date Spudded **02/27/2014** 15. Date T.D. Reached **03/18/2014** 16. Date Completed **04/09/2014**  
 D & A  Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\*  
**5268' GL 5278' KB**

18. Total Depth: MD **6664'** TVD **6558'** 19. Plug Back T.D.: MD **6624'** TVD  
 20. Depth Bridge Plug Set: MD TVD

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

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

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24	0'	317'		180 CLASS G			
7-7/8"	5-1/2" J-55	15.50	0'	6670'		245 Econocem 450Expandacem		53'	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8"	EOT@6494'	TA@6337'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Green River	4675'	6490'	4675' - 6490' MD	0.34	57	
B)						
C)						
D)						

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Green River	4675'	6490'	4675' - 6490' MD	0.34	57	
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
4675' - 6490' MD	Frac w/ 481,889#s of 20/40 white sand and 34,400 20/40 SLC in 3,299 bbls of Lightning 17 fluid, in 3 stages.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
4/9/14	4/19/14	24	→	91	19	138			2.5 X 1.75 X 24' RHAC
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→					PRODUCING	

28a. Production - Interval B

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

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

28b. Production - Interval C

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

28c. Production - Interval D

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

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

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers  
GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GARDEN GULCH MARK GARDEN GULCH 1	4152' 4352'
				GARDEN GULCH 2 POINT 3	4477' 4774'
				X MRKR Y MRKR	5004' 5037'
				DOUGLAS CREEK MRK BI CARBONATE MRK	5168' 5419'
				B LIMESTONE MRK CASTLE PEAK	5557' 6093'
				BASAL CARBONATE WASATCH	6514' 6644'

32. Additional remarks (include plugging procedure):

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

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

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

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

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



# **NEWFIELD EXPLORATION**

**USGS Myton SW (UT)  
SECTION 20 T8S, R17E  
W-20-8-17  
Wellbore #1**

**Design: Actual**

## **End of Well Report**

**18 March, 2014**





# Payzone Directional

## End of Well Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 20 T8S, R17E  
**Well:** W-20-8-17  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well W-20-8-17  
**TVD Reference:** W-20-8-17 @ 5278.0usft (SS #2)  
**MD Reference:** W-20-8-17 @ 5278.0usft (SS #2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 5000.1 Single User Db

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

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

**System Datum:** Mean Sea Level

**Site:** SECTION 20 T8S, R17E

**Site Position:** Northing: 7,210,719.77 usft Latitude: 40° 6' 21.320 N  
 From: La/Long Easting: 2,063,670.54 usft Longitude: 110° 1' 20.880 W  
**Position Uncertainty:** Slot Radius: 13-3/16 " Grid Convergence: 0.95 °

**Well:** W-20-8-17, SHL LAT: 40 05 40.35 LONG: -110 01 57.53

**Well Position:** +N/-S 0.0 usft Northing: 7,206,527.96 usft Latitude: 40° 5' 40.350 N  
 +E/-W 0.0 usft Easting: 2,050,891.38 usft Longitude: 110° 1' 57.530 W  
**Position Uncertainty:** Wellhead Elevation: 5,278.0 usft Ground Level: 5,268.0 usft

**Wellbore:** Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/5/2012	11.24	65.83	52,248

**Design:** Actual

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

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	50.79

**Survey Program:** From (usft) To (usft) Survey (Wellbore) Date 3/18/2014

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
345.0	6,664.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard



# Payzone Directional

## End of Well Report



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**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 5000.1 Single User Db

### Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
345.0	1.58	247.58	345.0	-4.6	-1.8	-4.4	0.46	0.46	0.00
375.0	1.63	250.87	374.9	-5.4	-2.1	-5.2	0.35	0.17	10.97
405.0	1.63	277.60	404.9	-6.0	-2.2	-6.0	2.51	0.00	89.10
436.0	1.68	267.89	435.9	-6.7	-2.2	-6.9	0.92	0.16	-31.32
466.0	1.36	279.61	465.9	-7.3	-2.1	-7.7	1.48	-1.07	39.07
496.0	1.19	308.37	495.9	-7.6	-1.9	-8.3	2.18	-0.57	95.87
526.0	1.01	341.01	525.9	-7.6	-1.4	-8.6	2.14	-0.60	108.80
557.0	1.32	21.00	556.9	-7.2	-0.8	-8.6	2.74	1.00	129.00
588.0	1.49	41.56	587.9	-6.5	-0.2	-8.2	1.71	0.55	66.32
618.0	2.33	44.73	617.9	-5.5	0.5	-7.5	2.82	2.80	10.57
649.0	2.50	41.83	648.8	-4.2	1.5	-6.6	0.68	0.55	-9.35
680.0	3.03	47.85	679.8	-2.7	2.5	-5.5	1.95	1.71	19.42
710.0	3.65	41.69	709.8	-1.0	3.8	-4.3	2.39	2.07	-20.53
740.0	4.22	45.30	739.7	1.1	5.3	-2.9	2.07	1.90	12.03
770.0	4.57	42.05	769.6	3.4	6.9	-1.3	1.43	1.17	-10.83
800.0	5.58	41.34	799.5	6.0	8.9	0.5	3.37	3.37	-2.37
831.0	6.20	42.40	830.3	9.1	11.3	2.6	2.03	2.00	3.42
861.0	6.72	38.84	860.1	12.5	13.9	4.8	2.19	1.73	-11.87
892.0	6.94	44.20	890.9	16.1	16.6	7.2	2.17	0.71	17.29
922.0	7.82	42.09	920.7	19.9	19.4	9.8	3.07	2.93	-7.03
952.0	8.57	44.20	950.3	24.1	22.5	12.8	2.69	2.50	7.03
982.0	9.40	42.40	980.0	28.8	26.0	16.0	2.92	2.77	-6.00
1,012.0	10.28	44.30	1,009.5	33.9	29.7	19.5	3.13	2.93	6.33
1,056.0	11.17	47.62	1,052.8	42.0	35.4	25.4	2.46	2.02	7.55
1,100.0	12.17	49.25	1,095.9	50.9	41.3	32.1	2.39	2.27	3.70
1,144.0	12.30	48.50	1,138.9	60.2	47.4	39.1	0.47	0.30	-1.70



# Payzone Directional

## End of Well Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 20 T8S, R17E  
**Well:** W-20-8-17  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well W-20-8-17  
**TVD Reference:** W-20-8-17 @ 5278.0usft (SS #2)  
**MD Reference:** W-20-8-17 @ 5278.0usft (SS #2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 5000.1 Single User Db

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
1,188.0	12.79	47.19	1,181.8	69.8	53.8	46.2	1.29	1.11	-2.98
1,232.0	12.90	45.30	1,224.7	79.5	60.6	53.2	0.99	0.25	-4.30
1,275.0	13.14	45.56	1,266.6	89.2	67.4	60.1	0.57	0.56	0.60
1,319.0	13.14	46.35	1,309.4	99.1	74.3	67.3	0.41	0.00	1.80
1,363.0	13.36	45.40	1,352.3	109.2	81.3	74.6	0.70	0.50	-2.16
1,407.0	13.97	46.79	1,395.0	119.6	88.6	82.0	1.57	1.39	3.16
1,451.0	14.02	48.59	1,437.7	130.2	95.7	89.9	1.00	0.11	4.09
1,494.0	13.89	49.18	1,479.5	140.5	102.5	97.7	0.45	-0.30	1.37
1,538.0	14.02	47.58	1,522.2	151.1	109.6	105.7	0.93	0.30	-3.64
1,582.0	13.93	48.71	1,564.9	161.8	116.7	113.6	0.65	-0.20	2.57
1,626.0	14.11	48.29	1,607.5	172.4	123.7	121.6	0.47	0.41	-0.95
1,669.0	14.00	49.09	1,649.3	182.8	130.6	129.4	0.52	-0.26	1.86
1,713.0	14.06	50.04	1,691.9	193.5	137.5	137.5	0.54	0.14	2.16
1,757.0	13.70	52.80	1,734.7	204.1	144.1	145.8	1.71	-0.82	6.27
1,801.0	13.80	52.10	1,777.4	214.5	150.5	154.1	0.44	0.23	-1.59
1,845.0	13.40	53.50	1,820.2	224.9	156.8	162.3	1.18	-0.91	3.18
1,888.0	13.30	52.60	1,862.0	234.8	162.7	170.2	0.54	-0.23	-2.09
1,932.0	12.40	50.70	1,904.9	244.6	168.8	177.9	2.26	-2.05	-4.32
1,976.0	11.90	50.10	1,947.9	253.8	174.7	185.0	1.17	-1.14	-1.36
2,020.0	12.00	52.10	1,991.0	262.9	180.4	192.1	0.97	0.23	4.55
2,064.0	11.90	50.90	2,034.0	272.0	186.1	199.3	0.61	-0.23	-2.73
2,108.0	12.10	49.90	2,077.0	281.2	191.9	206.3	0.66	0.45	-2.27
2,151.0	11.70	49.80	2,119.1	290.0	197.6	213.1	0.93	-0.93	-0.23
2,195.0	11.30	52.20	2,162.2	298.8	203.2	219.9	1.42	-0.91	5.45
2,239.0	10.30	51.70	2,205.5	307.1	208.2	226.4	2.28	-2.27	-1.14
2,283.0	9.80	51.80	2,248.8	314.7	213.0	232.4	1.14	-1.14	0.23
2,326.0	9.10	53.80	2,291.2	321.8	217.3	238.0	1.80	-1.63	4.65



# Payzone Directional

## End of Well Report



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**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 5000.1 Single User Db

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	D/Leg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
	2,370.0	8.80	52.30	2,334.7	328.6	221.4	243.5	0.86	-0.68	-3.41
	2,414.0	8.40	50.40	2,378.2	335.2	225.5	248.7	1.11	-0.91	-4.32
	2,458.0	8.10	50.20	2,421.7	341.5	229.5	253.5	0.68	-0.68	-0.45
	2,502.0	7.80	51.10	2,465.3	347.6	233.4	258.2	0.74	-0.68	2.05
	2,545.0	6.90	50.00	2,507.9	353.1	236.9	262.5	2.12	-2.09	-2.56
	2,589.0	6.90	46.00	2,551.6	358.4	240.4	266.4	1.09	0.00	-9.09
	2,633.0	7.50	44.20	2,595.3	363.9	244.3	270.3	1.46	1.36	-4.09
	2,677.0	7.90	48.30	2,638.9	369.7	248.4	274.6	1.54	0.91	9.32
	2,721.0	8.30	49.30	2,682.4	375.9	252.4	279.2	0.96	0.91	2.27
	2,764.0	8.40	51.40	2,725.0	382.2	256.4	284.0	0.75	0.23	4.88
	2,808.0	8.70	52.70	2,768.5	388.7	260.5	289.2	0.81	0.68	2.95
	2,852.0	9.00	54.40	2,812.0	395.5	264.5	294.6	0.90	0.68	3.86
	2,896.0	8.90	54.90	2,855.4	402.3	268.4	300.2	0.29	-0.23	1.14
	2,940.0	9.20	52.30	2,898.9	409.2	272.5	305.8	1.15	0.68	-5.91
	2,983.0	9.20	49.30	2,941.3	416.1	276.9	311.1	1.12	0.00	-6.98
	3,027.0	9.00	49.20	2,984.8	423.1	281.4	316.4	0.46	-0.45	-0.23
	3,071.0	9.00	48.70	3,028.2	429.9	285.9	321.6	0.18	0.00	-1.14
	3,115.0	9.10	49.60	3,071.7	436.9	290.5	326.8	0.39	0.23	2.05
	3,159.0	9.20	52.40	3,115.1	443.8	294.9	332.2	1.04	0.23	6.36
	3,202.0	9.50	59.90	3,157.6	450.8	298.8	338.0	2.92	0.70	17.44
	3,246.0	10.80	61.50	3,200.9	458.4	302.5	344.8	3.02	2.95	3.64
	3,290.0	11.70	63.60	3,244.0	466.8	306.5	352.4	2.25	2.05	4.77
	3,334.0	12.30	60.50	3,287.1	475.8	310.8	360.5	2.00	1.36	-7.05
	3,378.0	13.49	58.83	3,330.0	485.5	315.7	369.0	2.83	2.70	-3.80
	3,421.0	13.67	59.10	3,371.8	495.5	321.0	377.6	0.44	0.42	0.63
	3,465.0	12.67	58.57	3,414.6	505.4	326.1	386.2	2.29	-2.27	-1.20
	3,509.0	11.20	56.90	3,457.6	514.4	331.0	393.9	3.43	-3.34	-3.80



# Payzone Directional

## End of Well Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 20 T8S, R17E  
**Well:** W-20-8-17  
**Wellbore #1:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well W-20-8-17  
**TVD Reference:** W-20-8-17 @ 5278.0usft (SS #2)  
**MD Reference:** W-20-8-17 @ 5278.0usft (SS #2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 5000.1 Single User Db

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
3,553.0	10.50	51.10	3,500.9	522.7	335.8	400.6	2.95	-1.59	-13.18
3,597.0	10.70	45.87	3,544.1	530.8	341.2	406.6	2.23	0.45	-11.89
3,640.0	10.80	45.30	3,586.4	538.8	346.8	412.4	0.34	0.23	-1.33
3,684.0	11.25	42.92	3,629.5	547.1	352.9	418.2	1.45	1.02	-5.41
3,728.0	10.42	42.80	3,672.8	555.3	358.9	423.9	1.89	-1.89	-0.27
3,772.0	10.40	44.37	3,716.0	563.2	364.7	429.3	0.65	-0.05	3.57
3,815.0	10.50	47.98	3,758.3	571.0	370.1	435.0	1.54	0.23	8.40
3,859.0	10.20	52.64	3,801.6	578.9	375.1	441.0	2.02	-0.68	10.59
3,903.0	11.03	53.69	3,844.8	587.0	380.0	447.5	1.94	1.89	2.39
3,947.0	11.30	54.02	3,888.0	595.5	385.0	454.4	0.63	0.61	0.75
3,991.0	11.12	52.59	3,931.2	604.0	390.1	461.3	0.75	-0.41	-3.25
4,034.0	10.81	48.46	3,973.4	612.2	395.3	467.6	1.96	-0.72	-9.60
4,078.0	9.98	45.78	4,016.7	620.1	400.7	473.4	2.18	-1.89	-6.09
4,122.0	9.89	45.52	4,060.0	627.7	406.0	478.8	0.23	-0.20	-0.59
4,166.0	9.18	47.14	4,103.4	634.9	411.0	484.1	1.72	-1.61	3.68
4,210.0	9.71	45.78	4,146.8	642.1	416.0	489.3	1.31	1.20	-3.09
4,253.0	10.33	48.29	4,189.1	649.6	421.1	494.8	1.76	1.44	5.84
4,297.0	10.90	51.54	4,232.4	657.7	426.3	501.0	1.88	1.30	7.39
4,341.0	11.47	54.00	4,275.6	666.2	431.5	507.8	1.69	1.30	5.59
4,385.0	12.22	54.39	4,318.6	675.3	436.8	515.1	1.71	1.70	0.89
4,429.0	11.65	55.58	4,361.7	684.3	442.0	522.6	1.41	-1.30	2.70
4,472.0	11.65	53.47	4,403.8	693.0	447.0	529.6	0.99	0.00	-4.91
4,516.0	11.30	54.00	4,446.9	701.7	452.2	536.7	0.83	-0.80	1.20
4,560.0	11.00	52.10	4,490.1	710.2	457.3	543.5	1.08	-0.68	-4.32
4,604.0	10.90	52.00	4,533.3	718.6	462.5	550.1	0.23	-0.23	-0.23
4,647.0	10.30	51.60	4,575.5	726.5	467.4	556.3	1.41	-1.40	-0.93
4,691.0	10.90	52.60	4,618.8	734.6	472.3	562.7	1.43	1.36	2.27



# Payzone Directional End of Well Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 20 T8S, R17E  
**Well:** W-20-8-17  
**Wellbore #1:**  
**Design:** Actual

**Local Co-ordinate Reference:** Well W-20-8-17  
**TVD Reference:** W-20-8-17 @ 5278.0usft (SS #2)  
**MD Reference:** W-20-8-17 @ 5278.0usft (SS #2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 5000.1 Single User Db

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	D/Leg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
4,735.0	11.60	53.80	4,661.9	743.2	477.5	569.6	1.68	1.59	2.73
4,779.0	11.90	53.30	4,705.0	752.1	482.8	576.8	0.72	0.68	-1.14
4,822.0	11.50	50.10	4,747.1	760.8	488.2	583.6	1.77	-0.93	-7.44
4,866.0	11.10	48.60	4,790.3	769.4	493.8	590.2	1.13	-0.91	-3.41
4,910.0	11.40	46.90	4,833.4	778.0	499.6	596.5	1.02	0.68	-3.86
4,954.0	11.70	46.60	4,876.5	786.8	505.6	602.9	0.70	0.68	-0.68
4,998.0	12.00	46.50	4,919.6	795.8	511.8	609.5	0.68	0.68	-0.23
5,042.0	12.00	47.70	4,962.6	804.9	518.1	616.2	0.57	0.00	2.73
5,085.0	11.70	50.40	5,004.7	813.8	523.8	622.9	1.47	-0.70	6.28
5,129.0	11.40	54.40	5,047.8	822.6	529.2	629.8	1.94	-0.68	9.09
5,173.0	12.00	53.10	5,090.9	831.5	534.5	637.0	1.49	1.36	-2.95
5,217.0	12.10	51.50	5,134.0	840.7	540.1	644.3	0.79	0.23	-3.64
5,260.0	11.90	52.40	5,176.0	849.6	545.6	651.3	0.64	-0.47	2.09
5,304.0	11.50	54.00	5,219.1	858.5	551.0	658.5	1.17	-0.91	3.64
5,348.0	11.60	51.00	5,262.2	867.3	556.3	665.5	1.38	0.23	-6.82
5,392.0	11.30	51.60	5,305.3	876.0	561.8	672.3	0.73	-0.68	1.36
5,436.0	11.30	51.10	5,348.5	884.7	567.2	679.0	0.22	0.00	-1.14
5,479.0	11.30	50.20	5,390.6	893.1	572.5	685.5	0.41	0.00	-2.09
5,523.0	10.94	50.62	5,433.8	901.6	577.9	692.1	0.84	-0.82	0.95
5,567.0	10.24	51.67	5,477.1	909.7	583.0	698.4	1.65	-1.59	2.39
5,611.0	8.83	48.60	5,520.5	917.0	587.7	704.0	3.41	-3.20	-6.98
5,654.0	9.23	43.85	5,562.9	923.7	592.3	708.8	1.97	0.93	-11.05
5,698.0	9.80	42.49	5,606.3	930.9	597.6	713.8	1.39	1.30	-3.09
5,742.0	10.42	45.39	5,649.6	938.5	603.2	719.2	1.82	1.41	6.59
5,786.0	11.69	45.69	5,692.8	947.0	609.1	725.2	2.89	2.89	0.68
5,829.0	12.48	48.86	5,734.9	955.9	615.2	731.8	2.40	1.84	7.37
5,873.0	13.22	51.93	5,777.8	965.7	621.4	739.3	2.29	1.68	6.98



# Payzone Directional

## End of Well Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 20 T8S, R17E  
**Well:** W-20-8-17  
**Wellbore #1:** Wellbore #1  
**Design:** Actual

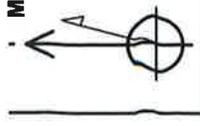
**Local Co-ordinate Reference:** Well W-20-8-17  
**TVD Reference:** W-20-8-17 @ 5278.0usft (SS #2)  
**MD Reference:** W-20-8-17 @ 5278.0usft (SS #2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 5000.1 Single User Db

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
5,917.0	13.01	54.31	5,820.6	975.7	627.4	747.3	1.32	-0.48	5.41
5,961.0	12.35	53.08	5,863.5	985.3	633.1	755.1	1.62	-1.50	-2.80
6,004.0	11.12	52.28	5,905.6	994.1	638.4	762.1	2.89	-2.86	-1.86
6,048.0	9.40	52.94	5,948.9	1,001.9	643.2	768.3	3.92	-3.91	1.50
6,092.0	7.73	51.76	5,992.5	1,008.5	647.2	773.5	3.82	-3.80	-2.68
6,136.0	7.87	51.67	6,036.0	1,014.4	650.9	778.2	0.32	0.32	-0.20
6,179.0	8.44	55.23	6,078.6	1,020.5	654.5	783.1	1.77	1.33	8.28
6,223.0	9.10	59.45	6,122.1	1,027.2	658.1	788.7	2.09	1.50	9.59
6,267.0	9.98	61.73	6,165.5	1,034.4	661.7	795.1	2.18	2.00	5.18
6,311.0	10.33	62.48	6,208.8	1,042.0	665.3	801.9	0.85	0.80	1.70
6,354.0	10.33	61.38	6,251.1	1,049.5	669.0	808.7	0.46	0.00	-2.56
6,398.0	9.27	62.30	6,294.5	1,056.9	672.5	815.3	2.44	-2.41	2.09
6,446.0	8.80	62.00	6,341.9	1,064.3	676.0	822.0	0.98	-0.98	-0.62
6,486.0	8.70	58.70	6,381.4	1,070.3	679.0	827.3	1.28	-0.25	-8.25
6,530.0	7.15	59.40	6,425.0	1,076.3	682.2	832.5	3.53	-3.52	1.59
6,573.0	6.20	57.60	6,467.7	1,081.2	684.8	836.8	2.26	-2.21	-4.19
6,612.0	5.30	62.20	6,506.5	1,085.1	686.7	840.1	2.59	-2.31	11.79
6,664.0	5.30	62.20	6,558.3	1,089.8	689.0	844.4	0.00	0.00	0.00

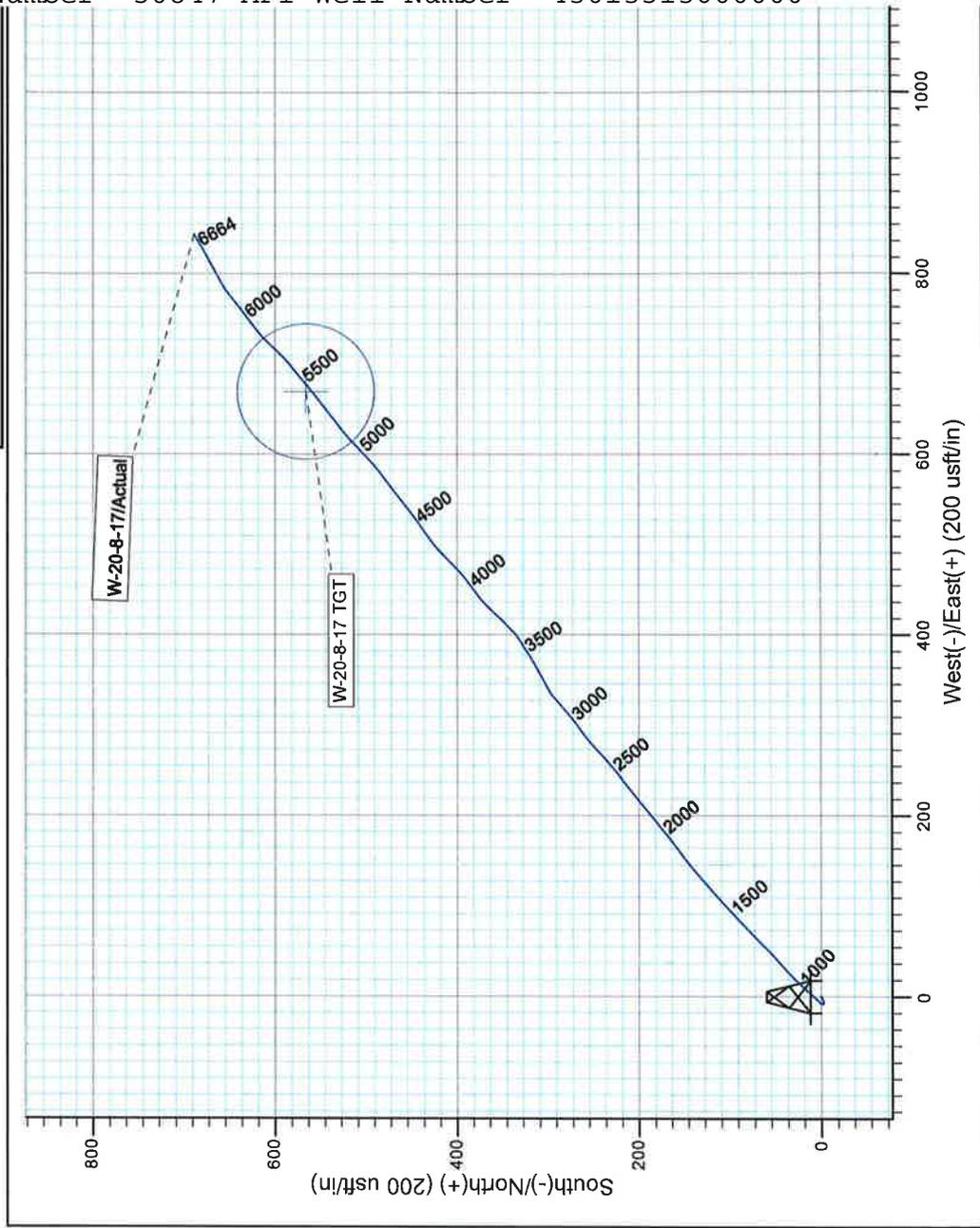
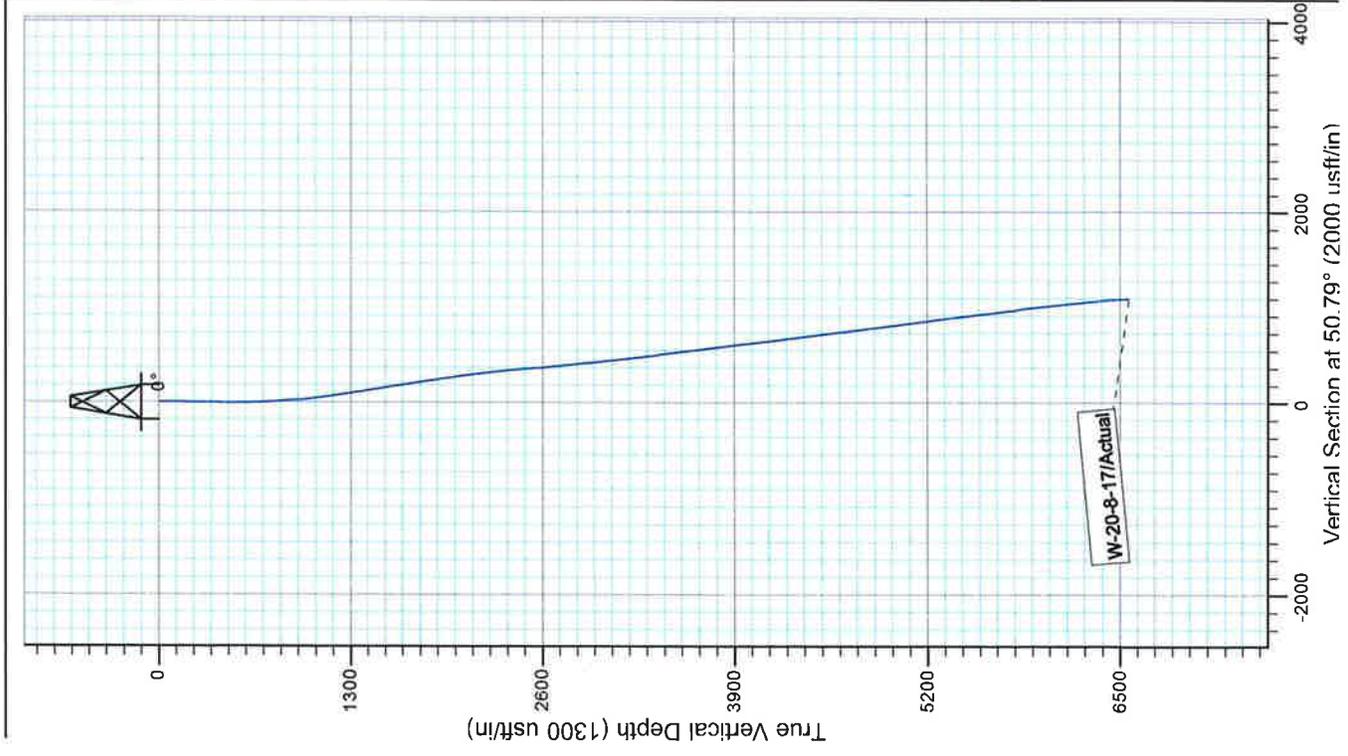
Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



Project: USGS Myton SW (U1)  
 Site: SECTION 20 T8S, R17E  
 Well: W-20-8-17  
 Wellbore: Wellbore #1  
 Design: Actual



Azimuths to True North  
 Magnetic North: 11.24°  
 Magnetic Field  
 Strength: 52248.2snT  
 Dip Angle: 65.83°  
 Date: 1/5/2012  
 Model: IGRF2010



Design: Actual (W-20-8-17/Wellbore #1)  
 Created By: Matthew Limbon Date: 7:46, March 18 2012

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



Well Name: GMBU W-20-8-17

Summary Rig Activity

Job Category		Job Start Date	Job End Date
<b>Daily Operations</b>			
Report Start Date	Report End Date	24hr Activity Summary	
3/31/2014	4/1/2014	Run CBL (Estimated Cement top @ 53'), Press test CSG & frac stack, Perforate 1st sig.	
Start Time	End Time	Start Time	End Time
09:00	11:00	11:00	11:00
Start Time	End Time	Start Time	End Time
11:00	13:00	13:00	13:00
Start Time	End Time	Start Time	End Time
13:00	15:00	15:00	15:00
Start Time	End Time	Start Time	End Time
15:00	15:30	15:30	15:30
Start Time	End Time	Start Time	End Time
15:30	00:00	00:00	00:00
Report Start Date	Report End Date	24hr Activity Summary	
4/2/2014	4/3/2014	Frac.3 of 3 stgs, Leave well shut in & let resin coated sand cure.	
Start Time	End Time	Start Time	End Time
00:00	05:30	05:30	05:30
Start Time	End Time	Start Time	End Time
05:30	06:45	06:45	06:45
Start Time	End Time	Start Time	End Time
06:45	07:15	07:15	07:15
Start Time	End Time	Start Time	End Time
07:15	08:45	08:45	08:45
Start Time	End Time	Start Time	End Time
08:45	09:45	09:45	09:45
Start Time	End Time	Start Time	End Time
09:45	10:45	10:45	10:45
Start Time	End Time	Start Time	End Time
10:45	11:15	11:15	11:15



Well Name: GMBU W-20-8-17

### Summary Rig Activity

Start Time	11:15	End Time	11:30	Comment
Start Time	11:30	End Time	00:00	SWI, Leave well shut in & let resin coated sand cure.
Report Start Date	4/3/2014	Report End Date	4/4/2014	Comment
Start Time	00:00	End Time	18:00	SDFN
Start Time	18:00	End Time	22:00	Flow back well to pit, Recover 480 bbls & turned to oil, ( No sign of sesin coated sand), Pumped tll of 3299 bbls, (2819 bbls left to recover)
Start Time	22:00	End Time	00:00	Comment
Report Start Date	4/4/2014	Report End Date	4/5/2014	SDFN
Start Time	00:00	End Time	10:00	Comment
Start Time	10:00	End Time	12:00	Flow back well to pit, Recover 480 bbls & turned to oil, ( No sign of sesin coated sand)
Start Time	12:00	End Time	14:00	Comment
Start Time	14:00	End Time	18:00	RU B&C QUICK TEST, TEST DRILL OUT BOPS & COMPONENTS, GOOD TESTS
Start Time	18:00	End Time	19:00	Comment
Start Time	19:00	End Time	20:00	WAIT ON RIG TO FINISH X-20-8-17 COMPLETION
Start Time	20:00	End Time	00:00	RIG UP RIG
Report Start Date	4/7/2014	Report End Date	4/8/2014	Comment
Start Time	00:00	End Time	06:00	CREW TRAVEL
Start Time	06:00	End Time	07:00	SDFN
Start Time	07:00	End Time	09:45	CREW TRAVEL
Start Time	09:45	End Time	12:30	R/U WORKFLOOR, CHANGE OVER FOR TBG, SPOT IN PIPE RACKS, PREP AND TALLY TBG
Start Time	12:30	End Time	13:45	Comment
Start Time	13:45	End Time	17:00	M/U 4 3/4 BIT W/ BIT SUB, P/U 139 JTS OF 2 J78 J55 TBG AND TAGG K/P @ 4580. (NO FILL)
Start Time	17:00	End Time		Comment
Start Time		End Time		P/U 5 JTS W/ SWIVEL AND TAG FILL @ 4720' (100' FILL), BREAK CIRCULATION, CLEAN FILL TO PLUG @ 4820', DRILL PLUG, 45 MINUTES( CSG PRESSURE SLOWED DRILLING UP), AFTER GETTING THROUGH PLUG THE CSG WAS GIVING UP ALOT OF SAND (NO RESIN COAT) AND PRESSURE, HAD TO CLEAN WELL UP AND LET PRESSURE DIE DOWN BEFORE ABLE TO GO TO NEXT PLUG. (75 MINUTES)



Well Name: GMBU W-20-8-17

Summary Rig Activity

Start Time	17:00	End Time	18:45	Comment
Start Time	18:45	End Time	19:30	R/D SWIVEL, P/U 34 JTS AND TAG FILL @ 5970' (30' FILL), R/U SWIVEL, BREAK CIRCULATION, CLEAN FILL TO PLUG @ 6,000', DRILL PLUG (20 MINUTES), CIRCULATE TBG VOLUME, CLEAN RETURNS.
Start Time	19:30	End Time	20:30	R/D SWIVEL, SWIFN, (DID NOT FLOW WELL OVERNIGHT)EOT @ 6,030'. NEED TO GO TO PBTD IN MORN
Start Time	20:30	End Time	00:00	Travel time
Report Start Date	4/8/2014	Report End Date	4/9/2014	Comment
Start Time	00:00	End Time	06:00	SDFN
Start Time	06:00	End Time	07:00	Comment
Start Time	07:00	End Time	10:45	CREW TRAVEL
Start Time	10:45	End Time	13:15	SICP 500 PSI, SITP 500 PSI, BLEED DOWN CSG, TBG DIED OFF, P/U 4 JTS AND TAGGED @ 6150 (474' FILL), R/U SWIVEL, BREAK CIRCULATION, CLEAN FILL TO PBTD @ 6624'
Start Time	13:15	End Time	15:30	R/D SWIVEL, RETURNS WERE BRINGING BACK LOTS OF SAND. CIRCULATED WELL CLEAN W/ 450 BBLS DOWN TBG UP CSG.
Start Time	15:30	End Time	17:00	LAY DOWN 5 JTS, POOH W/ 196 JTS OF 2 7/8 J55 TBG AND BREAK OFF BIT AND BIT SUB
Start Time	17:00	End Time	19:30	M/U & TIH W/ PRODUCTION TBG AS FOLLOWS: 2 7/8" PV, 2-JTS 2 7/8" J-55 TBG, 2 7/8" D-SANDER, 2 7/8" X 4' PUP JT, 1-JT 2 7/8" J-55 TBG, 2 7/8" PSN, 1 JT 2 7/8" J-55 TBG, 5 1/2" B2-C TAC, TIH W/ REMAINING 192-JTS OF 2 7/8 J-55 TBG. TAC @ 6337.05. PSN @ 6372.82. EOT @ 6494.63. (129' RAT HOLE)
Start Time	19:30	End Time	20:30	TIE BACK TO SINGLE LINE, SET ANCHOR, HAD TROUBLES SETTING ANCHOR, WORKED TBG UP AND DOWN AND WORKED TOURQUE DOWN TO THE ANCHOR, TBG ANCHOR SET. RID WORK FLOOR, N/D BOP STACK, LANDWELL ON HANGER W/ 20K IN TENSION, NIU WELL HEAD, CHANGE OVER FOR RODS, SWIFN . READY TO P/U RODS IN MORNING
Start Time	20:30	End Time	00:00	CREW TRAVEL
Report Start Date	4/9/2014	Report End Date	4/10/2014	Comment
Start Time	00:00	End Time	06:00	SDFN
Start Time	06:00	End Time	07:00	Travel time
Start Time	07:00	End Time	11:30	SICP 350 PSI, SITP 200 PSI, BLEED DOWN CSG, TBG DIED, SPOT ROD TRAILER, P/U NATIONAL PUMP # 484 (2.5 X 1.75 X 24'), PRIME PUMP (GOOD), P/U 30 7/8 8 PERS, 82 3/4 4 PERS, 64 3/4 8 PERS, 32 7/8 4 PERS, 45 7/8 8 PERS, SPACE WELL W/ 4' PONY, P/U POLISH ROD, LEFT PUMP 1FT OFF TAG
Start Time	11:30	End Time	13:00	TBG FULL, STROKE TEST PUMP W/ RIG TO 800 PSI (GOOD TEST), ROLL UNIT HANG HORSE HEAD, HAD TO HAVE PUMPER START UNIT



Well Name: GMBU W-20-8-17

### Summary Rig Activity

Start Time	13:00	End Time	17:00	Comment
Start Time	17:00	End Time	18:00	Comment

R/D RIG, RACK OUT PUMP AND HARDLINE; CLEAN UP LOCATION, PWOP @ 15:30 W/ 144" SL @ 5 SPM, MOVE RIG 12 MILES TO NEXT LOCATION

CREW TRAVEL