

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

FORM 3

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER GMBU M-23-9-15							
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 mcozler@newfield.com							
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU-66185			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		1977 FSL 1919 FWL		NESW		23		9.0 S		15.0 E		S	
Top of Uppermost Producing Zone		2360 FSL 2374 FWL		NESW		23		9.0 S		15.0 E		S	
At Total Depth		2580 FNL 2465 FEL		SWNE		23		9.0 S		15.0 E		S	
21. COUNTY DUCHESENE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 2465			23. NUMBER OF ACRES IN DRILLING UNIT 20							
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1124			26. PROPOSED DEPTH MD: 6012 TVD: 5880							
27. ELEVATION - GROUND LEVEL 6352			28. BOND NUMBER WYB000493			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 437478							
Hole, Casing, and Cement Information													
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement		Sacks	Yield	Weight		
Surf	12.25	8.625	0 - 300	24.0	J-55 ST&C	8.3	Class G		138	1.17	15.8		
Prod	7.875	5.5	0 - 6012	15.5	J-55 LT&C	8.3	Premium Lite High Strength		277	3.26	11.0		
							50/50 Poz		363	1.24	14.3		
ATTACHMENTS													
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES													
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER						<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN							
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)						<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER							
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)						<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP							
NAME Heather Calder				TITLE Production Technician				PHONE 435 646-4936					
SIGNATURE				DATE 08/05/2013				EMAIL hcalder@newfield.com					
API NUMBER ASSIGNED 43013523600000				APPROVAL  Permit Manager									

NEWFIELD PRODUCTION COMPANY
 GMBU M-23-9-15
 AT SURFACE: NE/SW SECTION 23, T9S R15E
 DUCHESNE COUNTY, UTAH

TEN POINT DRILLING PROGRAM

1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

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

Uinta	0' – 3,580'
Green River	3,580'
Wasatch	6,140'
Proposed TD	6,012'(MD) 5,880' (TVD)

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

Green River Formation (Oil) 3,580' – 6,140'

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 & Sample Interval	Date Sampled
Flow Rate	Temperature
Hardness	pH
Water Classification (State of Utah)	Dissolved Calcium (Ca) (mg/l)
Dissolved Iron (Fe) (ug/l)	Dissolved Sodium (Na) (mg/l)
Dissolved Magnesium (Mg) (mg/l)	Dissolved Carbonate (CO ₃) (mg/l)
Dissolved Bicarbonate (NaHCO ₃) (mg/l)	Dissolved Chloride (Cl) (mg/l)
Dissolved Sulfate (SO ₄) (mg/l)	Dissolved Total Solids (TDS) (mg/l)

4. **PROPOSED CASING PROGRAM**

a. **Casing Design: GMBU M-23-9-15**

Size	Interval		Weight	Grade	Coupling	Design Factors		
	Top	Bottom				Burst	Collapse	Tension
Surface casing 8-5/8"	0'	300'	24.0	J-55	STC	2,950 17.53	1,370 14.35	244,000 33.89
Prod casing 5-1/2"	0'	6,012'	15.5	J-55	LTC	4,810 2.51	4,040 2.11	217,000 2.33

Assumptions:

- 1) Surface casing max anticipated surface press (MASP) = Frac gradient – gas gradient
- 2) Prod casing MASP (production mode) = Pore pressure – gas gradient
- 3) All collapse calculations assume fully evacuated casing w/ gas gradient
- 4) All tension calculations assume air weight

Frac gradient at surface casing shoe = 13.0 ppg
 Pore pressure at surface casing shoe = 8.33 ppg
 Pore pressure at prod casing shoe = 8.33 ppg
 Gas gradient = 0.115 psi/ft

All casing shall be new or, if used, inspected and tested. Used casing shall meet or exceed API standards for new casing.

All casing strings shall have a minimum of 1 (one) centralizer on each of the bottom three (3) joints.

b. **Cementing Design: GMBU M-23-9-15**

Job	Fill	Description	Sacks	OH Excess*	Weight (ppg)	Yield (ft ³ /sk)
			ft ³			
Surface casing	300'	Class G w/ 2% CaCl	138	30%	15.8	1.17
			161			
Prod casing Lead	4,012'	Prem Lite II w/ 10% gel + 3% KCl	277	30%	11.0	3.26
			904			
Prod casing Tail	2,000'	50/50 Poz w/ 2% gel + 3% KCl	363	30%	14.3	1.24
			451			

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

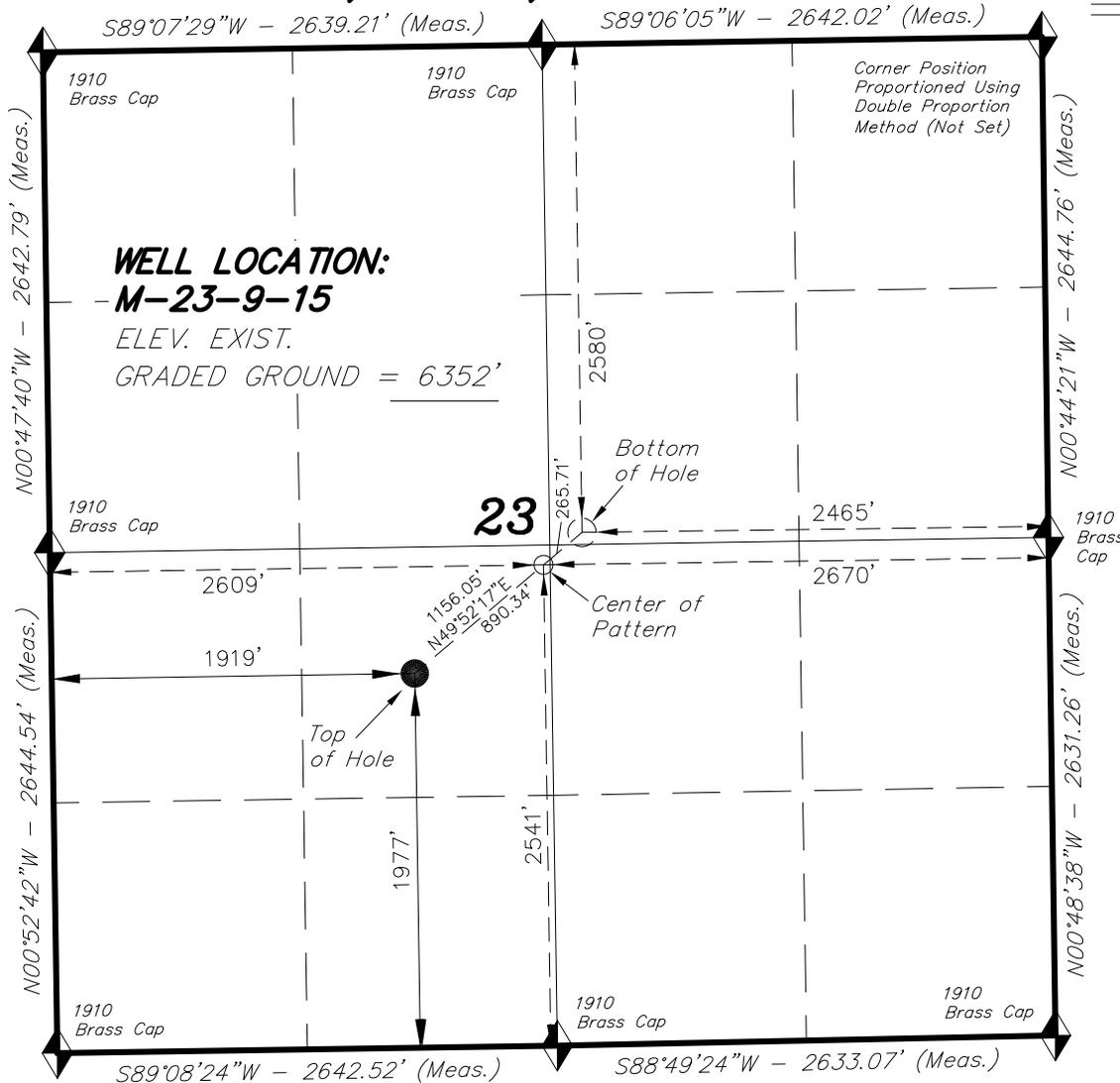
bottomhole pressure will approximately equal total depth in feet multiplied by a 0.433 psi/foot gradient.

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

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

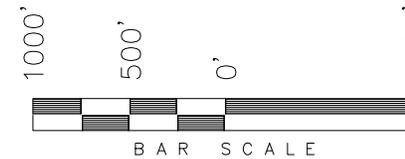
T9S, R15E, S.L.B.&M.

NEWFIELD EXPLORATION COMPANY



WELL LOCATION, M-23-9-15,
 LOCATED AS SHOWN IN THE NE 1/4
 SW 1/4 OF SECTION 23, T9S, R15E,
 S.L.B.&M. DUCHESNE COUNTY, UTAH.

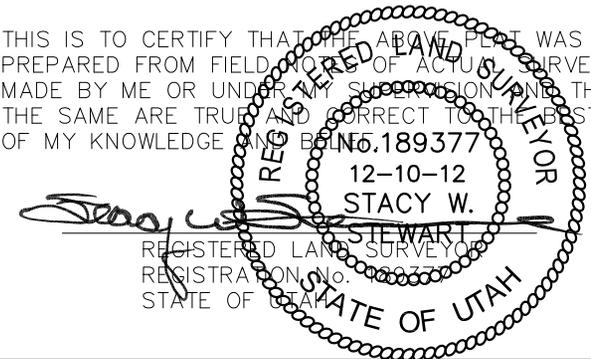
TARGET BOTTOM HOLE, M-23-9-15,
 LOCATED AS SHOWN IN THE SW 1/4
 NE 1/4 OF SECTION 23, T9S, R15E,
 S.L.B.&M. DUCHESNE COUNTY, UTAH.



NOTES:

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

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



◆ = SECTION CORNERS LOCATED

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

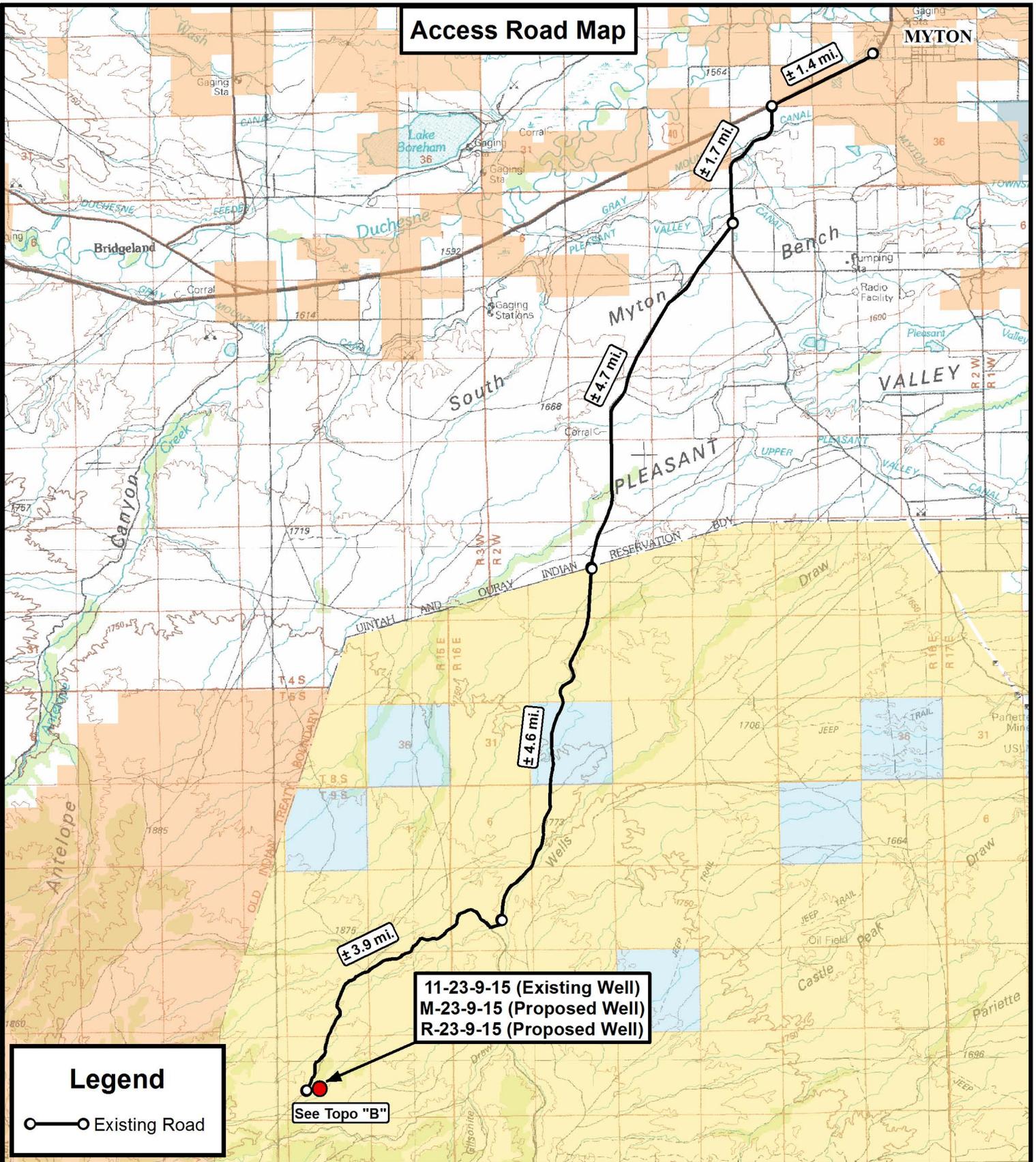
NAD 83 (SURFACE LOCATION)	
LATITUDE = 40°00'52.43"	
LONGITUDE = 110°12'07.13"	
NAD 27 (SURFACE LOCATION)	
LATITUDE = 40°00'52.56"	
LONGITUDE = 110°12'04.58"	
NAD 83 (CENTER OF PATTERN)	NAD 83 (BOTTOM HOLE LOCATION)
LATITUDE = 40°00'58.00"	LATITUDE = 40°00'59.66"
LONGITUDE = 110°11'58.28"	LONGITUDE = 110°11'55.63"
NAD 27 (CENTER OF PATTERN)	NAD 27 (BOTTOM HOLE LOCATION)
LATITUDE = 40°00'58.14"	LATITUDE = 40°00'59.80"
LONGITUDE = 110°11'55.73"	LONGITUDE = 110°11'53.09"

TRI STATE LAND SURVEYING & CONSULTING

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

DATE SURVEYED: 12-05-12	SURVEYED BY: S.H.	VERSION:
DATE DRAWN: 12-10-12	DRAWN BY: V.H.	V1
REVISED:	SCALE: 1" = 1000'	

Access Road Map



Legend

○—○ Existing Road

● ● See Topo "B"

11-23-9-15 (Existing Well)
 M-23-9-15 (Proposed Well)
 R-23-9-15 (Proposed Well)

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NEWFIELD EXPLORATION COMPANY

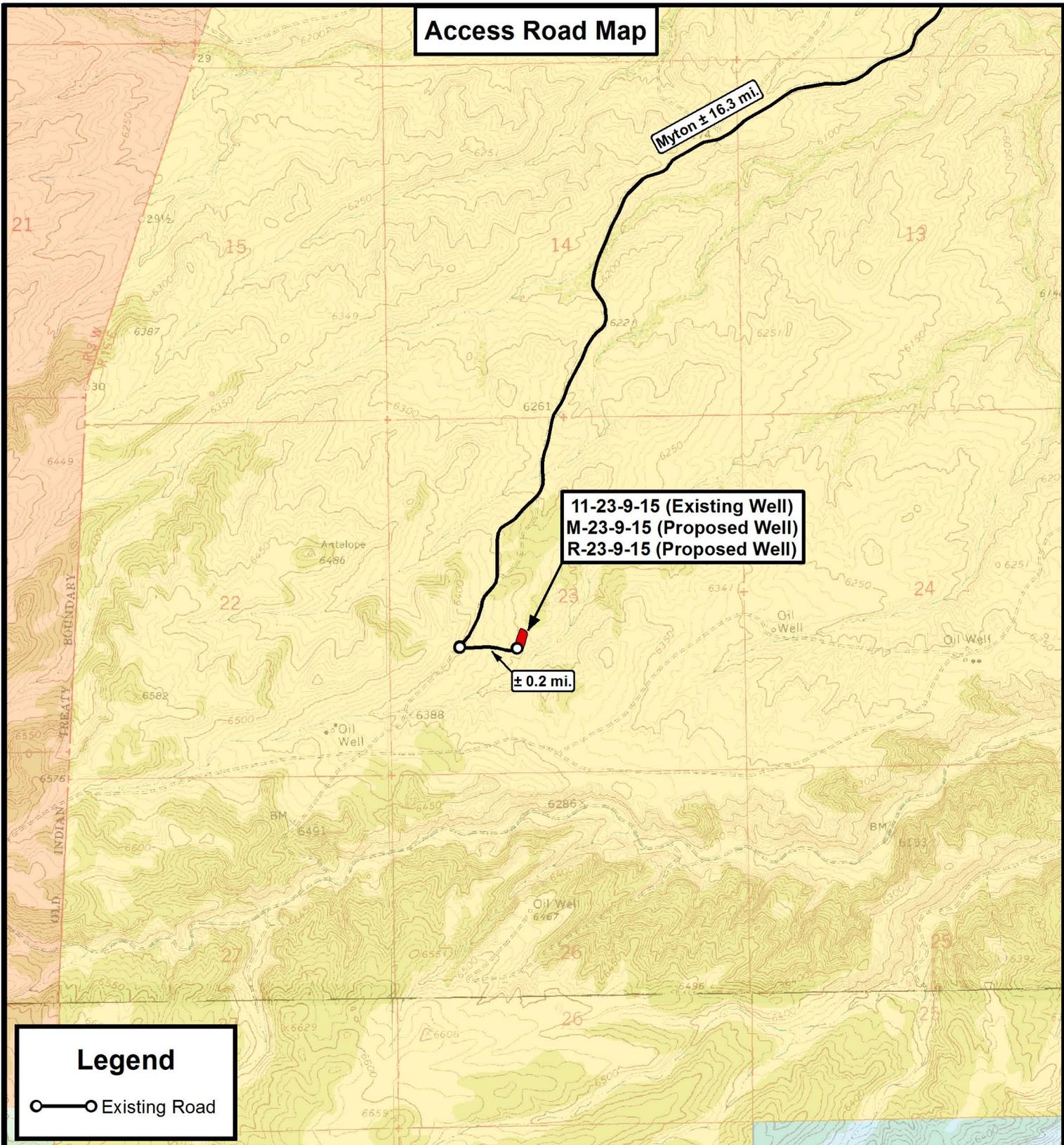
11-23-9-15 (Existing Well)
 M-23-9-15 (Proposed Well)
 R-23-9-15 (Proposed Well)
 SEC. 23, T9S, R15E, S.L.B.&M. Duchesne County, UT.

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	12-13-2012		V1
SCALE:	1:100,000		

TOPOGRAPHIC MAP

SHEET
A

Access Road Map



Legend

○ — ○ Existing Road

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



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NEWFIELD EXPLORATION COMPANY

11-23-9-15 (Existing Well)
M-23-9-15 (Proposed Well)
R-23-9-15 (Proposed Well)

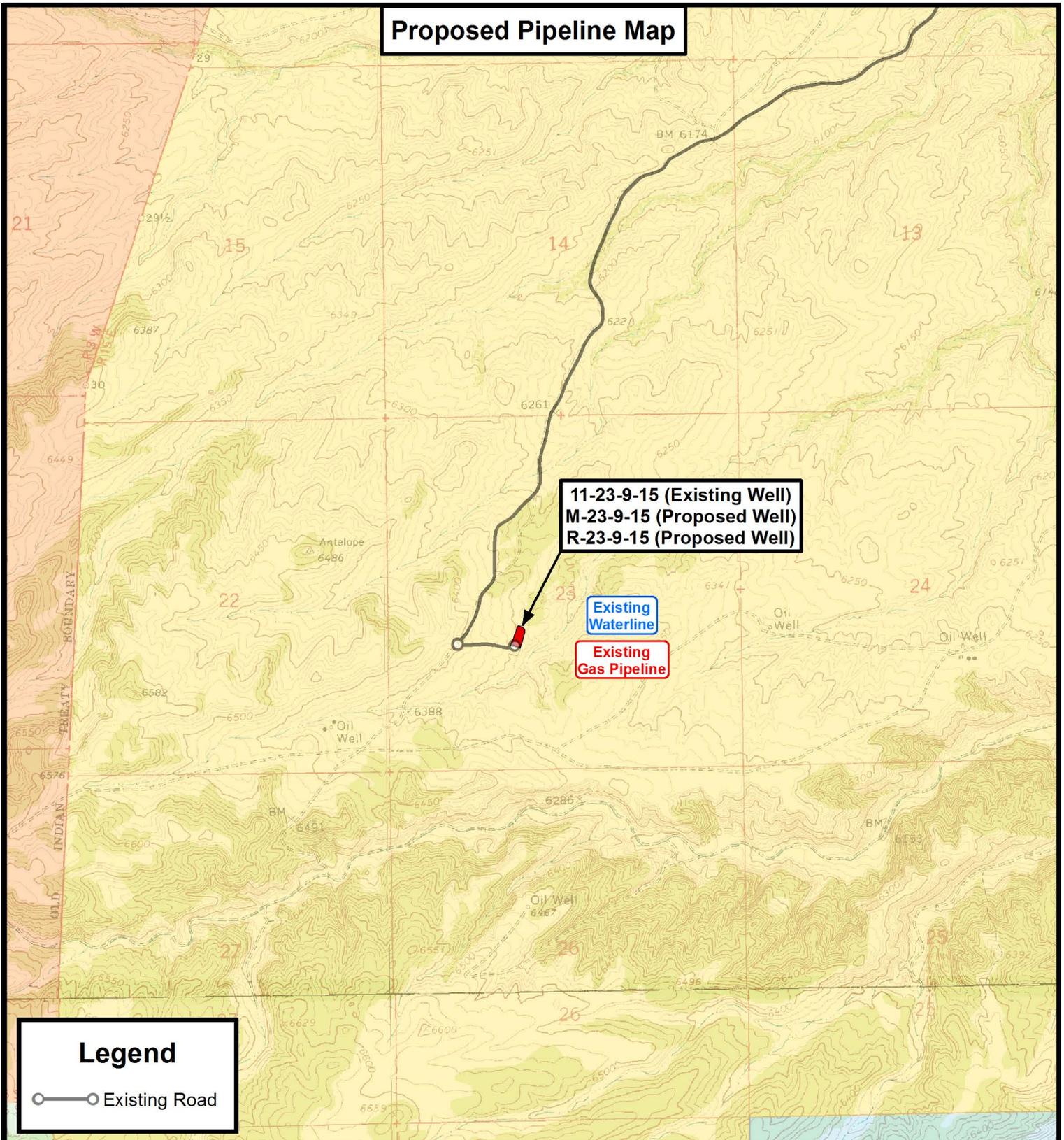
SEC. 23, T9S, R15E, S.L.B.&M. Duchesne County, UT.

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	12-13-2012		V1
SCALE:	1" = 2,000'		

TOPOGRAPHIC MAP

SHEET **B**

Proposed Pipeline Map



**11-23-9-15 (Existing Well)
M-23-9-15 (Proposed Well)
R-23-9-15 (Proposed Well)**

**Existing
Waterline**

**Existing
Gas Pipeline**

Legend

○—○ Existing Road

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NEWFIELD EXPLORATION COMPANY

**11-23-9-15 (Existing Well)
M-23-9-15 (Proposed Well)
R-23-9-15 (Proposed Well)
SEC. 23, T9S, R15E, S.L.B.&M. Duchesne County, UT.**

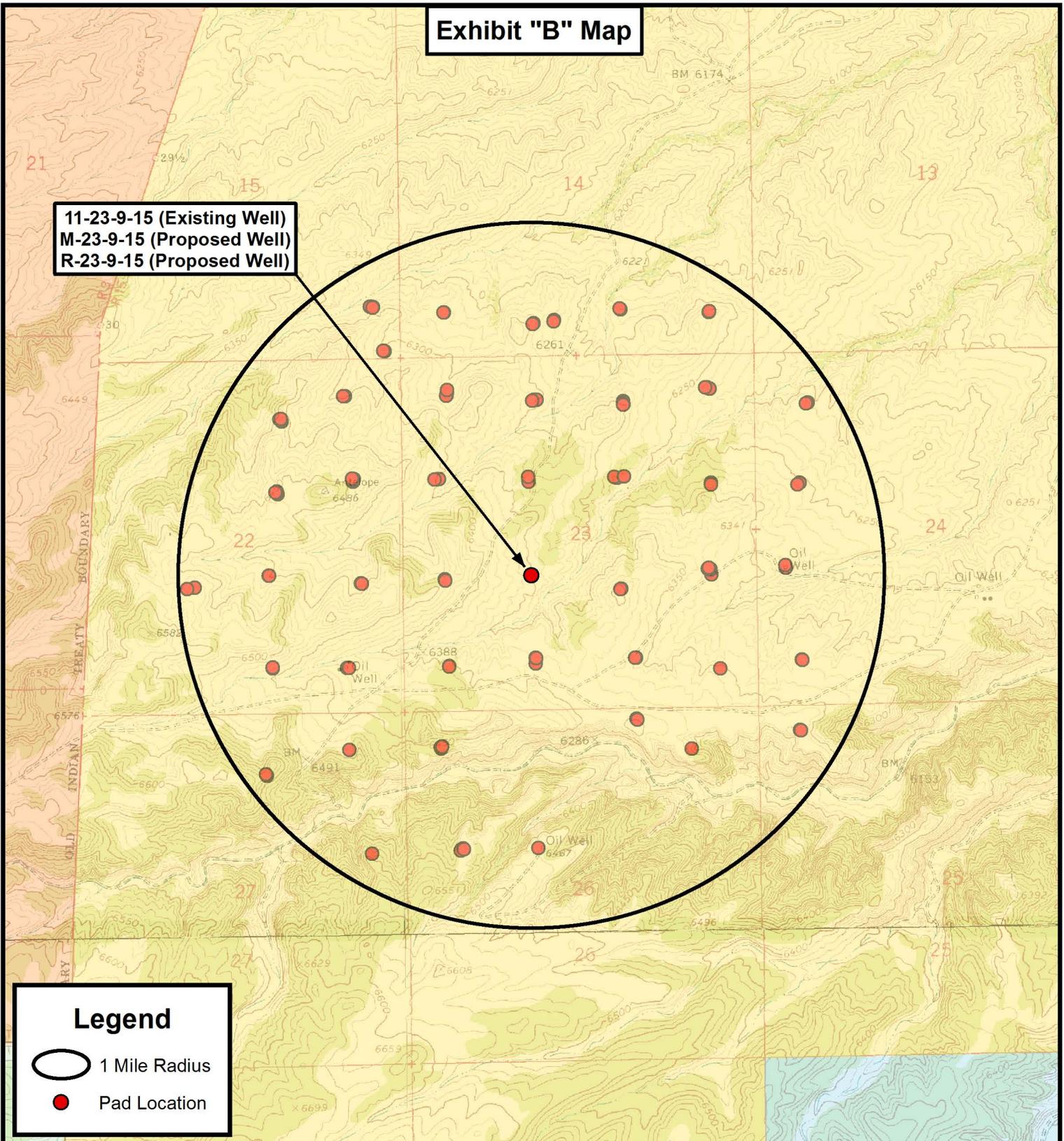
DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	12-13-2012		V1
SCALE:	1" = 2,000'		

TOPOGRAPHIC MAP

SHEET
C

Exhibit "B" Map

11-23-9-15 (Existing Well)
 M-23-9-15 (Proposed Well)
 R-23-9-15 (Proposed Well)



Legend

-  1 Mile Radius
-  Pad Location

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 F: (435) 781-2518



NEWFIELD EXPLORATION COMPANY

11-23-9-15 (Existing Well)
 M-23-9-15 (Proposed Well)
 R-23-9-15 (Proposed Well)
 SEC. 23, T9S, R15E, S.L.B.&M. Duchesne County, UT.

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	12-13-2012		V1
SCALE:	1" = 2,000'		

TOPOGRAPHIC MAP

SHEET
D

Coordinate Report

Well Number	Feature Type	Latitude (NAD 83) (DMS)	Longitude (NAD 83) (DMS)
11-23-9-15	Surface Hole	40° 00' 52.62" N	110° 12' 07.25" W
M-23-9-15	Surface Hole	40° 00' 52.43" N	110° 12' 07.13" W
R-23-9-15	Surface Hole	40° 00' 52.24" N	110° 12' 07.01" W
M-23-9-15	Center of Pattern	40° 00' 58.00" N	110° 11' 58.28" W
R-23-9-15	Center of Pattern	40° 00' 45.80" N	110° 11' 58.30" W
M-23-9-15	Bottom of Hole	40° 00' 59.66" N	110° 11' 55.63" W
R-23-9-15	Bottom of Hole	40° 00' 44.06" N	110° 11' 55.94" W
Well Number	Feature Type	Latitude (NAD 83) (DD)	Longitude (NAD 83) (DD)
11-23-9-15	Surface Hole	40.014616	110.202013
M-23-9-15	Surface Hole	40.014564	110.201981
R-23-9-15	Surface Hole	40.014511	110.201948
M-23-9-15	Center of Pattern	40.016111	110.199521
R-23-9-15	Center of Pattern	40.012722	110.199527
M-23-9-15	Bottom of Hole	40.016573	110.198787
R-23-9-15	Bottom of Hole	40.012238	110.198872
Well Number	Feature Type	Northing (NAD 83) (UTM Meters)	Longitude (NAD 83) (UTM Meters)
11-23-9-15	Surface Hole	4429684.432	568101.818
M-23-9-15	Surface Hole	4429678.607	568104.616
R-23-9-15	Surface Hole	4429672.782	568107.414
M-23-9-15	Center of Pattern	4429852.250	568312.953
R-23-9-15	Center of Pattern	4429476.058	568315.854
M-23-9-15	Bottom of Hole	4429904.073	568375.129
R-23-9-15	Bottom of Hole	4429422.838	568372.244
Well Number	Feature Type	Latitude (NAD 27) (DMS)	Longitude (NAD 27) (DMS)
11-23-9-15	Surface Hole	40° 00' 52.75" N	110° 12' 04.70" W
M-23-9-15	Surface Hole	40° 00' 52.56" N	110° 12' 04.58" W
R-23-9-15	Surface Hole	40° 00' 52.37" N	110° 12' 04.46" W
M-23-9-15	Center of Pattern	40° 00' 58.14" N	110° 11' 55.73" W
R-23-9-15	Center of Pattern	40° 00' 45.93" N	110° 11' 55.75" W
M-23-9-15	Bottom of Hole	40° 00' 59.80" N	110° 11' 53.08" W
R-23-9-15	Bottom of Hole	40° 00' 44.19" N	110° 11' 53.39" W



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NEWFIELD EXPLORATION COMPANY

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M-23-9-15 (Proposed Well)
R-23-9-15 (Proposed Well)
SEC. 23, T9S, R15E, S.L.B.&M. Duchesne County, UT.

DRAWN BY: A.P.C.
DATE: 12-13-2012
VERSION: V1

REVISED:

COORDINATE REPORT

SHEET

1

RECEIVED: August 05, 2013



NEWFIELD EXPLORATION

USGS Myton SW (UT)

SECTION 23 T9, R15

M-23-9-15

Wellbore #1

Plan: Design #1

Standard Planning Report

13 December, 2012





Payzone Directional
Planning Report



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well M-23-9-15
Company:	NEWFIELD EXPLORATION	TVD Reference:	M-23-9-15 @ 6364.0ft (Original Well Elev)
Project:	USGS Myton SW (UT)	MD Reference:	M-23-9-15 @ 6364.0ft (Original Well Elev)
Site:	SECTION 23 T9, R15	North Reference:	True
Well:	M-23-9-15	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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

Site	SECTION 23 T9, R15				
Site Position:		Northing:	7,176,780.93 ft	Latitude:	40° 0' 53.180 N
From:	Lat/Long	Easting:	2,006,598.67 ft	Longitude:	110° 11' 33.050 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.84 °

Well	M-23-9-15, SHL LAT: 40 00 52.43 LONG: -110 12 07.13					
Well Position	+N/-S	-76.0 ft	Northing:	7,176,666.43 ft	Latitude:	40° 0' 52.430 N
	+E/-W	-2,651.4 ft	Easting:	2,003,948.67 ft	Longitude:	110° 12' 7.130 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	6,364.0 ft	Ground Level:	6,352.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/13/2012	11.17	65.71	52,080

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	49.87

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,497.5	13.46	49.87	1,489.3	67.6	80.3	1.50	1.50	5.56	49.87	
4,870.9	13.46	49.87	4,770.0	573.8	680.8	0.00	0.00	0.00	0.00	M-23-9-15 TGT
6,012.3	13.46	49.87	5,880.0	745.1	883.9	0.00	0.00	0.00	0.00	



Payzone Directional
Planning Report



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well M-23-9-15
Company:	NEWFIELD EXPLORATION	TVD Reference:	M-23-9-15 @ 6364.0ft (Original Well Elev)
Project:	USGS Myton SW (UT)	MD Reference:	M-23-9-15 @ 6364.0ft (Original Well Elev)
Site:	SECTION 23 T9, R15	North Reference:	True
Well:	M-23-9-15	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	1.50	49.87	700.0	0.8	1.0	1.3	1.50	1.50	0.00
800.0	3.00	49.87	799.9	3.4	4.0	5.2	1.50	1.50	0.00
900.0	4.50	49.87	899.7	7.6	9.0	11.8	1.50	1.50	0.00
1,000.0	6.00	49.87	999.3	13.5	16.0	20.9	1.50	1.50	0.00
1,100.0	7.50	49.87	1,098.6	21.1	25.0	32.7	1.50	1.50	0.00
1,200.0	9.00	49.87	1,197.5	30.3	36.0	47.0	1.50	1.50	0.00
1,300.0	10.50	49.87	1,296.1	41.2	48.9	64.0	1.50	1.50	0.00
1,400.0	12.00	49.87	1,394.2	53.8	63.8	83.5	1.50	1.50	0.00
1,497.5	13.46	49.87	1,489.3	67.6	80.3	105.0	1.50	1.50	0.00
1,500.0	13.46	49.87	1,491.7	68.0	80.7	105.5	0.00	0.00	0.00
1,600.0	13.46	49.87	1,588.9	83.0	98.5	128.8	0.00	0.00	0.00
1,700.0	13.46	49.87	1,686.2	98.0	116.3	152.1	0.00	0.00	0.00
1,800.0	13.46	49.87	1,783.5	113.0	134.1	175.4	0.00	0.00	0.00
1,900.0	13.46	49.87	1,880.7	128.0	151.9	198.7	0.00	0.00	0.00
2,000.0	13.46	49.87	1,978.0	143.0	169.7	221.9	0.00	0.00	0.00
2,100.0	13.46	49.87	2,075.2	158.1	187.5	245.2	0.00	0.00	0.00
2,200.0	13.46	49.87	2,172.5	173.1	205.3	268.5	0.00	0.00	0.00
2,300.0	13.46	49.87	2,269.7	188.1	223.1	291.8	0.00	0.00	0.00
2,400.0	13.46	49.87	2,367.0	203.1	240.9	315.1	0.00	0.00	0.00
2,500.0	13.46	49.87	2,464.2	218.1	258.7	338.4	0.00	0.00	0.00
2,600.0	13.46	49.87	2,561.5	233.1	276.5	361.6	0.00	0.00	0.00
2,700.0	13.46	49.87	2,658.7	248.1	294.3	384.9	0.00	0.00	0.00
2,800.0	13.46	49.87	2,756.0	263.1	312.1	408.2	0.00	0.00	0.00
2,900.0	13.46	49.87	2,853.2	278.1	329.9	431.5	0.00	0.00	0.00
3,000.0	13.46	49.87	2,950.5	293.1	347.7	454.8	0.00	0.00	0.00
3,100.0	13.46	49.87	3,047.7	308.1	365.5	478.0	0.00	0.00	0.00
3,200.0	13.46	49.87	3,145.0	323.1	383.3	501.3	0.00	0.00	0.00
3,300.0	13.46	49.87	3,242.2	338.1	401.1	524.6	0.00	0.00	0.00
3,400.0	13.46	49.87	3,339.5	353.1	418.9	547.9	0.00	0.00	0.00
3,500.0	13.46	49.87	3,436.7	368.1	436.7	571.2	0.00	0.00	0.00
3,600.0	13.46	49.87	3,534.0	383.1	454.5	594.4	0.00	0.00	0.00
3,700.0	13.46	49.87	3,631.2	398.1	472.3	617.7	0.00	0.00	0.00
3,800.0	13.46	49.87	3,728.5	413.1	490.1	641.0	0.00	0.00	0.00
3,900.0	13.46	49.87	3,825.7	428.1	507.9	664.3	0.00	0.00	0.00
4,000.0	13.46	49.87	3,923.0	443.1	525.7	687.6	0.00	0.00	0.00
4,100.0	13.46	49.87	4,020.3	458.2	543.5	710.9	0.00	0.00	0.00
4,200.0	13.46	49.87	4,117.5	473.2	561.3	734.1	0.00	0.00	0.00
4,300.0	13.46	49.87	4,214.8	488.2	579.1	757.4	0.00	0.00	0.00
4,400.0	13.46	49.87	4,312.0	503.2	596.9	780.7	0.00	0.00	0.00
4,500.0	13.46	49.87	4,409.3	518.2	614.7	804.0	0.00	0.00	0.00
4,600.0	13.46	49.87	4,506.5	533.2	632.5	827.3	0.00	0.00	0.00
4,700.0	13.46	49.87	4,603.8	548.2	650.3	850.5	0.00	0.00	0.00
4,800.0	13.46	49.87	4,701.0	563.2	668.1	873.8	0.00	0.00	0.00
4,870.9	13.46	49.87	4,770.0	573.8	680.8	890.3	0.00	0.00	0.00
4,900.0	13.46	49.87	4,798.3	578.2	685.9	897.1	0.00	0.00	0.00
5,000.0	13.46	49.87	4,895.5	593.2	703.7	920.4	0.00	0.00	0.00
5,100.0	13.46	49.87	4,992.8	608.2	721.5	943.7	0.00	0.00	0.00



Payzone Directional
Planning Report



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well M-23-9-15
Company:	NEWFIELD EXPLORATION	TVD Reference:	M-23-9-15 @ 6364.0ft (Original Well Elev)
Project:	USGS Myton SW (UT)	MD Reference:	M-23-9-15 @ 6364.0ft (Original Well Elev)
Site:	SECTION 23 T9, R15	North Reference:	True
Well:	M-23-9-15	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
5,200.0	13.46	49.87	5,090.0	623.2	739.3	967.0	0.00	0.00	0.00	
5,300.0	13.46	49.87	5,187.3	638.2	757.1	990.2	0.00	0.00	0.00	
5,400.0	13.46	49.87	5,284.5	653.2	774.9	1,013.5	0.00	0.00	0.00	
5,500.0	13.46	49.87	5,381.8	668.2	792.7	1,036.8	0.00	0.00	0.00	
5,600.0	13.46	49.87	5,479.0	683.2	810.5	1,060.1	0.00	0.00	0.00	
5,700.0	13.46	49.87	5,576.3	698.2	828.3	1,083.4	0.00	0.00	0.00	
5,800.0	13.46	49.87	5,673.5	713.2	846.1	1,106.6	0.00	0.00	0.00	
5,900.0	13.46	49.87	5,770.8	728.2	863.9	1,129.9	0.00	0.00	0.00	
6,000.0	13.46	49.87	5,868.0	743.2	881.7	1,153.2	0.00	0.00	0.00	
6,012.3	13.46	49.87	5,880.0	745.1	883.9	1,156.1	0.00	0.00	0.00	

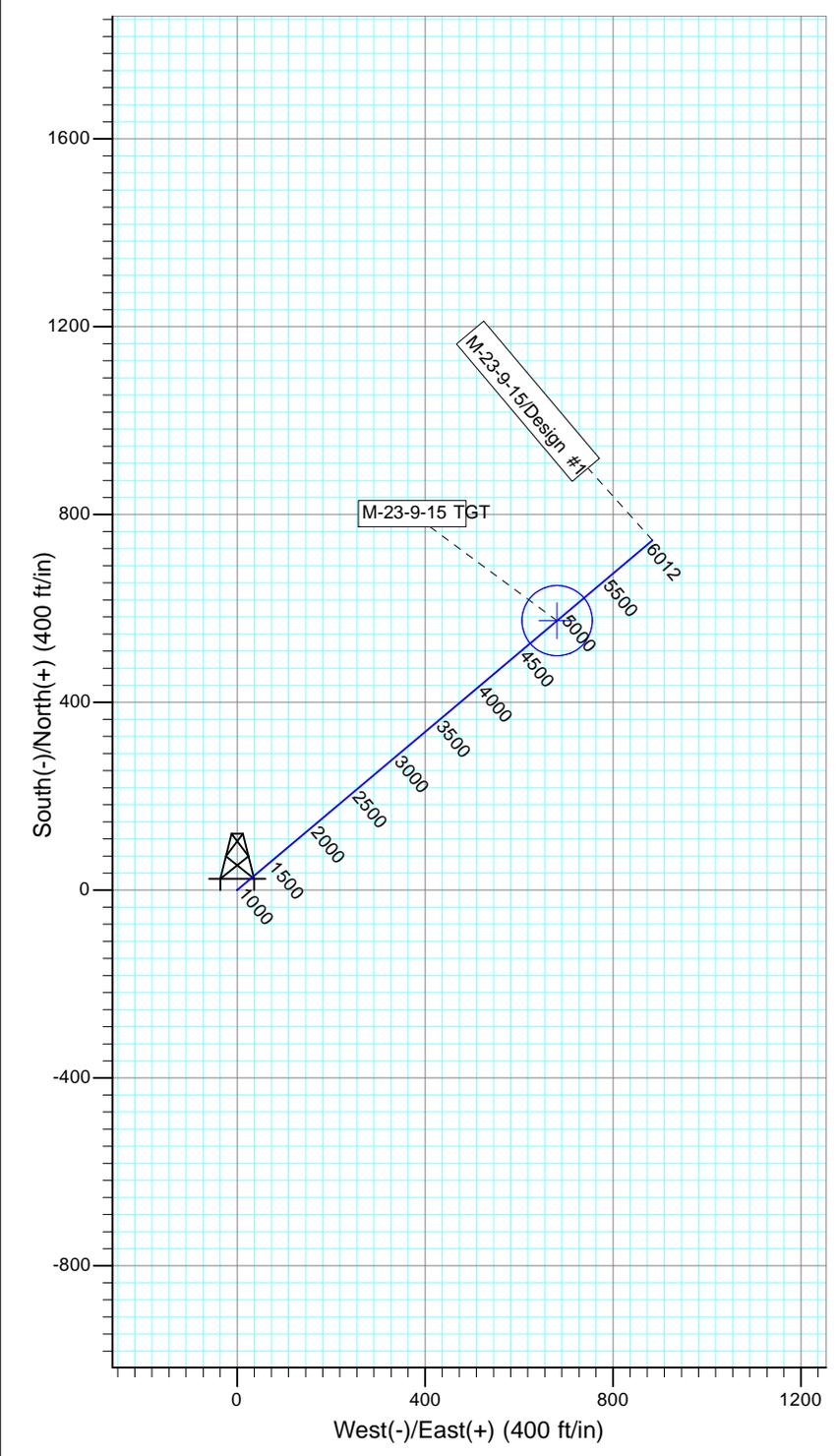
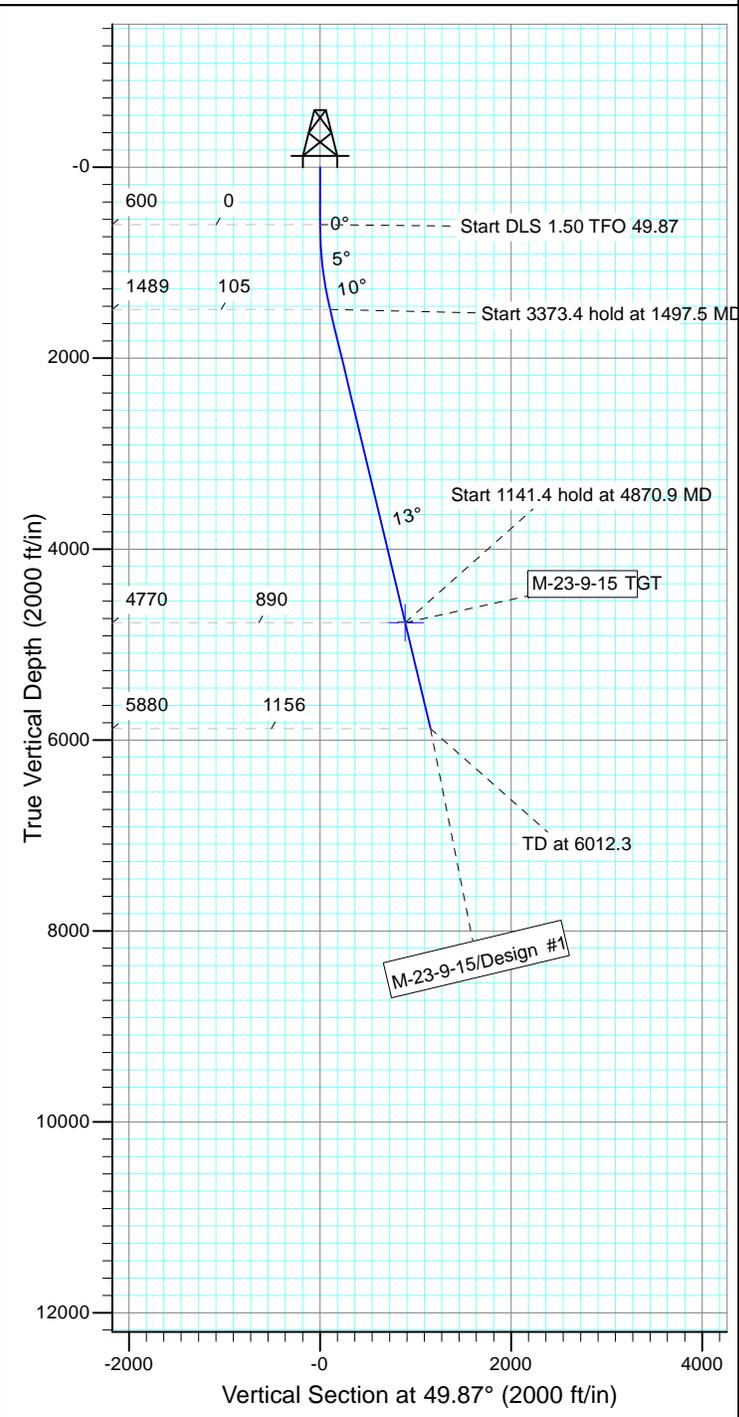


Project: USGS Myton SW (UT)
 Site: SECTION 23 T9, R15
 Well: M-23-9-15
 Wellbore: Wellbore #1
 Design: Design #1



Azimuths to True North
 Magnetic North: 11.17°

Magnetic Field
 Strength: 52079.8snT
 Dip Angle: 65.71°
 Date: 12/13/2012
 Model: IGRF2010



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
M-23-9-15 TGT	4770.0	573.8	680.8	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1497.5	13.46	49.87	1489.3	67.6	80.3	1.50	49.87	105.0	
4	4870.9	13.46	49.87	4770.0	573.8	680.8	0.00	0.00	890.3	M-23-9-15 TGT
5	6012.3	13.46	49.87	5880.0	745.1	883.9	0.00	0.00	1156.1	



**NEWFIELD PRODUCTION COMPANY
GMBU M-23-9-15
AT SURFACE: NE/SW SECTION 23, T9S R15E
DUCHESNE COUNTY, UTAH**

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. EXISTING ROADS

See attached Topographic Map "A"

To reach Newfield Production Company well location site GMBU M-23-9-15 located in the NE 1/4 SW 1/4 Section 23, T9S, R15E, 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 southwesterly direction – 11.0 miles \pm to it's junction with an existing road to the west; proceed in a southwesterly direction – 3.9 miles \pm to it's junction with the beginning of the access road to the existing 11-23-9-15 well location.

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

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

2. PLANNED ACCESS ROAD

There is no proposed access road for this location. The proposed well will be drilled directionally off of the existing 11-23-9-15 well pad. See attached **Topographic Map "B"**.

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

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

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

3. LOCATION OF EXISTING WELLS

Refer to Exhibit "B".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

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

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

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

Tank batteries will be built to State specifications.

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

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

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

Johnson Water District
Water Right : 43-7478

Maurice Harvey Pond
Water Right: 47-1358

Neil Moon Pond
Water Right: 43-11787

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

There will be no water well drilled at this site.

6. **SOURCE OF CONSTRUCTION MATERIALS**

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

A mineral material application is not required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

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

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

A portable toilet will be provided for human waste.

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

8. **ANCILLARY FACILITIES**

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

9. **WELL SITE LAYOUT**

See attached Location Layout Sheet.

Fencing Requirements

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

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

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

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

- a) Producing Location

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

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

- b) Dry Hole Abandoned Location

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

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

12. **OTHER ADDITIONAL INFORMATION**

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report # 13-165 7/10/13, prepared by Montgomery Archaeological Consultants. . Paleontological Resource Survey prepared by, SWCA Environmental Consultants, Report No. UT13-14273-56, May 2013. See attached report cover pages, Exhibit "D".

Water Disposal

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

Additional Surface Stipulations

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

Hazardous Material Declaration

Newfield Production Company guarantees that during the drilling and completion of the GMBU M-23-9-15, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the GMBU M-23-9-15, Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

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

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

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

Representative

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

Certification

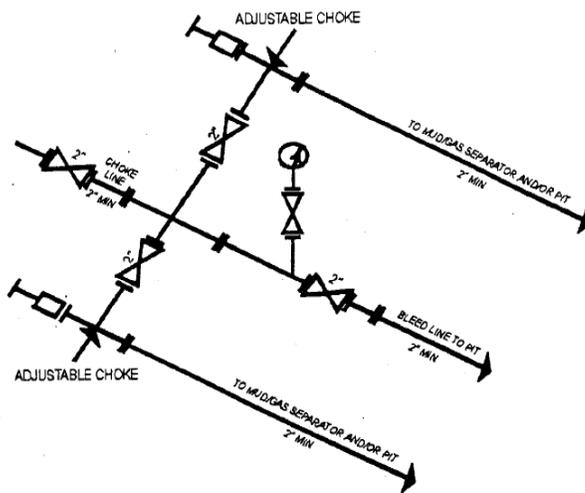
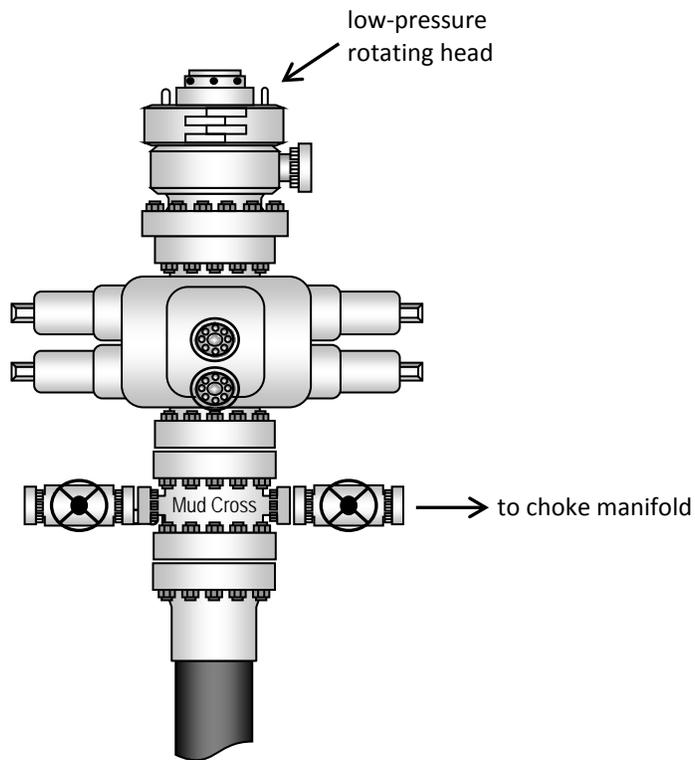
Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #M-23-9-15, Section 23, Township 9S, Range 15E: Lease UTU-66185 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage 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.

8/5/13
Date

Heather Calder
Production Technician
Newfield Production Company

Typical 2M BOP stack configuration



2M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

NEWFIELD EXPLORATION COMPANY

WELL PAD INTERFERENCE PLAT

11-23-9-15 (Existing Well)

M-23-9-15 (Proposed Well)

R-23-9-15 (Proposed Well)

Pad Location: NESW Section 23, T9S, R15E, S.L.B.&M.

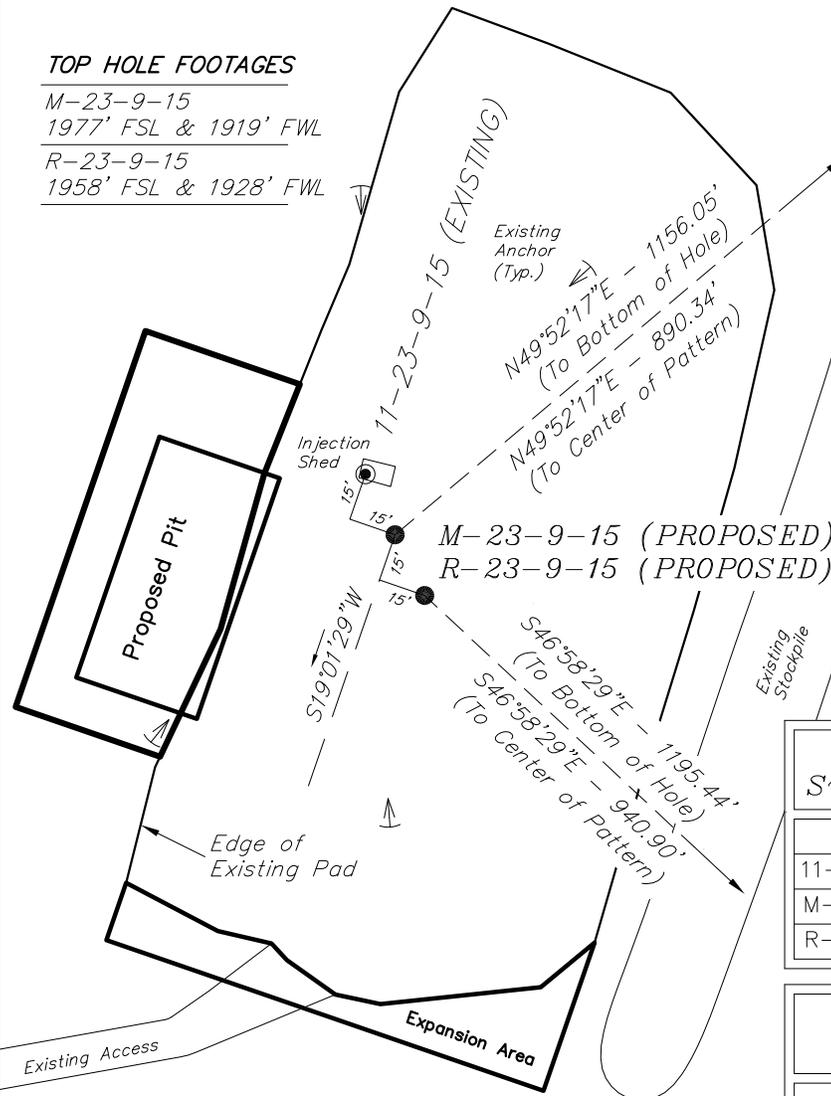


TOP HOLE FOOTAGES

M-23-9-15
1977' FSL & 1919' FWL

R-23-9-15
1958' FSL & 1928' FWL

Note:
Bearings are based on GPS Observations.



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

WELL	NORTH	EAST
M-23-9-15	574'	681'
R-23-9-15	-642'	688'

RELATIVE COORDINATES
From Top Hole to Bottom Hole

WELL	NORTH	EAST
M-23-9-15	745'	884'
R-23-9-15	-816'	874'

LATITUDE & LONGITUDE
Surface position of Wells (NAD 83)

WELL	LATITUDE	LONGITUDE
11-23-9-15	40° 00' 52.62"	110° 12' 07.25"
M-23-9-15	40° 00' 52.43"	110° 12' 07.13"
R-23-9-15	40° 00' 52.24"	110° 12' 07.01"

LATITUDE & LONGITUDE
Center of Pattern (NAD 83)

WELL	LATITUDE	LONGITUDE
M-23-9-15	40° 00' 58.00"	110° 11' 58.28"
R-23-9-15	40° 00' 45.80"	110° 11' 58.30"

LATITUDE & LONGITUDE
Bottom Hole Position (NAD 83)

WELL	LATITUDE	LONGITUDE
M-23-9-15	40° 00' 59.66"	110° 11' 55.63"
R-23-9-15	40° 00' 44.06"	110° 11' 55.94"

CENTER OF PATTERN FOOTAGES

M-23-9-15
2541' FSL & 2670' FEL

R-23-9-15
1306' FSL & 2606' FWL

BOTTOM HOLE FOOTAGES

M-23-9-15
2580' FNL & 2465' FEL

R-23-9-15
1129' FSL & 2487' FEL

SURVEYED BY: S.H.	DATE SURVEYED: 12-05-12	VERSION: V1
DRAWN BY: V.H.	DATE DRAWN: 12-10-12	
SCALE: 1" = 60'	REVISED:	

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

NEWFIELD EXPLORATION COMPANY

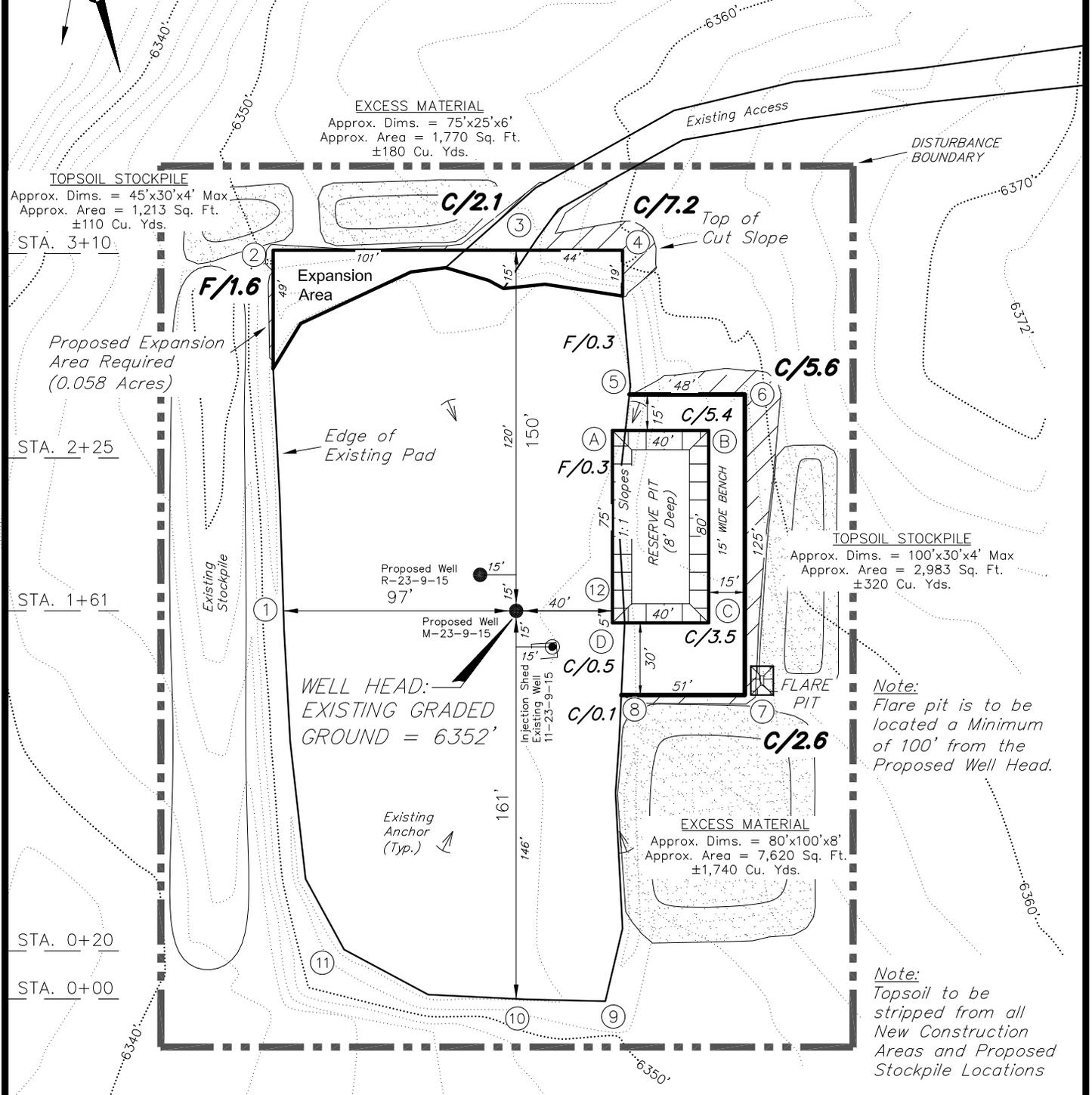
LOCATION LAYOUT

11-23-9-15 (Existing Well)

M-23-9-15 (Proposed Well)

R-23-9-15 (Proposed Well)

Pad Location: NESW Section 23, T9S, R15E, S.L.B.&M.



TOPSOIL STOCKPILE
 Approx. Dims. = 45'x30'x4' Max
 Approx. Area = 1,213 Sq. Ft.
 ±110 Cu. Yds.

EXCESS MATERIAL
 Approx. Dims. = 75'x25'x6'
 Approx. Area = 1,770 Sq. Ft.
 ±180 Cu. Yds.

DISTURBANCE BOUNDARY

Proposed Expansion Area Required
 (0.058 Acres)

TOPSOIL STOCKPILE
 Approx. Dims. = 100'x30'x4' Max
 Approx. Area = 2,983 Sq. Ft.
 ±320 Cu. Yds.

WELL HEAD:
 EXISTING GRADED
 GROUND = 6352'

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

EXCESS MATERIAL
 Approx. Dims. = 80'x100'x8'
 Approx. Area = 7,620 Sq. Ft.
 ±1,740 Cu. Yds.

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

NOTE:
 The topsoil & excess material areas are calculated as being mounds containing 2,350 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.

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

SURVEYED BY: S.H.	DATE SURVEYED: 12-05-12	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 12-10-12	V1
SCALE: 1" = 60'	REVISED:	

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

NEWFIELD EXPLORATION COMPANY

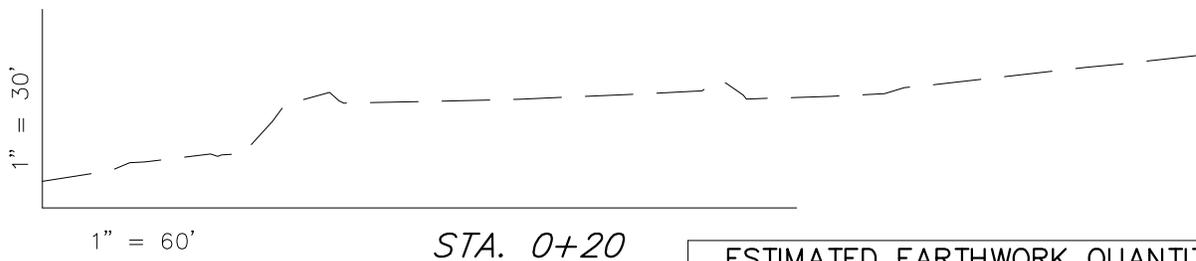
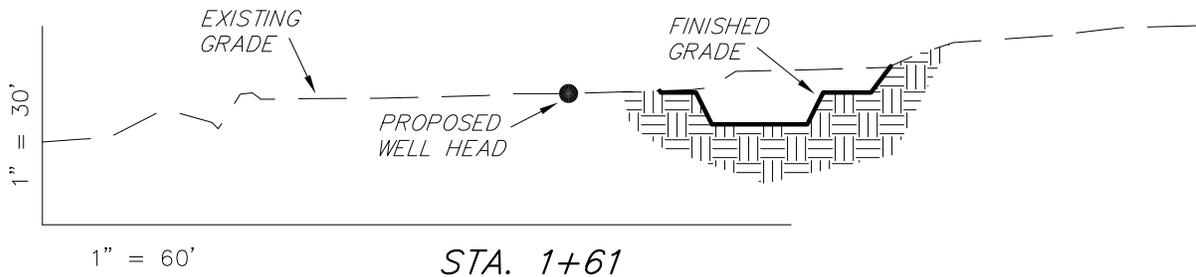
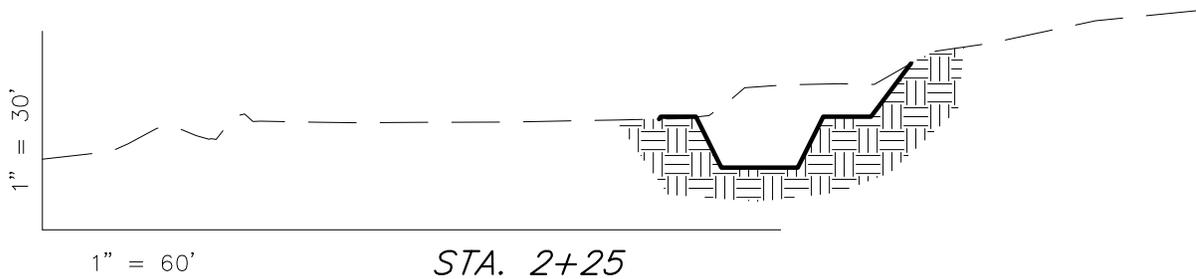
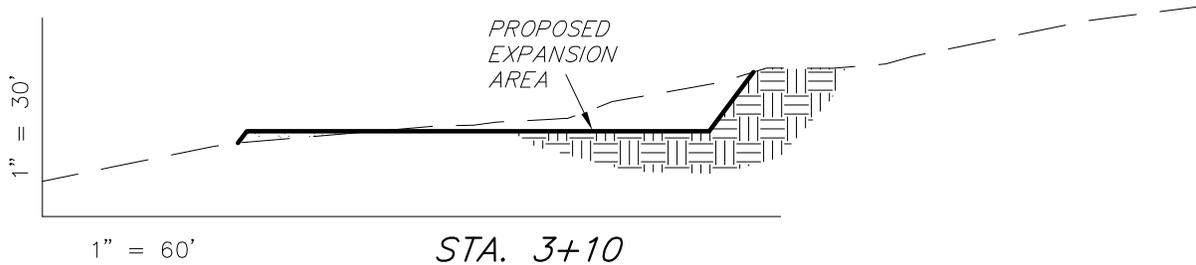
CROSS SECTIONS

11-23-9-15 (Existing Well)

M-23-9-15 (Proposed Well)

R-23-9-15 (Proposed Well)

Pad Location: NESW Section 23, T9S, R15E, 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	1,070	20	Topsoil is not included in Pad Cut	1,050
PIT	690	0		690
TOTALS	1,760	20	390	1,740

SURVEYED BY: S.H.	DATE SURVEYED: 12-05-12	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 12-10-12	V1
SCALE: 1" = 60'	REVISED:	

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

(435) 781-2501

NEWFIELD EXPLORATION COMPANY

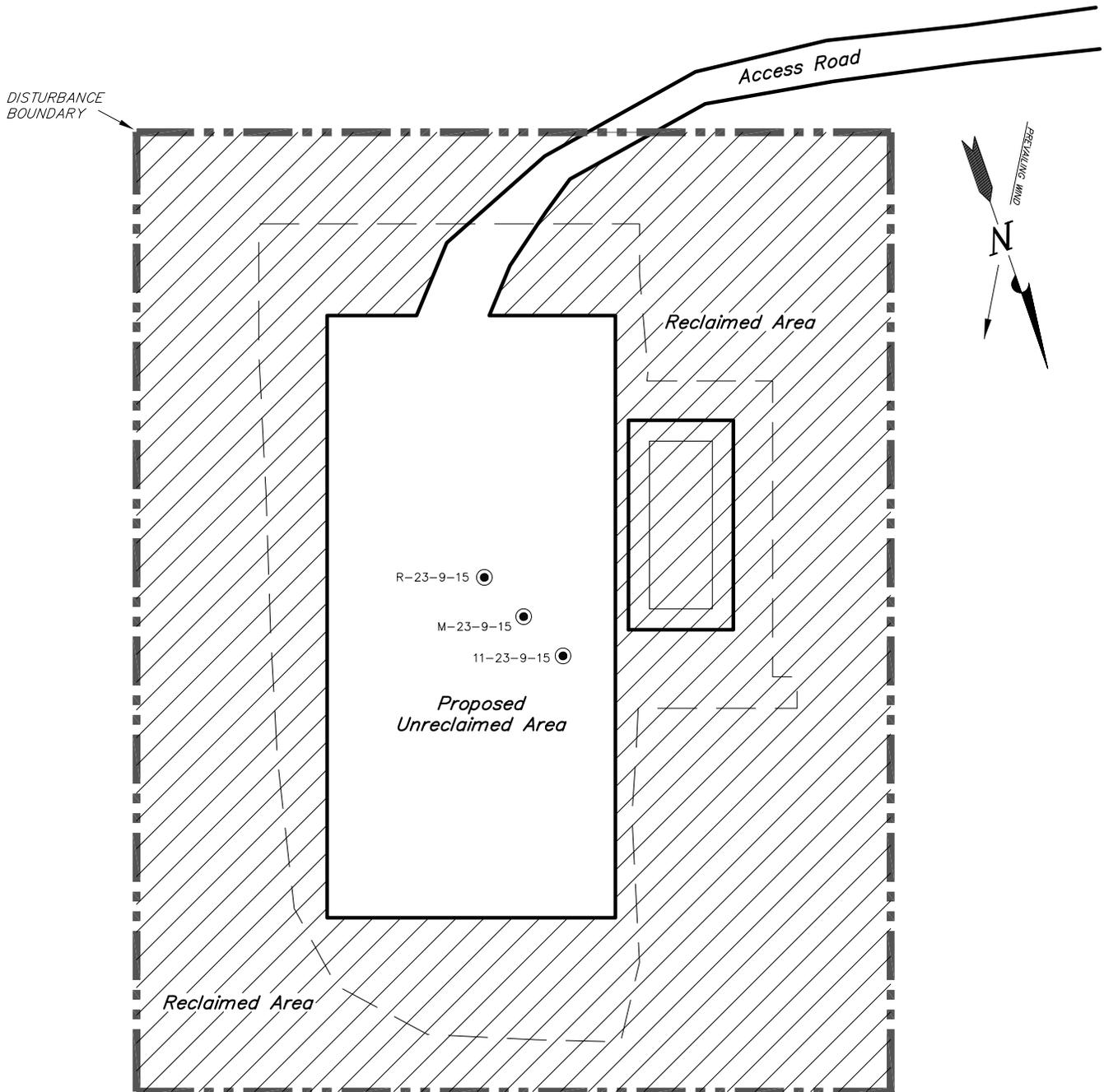
RECLAMATION LAYOUT

11-23-9-15 (Existing Well)

M-23-9-15 (Proposed Well)

R-23-9-15 (Proposed Well)

Pad Location: *NESW Section 23, T9S, R15E, S.L.B.&M.*



Notes:

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

DISTURBED AREA:

TOTAL DISTURBED AREA = 2.42 ACRES
 TOTAL RECLAIMED AREA = 1.80 ACRES
 UNRECLAIMED AREA = 0.62 ACRES

SURVEYED BY: S.H.	DATE SURVEYED: 12-05-12	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 12-10-12	V1
SCALE: 1" = 60'	REVISED:	

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

NEWFIELD EXPLORATION COMPANY

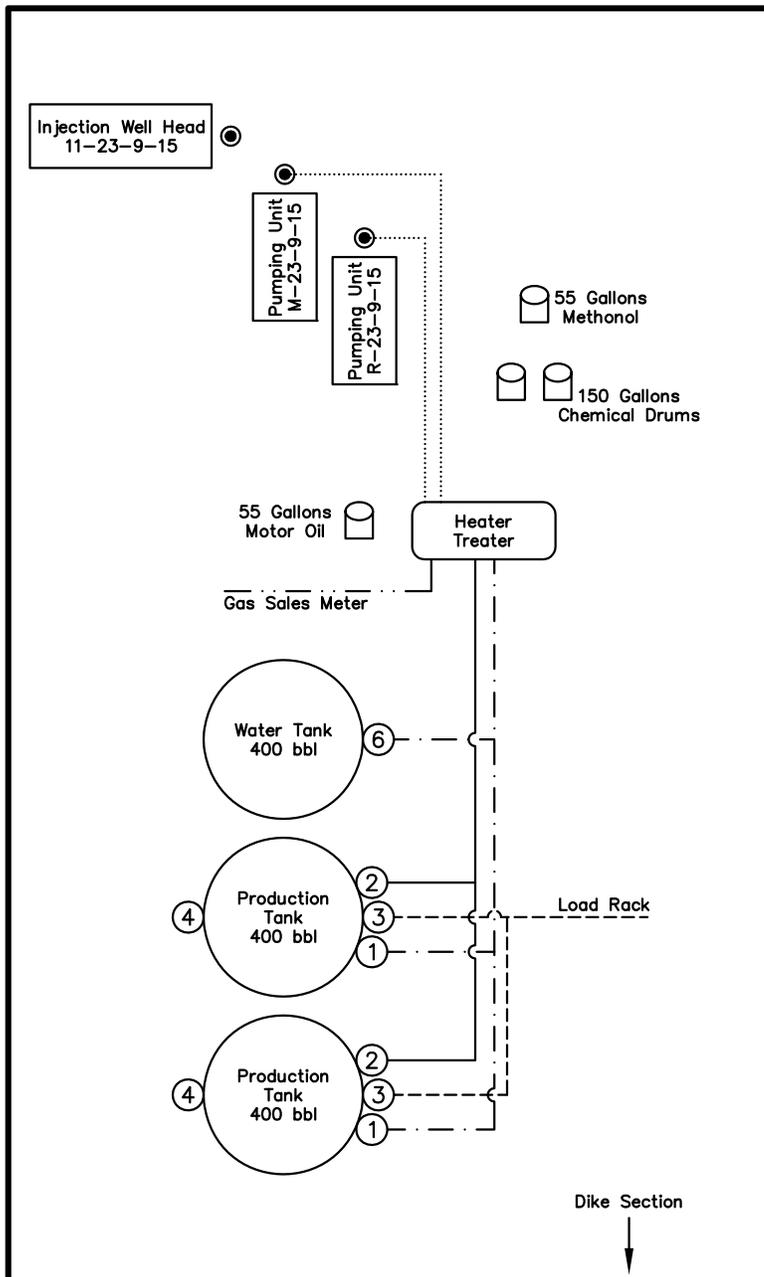
PROPOSED SITE FACILITY DIAGRAM

11-23-9-15 (Existing Well)

M-23-9-15 (Proposed Well) UTU-66185

R-23-9-15 (Proposed Well) UTU-66185

Pad Location: NESW Section 23, T9S, R15E, S.L.B.&M.
Duchesne County, Utah



Legend

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

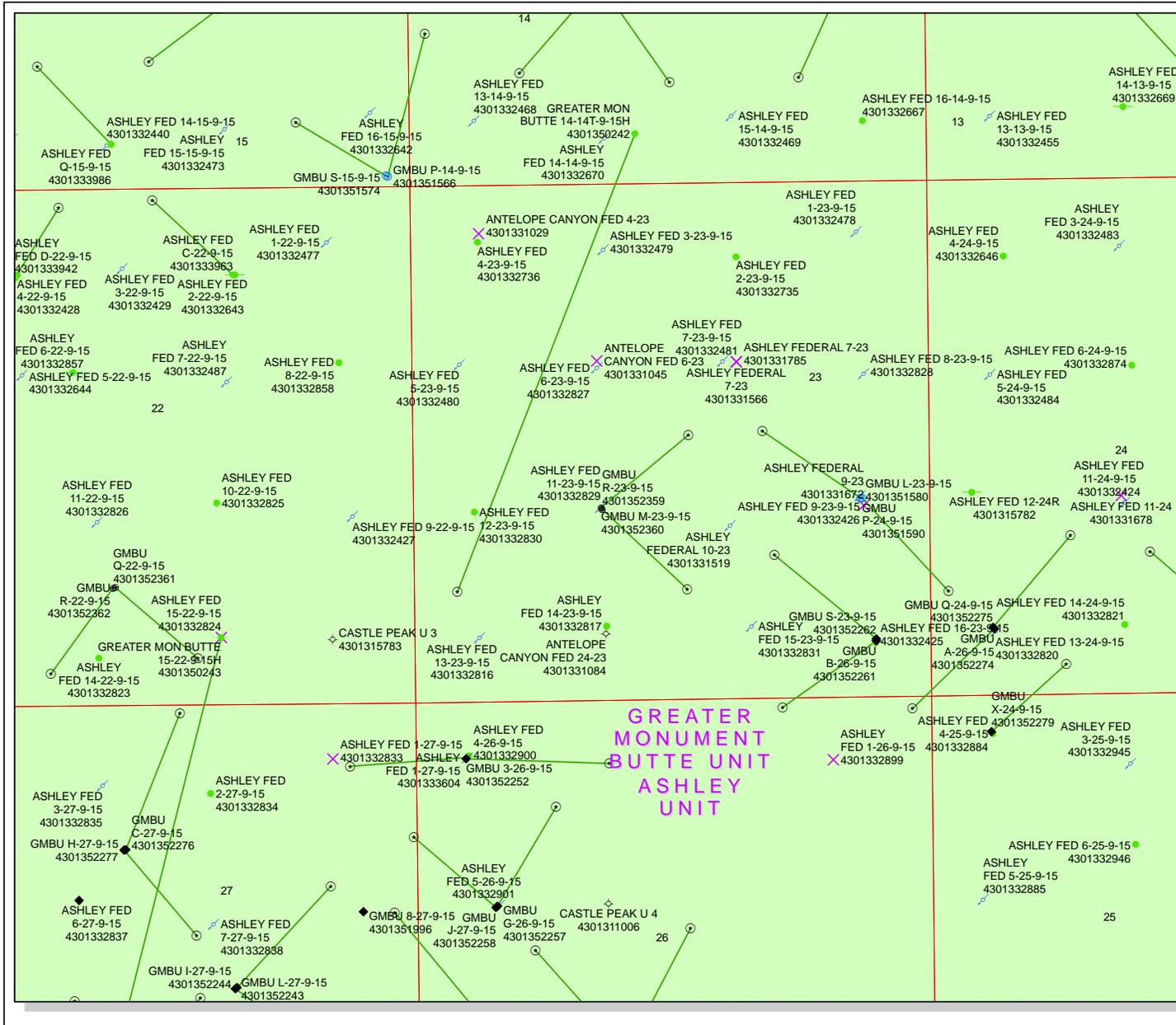
NOT TO SCALE

SURVEYED BY: S.H.	DATE SURVEYED: 12-05-12	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 12-10-12	V1
SCALE: NONE	REVISED:	

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

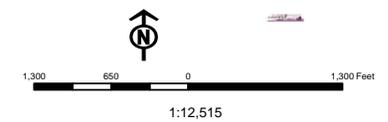
API Number: 4301352360
Well Name: GMBU M-23-9-15
Township T09.0S Range R15.0E Section 23
Meridian: SLBM
Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:
Map Produced by Diana Mason



Units STATUS

[Symbol]	ACTIVE
[Symbol]	EXPLORATORY
[Symbol]	GAS STORAGE
[Symbol]	NF PP OIL
[Symbol]	NF SECONDARY
[Symbol]	PI OIL
[Symbol]	PP GAS
[Symbol]	PP GEOTHERMAL
[Symbol]	PP OIL
[Symbol]	SECONDARY
[Symbol]	TERMINATED



NEWFIELD



VIA ELECTRONIC DELIVERY

Newfield Exploration Company

1001 17th Street | Suite 2000

Denver, Colorado 80202

PH 303-893-0102 | FAX 303-893-0103

August 12, 2013

State of Utah, Division of Oil, Gas and Mining

ATTN: Diana Mason

P.O. Box 145801

Salt Lake City, UT 84114-5801

RE: Directional Drilling
GMBU M-23-9-15
Greater Monument Butte (Green River) Unit

Surface Hole: T9S-R15E Section 23: NESW (UTU-66185)
1977' FSL 1919' FWL

At Target: T9S-R15E Section 23: SWNE (UTU-66185)
2580' FNL 2465' FEL

Duchesne County, Utah

Dear Ms. Mason:

Pursuant to the filing by Newfield Production Company (NPC) of an Application for Permit to Drill the above referenced well dated 8/6/2013, a copy of which is attached, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

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

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

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

Sincerely,
Newfield Production Company

A handwritten signature in blue ink that reads "Leslie Burget".

Leslie Burget
Land Associate

Form 3160-3
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU66185
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator NEWFIELD EXPLORATION		7. If Unit or CA Agreement, Name and No. GMBU
Contact: HEATHER CALDER E-Mail: hcalder@newfield.com		8. Lease Name and Well No. GMBU M-23-9-15
3a. Address ROUTE 3 BOX 3630 MYTON, UT 84052	3b. Phone No. (include area code) Ph: 435-646-4936 Fx: 435-646-4936	9. API Well No.
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NESW 1977FSL 1919FWL At proposed prod. zone SWNE 2580FNL 2465FEL		10. Field and Pool, or Exploratory MONUMENT BUTTE
14. Distance in miles and direction from nearest town or post office* 16.5 MILES SOUTH OF MYTON, UT		11. Sec., T., R., M., or Blk. and Survey or Area Sec 23 T9S R15E Mer SLB
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 2465'	16. No. of Acres in Lease 2286.40	12. County or Parish DUCHESNE
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 1124'	19. Proposed Depth 6012 MD 5880 TVD	13. State UT
21. Elevations (Show whether DF, KB, RT, GL, etc.) 6352 GL	22. Approximate date work will start 09/01/2013	17. Spacing Unit dedicated to this well 20.00
		20. BLM/BIA Bond No. on file WYB000493
		23. Estimated duration 7 DAYS

24. Attachments

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

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | <ol style="list-style-type: none"> 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 5. Operator certification 6. Such other site specific information and/or plans as may be required by the authorized officer. |
|--|--|

25. Signature (Electronic Submission)	Name (Printed/Typed) HEATHER CALDER Ph: 435-646-4936	Date 08/06/2013
Title PRODUCTION TECHNICIAN		
Approved by (Signature)	Name (Printed/Typed)	Date
Title	Office	

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

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

Additional Operator Remarks (see next page)

**Electronic Submission #216181 verified by the BLM Well Information System
For NEWFIELD EXPLORATION, sent to the Vernal**

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

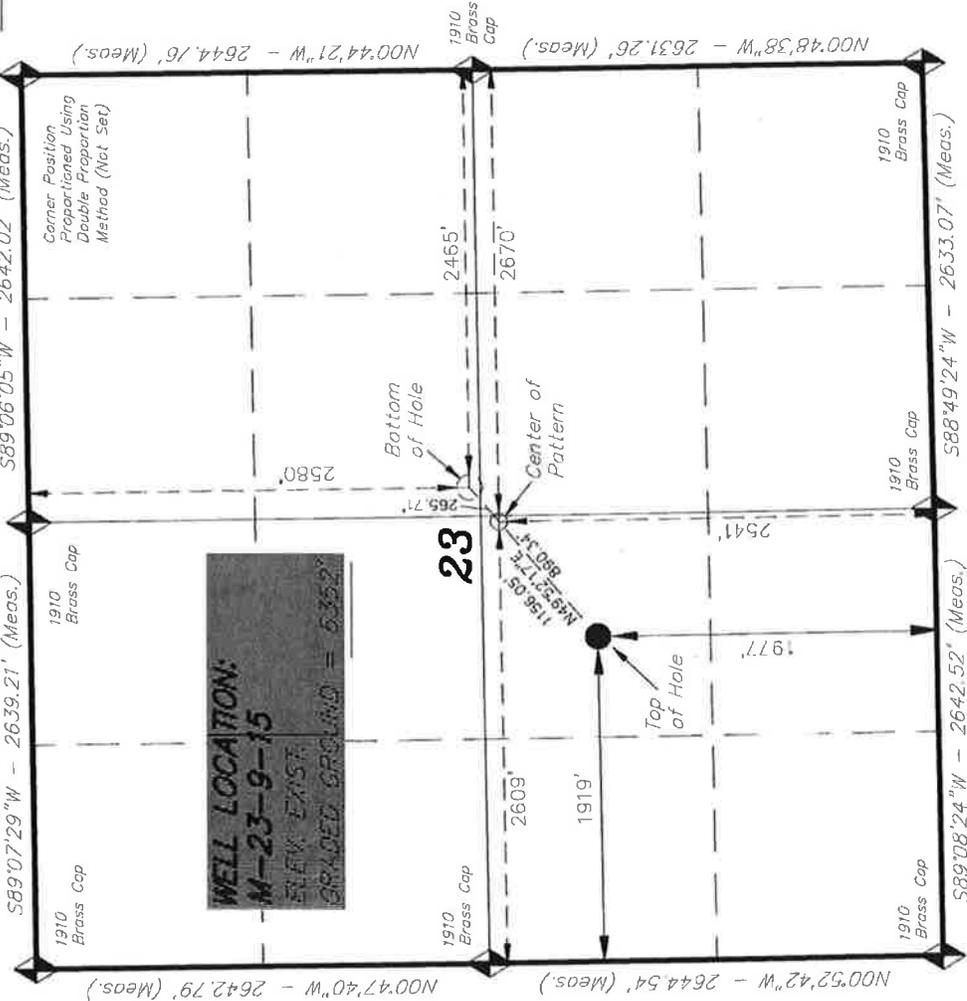
API Well Number: 43013523600000

Additional Operator Remarks:

SURFACE HOLE LEASE:UTU66185
BOTTOM HOLE LEASE:UTU66185

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

NEWFIELD EXPLORATION COMPANY



WELL LOCATION, M-23-9-15, LOCATED AS SHOWN IN THE NE 1/4 SW 1/4 OF SECTION 23, T9S, R15E, S.L.B.&M. DUCHESNE COUNTY, UTAH.

TARGET BOTTOM HOLE, M-23-9-15, LOCATED AS SHOWN IN THE SW 1/4 NE 1/4 OF SECTION 23, T9S, R15E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



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

THIS IS TO CERTIFY THAT THE ABOVE SURVEY 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.

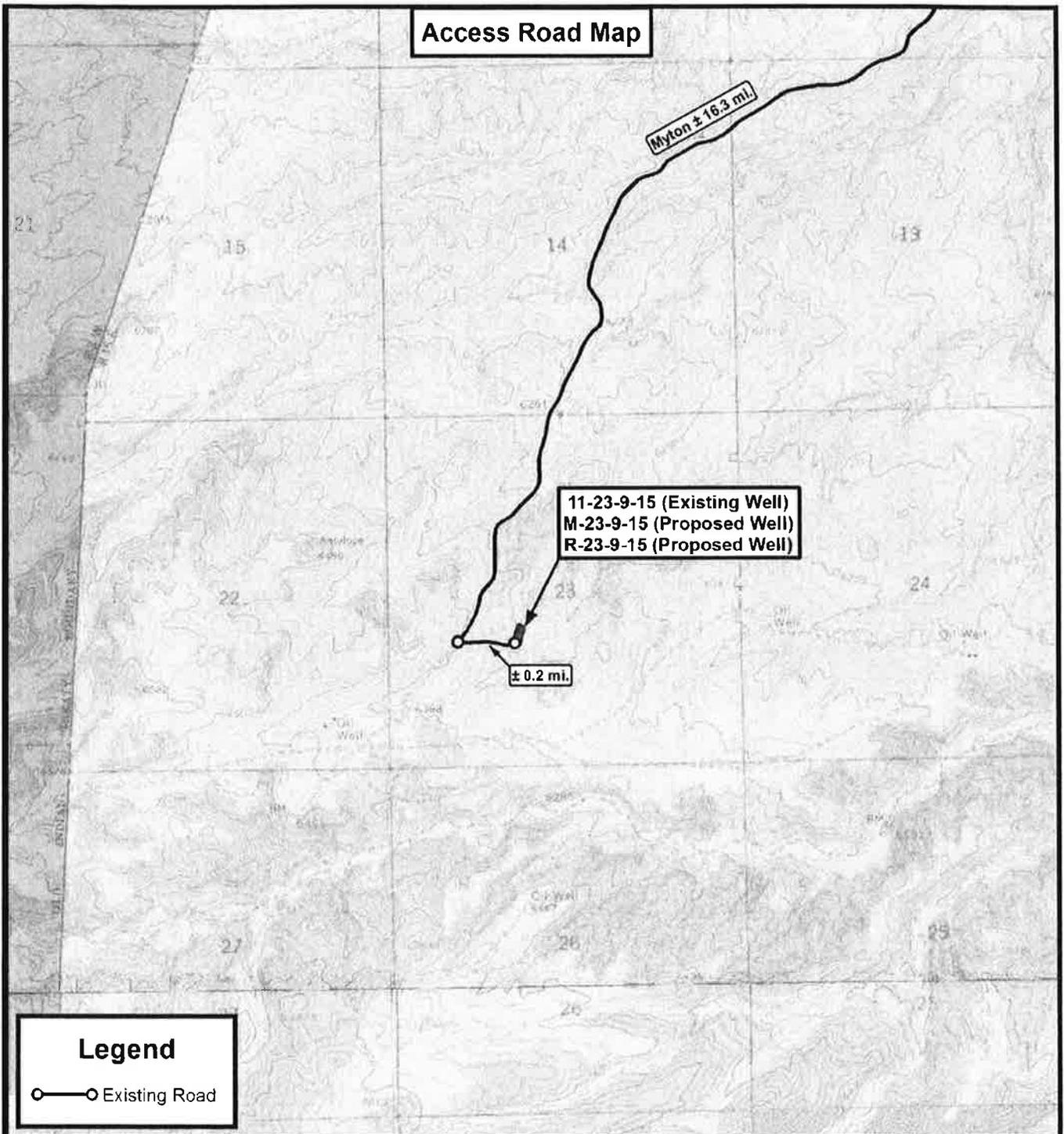
STACY W.
 12-10-12
 REGISTERED LAND SURVEYOR
 STATE OF UTAH
 REGISTRATION NO. 189377

TRI STATE LAND SURVEYING & CONSULTING 180 NORTH VERNAL AVE. - VERNAL, UTAH 84078 (435) 781-2501	
DATE SURVEYED: 12-05-'12	SURVEYED BY: S.H.
DATE DRAWN: 12-10-12	DRAWN BY: V.H.
REVISED:	SCALE: 1" = 1000'
VERSION: V1	

NAD 83 (SURFACE LOCATION) LATITUDE = 40°00'52.43" LONGITUDE = 110°21'07.13"	NAD 83 (CENTER OF PATTERN) LATITUDE = 40°00'58.00" LONGITUDE = 110°11'58.28"
NAD 27 (SURFACE LOCATION) LATITUDE = 40°00'52.56" LONGITUDE = 110°12'04.58"	NAD 27 (CENTER OF PATTERN) LATITUDE = 40°00'58.14" LONGITUDE = 110°11'58.73"
NAD 83 (BOTTOM HOLE LOCATION) LATITUDE = 40°00'59.66" LONGITUDE = 110°11'55.63"	NAD 27 (BOTTOM HOLE LOCATION) LATITUDE = 40°00'59.80" LONGITUDE = 110°11'53.09"

☐ = SECTION CORNERS LOCATED

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



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

11-23-9-15 (Existing Well)
M-23-9-15 (Proposed Well)
R-23-9-15 (Proposed Well)
SEC. 23, T9S, R15E, S.L.B.&M. Duchesne County, UT.

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	12-13-2012		V1
SCALE:	1" = 2,000'		

TOPOGRAPHIC MAP

SHEET
B

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

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

IN REPLY REFER TO:
3160
(UT-922)

August 13, 2013

Memorandum

To: Assistant Field Office Manager Minerals,
Vernal Field Office

From: Michael Coulthard, Petroleum Engineer

Subject: 2013 Plan of Development Greater Monument
Butte Unit, Duchesne and Uintah Counties,
Utah.

Pursuant to email between Diana Mason, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2013 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-52336	GMBU U-8-9-16	Sec 16 T09S R16E 0674 FNL 0836 FWL BHL Sec 08 T09S R16E 0273 FSL 0094 FEL
43-013-52356	GMBU R-19-9-16	Sec 19 T09S R16E 1913 FSL 2144 FEL BHL Sec 19 T09S R16E 1002 FSL 2599 FEL
43-013-52357	GMBU N-19-9-16	Sec 19 T09S R16E 1788 FSL 2207 FWL BHL Sec 19 T09S R16E 2313 FNL 1036 FWL
43-013-52358	GMBU M-19-9-16	Sec 19 T09S R16E 1794 FSL 2227 FWL BHL Sec 19 T09S R16E 2425 FNL 2531 FEL
43-013-52359	GMBU R-23-9-15	Sec 23 T09S R15E 1958 FSL 1928 FWL BHL Sec 23 T09S R15E 1129 FSL 2487 FEL
43-013-52360	GMBU M-23-9-15	Sec 23 T09S R15E 1977 FSL 1919 FWL BHL Sec 23 T09S R15E 2580 FNL 2465 FEL
43-013-52361	GMBU Q-22-9-15	Sec 22 T09S R15E 1879 FSL 1542 FWL BHL Sec 22 T09S R15E 0996 FSL 0904 FWL
43-013-52362	GMBU R-22-9-15	Sec 22 T09S R15E 1882 FSL 1563 FWL BHL Sec 22 T09S R15E 1123 FSL 2420 FEL
43-013-52363	GMBU R-13-9-15	Sec 13 T09S R15E 1773 FSL 2080 FWL BHL Sec 13 T09S R15E 1096 FSL 2592 FEL
43-013-52364	GMBU M-13-9-15	Sec 13 T09S R15E 1784 FSL 2061 FWL BHL Sec 13 T09S R15E 2540 FNL 2262 FEL

RECEIVED: August 13, 2013

API #	WELL NAME	LOCATION						
(Proposed PZ GREEN RIVER)								
43-013-52365	GMBU S-13-9-15	Sec 13	T09S	R15E	1933	FSL	1921	FEL
		BHL Sec 13	T09S	R15E	1124	FSL	1068	FEL
43-013-52366	GMBU L-13-9-15	Sec 13	T09S	R15E	1936	FSL	1942	FEL
		BHL Sec 13	T09S	R15E	2501	FNL	0947	FEL
43-013-52367	GMBU Y-1-9-15	Sec 11	T09S	R15E	0840	FNL	0483	FEL
		BHL Sec 01	T09S	R15E	0275	FSL	0166	FWL
43-013-52368	GMBU S-19-9-16	Sec 19	T09S	R16E	1929	FSL	2130	FEL
		BHL Sec 19	T09S	R16E	1002	FSL	1025	FEL
43-047-53941	GMBU Q-26-8-17	Sec 26	T08S	R17E	2222	FSL	2099	FWL
		BHL Sec 26	T08S	R17E	1100	FSL	1094	FWL
43-047-53942	GMBU R-26-8-17	Sec 26	T08S	R17E	2230	FSL	2119	FWL
		BHL Sec 26	T08S	R17E	1096	FSL	2526	FEL

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

Michael Coulthard

Digitally signed by Michael Coulthard
 DN: cn=Michael Coulthard, o=Bureau of Land Management,
 ou=Division of Minerals, email=mcoultha@blm.gov, c=US
 Date: 2013.08.13 11:27:16 -0600

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

MCoulthard:mc:8-13-13

RECEIVED: August 13, 2013

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 8/5/2013

API NO. ASSIGNED: 43013523600000

WELL NAME: GMBU M-23-9-15

OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695)

PHONE NUMBER: 435 646-4936

CONTACT: Heather Calder

PROPOSED LOCATION: NESW 23 090S 150E

Permit Tech Review:

SURFACE: 1977 FSL 1919 FWL

Engineering Review:

BOTTOM: 2580 FNL 2465 FEL

Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.01455

LONGITUDE: -110.20198

UTM SURF EASTINGS: 568105.00

NORTHINGS: 4429677.00

FIELD NAME: MONUMENT BUTTE

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-66185

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 M-23-9-15
API Well Number: 4301352360000
Lease Number: UTU-66185
Surface Owner: FEDERAL
Approval Date: 8/15/2013

Issued to:

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

Authority:

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

Duration:

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

General:

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

Conditions of Approval:

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

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

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

Notification Requirements:

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

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

(please leave a voicemail message if not available)

OR

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

Reporting Requirements:

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

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

Approved By:

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

For John Rogers
Associate Director, Oil & Gas

RECEIVED

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

AUG 08 2013

BLM Vernal UT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
UTU66185

6. If Indian, Allottee or Tribe Name

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

8. Lease Name and Well No.
GMBU M-23-9-15

9. API Well No.
43013 52360

10. Field and Pool, or Exploratory
MONUMENT BUTTE

11. Sec., T., R., M., or Blk. and Survey or Area
Sec 23 T9S R15E Mer SLB

12. County or Parish
DUCHESNE

13. State
UT

17. Spacing Unit dedicated to this well
20.00

20. BLM/BIA Bond No. on file
WYB000493

23. Estimated duration
7 DAYS

1a. Type of Work: DRILL REENTER

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

2. Name of Operator
NEWFIELD EXPLORATION

Contact: HEATHER CALDER
E-Mail: hcalder@newfield.com

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

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

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

At surface NESW 1977FSL 1919FWL

At proposed prod. zone SWNE 2580FNL 2465FEL

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

15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)
2465'

16. No. of Acres in Lease
2286.40

DIV. OF OIL, GAS & MINING

18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.
1124'

19. Proposed Depth
6012 MD
5880 TVD

21. Elevations (Show whether DF, KB, RT, GL, etc.)
6352 GL

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

24. Attachments

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

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

25. Signature (Electronic Submission) Name (Printed/Typed) HEATHER CALDER Ph: 435-646-4936 Date 08/06/2013

Title PRODUCTION TECHNICIAN

Approved by (Signature) Name (Printed/Typed) Jerry Kenczka Date DEC 09 2013

Title Assistant Field Manager Lands & Mineral Resources Office VERNAL FIELD OFFICE

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

CONDITIONS OF APPROVAL ATTACHED

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

Additional Operator Remarks (see next page)

Electronic Submission #216181 verified by the BLM Well Information System
For NEWFIELD EXPLORATION, sent to the Vernal
Committed to AFMSS for processing by LESLIE BUHLER on 08/09/2013



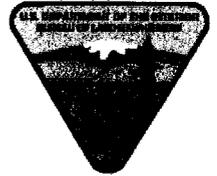
NOTICE OF APPROVAL

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



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

170 South 500 East VERNAL, UT 84078 (435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Newfield Production Company
Well No: GMBU M-23-9-15
API No: 43-013-52360

Location: NESW, Sec. 23, T9S, R15E
Lease No: UTU-66185
Agreement:

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

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

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

NOTIFICATION REQUIREMENTS

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

***SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)***

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

Green River District Reclamation Guidelines

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

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

CONDITIONS OF APPROVAL

Wildlife

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

- WFM-1 On level or gently sloping ground (5 percent slope or less) Newfield will elevate surface pipelines (4 inches or greater in diameter) a minimum of 6 inches above the ground to allow

passage of small animals beneath the pipe. This ground clearance will be achieved by placing the pipeline on blocks at intervals of 150 to 200 feet.

- WFM-4 Newfield will install noise reduction devices on all pump jacks to reduce intermittent noise to 45 dBA at 660 feet from the source.

COA's derived from mitigating measures in the EA:

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

- For areas of fresh water collection, an infiltration gallery will be constructed in a Service approved location. An infiltration gallery is basically a pit or trench dug within the floodplain to a depth below the water table. Water is drawn from the pit rather than from the river directly. If this is not possible, limit pumping within the river to off-channel locations that do not connect to the river during high spring flows.
- If water cannot be drawn using the measures above and the pump head will be located in the river channel where larval fish are known to occur, the following measures apply:
 - Avoid pumping from low-flow or no-flow areas as these habitats tend to concentrate larval fish
 - Avoid pumping to the greatest extent possible, during that period of the year when larval fish may be present (see previous bullet); and
 - Avoid pumping, to the greatest extent possible, during the midnight hours (10:00 p.m. to 2:00 a.m.) as larval drift studies indicate that this is a period of greatest daily activity. Dusk is the preferred pumping time, as larval drift abundance is lowest during this time.
 - Screen all pump intakes with 3/32-inch mesh material.
- Report any fish impinged on the intake screen to the FWS office (801.975.3330) and the:
Utah Division of Wildlife Resources
Northeastern Region
152 East 100 North
Vernal, UT 84078
(435) 781-9453

Air Quality

1. All internal combustion equipment will be kept in good working order.
2. 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.
3. Open burning of garbage or refuse will not occur at well sites or other facilities.
4. Drill rigs will be equipped with Tier II or better diesel engines.
5. Low bleed pneumatics will be installed on separator dump valves and other controllers.
6. 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.
7. Telemetry will be installed to remotely monitor and control production.
8. When feasible, two or more rigs (including drilling and completion rigs) will not be run simultaneously within 200 meters of each other. If two or more rigs must be run simultaneously within 200 meters of each other, then effective public health buffer zones out to 200 meters (m) from the nearest emission source will be implemented. Examples of an effective public health protection buffer zone include the demarcation of a public access exclusion zone by signage at

intervals of every 250 feet that is visible from a distance of 125 feet during daylight hours, and a physical buffer such as active surveillance to ensure the property is not accessible by the public during drilling operations. Alternatively, the proponent may demonstrate compliance with the 1-hour NO₂ National Ambient Air Quality Standards (NAAQS) with appropriate and accepted near-field modeling. As part of this demonstration, the proponent may propose alternative mitigation that could include but is not limited to natural gas-fired drill rigs, installation of NO_x controls, time/use restrictions, and/or drill rig spacing.

9. Green completions will be used for all well completion activities where technically feasible.
10. 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 comply with all applicable 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 by CD (compact disc). This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid,

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

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Ross 29 Submitted By
Branden Arnold Phone Number 435-401-0223
Well Name/Number GMBU M-23-9-15
Qtr/Qtr NE/SW Section 23 Township 9S Range 15E
Lease Serial Number UTU-66185
API Number 43-013-52360

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

Date/Time 1/11/14 7:00 AM PM

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

- Surface Casing
- Intermediate Casing
- Production Casing
- Liner
- Other

Date/Time 1/11/14 3:00 AM PM

BOPE

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

Date/Time _____ AM PM

Remarks _____

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-66185
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		8. WELL NAME and NUMBER: GMBU M-23-9-15
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052		9. API NUMBER: 43013523600000
PHONE NUMBER: 435 646-4825 Ext		9. FIELD and POOL or WILDCAT: MONUMENT BUTTE
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1977 FSL 1919 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 23 Township: 09.0S Range: 15.0E Meridian: S		COUNTY: DUCHESNE
		STATE: UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 1/11/2014	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT 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 type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>

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

On 1/11/14 Drill and set 4' of 14" conductor. Drill f/4' to 330' KB of 12 1/4 hole. P/U and run 7 joints of 8 5/8 casing set depth 325'KB. On 1/14/14 Cement w/200 sx of G Neat cement returned 10 bbls back to pit and bumped plug to 300 psi.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
January 21, 2014**

NAME (PLEASE PRINT) Cherei Neilson	PHONE NUMBER 435 646-4883	TITLE Drilling Technician
SIGNATURE N/A	DATE 1/21/2014	

NEWFIELD

Casing

Conductor



Legal Well Name GMBU M-23-9-15		Wellbore Name Original Hole	
API/UWI 43013523600000	Surface Legal Location NESW 1977 FSL 1919 FWL Sec 23 T9S R15E Mer SLB	Field Name GMBU CTB3	Well Type Development
Well RC 500366924	County Duchesne	State/Province Utah	Spud Date 1/11/2014 08:30
		Well Configuration Type Slant	
		Final Rig Release Date 1/21/2014 07:00	

Wellbore					
Wellbore Name Original Hole				Kick Off Depth (ftKB)	
Section Des	Size (in)	Actual Top Depth (MD) (ftKB)	Actual Bottom Depth (MD) (ftKB)	Start Date	End Date
Conductor	14	10	15	1/11/2014	1/11/2014

Wellhead				
Type	Install Date	Service	Comment	

Wellhead Components				
Des	Make	Model	SN	WP Top (psi)

Casing				
Casing Description Conductor	Set Depth (ftKB) 15	Run Date 1/11/2014	Set Tension (kips)	
Centralizers	Scratchers			

Casing Components												
Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)	Mk-up Tq (ft-lb)	Class	Max OD (in)
Conductor	14	13.500	36.75	H-40		1	5.00	10.0	15.0			

Jewelry Details									
External Casing Packer									
Type	Setting Requirement	Release Requirements			Inflation Method	Vol Inflation (gal)	Equiv Hole Sz (in)		
Inflation Fluid Type	Infl FI Dens (lb/gal)	P AV Set (psi)	AV Acting Pressure (psi)	P ICV Set (psi)	P ICV Act (psi)	ECP Load (1000lbf)	Seal Load (1000lbf)		

Slotted Liner							
% Open Area (%)	Perforation Min Dimension (in)	Perforation Max Dimension (in)	Axial Perf Spacing (ft)	Perf Rows	Blank Top Length (ft)	Blank Bottom Length (ft)	
Slot Description	Slot Pattern			Slot Length (in)	Slot Width (in)	Slot Frequency	Screen Gauge (ga)

Liner Hanger						
Retrievable?	Elastomer Type	Element Center Depth (ft)		Polish Bore Size (in)	Polish Bore Length (ft)	
Slip Description				Set Mechanics		
Setting Procedure						
Unsetting Procedure						

NEWFIELD

Casing

Surface

Legal Well Name GMBU M-23-9-15		Wellbore Name Original Hole	
API/UWI 43013523600000	Surface Legal Location NESW 1977 FSL 1919 FWL Sec 23 T9S R15E Mer SLB	Field Name GMBU CTB3	Well Type Development
Well RC 500366924	County Duchesne	State/Province Utah	Spud Date 1/11/2014 08:30
		Well Configuration Type Slant	
		Final Rig Release Date 1/21/2014 07:00	

Wellbore					
Wellbore Name Original Hole					Kick Off Depth (ftKB)
Section Des	Size (in)	Actual Top Depth (MD) (ftKB)	Actual Bottom Depth (MD) (ftKB)	Start Date	End Date
Conductor	14	10	15	1/11/2014	1/11/2014
Vertical	12 1/4	15	332	1/11/2014	1/11/2014
Slant	7 7/8	332	6,188	1/11/2014	1/21/2014

Wellhead				
Type	Install Date	Service	Comment	

Wellhead Components				
Des	Make	Model	SN	WP Top (psi)

Casing				
Casing Description	Set Depth (ftKB)	Run Date	Set Tension (kips)	
Surface	325	1/11/2014		
Centralizers	Scratchers			
3				

Casing Components												
Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)	Mk-up Tq (ft•lb)	Class	Max OD (in)
Wellhead	8 5/8	8.097	24.00	J-55		1	2.00	10.0	12.0			
Casing Joints	8 5/8	8.097	24.00	J-55		0	0.00	12.0	12.0			
Cut Off	8 5/8	8.097	24.00	J-55		1	42.72	12.0	54.7			
Casing Joints	8 5/8	8.097	24.00	J-55		5	223.98	54.7	278.7			
Float Collar	8 5/8	8.097	24.00	J-55		1	1.00	278.7	279.7			
Shoe Joint	8 5/8	8.097	24.00	J-55		1	43.85	279.7	323.6			
Guide Shoe	8 5/8	8.097	24.00	J-55		1	1.50	323.6	325.1			

Jewelry Details							
External Casing Packer							
Type	Setting Requirement	Release Requirements		Inflation Method	Vol Inflation (gal)	Equiv Hole Sz (in)	
Inflation Fluid Type	Infl FI Dens (lb/gal)	P AV Set (psi)	AV Acting Pressure (psi)	P ICV Set (psi)	P ICV Act (psi)	ECP Load (1000lbf)	Seal Load (1000lbf)

Slotted Liner							
% Open Area (%)	Perforation Min Dimension (in)	Perforation Max Dimension (in)	Axial Perf Spacing (ft)	Perf Rows	Blank Top Length (ft)	Blank Bottom Length (ft)	
Slot Description	Slot Pattern		Slot Length (in)	Slot Width (in)	Slot Frequency	Screen Gauge (ga)	

Liner Hanger				
Retrievable?	Elastomer Type	Element Center Depth (ft)	Polish Bore Size (in)	Polish Bore Length (ft)
Slip Description	Set Mechanics			

Setting Procedure
Unsetting Procedure

NEWFIELD



Schematic

43-013-52360

Well Name: GMBU M-23-9-15

Surface Legal Location NESW 1977 FSL 1919 FWL Sec 23 T9S R15E Mer SLB			API/UWI 43013523600000	Well RC 500366924	Lease UTU66185	State/Province Utah	Field Name GMBU CTB3	County Duchesne
Spud Date 1/11/2014	Rig Release Date 1/21/2014	On Production Date	Original KB Elevation (ft) 6,362	Ground Elevation (ft) 6,352	Total Depth All (TVD) (ftKB) Original Hole - 6,054.4	PBSD (All) (ftKB) Original Hole - 6,130.9		

Most Recent Job

Job Category Production / Workover	Primary Job Type Repairs	Secondary Job Type Pump Repair	Job Start Date 3/13/2014	Job End Date 3/17/2014
---------------------------------------	-----------------------------	-----------------------------------	-----------------------------	---------------------------

TD: 6,188.0

Slant - Original Hole, 3/26/2014 2:02:04 PM

