API Well Number: 43013519670000

**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 B-21-9-17

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

**3. FIELD OR WILDCAT**
MONUMENT BUTTE

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

**5. UNIT or COMMUNITIZATION AGREEMENT NAME**
GMBU (GRRV)

**6. NAME OF OPERATOR**
NEWFIELD PRODUCTION COMPANY

**7. OPERATOR PHONE**
435 646-4825

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

**9. OPERATOR E-MAIL**
mcrozier@newfield.com

**10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)**
UTU-13905

**11. MINERAL OWNERSHIP**
FEDERAL ● INDIAN ○ STATE ○ FEE ○

**12. SURFACE OWNERSHIP**
FEDERAL ○ INDIAN ○ STATE ● FEE ○

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

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

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

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

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

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

**19. SLANT**
VERTICAL ○ DIRECTIONAL ● HORIZONTAL ○

| 20. LOCATION OF WELL | FOOTAGES | QTR-QTR | SECTION | TOWNSHIP | RANGE | MERIDIAN |
|---|---|---|---|---|---|---|
| LOCATION AT SURFACE | 661 FSL 665 FEL | SESE | 16 | 9.0 S | 17.0 E | S |
| Top of Uppermost Producing Zone | 209 FSL 1036 FEL | SESE | 16 | 9.0 S | 17.0 E | S |
| At Total Depth | 238 FNL 1427 FEL | NWNE | 21 | 9.0 S | 17.0 E | S |

**21. COUNTY**
DUCHESNE

**22. DISTANCE TO NEAREST LEASE LINE (Feet)**
238

**23. NUMBER OF ACRES IN DRILLING UNIT**
20

**25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)**
856

**26. PROPOSED DEPTH**
MD: 5746 TVD: 5600

**27. ELEVATION - GROUND LEVEL**
5303

**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 - 5746 | 15.5 | J-55 LT&C | 8.3 | Premium Lite High Strength | 259 | 3.43 | 11.0 |
| | | | | | | | 50/50 Poz | 363 | 1.24 | 14.4 |

### ATTACHMENTS

**VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES**

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

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

**SIGNATURE** | **DATE** 01/10/2013 | **EMAIL** mcrozier@newfield.com

**API NUMBER ASSIGNED**
43013519670000

**APPROVAL**

Permit Manager

RECEIVED: March 04, 2013

NEWFIELD PRODUCTION COMPANY
GMBU B-21-9-17
AT SURFACE: SE/SE SECTION 16, T9S R17E
DUCHESNE COUNTY, UTAH

TEN POINT DRILLING PROGRAM

1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

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

| | |
|---|---|
| Uinta | 0' – 1190' |
| Green River | 1190' |
| Wasatch | 5775' |
| **Proposed TD** | 5746' |

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

Green River Formation (Oil) 1190' – 5775'

Fresh water may be encountered in the Uinta Formation, but would not be expected below about 350'. All water shows and water bearing geologic units shall be reported to the geologic and engineering staff of the Vernal Office prior to running the next string of casing or before plugging orders are requested. All water shows must be reported within one (1) business day after being encountered.

All usable (<10,000 PPM TDS) water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by depth and adequately protected. This information shall be reported to the Vernal Office.

Detected water flows shall be sampled, analyzed, and reported to the geologic & engineering staff of the Vernal Office. The office may request additional water samples for further analysis. Usage of the State of Utah form *Report of Water Encountered* is acceptable, but not required.

The following information is requested for water shows and samples where applicable:

| | |
|---|---|
| Location & Sampled Interval | Date Sampled |
| Flow Rate | Temperature |
| Hardness | pH |
| Water Classification (State of Utah) | Dissolved Calcium (Ca) (mg/l) |
| Dissolved Iron (Fe) (ug/l) | Dissolved Sodium (Na) (mg/l) |
| Dissolved Magnesium (Mg) (mg/l) | Dissolved Carbonate ($CO_3$) (mg/l) |
| Dissolved Bicarbonate ($NaHCO_3$) (mg/l) | Dissolved Chloride (Cl) (mg/l) |
| Dissolved Sulfate ($SO_4$) (mg/l) | Dissolved Total Solids (TDS) (mg/l) |

RECEIVED: January 10, 2013

## 4. *PROPOSED CASING PROGRAM*

### a. Casing Design: GMBU B-21-9-17

| Size | Interval | | Weight | Grade | Coupling | Design Factors | | |
|---|---|---|---|---|---|---|---|---|
| | Top | Bottom | | | | Burst | Collapse | Tension |
| Surface casing 8-5/8" | 0' | 300' | 24.0 | J-55 | STC | 2,950<br>17.53 | 1,370<br>14.35 | 244,000<br>33.89 |
| Prod casing 5-1/2" | 0' | 5,746' | 15.5 | J-55 | LTC | 4,810<br>2.63 | 4,040<br>2.21 | 217,000<br>2.44 |

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 B-21-9-17

| Job | Fill | Description | Sacks<br>$ft^3$ | OH Excess* | Weight (ppg) | Yield ($ft^3$/sk) |
|---|---|---|---|---|---|---|
| Surface casing | 300' | Class G w/ 2% CaCl | 138<br>161 | 30% | 15.8 | 1.17 |
| Prod casing Lead | 3,746' | Prem Lite II w/ 10% gel + 3% KCl | 259<br>844 | 30% | 11.0 | 3.26 |
| Prod casing Tail | 2,000' | 50/50 Poz w/ 2% gel + 3% KCl | 363<br>451 | 30% | 14.3 | 1.24 |

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

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

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

## 5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

RECEIVED: January 10, 2013

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

RECEIVED: January 10, 2013

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

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

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

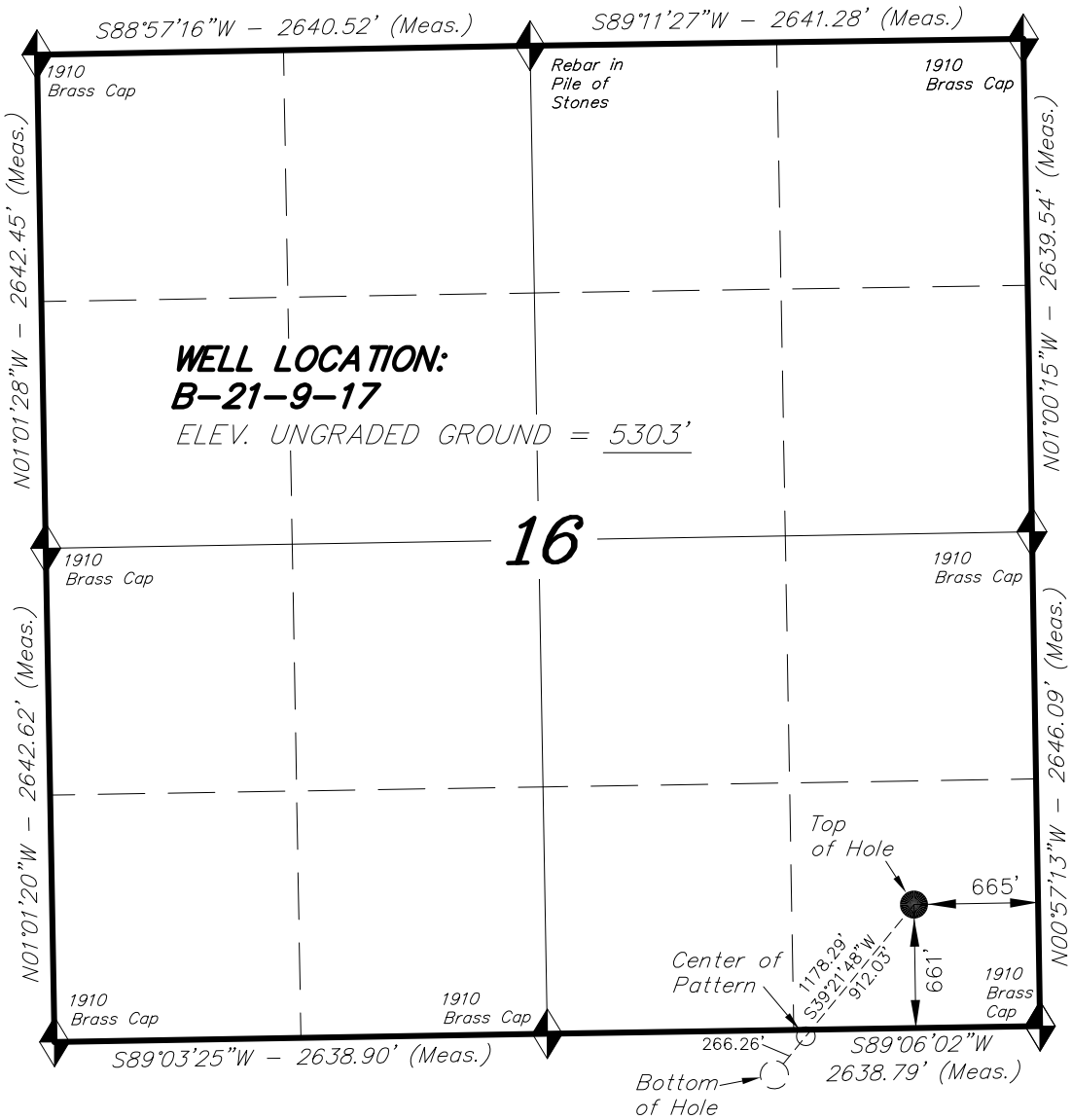
RECEIVED: January 10, 2013

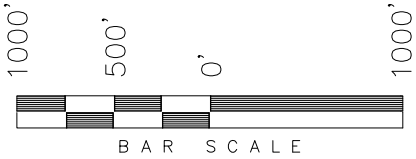
API Well Number: 43013519670000

# T9S, R17E, S.L.B.&M.

## NEWFIELD EXPLORATION COMPANY

WELL LOCATION, B-21-9-17, LOCATED AS SHOWN IN THE SE 1/4 SE 1/4 OF SECTION 16, T9S, R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.





**NOTES:**

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

= SECTION CORNERS LOCATED

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

REGISTERED LAND SURVEYOR
No. 189377
10-01-12
STACY W. STEWART
REGISTERED LAND SURVEYOR
REGISTRATION No. 189377
STATE OF UTAH
STATE OF UTAH

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°01'31.85" |
| LONGITUDE = 110°00'16.36" |
| **NAD 27 (SURFACE LOCATION)** |
| LATITUDE = 40°01'31.98" |
| LONGITUDE = 110°00'13.83" |


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


| | | |
|---|---|---|
| DATE SURVEYED: 02-28-11 | SURVEYED BY: S.V. | VERSION: |
| DATE DRAWN: 10-01-12 | DRAWN BY: V.H. | V2 |
| REVISED: | SCALE: 1" = 1000' | |

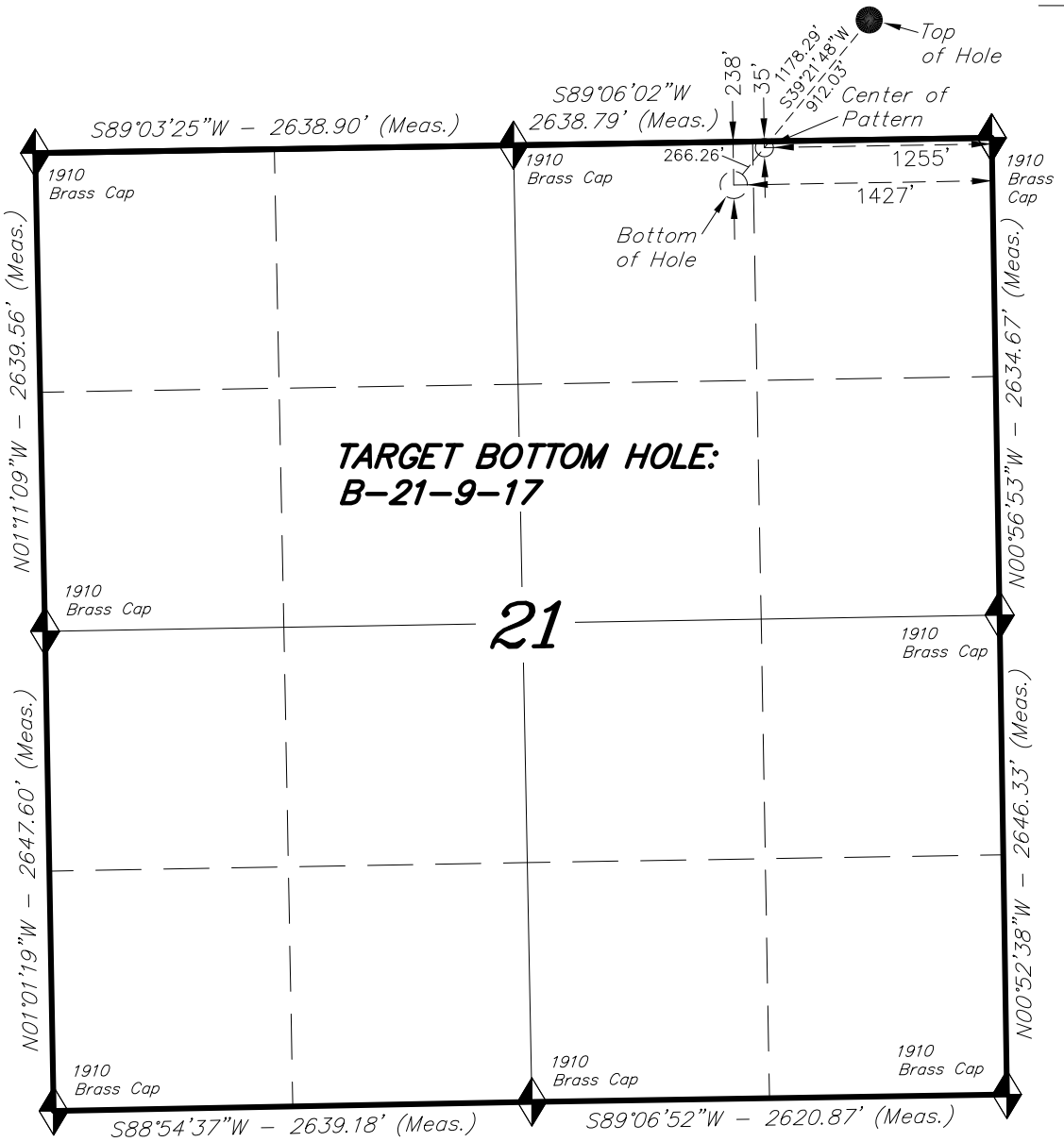

RECEIVED: January 10, 2013

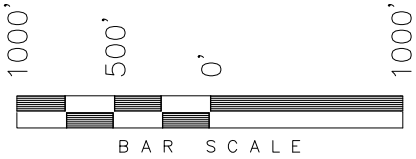
API Well Number: 43013519670000

# T9S, R17E, S.L.B.&M.

## NEWFIELD EXPLORATION COMPANY

TARGET BOTTOM HOLE, B-21-9-17,
LOCATED AS SHOWN IN THE NW 1/4
NE 1/4 OF SECTION 21, T9S, R17E,
S.L.B.&M. DUCHESNE COUNTY, UTAH.





**NOTES:**

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

◆ = SECTION CORNERS LOCATED

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

REGISTERED LAND SURVEYOR
No. 189377
10-01-12
STACY W. STEWART
REGISTERED LAND SURVEYOR
REGISTRATION No. [illegible]
STATE OF UTAH

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 (BOTTOM HOLE LOCATION) |
|---|
| LATITUDE = 40°01'22.97" |
| LONGITUDE = 110°00'26.16" |
| **NAD 27 (BOTTOM HOLE LOCATION)** |
| LATITUDE = 40°01'23.11" |
| LONGITUDE = 110°00'23.63" |

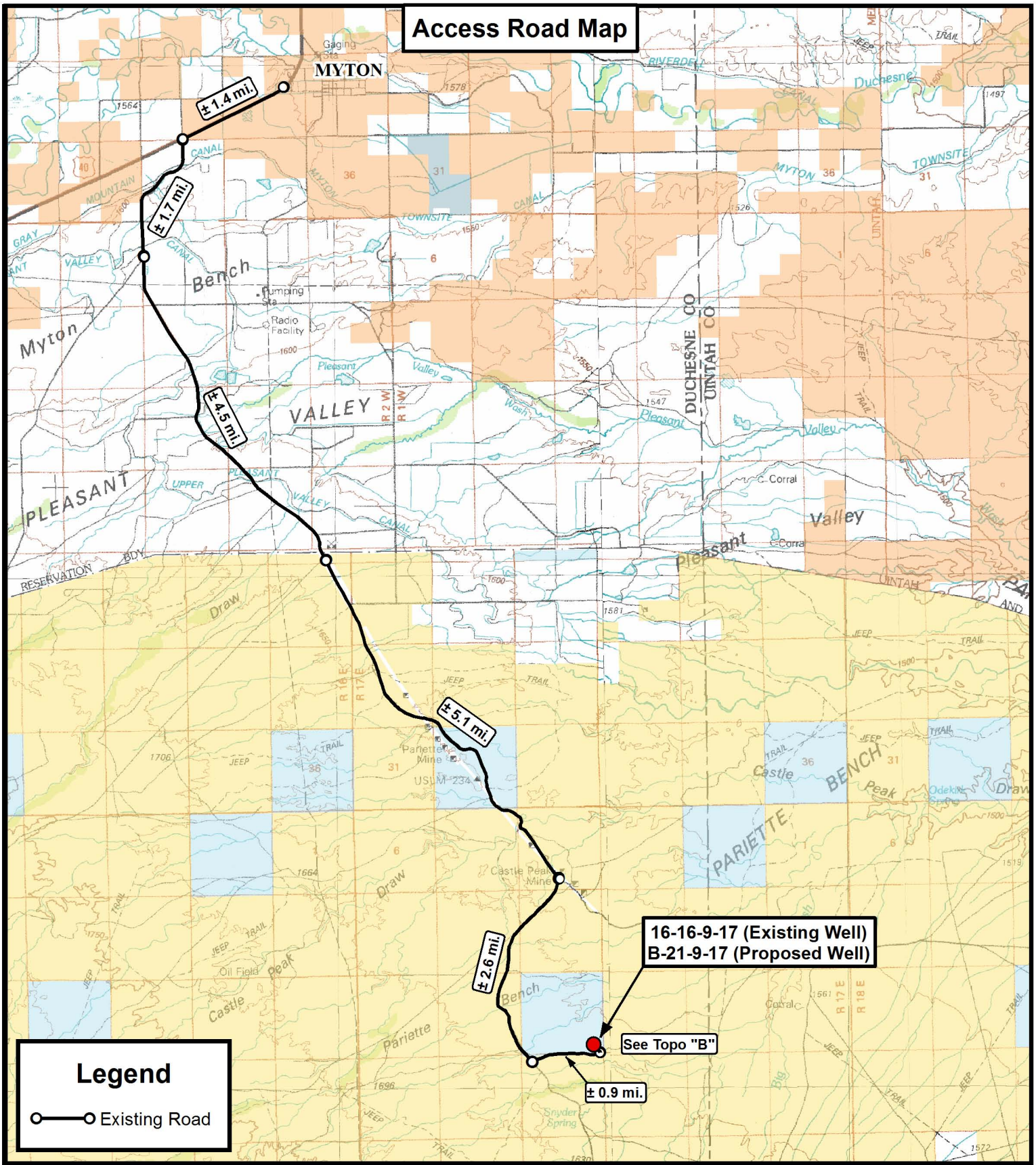

TRI STATE LAND SURVEYING & CONSULTING
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078
(435) 781-2501


| | | |
|---|---|---|
| DATE SURVEYED: 02-28-11 | SURVEYED BY: S.V. | VERSION: |
| DATE DRAWN: 10-01-12 | DRAWN BY: V.H. | V2 |
| REVISED: | SCALE: 1" = 1000' | |


RECEIVED: January 10, 2013

API Well Number: 43013519670000

# Access Road Map





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


N

**NEWFIELD EXPLORATION COMPANY**

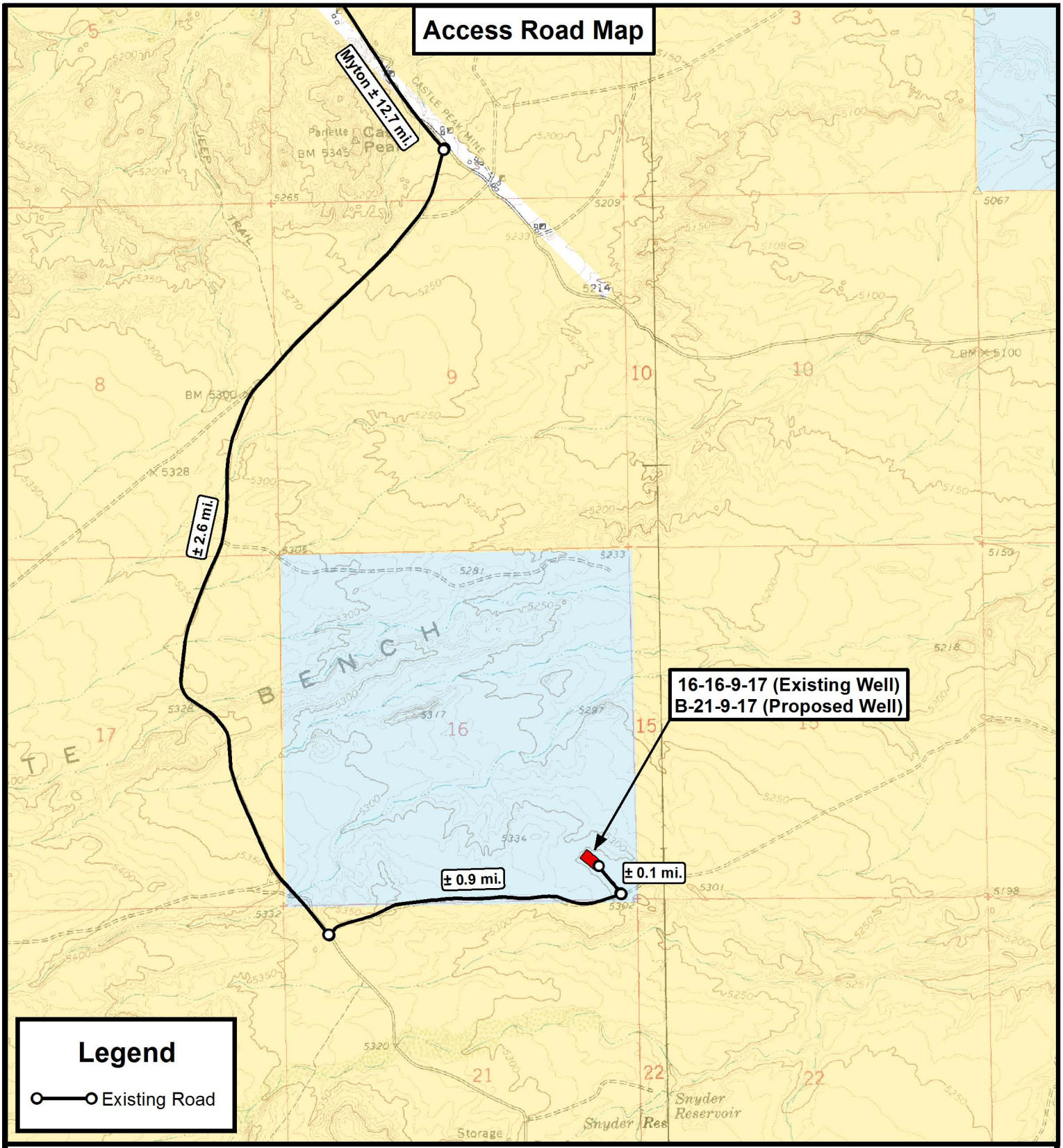
16-16-9-17 (Existing Well)
B-21-9-17 (Proposed Well)
SEC. 16, T9S, R17E, S.L.B.&M.
Duchesne County, UT.

| DRAWN BY: | A.P.C. | REVISED: | VERSION: |
|---|---|---|---|
| DATE: | 10-01-2012 | | V2 |
| SCALE: | 1:100,000 | | |

**TOPOGRAPHIC MAP**

SHEET A

API Well Number: 43013519670000




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


N

## NEWFIELD EXPLORATION COMPANY

16-16-9-17 (Existing Well)
B-21-9-17 (Proposed Well)
SEC. 16, T9S, R17E, S.L.B.&M.
Duchesne County, UT.

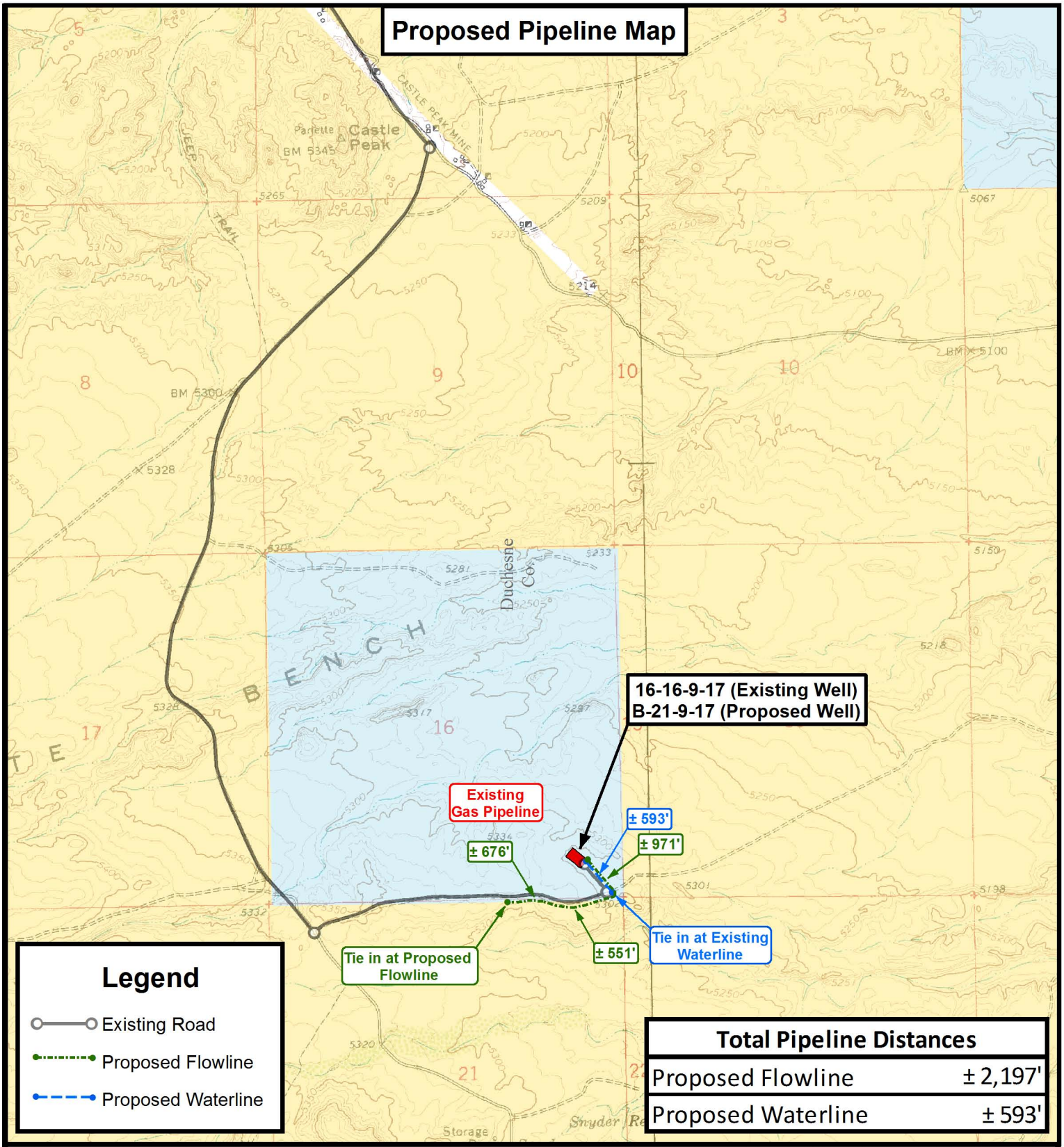
| | | | |
|---|---|---|---|
| DRAWN BY: | A.P.C. | REVISED: 10-01-12 A.P.C. | VERSION: |
| DATE: | 03-12-2012 | | V2 |
| SCALE: | 1 " = 2,000 ' | | |

TOPOGRAPHIC MAP

SHEET B

API Well Number: 43013519670000

# Proposed Pipeline Map




## Legend

- Existing Road
- Proposed Flowline
- Proposed Waterline

| Total Pipeline Distances | |
|---|---|
| Proposed Flowline | ± 2,197' |
| Proposed Waterline | ± 593' |

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


N

**NEWFIELD EXPLORATION COMPANY**

16-16-9-17 (Existing Well)
B-21-9-17 (Proposed Well)
SEC. 16, T9S, R17E, S.L.B.&M.
Duchesne County, UT.

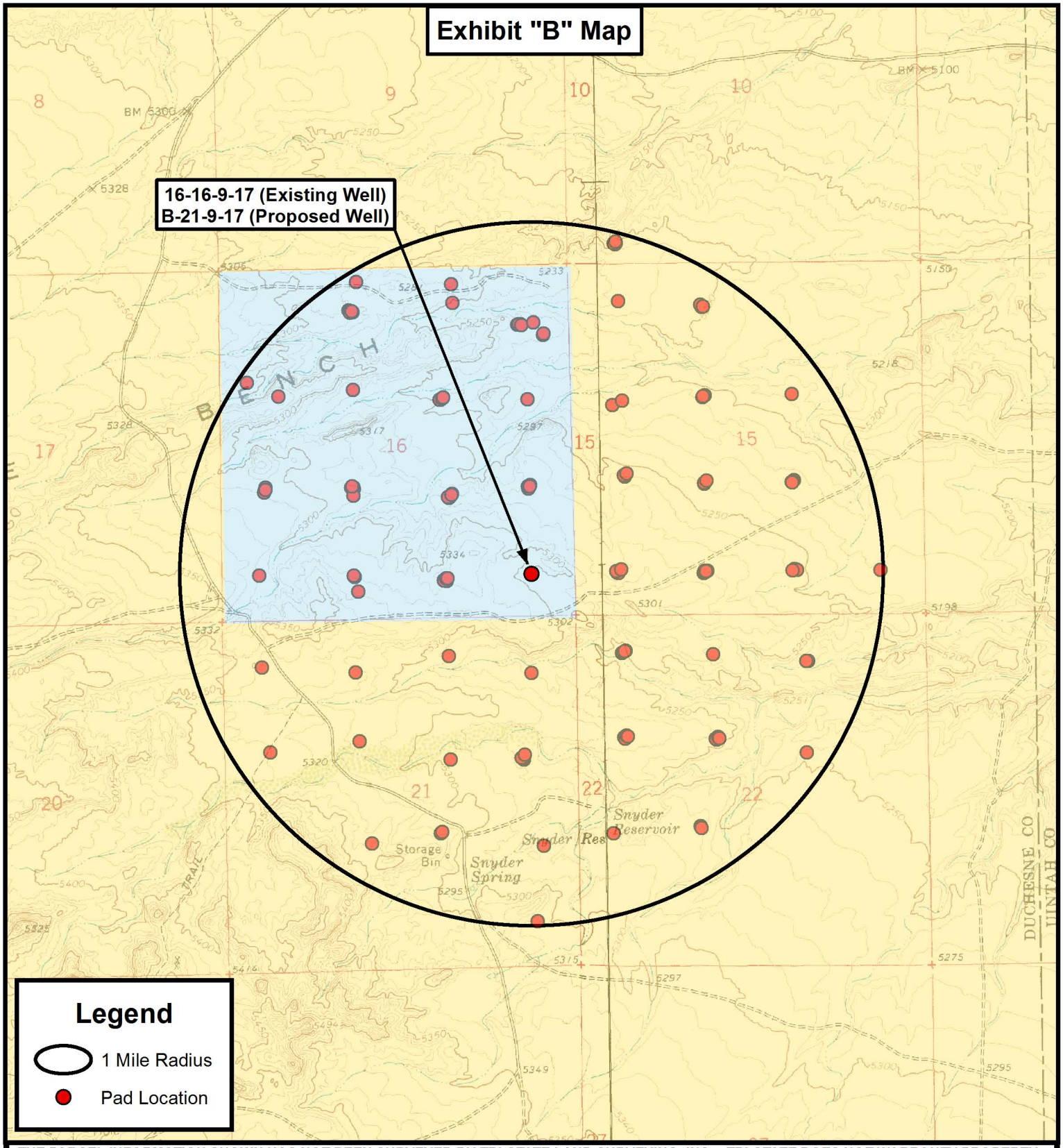
| DRAWN BY: | A.P.C. | REVISED: 10-01-12 A.P.C. | VERSION: |
|---|---|---|---|
| DATE: | 03-12-2012 | | V2 |
| SCALE: | 1 " = 2,000 ' | | |

TOPOGRAPHIC MAP

SHEET C

API Well Number: 43013519670000

# Exhibit "B" Map




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


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


N

**NEWFIELD EXPLORATION COMPANY**

16-16-9-17 (Existing Well)
B-21-9-17 (Proposed Well)
SEC. 16, T9S, R17E, S.L.B.&M.
Duchesne County, UT.

| DRAWN BY: | A.P.C. | REVISED: | VERSION: |
|---|---|---|---|
| DATE: | 10-01-2012 | | V2 |
| SCALE: | 1 " = 2,000 ' | | |

TOPOGRAPHIC MAP

SHEET D

API Well Number: 43013519670000

# NEWFIELD EXPLORATION

**USGS Myton SW (UT)**
**SECTION 16 T9S, R17E**
**B-21-9-17**

**Wellbore #1**

**Plan: Design #1**

# Standard Planning Report

**20 September, 2012**

RECEIVED: January 10, 2013

NEWFIELD

# Payzone Directional

## Planning Report

PAYZONE DIRECTIONAL

| | | | |
|---|---|---|---|
| **Database:** | EDM 2003.21 Single User Db | **Local Co-ordinate Reference:** | Well B-21-9-17 |
| **Company:** | NEWFIELD EXPLORATION | **TVD Reference:** | B-21-9-17 @ 5315.0ft (Original Well Elev) |
| **Project:** | USGS Myton SW (UT) | **MD Reference:** | B-21-9-17 @ 5315.0ft (Original Well Elev) |
| **Site:** | SECTION 16 T9S, R17E | **North Reference:** | True |
| **Well:** | B-21-9-17 | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Wellbore #1 | | |
| **Design:** | Design #1 | | |

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

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

**Site** SECTION 16 T9S, R17E, SEC 16 T9S, R17E

| | | | | | |
|---|---|---|---|---|---|
| **Site Position:** | | **Northing:** | 7,183,439.74 ft | **Latitude:** | 40° 1' 51.237 N |
| **From:** | Lat/Long | **Easting:** | 2,056,769.95 ft | **Longitude:** | 110° 0' 46.831 W |
| **Position Uncertainty:** | 0.0 ft | **Slot Radius:** | " | **Grid Convergence:** | 0.95 ° |

**Well** B-21-9-17, SHL LAT: 40 01 31.85 LONG: -110 00 16.37

| | | | | | | |
|---|---|---|---|---|---|---|
| **Well Position** | **+N/-S** | -1,961.7 ft | **Northing:** | 7,181,517.90 ft | **Latitude:** | 40° 1' 31.850 N |
| | **+E/-W** | 2,369.3 ft | **Easting:** | 2,059,171.67 ft | **Longitude:** | 110° 0' 16.370 W |
| **Position Uncertainty** | | 0.0 ft | **Wellhead Elevation:** | 5,315.0 ft | **Ground Level:** | 5,303.0 ft |

**Wellbore** Wellbore #1

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|---|---|---|---|---|---|
| | IGRF2010 | 9/20/2012 | 11.12 | 65.76 | 52,144 |

**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 (°) |
|---|---|---|---|---|
| | 4,581.0 | 0.0 | 0.0 | 219.36 |

**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 | |
| 1,576.3 | 14.64 | 219.36 | 1,565.7 | -95.9 | -78.7 | 1.50 | 1.50 | -14.41 | 219.36 | |
| 4,692.8 | 14.64 | 219.36 | 4,581.0 | -705.2 | -578.4 | 0.00 | 0.00 | 0.00 | 0.00 | B-21-9-17 TGT |
| 5,746.1 | 14.64 | 219.36 | 5,600.0 | -911.0 | -747.3 | 0.00 | 0.00 | 0.00 | 0.00 | |



RECEIVED: January 10, 2013

NEWFIELD

# Payzone Directional

## Planning Report

PAYZONE DIRECTIONAL

| | | | |
|---|---|---|---|
| **Database:** | EDM 2003.21 Single User Db | **Local Co-ordinate Reference:** | Well B-21-9-17 |
| **Company:** | NEWFIELD EXPLORATION | **TVD Reference:** | B-21-9-17 @ 5315.0ft (Original Well Elev) |
| **Project:** | USGS Myton SW (UT) | **MD Reference:** | B-21-9-17 @ 5315.0ft (Original Well Elev) |
| **Site:** | SECTION 16 T9S, R17E | **North Reference:** | True |
| **Well:** | B-21-9-17 | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Wellbore #1 | | |
| **Design:** | Design #1 | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 100.0 | 0.00 | 0.00 | 100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 500.0 | 0.00 | 0.00 | 500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 600.0 | 0.00 | 0.00 | 600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 700.0 | 1.50 | 219.36 | 700.0 | -1.0 | -0.8 | 1.3 | 1.50 | 1.50 | 0.00 |
| 800.0 | 3.00 | 219.36 | 799.9 | -4.0 | -3.3 | 5.2 | 1.50 | 1.50 | 0.00 |
| 900.0 | 4.50 | 219.36 | 899.7 | -9.1 | -7.5 | 11.8 | 1.50 | 1.50 | 0.00 |
| 1,000.0 | 6.00 | 219.36 | 999.3 | -16.2 | -13.3 | 20.9 | 1.50 | 1.50 | 0.00 |
| 1,100.0 | 7.50 | 219.36 | 1,098.6 | -25.3 | -20.7 | 32.7 | 1.50 | 1.50 | 0.00 |
| 1,200.0 | 9.00 | 219.36 | 1,197.5 | -36.4 | -29.8 | 47.0 | 1.50 | 1.50 | 0.00 |
| 1,300.0 | 10.50 | 219.36 | 1,296.1 | -49.5 | -40.6 | 64.0 | 1.50 | 1.50 | 0.00 |
| 1,400.0 | 12.00 | 219.36 | 1,394.2 | -64.5 | -52.9 | 83.5 | 1.50 | 1.50 | 0.00 |
| 1,500.0 | 13.50 | 219.36 | 1,491.7 | -81.6 | -66.9 | 105.5 | 1.50 | 1.50 | 0.00 |
| 1,576.3 | 14.64 | 219.36 | 1,565.7 | -95.9 | -78.7 | 124.1 | 1.50 | 1.50 | 0.00 |
| 1,600.0 | 14.64 | 219.36 | 1,588.6 | -100.6 | -82.5 | 130.1 | 0.00 | 0.00 | 0.00 |
| 1,700.0 | 14.64 | 219.36 | 1,685.4 | -120.1 | -98.5 | 155.4 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 14.64 | 219.36 | 1,782.1 | -139.7 | -114.6 | 180.6 | 0.00 | 0.00 | 0.00 |
| 1,900.0 | 14.64 | 219.36 | 1,878.9 | -159.2 | -130.6 | 205.9 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 14.64 | 219.36 | 1,975.6 | -178.8 | -146.6 | 231.2 | 0.00 | 0.00 | 0.00 |
| 2,100.0 | 14.64 | 219.36 | 2,072.4 | -198.3 | -162.7 | 256.5 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 14.64 | 219.36 | 2,169.1 | -217.9 | -178.7 | 281.8 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 14.64 | 219.36 | 2,265.9 | -237.4 | -194.7 | 307.1 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 14.64 | 219.36 | 2,362.6 | -257.0 | -210.8 | 332.3 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 14.64 | 219.36 | 2,459.4 | -276.5 | -226.8 | 357.6 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 14.64 | 219.36 | 2,556.1 | -296.1 | -242.8 | 382.9 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 14.64 | 219.36 | 2,652.9 | -315.6 | -258.9 | 408.2 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 14.64 | 219.36 | 2,749.6 | -335.2 | -274.9 | 433.5 | 0.00 | 0.00 | 0.00 |
| 2,900.0 | 14.64 | 219.36 | 2,846.4 | -354.7 | -290.9 | 458.8 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 14.64 | 219.36 | 2,943.2 | -374.2 | -307.0 | 484.0 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 14.64 | 219.36 | 3,039.9 | -393.8 | -323.0 | 509.3 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 14.64 | 219.36 | 3,136.7 | -413.3 | -339.0 | 534.6 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 14.64 | 219.36 | 3,233.4 | -432.9 | -355.1 | 559.9 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 14.64 | 219.36 | 3,330.2 | -452.4 | -371.1 | 585.2 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 14.64 | 219.36 | 3,426.9 | -472.0 | -387.1 | 610.4 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 14.64 | 219.36 | 3,523.7 | -491.5 | -403.2 | 635.7 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 14.64 | 219.36 | 3,620.4 | -511.1 | -419.2 | 661.0 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 14.64 | 219.36 | 3,717.2 | -530.6 | -435.2 | 686.3 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 14.64 | 219.36 | 3,813.9 | -550.2 | -451.3 | 711.6 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 14.64 | 219.36 | 3,910.7 | -569.7 | -467.3 | 736.9 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 14.64 | 219.36 | 4,007.4 | -589.3 | -483.3 | 762.1 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 14.64 | 219.36 | 4,104.2 | -608.8 | -499.4 | 787.4 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 14.64 | 219.36 | 4,200.9 | -628.4 | -515.4 | 812.7 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 14.64 | 219.36 | 4,297.7 | -647.9 | -531.4 | 838.0 | 0.00 | 0.00 | 0.00 |
| 4,500.0 | 14.64 | 219.36 | 4,394.4 | -667.5 | -547.5 | 863.3 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 14.64 | 219.36 | 4,491.2 | -687.0 | -563.5 | 888.6 | 0.00 | 0.00 | 0.00 |
| 4,692.8 | 14.64 | 219.36 | 4,581.0 | -705.2 | -578.4 | 912.0 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 14.64 | 219.36 | 4,587.9 | -706.6 | -579.5 | 913.8 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 14.64 | 219.36 | 4,684.7 | -726.1 | -595.6 | 939.1 | 0.00 | 0.00 | 0.00 |
| 4,900.0 | 14.64 | 219.36 | 4,781.4 | -745.7 | -611.6 | 964.4 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 14.64 | 219.36 | 4,878.2 | -765.2 | -627.7 | 989.7 | 0.00 | 0.00 | 0.00 |
| 5,100.0 | 14.64 | 219.36 | 4,974.9 | -784.7 | -643.7 | 1,015.0 | 0.00 | 0.00 | 0.00 |



RECEIVED: January 10, 2013

NEWFIELD

# Payzone Directional

Planning Report

PAYZONE DIRECTIONAL

| | | | |
|---|---|---|---|
| **Database:** | EDM 2003.21 Single User Db | **Local Co-ordinate Reference:** | Well B-21-9-17 |
| **Company:** | NEWFIELD EXPLORATION | **TVD Reference:** | B-21-9-17 @ 5315.0ft (Original Well Elev) |
| **Project:** | USGS Myton SW (UT) | **MD Reference:** | B-21-9-17 @ 5315.0ft (Original Well Elev) |
| **Site:** | SECTION 16 T9S, R17E | **North Reference:** | True |
| **Well:** | B-21-9-17 | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Wellbore #1 | | |
| **Design:** | Design #1 | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 5,200.0 | 14.64 | 219.36 | 5,071.7 | -804.3 | -659.7 | 1,040.3 | 0.00 | 0.00 | 0.00 |
| 5,300.0 | 14.64 | 219.36 | 5,168.4 | -823.8 | -675.8 | 1,065.5 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 14.64 | 219.36 | 5,265.2 | -843.4 | -691.8 | 1,090.8 | 0.00 | 0.00 | 0.00 |
| 5,500.0 | 14.64 | 219.36 | 5,361.9 | -862.9 | -707.8 | 1,116.1 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 14.64 | 219.36 | 5,458.7 | -882.5 | -723.9 | 1,141.4 | 0.00 | 0.00 | 0.00 |
| 5,700.0 | 14.64 | 219.36 | 5,555.4 | -902.0 | -739.9 | 1,166.7 | 0.00 | 0.00 | 0.00 |
| 5,746.1 | 14.64 | 219.36 | 5,600.0 | -911.0 | -747.3 | 1,178.3 | 0.00 | 0.00 | 0.00 |

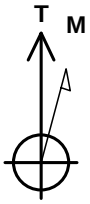


RECEIVED: January 10, 2013

API Well Number: 43013519670000

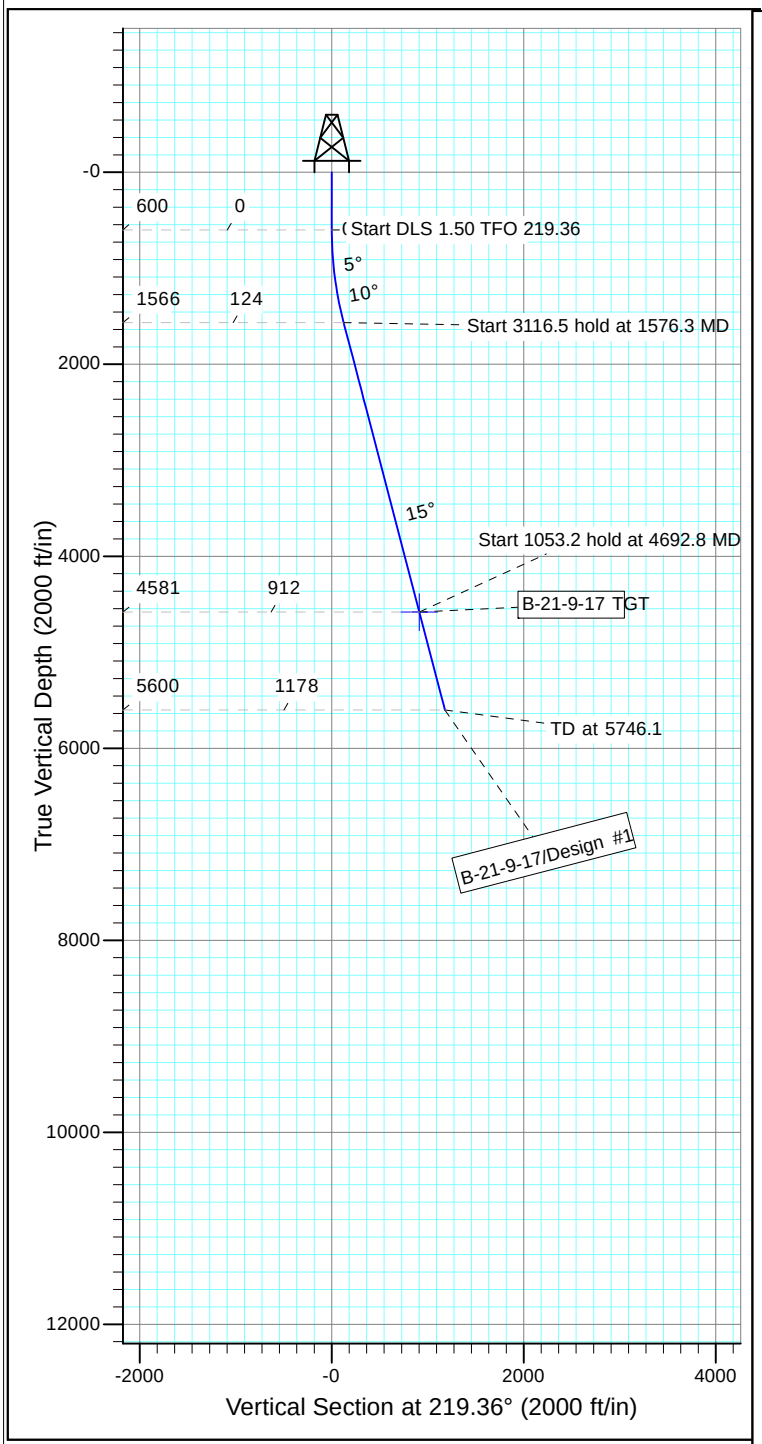
NEWFIELD

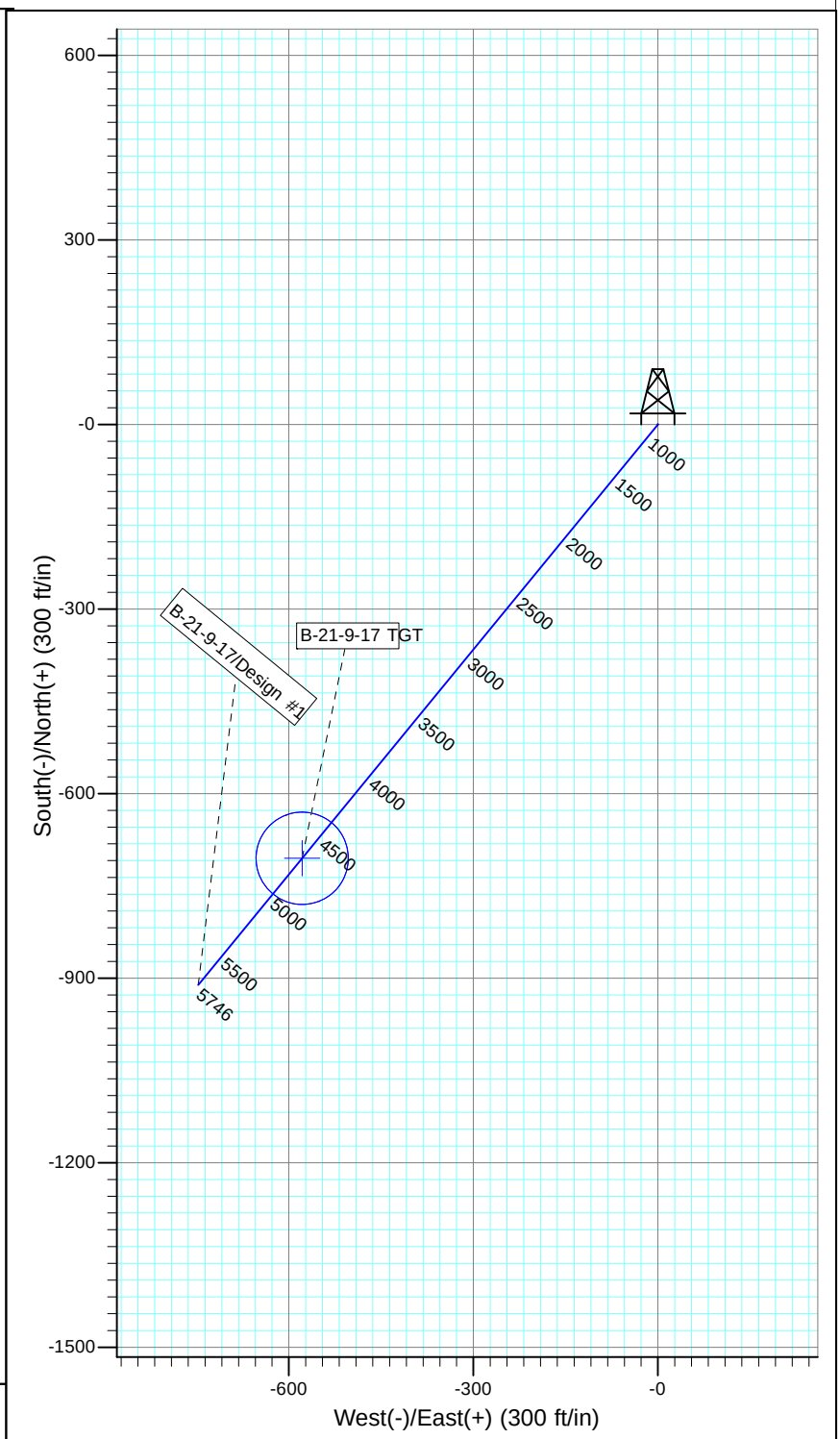
Project: USGS Myton SW (UT)
Site: SECTION 16 T9S, R17E
Well: B-21-9-17
Wellbore: Wellbore #1
Design: Design #1




Azimuths to True North
Magnetic North: 11.12°

Magnetic Field
Strength: 52144.4snT
Dip Angle: 65.76°
Date: 9/20/2012
Model: IGRF2010




WELLBORE TARGET DETAILS

| Name | TVD | +N/-S | +E/-W | Shape |
|---|---|---|---|---|
| B-21-9-17 TGT | 4581.0 | -705.2 | -578.4 | Circle (Radius: 75.0) |

SECTION DETAILS

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | DLeg | TFace | VSec | Target |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 2 | 600.0 | 0.00 | 0.00 | 600.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 3 | 1576.3 | 14.64 | 219.36 | 1565.7 | -95.9 | -78.7 | 1.50 | 219.36 | 124.1 | |
| 4 | 4692.8 | 14.64 | 219.36 | 4581.0 | -705.2 | -578.4 | 0.00 | 0.00 | 912.0 | B-21-9-17 TGT |
| 5 | 5746.1 | 14.64 | 219.36 | 5600.0 | -911.0 | -747.3 | 0.00 | 0.00 | 1178.3 | |

PAYZONE

**NEWFIELD PRODUCTION COMPANY**
**GMBU B-21-9-17**
**AT SURFACE: SE/SE SECTION 16, T9S R17E**
**DUCHESNE COUNTY, UTAH**

# ONSHORE ORDER NO. 1

## *MULTI-POINT SURFACE USE & OPERATIONS PLAN*

### *1. EXISTING ROADS*

See attached Topographic Map "A"

To reach Newfield Production Company well location site GMBU B-21-9-17 located in the SE 1/4 SE 1/4 Section 16, T9S, R17E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 – 1.4 miles ± to the junction of this highway and UT State Hwy 53; proceed in a southeasterly direction – 11.3 miles ± to it's junction with an existing road to the south; proceed in a southerly direction – 2.6 miles ± to it's junction with an existing road to the east; proceed in a easterly direction – 0.9 miles ± to it's junction with the beginning of the access road to the existing 16-16-9-17 well location.

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

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

### *2. PLANNED ACCESS ROAD*

There is no proposed access road for this location. The proposed well will be drilled directionaly off of the existing 16-16-9-17 well pad. See attached **Topographic Map "B"**.

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

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

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

### *3. LOCATION OF EXISTING WELLS*

Refer to Exhibit "B".

### *4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES*

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

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

RECEIVED: January 10, 2013

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***

RECEIVED: January 10, 2013

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*** – State of Utah.

***12.*** ***OTHER ADDITIONAL INFORMATION***

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. State of Utah Antiquities Project Permit # U-12-MQ-0421bs 5/30/12, prepared by Montgomery Archaeological Consultants. . Paleontological Resource Survey prepared by, Wade Miller, 1/6/00. See attached report cover pages, Exhibit “D”.

RECEIVED: January 10, 2013

Newfield Production Company requests 593' of buried water line be granted.

It is proposed that the disturbed area will be 30' wide to allow for construction of a proposed buried 10" steel water injection line, a buried 3" poly water return line, and a and a 14" surface flow line. It is proposed that the buried water lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."** The proposed water pipelines will be buried in a 4-5' deep trench constructed with a trencher or backhoe for the length of the proposal. The equipment will run on the surface and not be flat bladed to minimize surface impacts to precious topsoil in these High Desert environments. The construction phase of the proposed water lines will last approximately (5) days.

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

For a ROW plan of development, please refer to the Greater Monument Butte Green River Development SOP and as well as the Castle Peak and Eight Mile Flat Reclamation and Weed Management Plan.

**Surface Flow Line**
Newfield requests 2,198' of surface flow line be granted. The Surface Flow Line will consist of up to a 14" bundled pipe consisting of 2-2" poly glycol lines and 1-3" production line. **Refer to Topographic Map "C"** for the proposed location of the proposed flow line. Flow lines will be tan and will be constructed using the following procedures as outlined in the Greater Monument Butte Green River Development SOP.

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

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

**Details of the On-Site Inspection**
The proposed GMBU B-21-9-17 was on-sited on 9/18/12. The following were present; Corie Miller (Newfield Production) and Sheri Wysong (Bureau of Land Management).

**Hazardous Material Declaration**

Newfield Production Company guarantees that during the drilling and completion of the GMBU B-21-9-17, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the GMBU B-21-9-17, Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

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

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

RECEIVED: January 10, 2013

13. **LESSEE'S OR OPERATOR'S REPRENSENTATIVE 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 #B-21-9-17, Section 16, Township 9S, Range 17E: Lease UTU-13905 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.

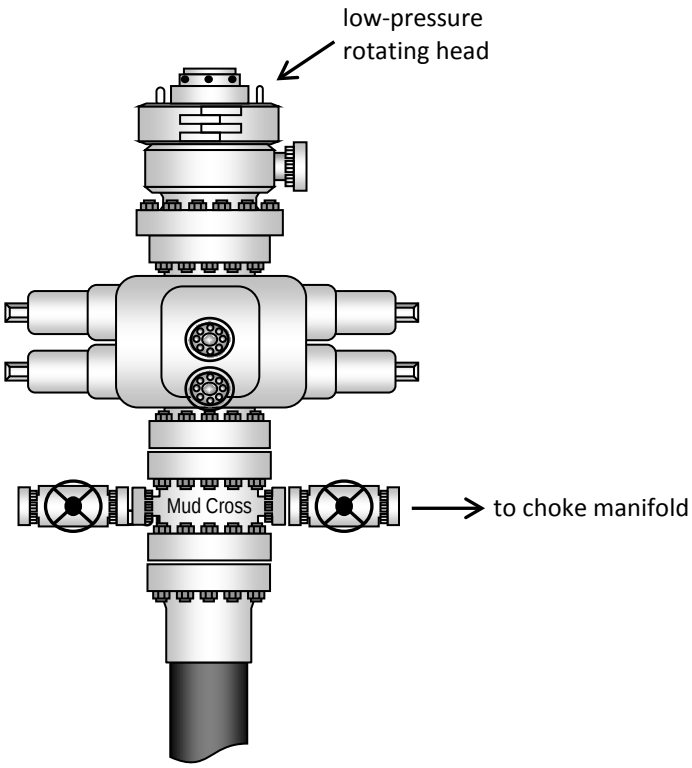
Mandie Crozier
Digitally signed by Mandie Crozier
DN: cn=Mandie Crozier, o=Newfield Production, ou=Regulatory Analyst, email=mcrozier@newfield.com, c=US
Date: 2013.01.10 09:36:14 -07'00'

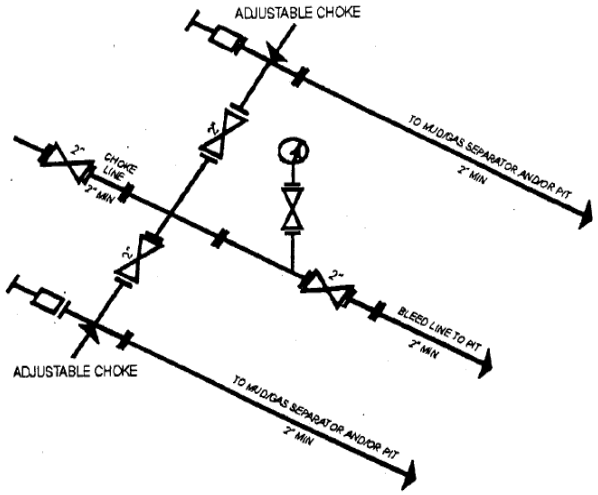
12/28/12
Date

Mandie Crozier
Regulatory Analyst
Newfield Production Company

RECEIVED: January 10, 2013

**Typical 2M BOP stack configuration**




2M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

RECEIVED: January 10, 2013

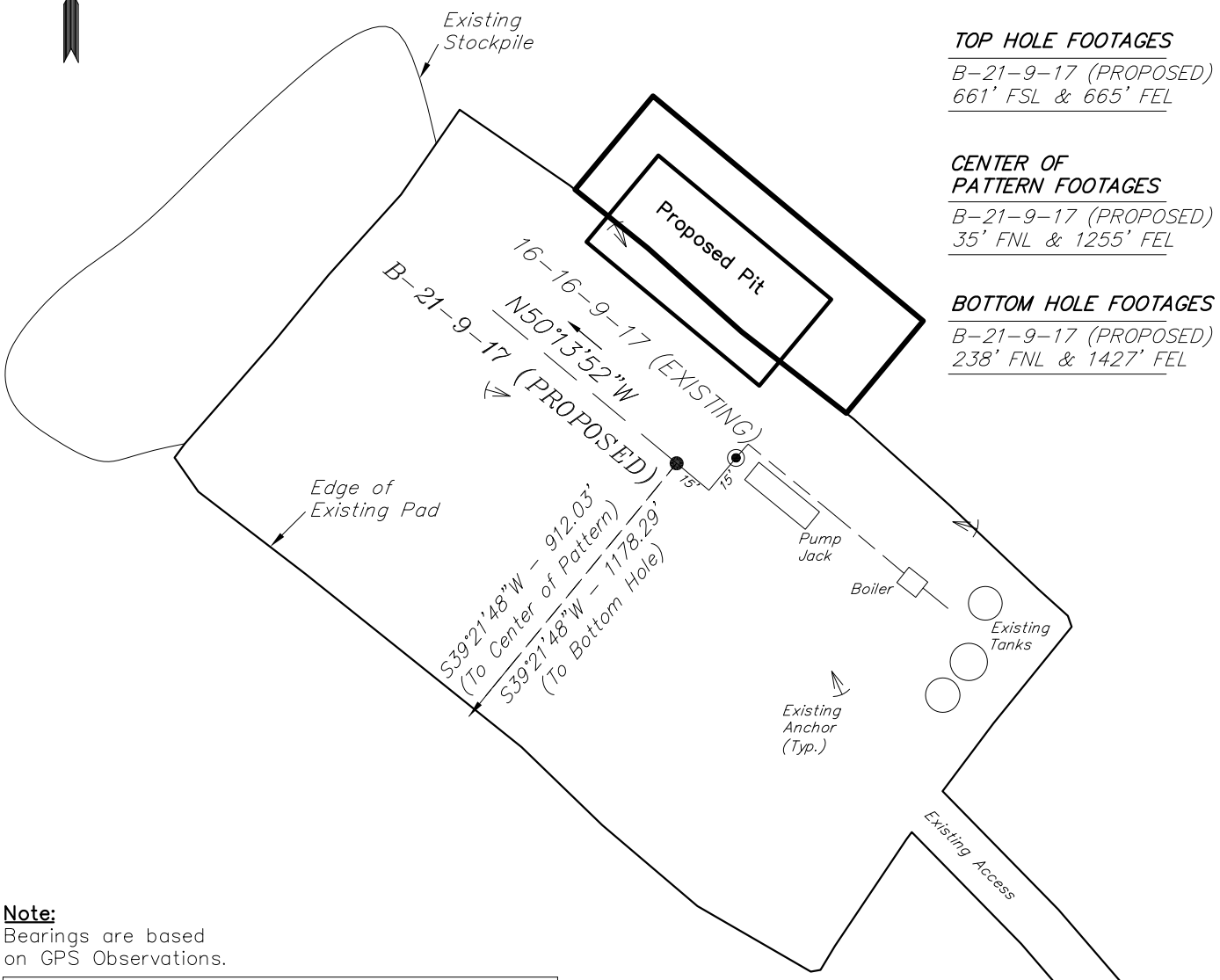
API Well Number: 43013519670000

# NEWFIELD EXPLORATION COMPANY

## WELL PAD INTERFERENCE PLAT

### 16-16-9-17 (Existing Well)
### B-21-9-17 (Proposed Well)

Pad Location: SESE Section 16, T9S, R17E, S.L.B.&M.




**TOP HOLE FOOTAGES**

B-21-9-17 (PROPOSED)
661' FSL & 665' FEL

**CENTER OF PATTERN FOOTAGES**

B-21-9-17 (PROPOSED)
35' FNL & 1255' FEL

**BOTTOM HOLE FOOTAGES**

B-21-9-17 (PROPOSED)
238' FNL & 1427' FEL

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

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

| WELL | LATITUDE | LONGITUDE |
|---|---|---|
| 16-16-9-17 | 40° 01' 31.87" | 110° 00' 16.09" |
| B-21-9-17 | 40° 01' 31.85" | 110° 00' 16.36" |

### LATITUDE & LONGITUDE
### Bottom Hole Position (NAD 83)

| WELL | LATITUDE | LONGITUDE |
|---|---|---|
| B-21-9-17 | 40° 01' 22.97" | 110° 00' 26.16" |

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

| WELL | NORTH | EAST |
|---|---|---|
| B-21-9-17 | -705' | -578' |

### RELATIVE COORDINATES
### From Top Hole to Bottom Hole

| WELL | NORTH | EAST |
|---|---|---|
| B-21-9-17 | -911' | -747' |

| | | | |
|---|---|---|---|
| SURVEYED BY: S.V. | DATE SURVEYED: 02-28-11 | VERSION: | Tri State Land Surveying, Inc. (435) 781-2501 |
| DRAWN BY: V.H. | DATE DRAWN: 10-01-12 | V2 | 180 NORTH VERNAL AVE. VERNAL, UTAH 84078 |
| SCALE: 1" = 60' | REVISED: | | |

RECEIVED: January 10, 2013

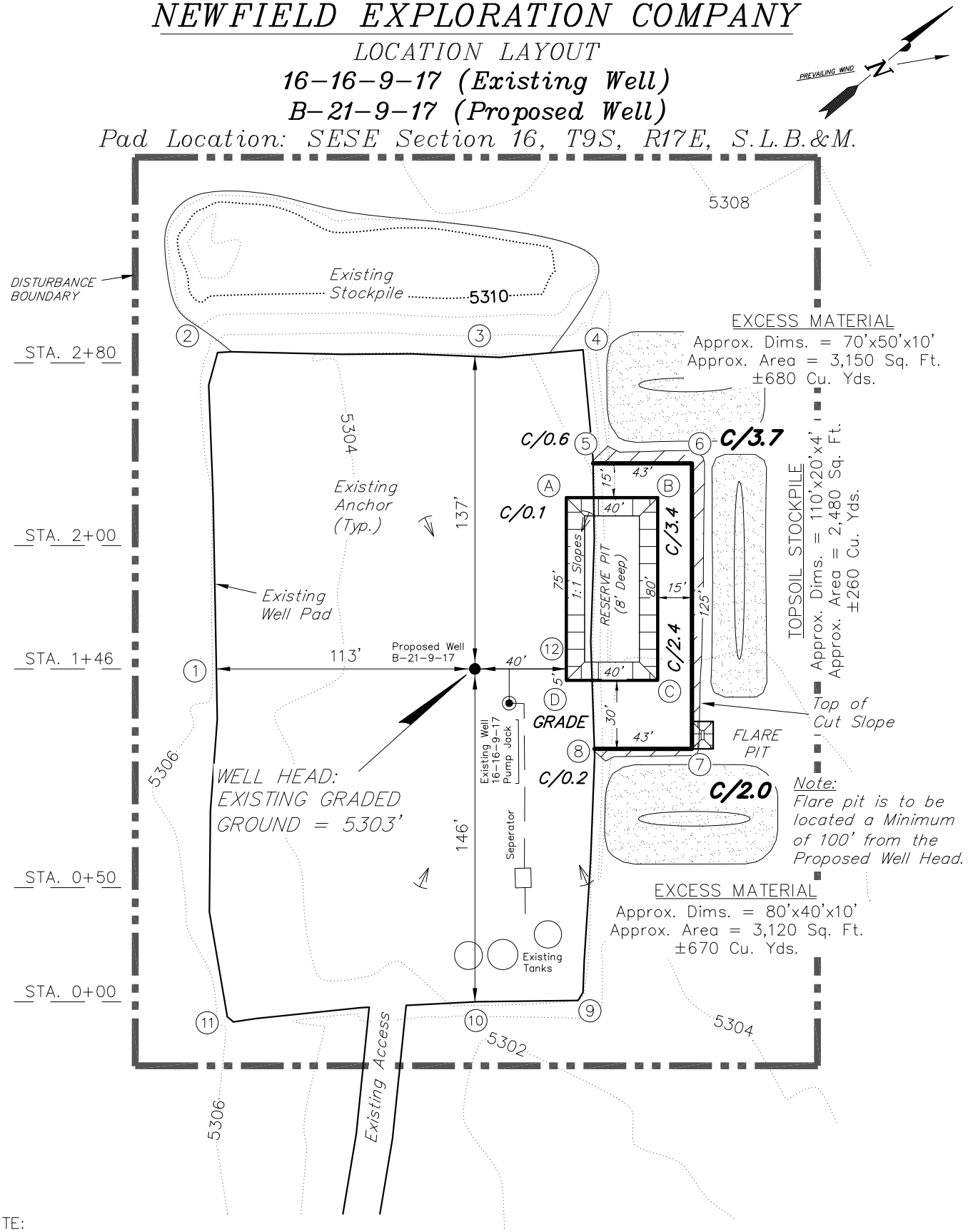
# NEWFIELD EXPLORATION COMPANY

## LOCATION LAYOUT

## 16-16-9-17 (Existing Well)

## B-21-9-17 (Proposed Well)

Pad Location: SESE Section 16, T9S, R17E, S.L.B.&M.




NOTE:
The topsoil & excess material areas are calculated as being mounds containing 1,610 cubic yards of dirt (a 10% fluff factor is included). The mound areas are calculated with push slopes of 1.5:1 & fall slopes of 1.5:1.

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

| | | | |
|---|---|---|---|
| SURVEYED BY: S.V. | DATE SURVEYED: 02-28-11 | VERSION: | Tri State Land Surveying, Inc. (435) 781-2501 |
| DRAWN BY: M.W. | DATE DRAWN: 03-11-12 | V2 | 180 NORTH VERNAL AVE. VERNAL, UTAH 84078 |
| SCALE: 1" = 60' | REVISED: V.H. 10-01-12 | | |

RECEIVED: January 10, 2013

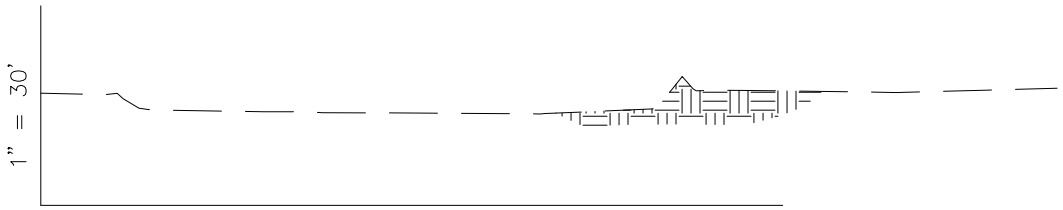
# NEWFIELD EXPLORATION COMPANY

## CROSS SECTIONS

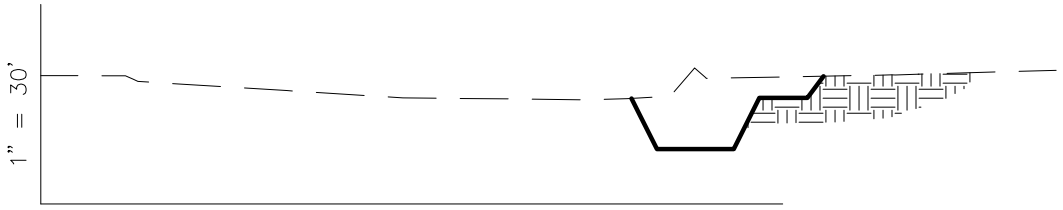
**16-16-9-17 (Existing Well)**

**B-21-9-17 (Proposed Well)**

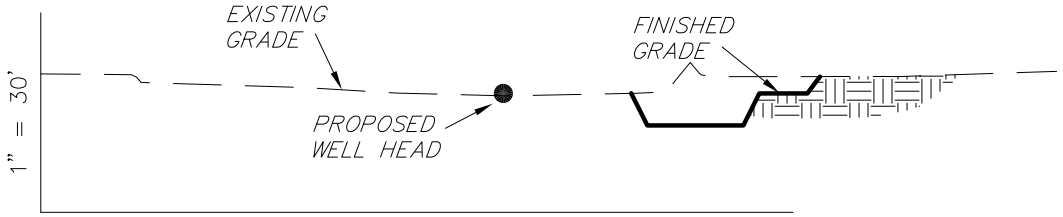
Pad Location: SESE Section 16, T9S, R17E, S.L.B.&M.




STA. 2+80




STA. 2+00




STA. 1+46


STA. 0+50

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 | 540 | 0 | Topsoil is not included in Pad Cut | 540 |
| PIT | 690 | 0 | | 690 |
| TOTALS | 1,230 | 0 | 230 | 1,230 |

| | | | |
|---|---|---|---|
| SURVEYED BY: S.V. | DATE SURVEYED: 02-28-11 | VERSION: | Tri State Land Surveying, Inc. (435) 781-2501 |
| DRAWN BY: M.W. | DATE DRAWN: 03-11-12 | V2 | 180 NORTH VERNAL AVE. VERNAL, UTAH 84078 |
| SCALE: 1" = 60' | REVISED: V.H. 10-01-12 | | |

RECEIVED: January 10, 2013

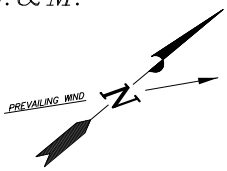
# NEWFIELD EXPLORATION COMPANY

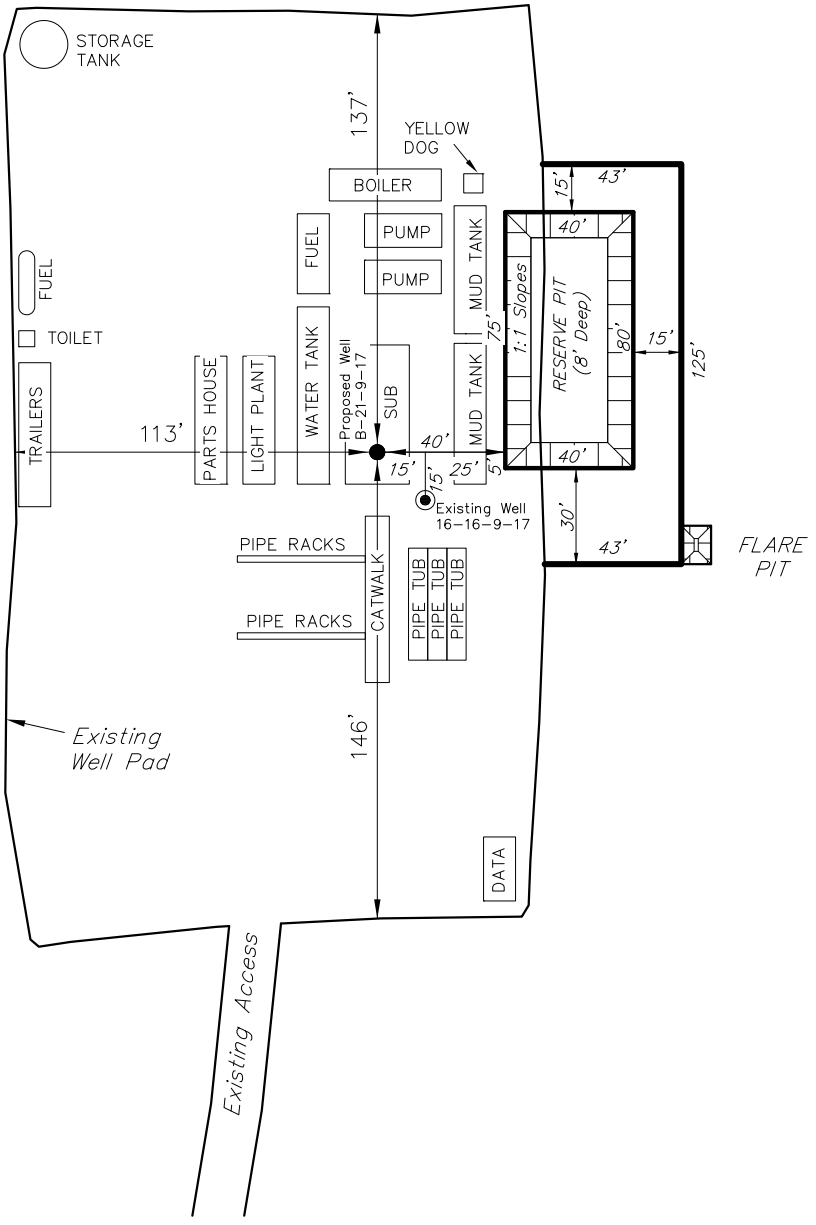
## TYPICAL RIG LAYOUT

**16-16-9-17 (Existing Well)**

**B-21-9-17 (Proposed Well)**

Pad Location: SESE Section 16, T9S, R17E, S.L.B.&M.




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

| | | | |
|---|---|---|---|
| SURVEYED BY: S.V. | DATE SURVEYED: 02-28-11 | VERSION: | Tri State Land Surveying, Inc. (435) 781-2501 |
| DRAWN BY: M.W. | DATE DRAWN: 03-11-12 | V2 | 180 NORTH VERNAL AVE. VERNAL, UTAH 84078 |
| SCALE: 1" = 60' | REVISED: V.H. 10-01-12 | | |

RECEIVED: January 10, 2013

API Well Number: 43013519670000

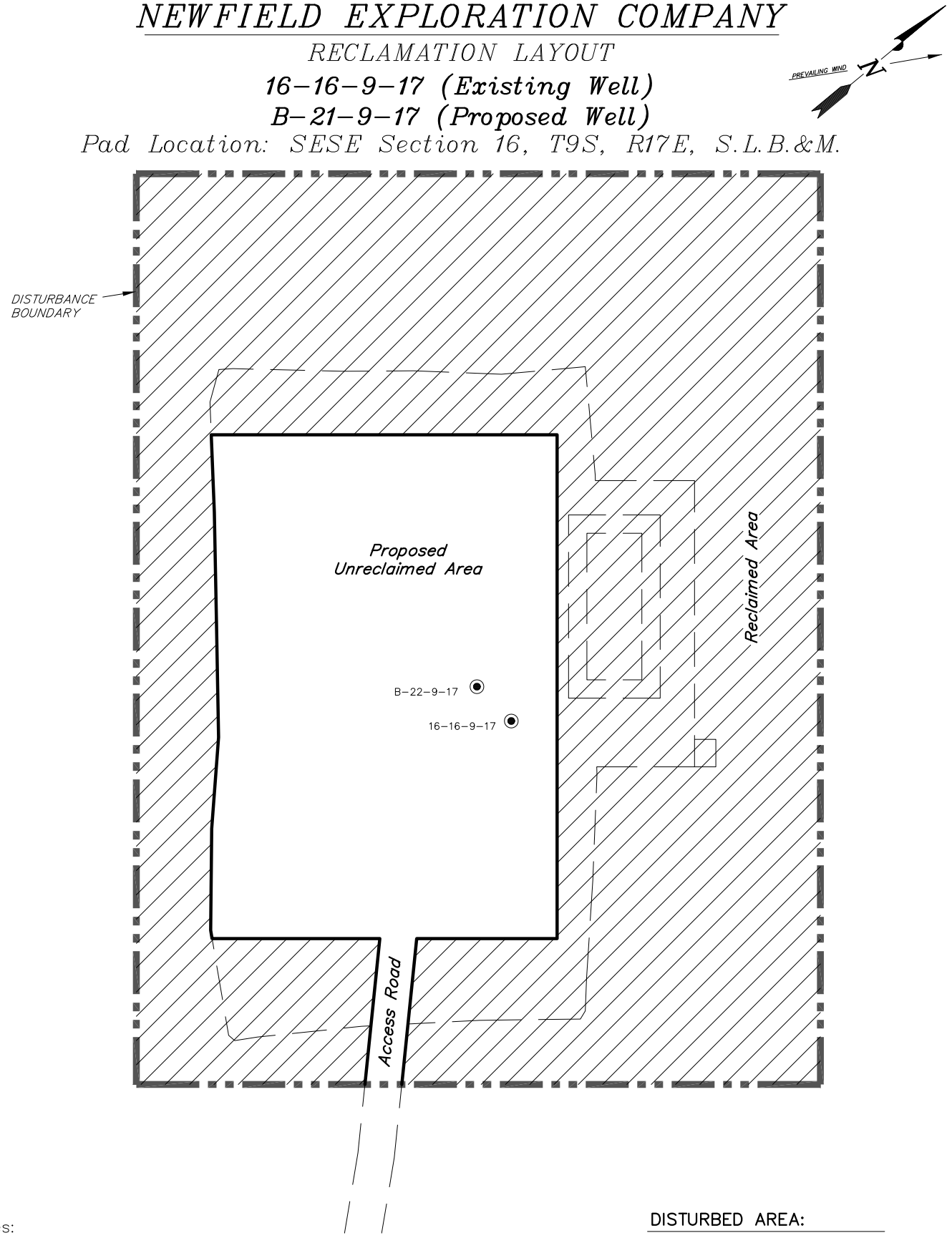
# NEWFIELD EXPLORATION COMPANY

## RECLAMATION LAYOUT

### 16-16-9-17 (Existing Well)

### B-21-9-17 (Proposed Well)

Pad Location: SESE Section 16, T9S, R17E, S.L.B.&M.




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

DISTURBED AREA:

| | |
|---|---|
| TOTAL DISTURBED AREA = | 2.73 ACRES |
| TOTAL RECLAIMED AREA = | 1.95 ACRES |
| UNRECLAIMED AREA = | 0.78 ACRES |

| | | | |
|---|---|---|---|
| SURVEYED BY: S.V. | DATE SURVEYED: 02-28-11 | VERSION: | Tri State Land Surveying, Inc. (435) 781-2501 |
| DRAWN BY: V.H. | DATE DRAWN: 10-01-12 | V2 | 180 NORTH VERNAL AVE. VERNAL, UTAH 84078 |
| SCALE: 1" = 60' | REVISED: | | |

RECEIVED: January 10, 2013

API Well Number: 43013519670000

# NEWFIELD EXPLORATION COMPANY

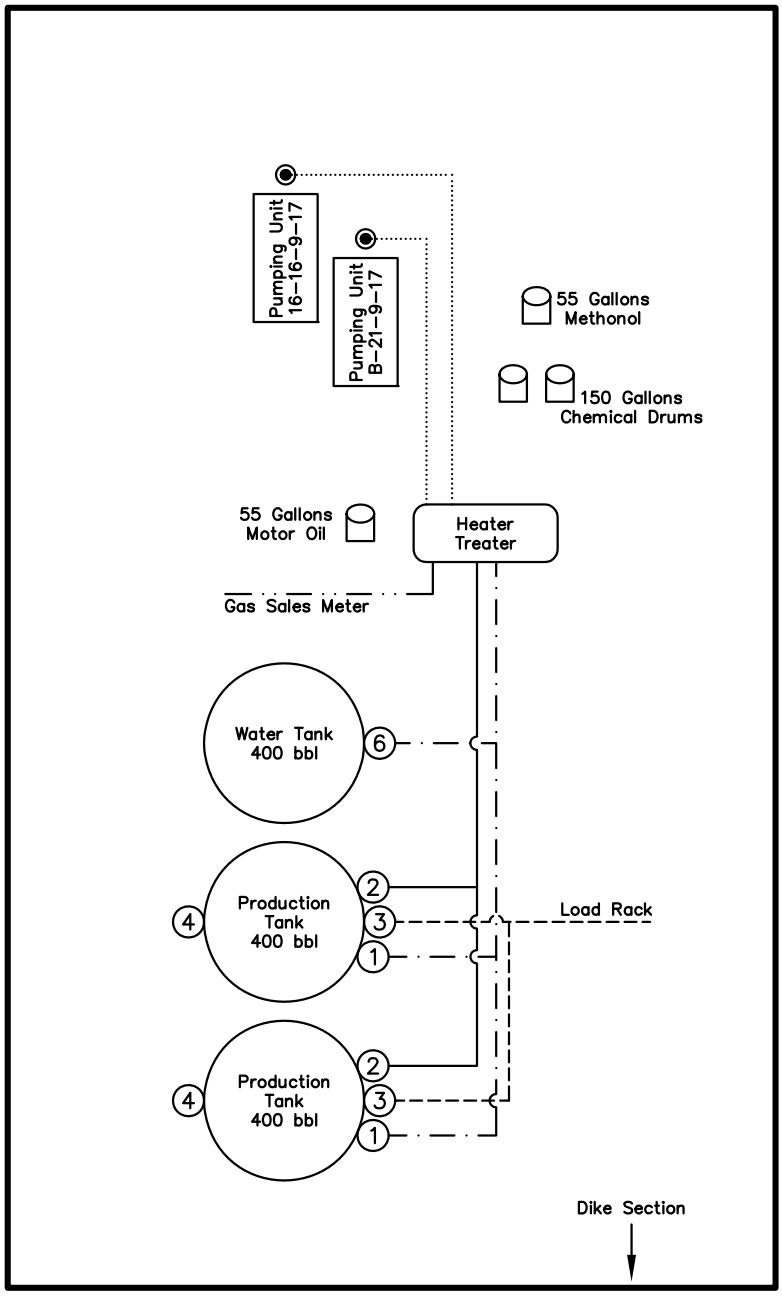
## PROPOSED SITE FACILITY DIAGRAM

**16-16-9-17 (Existing Well) ML-3453B**

**B-21-9-17 (Proposed Well) UTU-13905**

Pad Location: SESE Section 16, T9S, R17E, S.L.B.&M.

Duchesne County, Utah




***Legend***

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

NOT TO SCALE

| | | | | | |
|---|---|---|---|---|---|
| SURVEYED BY: | S.V. | DATE SURVEYED: | 02-28-11 | VERSION: | Tri State Land Surveying, Inc. (435) 781-2501 |
| DRAWN BY: | V.H. | DATE DRAWN: | 10-01-12 | V2 | 180 NORTH VERNAL AVE. VERNAL, UTAH 84078 |
| SCALE: | NONE | REVISED: | | | |

RECEIVED: January 10, 2013

NEWFIELD

*VIA ELECTRONIC DELIVERY*

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

January 14, 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 B-21-9-17**
Greater Monument Butte (Green River) Unit

Surface Hole: T9S-R17E Section 16: SESE (State of Utah ML-3453B)
661' FSL 665' FEL

At Target: T9S-R17E Section 21: NWNE (UTU-13905)
238' FNL 1427' 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 1/11/2013, 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-exiting roads and pipelines.

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

Sincerely,
Newfield Production Company

Leslie Burget

Leslie Burget
Land Associate

API Well Number: 43013519670000

Form 3160-3
(August 2007)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: UTU13905

6. If Indian, Allottee or Tribe Name:

1a. Type of Work: ☒ DRILL ☐ REENTER

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

8. Lease Name and Well No.: GMBU B-21-9-17

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

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

9. API Well No.:

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

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

10. Field and Pool, or Exploratory: MONUMENT BUTTE

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

At surface: SESE 661FSL 665FEL

At proposed prod. zone: NWNE 238FNL 1427FEL

11. Sec., T., R., M., or Blk. and Survey or Area: Sec 16 T9S R17E Mer SLB

14. Distance in miles and direction from nearest town or post office*: 16.3 MILES SOUTHEAST OF MYTON

12. County or Parish: DUCHESNE

13. State: UT

15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any): 238'

16. No. of Acres in Lease: 1200.00

17. Spacing Unit dedicated to this well: 20.00

18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.: 856'

19. Proposed Depth: 5746 MD
5600 TVD

20. BLM/BIA Bond No. on file: WYB000493

21. Elevations (Show whether DF, KB, RT, GL, etc.: 5303 GL

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

23. Estimated duration: 7 DAYS

## 24. Attachments

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

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

| 25. Signature | Name (Printed/Typed) | Date |
|---|---|---|
| (Electronic Submission) | MANDIE CROZIER Ph: 435-646-4825 | 01/11/2013 |

Title: REGULATORY ANALYST

| Approved by (Signature) | Name (Printed/Typed) | Date |
|---|---|---|
| | | |

| Title | Office |
|---|---|
| | |

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

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

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

**Electronic Submission #180813 verified by the BLM Well Information System**
**For NEWFIELD EXPLORATION, sent to the Vernal**

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

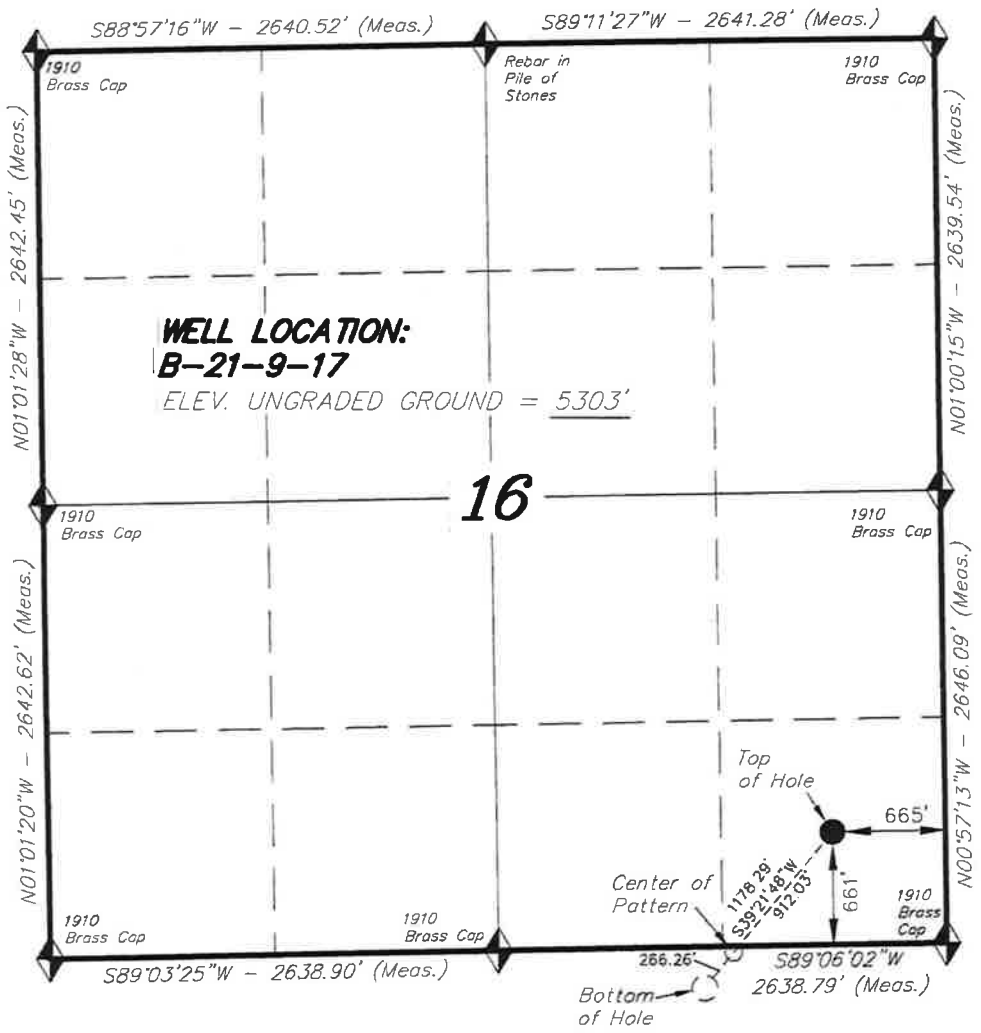
**Additional Operator Remarks:**

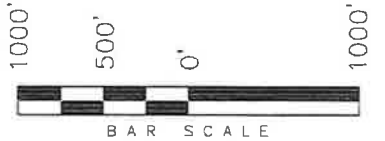
SURFACE LEASE: ML-3453B
BOTTOM HOLE LEASE: UTU-13905

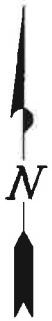
# T9S, R17E, S.L.B.&M.

## NEWFIELD EXPLORATION COMPANY

WELL LOCATION, B-21-9-17, LOCATED AS SHOWN IN THE SE 1/4 SE 1/4 OF SECTION 16, T9S, R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



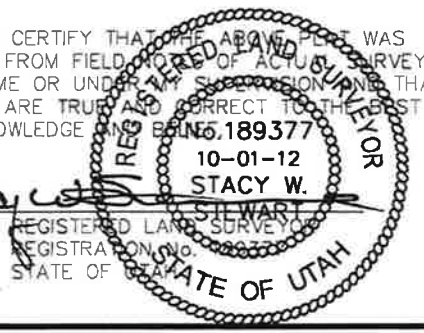




**NOTES:**

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

◆ = SECTION CORNERS LOCATED

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.




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

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°01'31.85" |
| LONGITUDE = 110°00'16.36" |
| **NAD 27 (SURFACE LOCATION)** |
| LATITUDE = 40°01'31.98" |
| LONGITUDE = 110°00'13.83" |

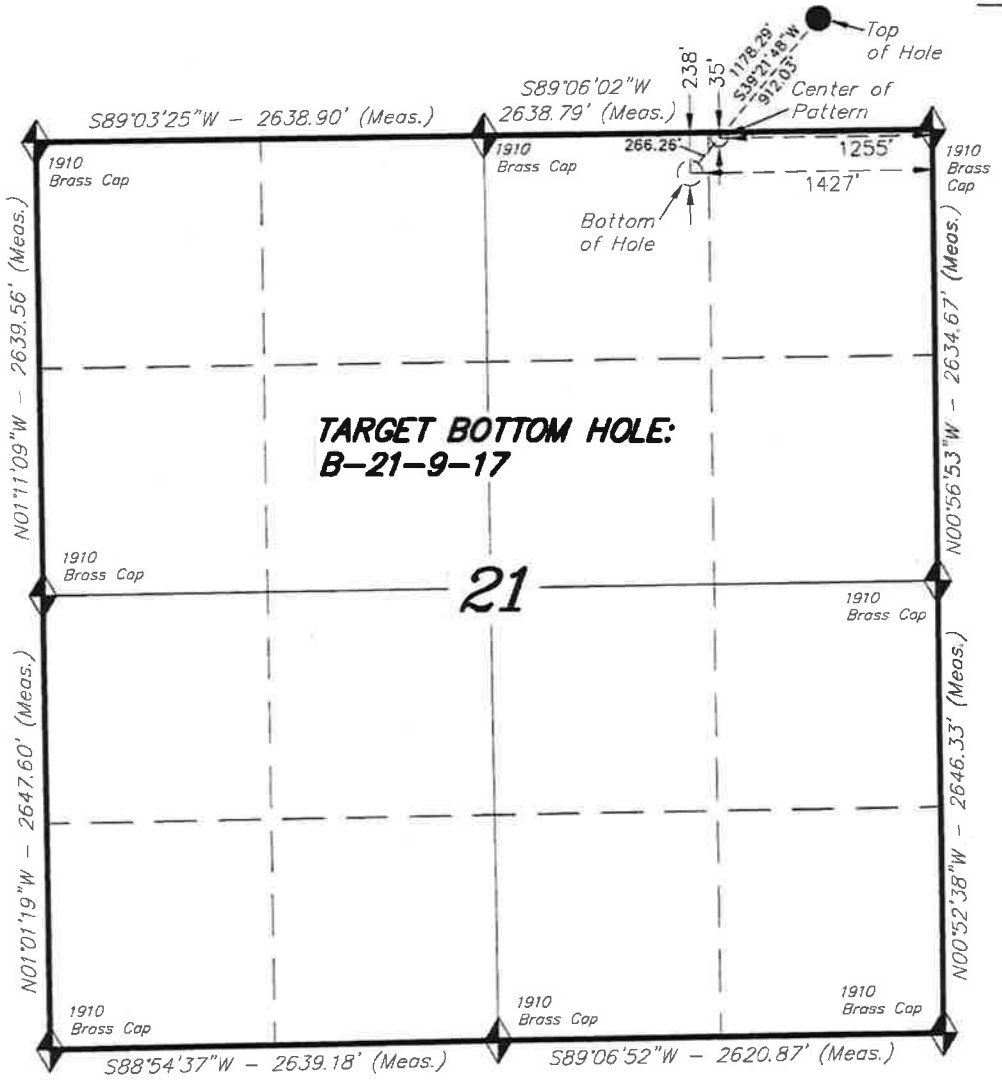

**TRI STATE LAND SURVEYING & CONSULTING**
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078
(435) 781-2501

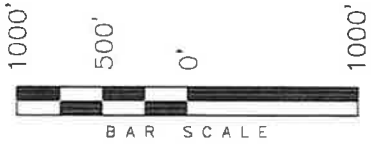

| | | |
|---|---|---|
| DATE SURVEYED: 02-28-11 | SURVEYED BY: S.V. | VERSION: |
| DATE DRAWN: 10-01-12 | DRAWN BY: V.H. | V2 |
| REVISED: | SCALE: 1" = 1000' | |

# T9S, R17E, S.L.B.&M.

## NEWFIELD EXPLORATION COMPANY

TARGET BOTTOM HOLE, B-21-9-17,
LOCATED AS SHOWN IN THE NW 1/4
NE 1/4 OF SECTION 21, T9S, R17E,
S.L.B.&M. DUCHESNE COUNTY, UTAH.





**NOTES:**

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

◆ = SECTION CORNERS LOCATED

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

REGISTERED LAND SURVEYOR
REGISTRATION No. 189377
10-01-12
STACY W. STEWART
STATE OF UTAH

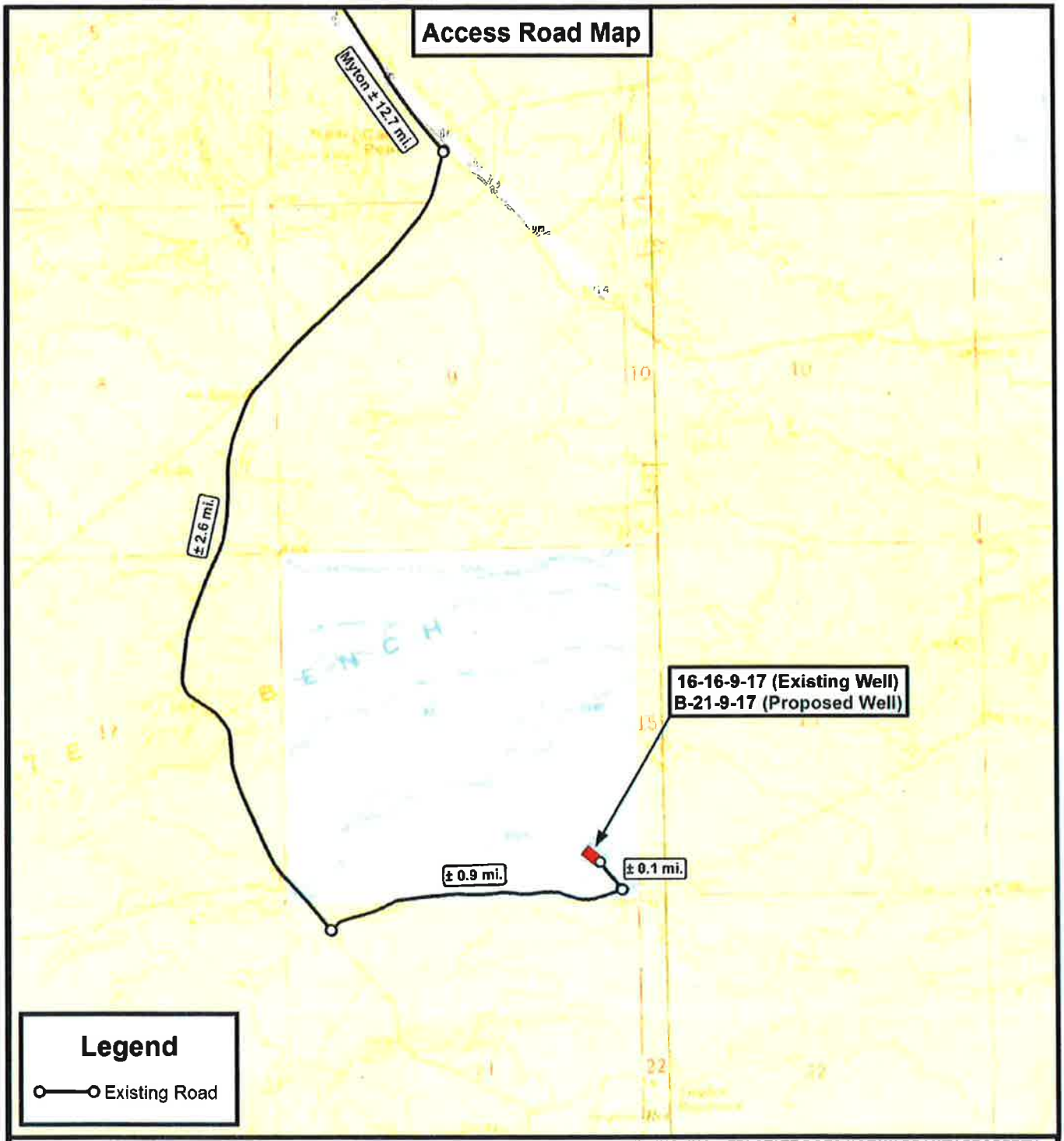
BASIS OF ELEV; Elevations are based on an N.G.S. OPUS Correction. LOCATION: LAT. 40°04'09.56" LONG. 110°00'43.28" (Tristate Aluminum Cap) Elev. 5281.57'

| NAD 83 (BOTTOM HOLE LOCATION) |
|---|
| LATITUDE = 40°01'22.97" |
| LONGITUDE = 110°00'26.16" |
| **NAD 27 (BOTTOM HOLE LOCATION)** |
| LATITUDE = 40°01'23.11" |
| LONGITUDE = 110°00'23.63" |


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


| | | |
|---|---|---|
| DATE SURVEYED: 02-28-11 | SURVEYED BY: S.V. | VERSION: |
| DATE DRAWN: 10-01-12 | DRAWN BY: V.H. | V2 |
| REVISED: | SCALE: 1" = 1000' | |

API Well Number: 43013519670000




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


N

**NEWFIELD EXPLORATION COMPANY**

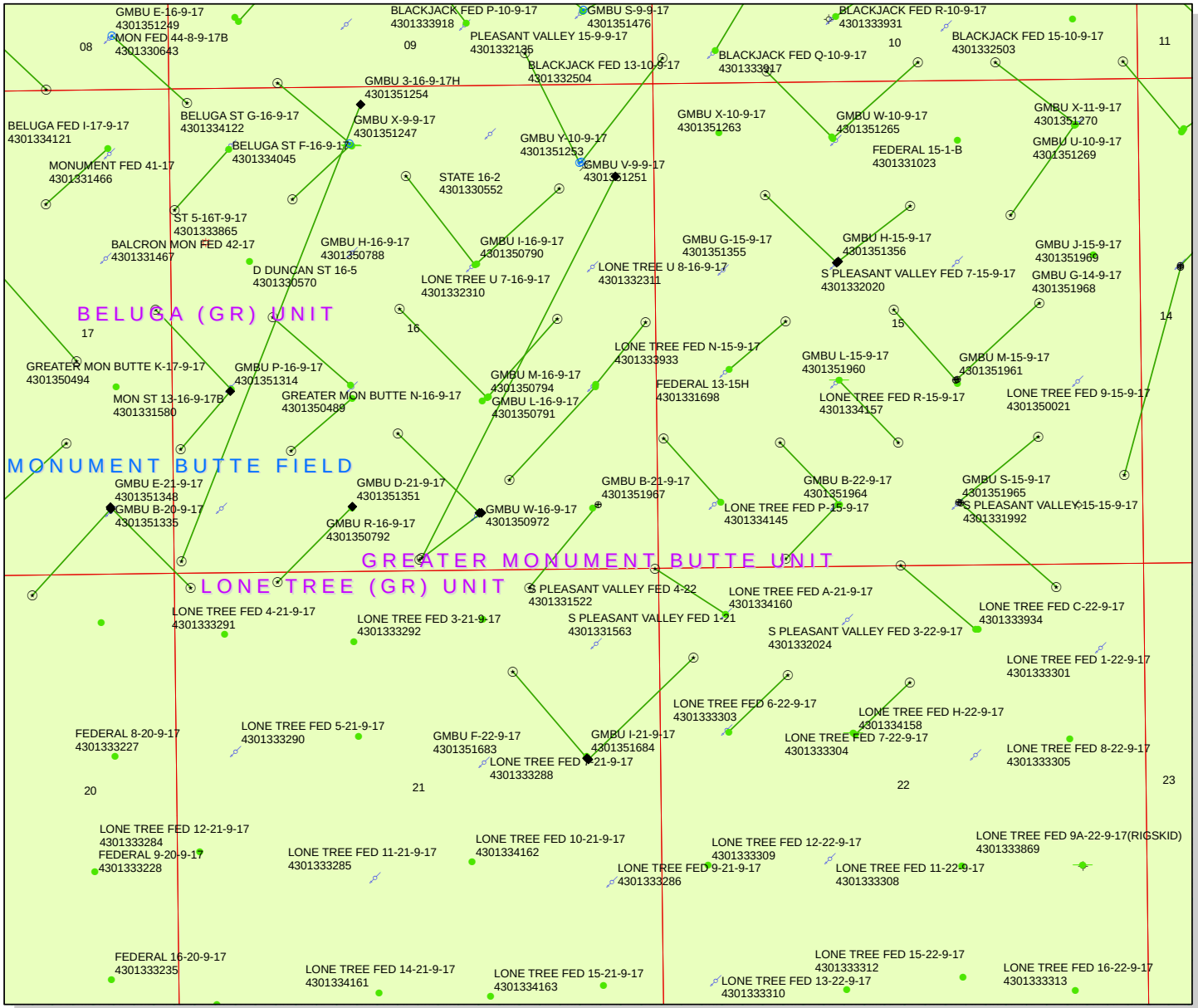
16-16-9-17 (Existing Well)
B-21-9-17 (Proposed Well)
SEC. 16, T9S, R17E, S.L.B.&M.
Duchesne County, UT.

| DRAWN BY: | A.P.C | REVISED: 10-01-12 A.P.C. | VERSION: |
|---|---|---|---|
| DATE: | 03-12-2012 | | V2 |
| SCALE: | 1" = 2,000' | | |

**TOPOGRAPHIC MAP**

SHEET B

API Well Number: 43013519670000




**API Number: 4301351967**

**Well Name: GMBU B-21-9-17**

**Township T09.0S Range R17.0E Section 16**

**Meridian: SLBM**

Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:
Map Produced by Diana Mason

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

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

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


1,400 700 0 1,400 Feet

1:13,484

RECEIVED: January 16, 2013

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

**Utah State Office**
**P.O. Box 45155**
**Salt Lake City, Utah 84145-0155**

**IN REPLY REFER TO:**
**3160**
**(UT-922)**

January 22, 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 Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2013 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

| API # | WELL NAME | LOCATION |
|---|---|---|
| (Proposed PZ GREEN RIVER) | | |
| 43-013-51960 | GMBU L-15-9-17 | Sec 15 T09S R17E 2011 FSL 1967 FEL<br>BHL Sec 15 T09S R17E 2440 FNL 1067 FEL |
| 43-013-51961 | GMBU M-15-9-17 | Sec 15 T09S R17E 1996 FSL 1983 FEL<br>BHL Sec 15 T09S R17E 2514 FNL 2593 FWL |
| 43-013-51962 | GMBU J-21-8-17 | Sec 22 T08S R17E 2118 FNL 0637 FWL<br>BHL Sec 21 T08S R17E 1125 FNL 0034 FEL |
| 43-013-51963 | GMBU O-22-8-17 | Sec 22 T08S R17E 2132 FNL 0621 FWL<br>BHL Sec 22 T08S R17E 2424 FSL 0074 FWL |
| 43-013-51964 | GMBU B-22-9-17 | Sec 15 T09S R17E 0659 FSL 1945 FEL<br>BHL Sec 22 T09S R17E 0254 FNL 0913 FEL |
| 43-013-51965 | GMBU S-15-9-17 | Sec 15 T09S R17E 0667 FSL 1964 FEL<br>BHL Sec 15 T09S R17E 1384 FSL 1094 FEL |
| 43-013-51966 | GMBU L-21-8-17 | Sec 21 T08S R17E 1772 FSL 0464 FEL<br>BHL Sec 21 T08S R17E 2471 FNL 1481 FEL |
| 43-013-51967 | GMBU B-21-9-17 | Sec 16 T09S R17E 0661 FSL 0665 FEL<br>BHL Sec 21 T09S R17E 0238 FNL 1427 FEL |

RECEIVED: February 20, 2013

| API # | WELL NAME | LOCATION |
|---|---|---|
| (Proposed PZ GREEN RIVER) | | |
| 43-013-51968 | GMBU G-14-9-17 | Sec 14 T09S R17E 2044 FNL 0472 FWL |
| | | BHL Sec 14 T09S R17E 1082 FNL 1408 FWL |
| 43-013-51969 | GMBU J-15-9-17 | Sec 14 T09S R17E 2065 FNL 0471 FWL |
| | | BHL Sec 15 T09S R17E 0961 FNL 0161 FEL |
| 43-013-51970 | GMBU H-21-8-17 | Sec 21 T08S R17E 1982 FNL 2143 FEL |
| | | BHL Sec 21 T08S R17E 1253 FNL 2483 FWL |
| 43-013-51971 | GMBU L-20-8-17 | Sec 20 T08S R17E 1766 FNL 0459 FEL |
| | | BHL Sec 20 T08S R17E 2392 FSL 1551 FEL |
| 43-013-51972 | GMBU O-21-8-17 | Sec 20 T08S R17E 1751 FNL 0443 FEL |
| | | BHL Sec 21 T08S R17E 2475 FSL 0166 FWL |
| 43-013-51973 | Roberts I-21-8-17 | Sec 21 T08S R17E 1996 FNL 2128 FEL |
| | | BHL Sec 21 T08S R17E 0766 FNL 1126 FEL |

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

Michael L. Coulthard

Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land Management, ou=Branch of Minerals, email=Michael_Coulthard@blm.gov, c=US
Date: 2013.01.22 15:52:33 -07'00'

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

MCoulthard:mc:1-22-13

RECEIVED: February 20, 2013

API well Number: 4301351967000

Search Images Mail Drive Calendar Sites Groups Contacts Mobile More

dianawhitney@utah.gov

Mail

More 4 of about 97

COMPOSE

Inbox (25)
Starred
Important
Sent Mail
Drafts
BLM (83)
Cabinet
Electronic filing
Eng. Tech
New Permits
Saved
Follow up
Misc
Priority
Tariq
More

# Newfield Well Approvals

Inbox x

**Jeff Conley** 2:14 PM (16 hours ago)

to Jim, Lavonne, mcrozier, cdmiller, me, Brad

The following wells have been approved by SITLA including arch and paleo resources

(4301351967) GMBU B-21-9-17
(4301351980) GMBU 111-32-8-17
(4301351978) GMBU 127-36-8-16
(4301351976) GMBU 128-32-8-17
(4301351977) GMBU 104-5-9-17

The following well is approved by SITLA including arch and paleo with 1 arch recommendation

(4301351979) GMBU 104-1-9-16 (U-12-MQ-1092b,s; 1 eligible site, 42Dc2653, adjacent to the north side of the well pad - cultural clearance is given provided the proponent restricts development to the north of the existing well pad; if the proponent decides expansion of the well pad to the north is necessary, then either archaeological monitoring or avoidance fencing along the southern edge of the eligible site is required)

Click here to Reply, Reply to all, or Forward

People (6)

Jeff Conley

Trust Lands Resource Specialist

Show details

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

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Operator** | NEWFIELD PRODUCTION COMPANY | | | | | | | |
| **Well Name** | GMBU B-21-9-17 | | | | | | | |
| **API Number** | 43013519670000 | **APD No** | 7472 | **Field/Unit** | MONUMENT BUTTE | | | |
| **Location: 1/4,1/4** | SESE | **Sec** | 16 | **Tw** | 9.0S | **Rng** | 17.0E | 661 FSL 665 FEL |
| **GPS Coord (UTM)** | 584941 4431064 | **Surface Owner** | | | | | | |

**Participants**

Shon McKinnon - Newfield

**Regional/Local Setting & Topography**

New hole on existing pad. Host well is the Lone tree 16-16-9-17. I see no further issues

**Surface Use Plan**

**Current Surface Use**

| New Road Miles | Well Pad Width | Well Pad Length | Src Const Material | Surface Formation |
|---|---|---|---|---|

**Ancillary Facilities**

**Waste Management Plan Adequate?**

**Environmental Parameters**

**Affected Floodplains and/or Wetlands**

**Flora / Fauna**

**Soil Type and Characteristics**

**Erosion Issues**

**Sedimentation Issues**

**Site Stability Issues**

**Drainage Diverson Required?**

**Berm Required?**

**Erosion Sedimentation Control Required?**

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

**Reserve Pit**

**Site-Specific Factors** **Site Ranking**

**Distance to Groundwater (feet)**

RECEIVED: March 04, 2013

API Well Number: 43013519670000

**Distance to Surface Water (feet)**
**Dist. Nearest Municipal Well (ft)**
**Distance to Other Wells (feet)**
**Native Soil Type**
**Fluid Type**
**Drill Cuttings**
**Annual Precipitation (inches)**
**Affected Populations**
**Presence Nearby Utility Conduits**

**Final Score** Sensitivity Level

**Characteristics / Requirements**

**Closed Loop Mud Required?** **Liner Required?** **Liner Thickness** **Pit Underlayment Required?**

**Other Observations / Comments**

Chris Jensen — **Evaluator**

2/13/2013 — **Date / Time**

RECEIVED: March 04, 2013

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

| APD No | API WellNo | Status | Well Type | Surf Owner | CBM |
|---|---|---|---|---|---|
| 7472 | 43013519670000 | SITLA | OW | S | No |
| **Operator** | NEWFIELD PRODUCTION COMPANY | | **Surface Owner-APD** | | |
| **Well Name** | GMBU B-21-9-17 | | **Unit** | GMBU (GRRV) | |
| **Field** | MONUMENT BUTTE | | **Type of Work** | DRILL | |
| **Location** | SESE 16 9S 17E S 661 FSL 665 FEL GPS Coord (UTM) 584951E 4431074N | | | | |

**Geologic Statement of Basis**

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

Brad Hill — **APD Evaluator**

2/26/2013 — **Date / Time**

**Surface Statement of Basis**

New well on an existing pad. Host well is the Lone Tree 16-16-9-17.
I see no further concerns with location.

Chris Jensen — **Onsite Evaluator**

2/13/2013 — **Date / Time**

**Conditions of Approval / Application for Permit to Drill**

| Category | Condition |
|---|---|
| Surface | The well site shall be bermed to prevent fluids from leaving the pad. |
| Surface | The reserve pit shall be fenced upon completion of drilling operations. |

RECEIVED: March 04, 2013

API Well Number: 43013519670000

# WORKSHEET
# APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 1/10/2013 **API NO. ASSIGNED:** 43013519670000
**WELL NAME:** GMBU B-21-9-17
**OPERATOR:** NEWFIELD PRODUCTION COMPANY (N2695) **PHONE NUMBER:** 435 646-4825
**CONTACT:** Mandie Crozier

**PROPOSED LOCATION:** SESE 16 090S 170E **Permit Tech Review:** ☑
**SURFACE:** 0661 FSL 0665 FEL **Engineering Review:** ☐
**BOTTOM:** 0238 FNL 1427 FEL **Geology Review:** ☑
**COUNTY:** DUCHESNE
**LATITUDE:** 40.02561 **LONGITUDE:** -110.00443
**UTM SURF EASTINGS:** 584951.00 **NORTHINGS:** 4431074.00
**FIELD NAME:** MONUMENT BUTTE
**LEASE TYPE:** 1 - Federal
**LEASE NUMBER:** UTU-13905 **PROPOSED PRODUCING FORMATION(S):** GREEN RIVER
**SURFACE OWNER:** 3 - State **COALBED METHANE:** NO

**RECEIVED AND/OR REVIEWED:**

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

**Commingling Approved**

**LOCATION AND SITING:**

- ☐ **R649-2-3.**

**Unit:** GMBU (GRRV)

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

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

- ☑ **R649-3-11. Directional Drill**

**Comments:** Presite Completed

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

RECEIVED: March 04, 2013

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 B-21-9-17
**API Well Number:** 43013519670000
**Lease Number:** UTU-13905
**Surface Owner:** STATE
**Approval Date:** 3/4/2013

**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.

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

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

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

following actions during drilling of this well:

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

**Reporting Requirements:**

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

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

**Approved By:**

For John Rogers
Associate Director, Oil & Gas

Form 3160-3
(August 2007)

RECEIVED
JAN 11 2013
BLM

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# APPLICATION FOR PERMIT TO DRILL OR REENTER

| | |
|---|---|
| 1a. Type of Work: ☒ DRILL ☐ REENTER | 5. Lease Serial No. UTU13905 |
| | 6. If Indian, Allottee or Tribe Name |
| | 7. If Unit or CA Agreement, Name and No. GREATER MONUMENT |
| 1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone | 8. Lease Name and Well No. GMBU B-21-9-17 |
| 2. Name of Operator NEWFIELD EXPLORATION — Contact: MANDIE CROZIER, E-Mail: mcrozier@newfield.com | 9. API Well No. 430-13-51967 |
| 3a. Address ROUTE #3 BOX 3630 MYTON, UT 84052 — 3b. Phone No. (include area code) Ph: 435-646-4825 Fx: 435-646-3031 | 10. Field and Pool, or Exploratory MONUMENT BUTTE |
| 4. Location of Well *(Report location clearly and in accordance with any State requirements.*)* At surface SESE 661FSL 665FEL; At proposed prod. zone NWNE 238FNL 1427FEL | 11. Sec., T., R., M., or Blk. and Survey or Area Sec 16 T9S R17E Mer SLB; Sec 21 |
| 14. Distance in miles and direction from nearest town or post office* 16.3 MILES SOUTHEAST OF MYTON | 12. County or Parish DUCHESNE — 13. State UT |
| 15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 238' — 16. No. of Acres in Lease 1200.00 | 17. Spacing Unit dedicated to this well 20.00 |
| 18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 856' — 19. Proposed Depth 5746 MD 5600 TVD | 20. BLM/BIA Bond No. on file WYB000493 |
| 21. Elevations (Show whether DF, KB, RT, GL, etc. 5303 GL — 22. Approximate date work will start 09/01/2013 | 23. Estimated duration 7 DAYS |

## 24. Attachments

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

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

| | | |
|---|---|---|
| 25. Signature (Electronic Submission) | Name (Printed/Typed) MANDIE CROZIER Ph: 435-646-4825 | Date 01/11/2013 |
| Title REGULATORY ANALYST | | |
| Approved by (Signature) | Name (Printed/Typed) Jerry Kenczka | Date MAY 21 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 #180813 verified by the BLM Well Information System**
**For NEWFIELD EXPLORATION, sent to the Vernal**
**Committed to AFMSS for processing by ROBIN R. HANSEN on 01/16/2013 ()**

RECEIVED
MAY 29 2013
DIV. OF OIL, GAS & MINING

NOTICE OF APPROVAL

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

**Additional Operator Remarks:**

SURFACE LEASE: ML-3453B
BOTTOM HOLE LEASE: UTU-13905

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

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

| | | | |
|---|---|---|---|
| **Company:** | **Newfield Production Company** | **Location:** | **SENW SEC 16 T9S R17E** |
| **Well No:** | **GMBU B-21-9-17** | **Lease No:** | **UTU13905** |
| **API No:** | **43-013-51967** | **Agreement:** | **UTU87538X** |

# 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<br>(Notify Environmental Scientist) | - | Forty-Eight (48) hours prior to construction of location and access roads. |
| Location Completion<br>(Notify Environmental Scientist) | - | Prior to moving on the drilling rig. |
| Spud Notice<br>(Notify Petroleum Engineer) | - | Twenty-Four (24) hours prior to spudding the well. |
| Casing String & Cementing<br>(Notify Supv. Petroleum Tech.) | - | Twenty-Four (24) hours prior to running casing and cementing all casing strings to:<br>blm_ut_vn_opreport@blm.gov |
| BOP & Related Equipment Tests<br>(Notify Supv. Petroleum Tech.) | - | Twenty-Four (24) hours prior to initiating pressure tests. |
| First Production Notice<br>(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)***

- 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:**

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

- There is a ferruginous hawk nest within ½ mile of the proposed project area. If construction or drilling is proposed from March 1-August 31, then a nesting survey will be conducted by a qualified biologist according to protocol. If the nest is found to be inactive, then permission to proceed may be granted by the BLM Authorized Officer. If the nest is determined to be active, then the timing restriction will remain in effect.

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

- If it is anticipated that construction or drilling will occur during Mountain plover nesting season (May 1 – June 15), a BLM biologist will be notified to determine if surveys are necessary prior to beginning operations. If surveys are deemed necessary, depending on the results permission to proceed may or may not, be granted by the BLM Authorized Officer.

**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 fished
  - 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. Signs will be installed on the access road, reducing speed to 25 MPH, during the drilling phase.
9. When feasible, two or more rigs (including drilling and completion rigs) will not be run simultaneously within 200 meters of each other. If two or more rigs must be run simultaneously within 200 meters of each other, then effective public health buffer zones out to 200 meters (m) from the nearest emission source will be implemented. Examples of an effective public health protection buffer zone include the demarcation of a public access exclusion zone by signage at intervals of every 250 feet that is visible from a distance of 125 feet during daylight hours, and a physical buffer such as active surveillance to ensure the property is not accessible by the public during drilling operations. Alternatively, the proponent may demonstrate compliance with the 1-hour $NO_2$ National Ambient Air Quality Standards (NAAQS) with appropriate and accepted near-field modeling. As part of this demonstration, the proponent may propose alternative mitigation that could include but is not limited to natural gas–fired drill rigs, installation of $NO_X$ controls, time/use restrictions, and/or drill rig spacing.
10. All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horse power must not emit more than 2 grams of $NO_X$ per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower-hour.
11. All new and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 grams of $NO_X$ per horsepower-hour.
12. Green completions will be used for all well completion activities where technically feasible.
13. Employ enhanced VOC emission controls with 95% control efficiency on production equipment having a potential to emit greater than 5 tons per year.

**Plants: Threatened, Endangered, Proposed, or Candidate**

*Discovery Stipulation*: Reinitiation of Section 7 consultation with the USFWS will be sought immediately if any loss of plants or occupied habitat for Pariette cactus or Uinta Basin Hookless cactus is anticipated as a result of project activities.

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

**SITE SPECIFIC DOWNHOLE COAs:**

1. Production casing cement shall be brought up and to the surface.
2. Surface casing cement shall be brought to surface.

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

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

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

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

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

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

- **Please submit an electronic copy of all other logs run on this well in CD (compact disc) format to the Vernal BLM Field Office. This submission will supersede the requirement for submittal of paper logs to the BLM.**

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

**OPERATING REQUIREMENT REMINDERS:**

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

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

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

    - Operator name, address, and telephone number.

    - Well name and number.

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

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

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

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

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

- Communitization agreement number, if applicable.

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

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

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

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

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

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

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

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

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

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

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

FORM 9

**5.LEASE DESIGNATION AND SERIAL NUMBER:** UTU-13905

## SUNDRY NOTICES AND REPORTS ON WELLS

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

**6. IF INDIAN, ALLOTTEE OR TRIBE NAME:**

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

**1. TYPE OF WELL** Oil Well

**8. WELL NAME and NUMBER:** GMBU B-21-9-17

**2. NAME OF OPERATOR:** NEWFIELD PRODUCTION COMPANY

**9. API NUMBER:** 43013519670000

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

**PHONE NUMBER:** 435 646-4825 Ext

**9. FIELD and POOL or WILDCAT:** MONUMENT BUTTE

**4. LOCATION OF WELL**
**FOOTAGES AT SURFACE:** 0661 FSL 0665 FEL
**QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:** Qtr/Qtr: SESE Section: 16 Township: 09.0S Range: 17.0E Meridian: S

**COUNTY:** DUCHESNE

**STATE:** UTAH

**11.**

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

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|---|---|---|
| ☐ NOTICE OF INTENT<br>Approximate date work will start: | ☐ ACIDIZE | ☐ ALTER CASING | ☐ CASING REPAIR |
| ☐ SUBSEQUENT REPORT<br>Date of Work Completion: | ☐ CHANGE TO PREVIOUS PLANS | ☐ CHANGE TUBING | ☐ CHANGE WELL NAME |
| ✓ SPUD REPORT<br>Date of Spud:<br>7/17/2013 | ☐ CHANGE WELL STATUS | ☐ COMMINGLE PRODUCING FORMATIONS | ☐ CONVERT WELL TYPE |
| ☐ DRILLING REPORT<br>Report Date: | ☐ DEEPEN | ☐ FRACTURE TREAT | ☐ NEW CONSTRUCTION |
| | ☐ OPERATOR CHANGE | ☐ PLUG AND ABANDON | ☐ PLUG BACK |
| | ☐ PRODUCTION START OR RESUME | ☐ RECLAMATION OF WELL SITE | ☐ RECOMPLETE DIFFERENT FORMATION |
| | ☐ REPERFORATE CURRENT FORMATION | ☐ SIDETRACK TO REPAIR WELL | ☐ TEMPORARY ABANDON |
| | ☐ TUBING REPAIR | ☐ VENT OR FLARE | ☐ WATER DISPOSAL |
| | ☐ WATER SHUTOFF | ☐ SI TA STATUS EXTENSION | ☐ APD EXTENSION |
| | ☐ WILDCAT WELL DETERMINATION | ☐ OTHER | OTHER: |

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

On 7/17/13 Pro Petro # 8 spud and drilled 331' of 12 1/4" hole, P/U and run 7 jts of 8 5/8" casing set 324.78'KB. On 7/18/13 cement w/Baker Hughes w/160 sks of class G+2%kcl+.25#CF mixed @ 15.8ppg and 1.17 yield. Returned 3bbls to pit, bump plug to 675psi, BLM and State were notified of spud via email.

**Accepted by the Utah Division of Oil, Gas and Mining**
**FOR RECORD ONLY**
July 25, 2013

| NAME (PLEASE PRINT) | PHONE NUMBER | TITLE |
|---|---|---|
| Cherei Neilson | 435 646-4883 | Drilling Techinacian |
| **SIGNATURE** N/A | | **DATE** 7/23/2013 |

RECEIVED: Jul. 23, 2013

# Casing / Liner Detail

| | |
|---|---|
| ***Well*** | GMBU B-21-9-17 |
| ***Prospect*** | Monument Butte |
| ***Foreman*** | |
| ***Run Date:*** | |
| ***String Type*** | Conductor, 14", 36.75#, H-40, W (Welded) |

**- Detail From Top To Bottom -**

| *Depth* | *Length* | *JTS* | *Description* | *OD* | *ID* |
|---|---|---|---|---|---|
| 18.00 | | | 13' KB | | |
| 13.00 | 5.00 | | Conductor | 14.000 | 13.500 |
| 18.00 | | | - | | |

## *Cement Detail*

**Cement Company:**

| Slurry | # of Sacks | Weight (ppg) | Yield | Volume ($ft^3$) | Description - Slurry Class and Additives |
|---|---|---|---|---|---|
| | | | | | |

| | | | |
|---|---|---|---|
| Stab-In-Job? | | Cement To Surface? | |
| BHT: | 0 | Est. Top of Cement: | |
| Initial Circulation Pressure: | | Plugs Bumped? | |
| Initial Circulation Rate: | | Pressure Plugs Bumped: | |
| Final Circulation Pressure: | | Floats Holding? | |
| Final Circulation Rate: | | Casing Stuck On / Off Bottom? | |
| Displacement Fluid: | | Casing Reciprocated? | |
| Displacement Rate: | | Casing Rotated? | |
| Displacement Volume: | | CIP: | |
| Mud Returns: | | Casing Wt Prior To Cement: | |
| Centralizer Type And Placement: | | Casing Weight Set On Slips: | |



RECEIVED: Jul. 23, 2013

# Casing / Liner Detail

| | |
|---|---|
| ***Well*** | GMBU B-21-9-17 |
| ***Prospect*** | Monument Butte |
| ***Foreman*** | |
| ***Run Date:*** | |
| ***String Type*** | Surface, 8.625", 24#, J-55, STC (Generic) |

**- Detail From Top To Bottom -**

| *Depth* | *Length* | *JTS* | *Description* | *OD* | *ID* |
|---|---|---|---|---|---|
| 324.78 | | | 13' KB | | |
| 13.00 | 1.42 | | Wellhead | | |
| 14.42 | 263.20 | 6 | Casing | 8.625 | |
| 277.62 | 0.90 | | Float | 8.625 | |
| 278.52 | 44.87 | 1 | Guide Shoe | 8.625 | |
| 323.39 | 1.39 | | Shoe Joint | 8.625 | |
| 324.78 | | | - | | |

## *Cement Detail*

**Cement Company:** BJ

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

| | | | |
|---|---|---|---|
| Stab-In-Job? | No | Cement To Surface? | Yes |
| BHT: | 0 | Est. Top of Cement: | 0 |
| Initial Circulation Pressure: | | Plugs Bumped? | Yes |
| Initial Circulation Rate: | | Pressure Plugs Bumped: | 675 |
| Final Circulation Pressure: | | Floats Holding? | No |
| Final Circulation Rate: | | Casing Stuck On / Off Bottom? | No |
| Displacement Fluid: | Water | Casing Reciprocated? | No |
| Displacement Rate: | | Casing Rotated? | No |
| Displacement Volume: | 17 | CIP: | 9:53 |
| Mud Returns: | | Casing Wt Prior To Cement: | |
| Centralizer Type And Placement: | | Casing Weight Set On Slips: | |
| Middle of first, top of second and third for a total of three. | | | |

RECEIVED: Jul. 23, 2013

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Pro Petro 8
Submitted By Branden Arnold Phone Number 435-401-0223
Well Name/Number GMBU B-21-9-17
Qtr/Qtr SE/SE Section 16 Township 9S Range 17E
Lease Serial Number UTU-13905
API Number 43-013-51967

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

Date/Time 7/17/13 8:00 AM ☒ PM ☐

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

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

Date/Time 7/17/13 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 _____

RECEIVED
JUL 16 2013
DIV. OF OIL, GAS & MINING

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Capstar 329
Submitted By Walt Bowen Phone Number 970-361-3001
Well Name/Number GMBU B-21-9-17
Qtr/Qtr SE/SE Section 16 Township 9S Range 17E
Lease Serial Number UTU-13905
API Number 43-013-51967

TD Notice – TD is the final drilling depth of hole.

Date/Time 7/23/13 03:00 AM ☐ PM ☐

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

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

Date/Time 7/23/13 17:00 AM ☐ PM ☐

RECEIVED
JUL 24 2013
DIV. OF OIL, GAS & MINING

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Capstar 329
Submitted By Walt Bowen Phone Number 970-361-3001
Well Name/Number GMBU B-21-9-17
Qtr/Qtr SE/SE Section 16 Township 9S Range 17E
Lease Serial Number UTU-13905
API Number 43-013-51967

TD Notice – TD is the final drilling depth of hole.

Date/Time 7/23/13 03:00 AM ☒ PM ☐

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

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

Date/Time 7/23/13 17:00 AM ☐ PM ☒

RECEIVED
JUL 2 2 2013
DIV. OF OIL, GAS & MINING

API Well Number: 43013519670000 PBTVD 5675'

Form 3160-4
(March 2012)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

# WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.: UTU13905

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

6. If Indian, Allottee or Tribe Name:

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

2. Name of Operator: NEWFIELD PRODUCTION COMPANY

8. Lease Name and Well No.: GMBU B-21-9-17

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

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

9. API Well No.: 43-013-51967

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

At surface: 661' FSL & 665' FEL (SE/SE) SEC. 16, T9S, R17E (ML-3453B)

10. Field and Pool or Exploratory: MONUMENT BUTTE

11. Sec., T., R., M., on Block and Survey or Area: SEC. 16, T9S, R17E, Mer SLB

At top prod. interval reported below: 106' FSL & 1122' FEL (SE/SE) SEC. 16, T9S, R17E (ML-3453B)

At total depth: 278' FNL & 1435' FEL (NW/NE) SEC 21, T9S, R17E (UTU-13905)

12. County or Parish: DUCHESNE

13. State: UT

14. Date Spudded: 07/17/2013

15. Date T.D. Reached: 07/23/2013

16. Date Completed: ☐ D & A ☑ Ready to Prod. 08/21/2013

17. Elevations (DF, RKB, RT, GL)*: 5303' GL 5313' KB

18. Total Depth: MD 5896' TVD 5747'

19. Plug Back T.D.: MD 5824' TVD

20. Depth Bridge Plug Set: MD TVD

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

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

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

| Hole Size | Size/Grade | Wt. (#/ft.) | Top (MD) | Bottom (MD) | Stage Cementer Depth | No. of Sks. & Type of Cement | Slurry Vol. (BBL) | Cement Top* | Amount Pulled |
|---|---|---|---|---|---|---|---|---|---|
| 12-1/4" | 8-5/8" J-55 | 24# | 0 | 325' | | 160 CLASS G | | | |
| 7-7/8" | 5-1/2" J-55 | 15.5# | 0 | 5870' | | 245 Econocem | | 44' | |
| | | | | | | 460Expandacem | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

24. Tubing Record

| Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) |
|---|---|---|---|---|---|---|---|---|
| 2-7/8" | EOT@5189' | TA@5090' | | | | | | |

25. Producing Intervals / 26. Perforation Record

| Formation | Top | Bottom | Perforated Interval | Size | No. Holes | Perf. Status |
|---|---|---|---|---|---|---|
| A) Green River | 3912' | 5105' | 3912' - 5105' MD | .34 | 40 | |
| B) | | | | | | |
| C) | | | | | | |
| D) | | | | | | |

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

| Depth Interval | Amount and Type of Material |
|---|---|
| 3912' - 5105' MD | Frac w/ 183,540#s of 20/40 white sand in 1979 bbls of Lightning 17 fluid, in 3 stages. |
| | |
| | |

28. Production - Interval A

| Date First Produced | Test Date | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---|---|---|---|---|---|---|---|---|---|
| 8/13/13 | 8/23/13 | 24 | → | 109 | 26 | 68 | | | 2.5-1.75-RHAC 20-4-21-24 |

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

28a. Production - Interval B

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

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

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

RECEIVED: Sep. 19, 2013

28b. Production - Interval C

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

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

28c. Production - Interval D

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

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

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

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

GEOLOGICAL MARKERS

| Formation | Top | Bottom | Descriptions, Contents, etc. | Name | Top Meas. Depth |
|---|---|---|---|---|---|
| | | | | GARDEN GULCH MARK | 3438' |
| | | | | GARDEN GULCH 1 | 3638' |
| | | | | GARDEN GULCH 2 | 3749' |
| | | | | POINT 3 | 3999' |
| | | | | X MRKR | 4255' |
| | | | | Y MRKR | 4291' |
| | | | | DOUGLAS CREEK MRK | 4416' |
| | | | | BI CARBONATE MRK | 4647' |
| | | | | B LIMESTONE MRK | 4760' |
| | | | | CASTLE PEAK | 5282' |
| | | | | BASAL CARBONATE | 5711' |
| | | | | WASATCH | 5837' |

32. Additional remarks (include plugging procedure):

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

☐ Electrical/Mechanical Logs (1 full set req'd.) ☐ Geologic Report ☐ DST Report ☑ Directional Survey

☐ Sundry Notice for plugging and cement verification ☐ Core Analysis ☑ Other: Drilling daily activity

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

Name *(please print)* Heather Calder Title Regulatory Technician

Signature Heather Calder Date 09/17/2013

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

(Continued on page 3)



RECEIVED: Sep. 19, 2013

NEWFIELD

# NEWFIELD EXPLORATION

**USGS Myton SW (UT)**
**SECTION 16 T9S, R17E**
**B-21-9-17**
**Wellbore #1**

**Design: Actual**

# End of Well Report

**30 July, 2013**

PAYZONE DIRECTIONAL

NEWFIELD

# Payzone Directional

End of Well Report

| | | | |
|---|---|---|---|
| **Company:** | NEWFIELD EXPLORATION | **Local Co-ordinate Reference:** | Well B-21-9-17 |
| **Project:** | USGS Myton SW (UT) | **TVD Reference:** | B-21-9-17 @ 5316.0ft (Capstar 329) |
| **Site:** | SECTION 16 T9S, R17E | **MD Reference:** | B-21-9-17 @ 5316.0ft (Capstar 329) |
| **Well:** | B-21-9-17 | **North Reference:** | True |
| **Wellbore:** | Wellbore #1 | **Survey Calculation Method:** | Minimum Curvature |
| **Design:** | Actual | **Database:** | EDM 2003.21 Single User Db |

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

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

**Site** SECTION 16 T9S, R17E, SEC 16 T9S, R17E

| | | | | | |
|---|---|---|---|---|---|
| **Site Position:** | | **Northing:** | 7,183,439.74 ft | **Latitude:** | 40° 1' 51.237 N |
| **From:** | Lat/Long | **Easting:** | 2,056,769.95 ft | **Longitude:** | 110° 0' 46.831 W |
| **Position Uncertainty:** | 0.0 ft | **Slot Radius:** | " | **Grid Convergence:** | 0.95 ° |

**Well** B-21-9-17, SHL LAT: 40 01 31.85 LONG: -110 00 16.36

| | | | | | | |
|---|---|---|---|---|---|---|
| **Well Position** | **+N/-S** | 0.0 ft | **Northing:** | 7,181,517.90 ft | **Latitude:** | 40° 1' 31.850 N |
| | **+E/-W** | 0.0 ft | **Easting:** | 2,059,172.45 ft | **Longitude:** | 110° 0' 16.360 W |
| **Position Uncertainty** | | 0.0 ft | **Wellhead Elevation:** | 5,316.0 ft | **Ground Level:** | 5,303.0 ft |

**Wellbore** Wellbore #1

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|---|---|---|---|---|---|
| | IGRF2010 | 9/20/2012 | 11.12 | 65.76 | 52,144 |

**Design** Actual

**Audit Notes:**

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

| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) |
|---|---|---|---|---|
| | 0.0 | 0.0 | 0.0 | 219.40 |

**Survey Program** **Date** 7/30/2013

| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description |
|---|---|---|---|---|
| 340.0 | 5,896.0 | Survey #1 (Wellbore #1) | MWD | MWD - Standard |

NEWFIELD

# Payzone Directional

End of Well Report

PAYZONE

| | | | |
|---|---|---|---|
| **Company:** | NEWFIELD EXPLORATION | **Local Co-ordinate Reference:** | Well B-21-9-17 |
| **Project:** | USGS Myton SW (UT) | **TVD Reference:** | B-21-9-17 @ 5316.0ft (Capstar 329) |
| **Site:** | SECTION 16 T9S, R17E | **MD Reference:** | B-21-9-17 @ 5316.0ft (Capstar 329) |
| **Well:** | B-21-9-17 | **North Reference:** | True |
| **Wellbore:** | Wellbore #1 | **Survey Calculation Method:** | Minimum Curvature |
| **Design:** | Actual | **Database:** | EDM 2003.21 Single User Db |

**Survey**

| MD (ft) | Inc (°) | Azi (azimuth) (°) | TVD (ft) | V. Sec (ft) | N/S (ft) | E/W (ft) | DLeg (°/100ft) | Build (°/100ft) | Turn (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 340.0 | 1.00 | 206.00 | 340.0 | 2.9 | -2.7 | -1.3 | 0.29 | 0.29 | 0.00 |
| 370.0 | 0.90 | 210.60 | 370.0 | 3.4 | -3.1 | -1.5 | 0.42 | -0.33 | 15.33 |
| 401.0 | 0.92 | 208.20 | 401.0 | 3.9 | -3.5 | -1.8 | 0.14 | 0.06 | -7.74 |
| 431.0 | 1.00 | 212.90 | 431.0 | 4.4 | -4.0 | -2.0 | 0.37 | 0.27 | 15.67 |
| 460.0 | 1.00 | 214.00 | 460.0 | 4.9 | -4.4 | -2.3 | 0.07 | 0.00 | 3.79 |
| 491.0 | 1.00 | 216.40 | 491.0 | 5.4 | -4.8 | -2.6 | 0.14 | 0.00 | 7.74 |
| 521.0 | 1.10 | 213.90 | 521.0 | 5.9 | -5.3 | -2.9 | 0.37 | 0.33 | -8.33 |
| 551.0 | 1.30 | 216.70 | 550.9 | 6.6 | -5.8 | -3.3 | 0.69 | 0.67 | 9.33 |
| 581.0 | 1.50 | 221.60 | 580.9 | 7.3 | -6.4 | -3.8 | 0.78 | 0.67 | 16.33 |
| 610.0 | 1.50 | 228.10 | 609.9 | 8.1 | -6.9 | -4.3 | 0.59 | 0.00 | 22.41 |
| 641.0 | 1.80 | 228.00 | 640.9 | 8.9 | -7.5 | -5.0 | 0.97 | 0.97 | -0.32 |
| 671.0 | 2.10 | 225.60 | 670.9 | 10.0 | -8.2 | -5.7 | 1.04 | 1.00 | -8.00 |
| 701.0 | 2.40 | 229.30 | 700.9 | 11.1 | -9.0 | -6.6 | 1.11 | 1.00 | 12.33 |
| 732.0 | 2.50 | 229.10 | 731.8 | 12.4 | -9.9 | -7.6 | 0.32 | 0.32 | -0.65 |
| 763.0 | 3.00 | 229.60 | 762.8 | 13.9 | -10.8 | -8.7 | 1.61 | 1.61 | 1.61 |
| 793.0 | 3.50 | 227.60 | 792.8 | 15.6 | -11.9 | -10.0 | 1.71 | 1.67 | -6.67 |
| 823.0 | 4.00 | 225.00 | 822.7 | 17.5 | -13.3 | -11.4 | 1.76 | 1.67 | -8.67 |
| 854.0 | 4.40 | 222.60 | 853.6 | 19.8 | -14.9 | -13.0 | 1.41 | 1.29 | -7.74 |
| 884.0 | 4.50 | 224.10 | 883.5 | 22.1 | -16.6 | -14.6 | 0.51 | 0.33 | 5.00 |
| 916.0 | 5.00 | 225.70 | 915.4 | 24.7 | -18.5 | -16.4 | 1.62 | 1.56 | 5.00 |
| 947.0 | 5.60 | 228.20 | 946.3 | 27.6 | -20.5 | -18.5 | 2.07 | 1.94 | 8.06 |
| 978.0 | 6.20 | 229.60 | 977.1 | 30.7 | -22.6 | -20.9 | 1.99 | 1.94 | 4.52 |
| 1,008.0 | 6.60 | 228.10 | 1,006.9 | 34.0 | -24.8 | -23.5 | 1.45 | 1.33 | -5.00 |
| 1,039.0 | 7.10 | 227.00 | 1,037.7 | 37.7 | -27.3 | -26.2 | 1.67 | 1.61 | -3.55 |
| 1,070.0 | 7.60 | 226.20 | 1,068.5 | 41.6 | -30.0 | -29.1 | 1.65 | 1.61 | -2.58 |
| 1,113.0 | 8.10 | 223.80 | 1,111.1 | 47.5 | -34.1 | -33.2 | 1.39 | 1.16 | -5.58 |

NEWFIELD

# Payzone Directional

End of Well Report

| | | | |
|---|---|---|---|
| **Company:** | NEWFIELD EXPLORATION | **Local Co-ordinate Reference:** | Well B-21-9-17 |
| **Project:** | USGS Myton SW (UT) | **TVD Reference:** | B-21-9-17 @ 5316.0ft (Capstar 329) |
| **Site:** | SECTION 16 T9S, R17E | **MD Reference:** | B-21-9-17 @ 5316.0ft (Capstar 329) |
| **Well:** | B-21-9-17 | **North Reference:** | True |
| **Wellbore:** | Wellbore #1 | **Survey Calculation Method:** | Minimum Curvature |
| **Design:** | Actual | **Database:** | EDM 2003.21 Single User Db |

**Survey**

| MD (ft) | Inc (°) | Azi (azimuth) (°) | TVD (ft) | V. Sec (ft) | N/S (ft) | E/W (ft) | DLeg (°/100ft) | Build (°/100ft) | Turn (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 1,157.0 | 8.70 | 221.40 | 1,154.6 | 53.9 | -38.9 | -37.6 | 1.58 | 1.36 | -5.45 |
| 1,200.0 | 9.10 | 220.90 | 1,197.1 | 60.5 | -43.9 | -41.9 | 0.95 | 0.93 | -1.16 |
| 1,244.0 | 9.20 | 220.60 | 1,240.5 | 67.5 | -49.2 | -46.5 | 0.25 | 0.23 | -0.68 |
| 1,287.0 | 9.70 | 221.50 | 1,282.9 | 74.6 | -54.5 | -51.1 | 1.21 | 1.16 | 2.09 |
| 1,331.0 | 10.00 | 220.90 | 1,326.3 | 82.1 | -60.2 | -56.1 | 0.72 | 0.68 | -1.36 |
| 1,375.0 | 9.90 | 219.80 | 1,369.6 | 89.7 | -66.0 | -61.0 | 0.49 | -0.23 | -2.50 |
| 1,418.0 | 9.90 | 217.00 | 1,412.0 | 97.1 | -71.8 | -65.6 | 1.12 | 0.00 | -6.51 |
| 1,462.0 | 10.30 | 216.00 | 1,455.3 | 104.8 | -78.0 | -70.2 | 0.99 | 0.91 | -2.27 |
| 1,506.0 | 10.60 | 214.90 | 1,498.6 | 112.8 | -84.5 | -74.8 | 0.82 | 0.68 | -2.50 |
| 1,550.0 | 10.90 | 216.30 | 1,541.8 | 120.9 | -91.1 | -79.6 | 0.90 | 0.68 | 3.18 |
| 1,594.0 | 10.80 | 217.70 | 1,585.0 | 129.2 | -97.7 | -84.6 | 0.64 | -0.23 | 3.18 |
| 1,638.0 | 11.20 | 216.80 | 1,628.2 | 137.6 | -104.4 | -89.7 | 0.99 | 0.91 | -2.05 |
| 1,681.0 | 11.60 | 216.60 | 1,670.3 | 146.1 | -111.2 | -94.7 | 0.93 | 0.93 | -0.47 |
| 1,725.0 | 11.90 | 215.30 | 1,713.4 | 155.0 | -118.5 | -100.0 | 0.91 | 0.68 | -2.95 |
| 1,769.0 | 12.20 | 217.30 | 1,756.5 | 164.2 | -125.9 | -105.4 | 1.17 | 0.68 | 4.55 |
| 1,813.0 | 12.60 | 217.90 | 1,799.4 | 173.7 | -133.4 | -111.2 | 0.96 | 0.91 | 1.36 |
| 1,857.0 | 13.10 | 219.00 | 1,842.3 | 183.4 | -141.0 | -117.3 | 1.27 | 1.14 | 2.50 |
| 1,901.0 | 13.70 | 218.50 | 1,885.1 | 193.6 | -149.0 | -123.7 | 1.39 | 1.36 | -1.14 |
| 1,945.0 | 13.90 | 217.50 | 1,927.9 | 204.1 | -157.3 | -130.1 | 0.71 | 0.45 | -2.27 |
| 1,988.0 | 14.30 | 218.10 | 1,969.6 | 214.6 | -165.5 | -136.6 | 0.99 | 0.93 | 1.40 |
| 2,032.0 | 14.90 | 219.00 | 2,012.1 | 225.7 | -174.2 | -143.5 | 1.46 | 1.36 | 2.05 |
| 2,076.0 | 15.10 | 219.60 | 2,054.6 | 237.1 | -183.0 | -150.7 | 0.58 | 0.45 | 1.36 |
| 2,120.0 | 15.50 | 218.40 | 2,097.1 | 248.7 | -192.1 | -158.0 | 1.16 | 0.91 | -2.73 |
| 2,163.0 | 15.50 | 217.80 | 2,138.5 | 260.2 | -201.1 | -165.1 | 0.37 | 0.00 | -1.40 |
| 2,207.0 | 15.30 | 217.40 | 2,180.9 | 271.9 | -210.4 | -172.2 | 0.51 | -0.45 | -0.91 |
| 2,251.0 | 15.30 | 217.90 | 2,223.4 | 283.5 | -219.5 | -179.3 | 0.30 | 0.00 | 1.14 |
| 2,295.0 | 15.10 | 218.10 | 2,265.8 | 295.0 | -228.6 | -186.4 | 0.47 | -0.45 | 0.45 |

NEWFIELD

# Payzone Directional

End of Well Report

| | | | |
|---|---|---|---|
| **Company:** | NEWFIELD EXPLORATION | **Local Co-ordinate Reference:** | Well B-21-9-17 |
| **Project:** | USGS Myton SW (UT) | **TVD Reference:** | B-21-9-17 @ 5316.0ft (Capstar 329) |
| **Site:** | SECTION 16 T9S, R17E | **MD Reference:** | B-21-9-17 @ 5316.0ft (Capstar 329) |
| **Well:** | B-21-9-17 | **North Reference:** | True |
| **Wellbore:** | Wellbore #1 | **Survey Calculation Method:** | Minimum Curvature |
| **Design:** | Actual | **Database:** | EDM 2003.21 Single User Db |

**Survey**

| MD (ft) | Inc (°) | Azi (azimuth) (°) | TVD (ft) | V. Sec (ft) | N/S (ft) | E/W (ft) | DLeg (°/100ft) | Build (°/100ft) | Turn (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 2,338.0 | 14.10 | 218.10 | 2,307.4 | 305.8 | -237.2 | -193.1 | 2.33 | -2.33 | 0.00 |
| 2,382.0 | 14.10 | 218.10 | 2,350.1 | 316.5 | -245.6 | -199.7 | 0.00 | 0.00 | 0.00 |
| 2,426.0 | 14.10 | 218.00 | 2,392.8 | 327.3 | -254.0 | -206.3 | 0.06 | 0.00 | -0.23 |
| 2,470.0 | 14.70 | 219.90 | 2,435.4 | 338.2 | -262.5 | -213.2 | 1.74 | 1.36 | 4.32 |
| 2,514.0 | 15.60 | 220.00 | 2,477.9 | 349.7 | -271.4 | -220.6 | 2.05 | 2.05 | 0.23 |
| 2,557.0 | 16.30 | 223.00 | 2,519.2 | 361.5 | -280.2 | -228.4 | 2.51 | 1.63 | 6.98 |
| 2,601.0 | 16.40 | 223.20 | 2,561.5 | 373.9 | -289.2 | -236.9 | 0.26 | 0.23 | 0.45 |
| 2,645.0 | 15.90 | 221.70 | 2,603.7 | 386.1 | -298.3 | -245.1 | 1.48 | -1.14 | -3.41 |
| 2,689.0 | 16.10 | 220.70 | 2,646.0 | 398.2 | -307.4 | -253.1 | 0.77 | 0.45 | -2.27 |
| 2,819.0 | 15.90 | 222.60 | 2,771.0 | 434.0 | -334.2 | -276.9 | 0.43 | -0.15 | 1.46 |
| 2,862.0 | 16.00 | 220.80 | 2,812.3 | 445.8 | -343.0 | -284.8 | 1.17 | 0.23 | -4.19 |
| 2,906.0 | 16.60 | 220.60 | 2,854.6 | 458.2 | -352.4 | -292.8 | 1.37 | 1.36 | -0.45 |
| 2,950.0 | 16.80 | 221.10 | 2,896.7 | 470.8 | -361.9 | -301.1 | 0.56 | 0.45 | 1.14 |
| 2,994.0 | 17.00 | 220.30 | 2,938.8 | 483.6 | -371.6 | -309.5 | 0.70 | 0.45 | -1.82 |
| 3,037.0 | 16.30 | 219.20 | 2,980.0 | 495.9 | -381.1 | -317.3 | 1.79 | -1.63 | -2.56 |
| 3,081.0 | 15.70 | 218.60 | 3,022.3 | 508.0 | -390.5 | -324.9 | 1.41 | -1.36 | -1.36 |
| 3,125.0 | 15.80 | 218.40 | 3,064.6 | 520.0 | -399.9 | -332.4 | 0.26 | 0.23 | -0.45 |
| 3,169.0 | 16.00 | 217.50 | 3,107.0 | 532.0 | -409.4 | -339.8 | 0.72 | 0.45 | -2.05 |
| 3,212.0 | 15.90 | 217.10 | 3,148.3 | 543.8 | -418.8 | -347.0 | 0.35 | -0.23 | -0.93 |
| 3,256.0 | 15.90 | 217.40 | 3,190.6 | 555.9 | -428.4 | -354.3 | 0.19 | 0.00 | 0.68 |
| 3,300.0 | 15.70 | 216.40 | 3,233.0 | 567.8 | -438.0 | -361.4 | 0.77 | -0.45 | -2.27 |
| 3,343.0 | 15.10 | 217.00 | 3,274.4 | 579.3 | -447.1 | -368.3 | 1.44 | -1.40 | 1.40 |
| 3,387.0 | 14.40 | 216.00 | 3,317.0 | 590.4 | -456.1 | -374.9 | 1.69 | -1.59 | -2.27 |
| 3,431.0 | 13.60 | 216.40 | 3,359.6 | 601.1 | -464.7 | -381.2 | 1.83 | -1.82 | 0.91 |
| 3,475.0 | 13.10 | 216.10 | 3,402.5 | 611.2 | -472.9 | -387.2 | 1.15 | -1.14 | -0.68 |
| 3,519.0 | 12.90 | 217.70 | 3,445.3 | 621.1 | -480.8 | -393.2 | 0.94 | -0.45 | 3.64 |
| 3,563.0 | 13.30 | 219.40 | 3,488.2 | 631.1 | -488.6 | -399.4 | 1.26 | 0.91 | 3.86 |

NEWFIELD

# Payzone Directional

End of Well Report

| | | | |
|---|---|---|---|
| **Company:** | NEWFIELD EXPLORATION | **Local Co-ordinate Reference:** | Well B-21-9-17 |
| **Project:** | USGS Myton SW (UT) | **TVD Reference:** | B-21-9-17 @ 5316.0ft (Capstar 329) |
| **Site:** | SECTION 16 T9S, R17E | **MD Reference:** | B-21-9-17 @ 5316.0ft (Capstar 329) |
| **Well:** | B-21-9-17 | **North Reference:** | True |
| **Wellbore:** | Wellbore #1 | **Survey Calculation Method:** | Minimum Curvature |
| **Design:** | Actual | **Database:** | EDM 2003.21 Single User Db |

**Survey**

| MD (ft) | Inc (°) | Azi (azimuth) (°) | TVD (ft) | V. Sec (ft) | N/S (ft) | E/W (ft) | DLeg (°/100ft) | Build (°/100ft) | Turn (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 3,606.0 | 13.60 | 220.80 | 3,530.0 | 641.1 | -496.3 | -405.8 | 1.03 | 0.70 | 3.26 |
| 3,650.0 | 14.20 | 220.70 | 3,572.7 | 651.6 | -504.3 | -412.7 | 1.36 | 1.36 | -0.23 |
| 3,691.0 | 14.60 | 222.80 | 3,612.4 | 661.8 | -511.9 | -419.5 | 1.60 | 0.98 | 5.12 |
| 3,736.0 | 14.90 | 223.20 | 3,655.9 | 673.3 | -520.2 | -427.3 | 0.70 | 0.67 | 0.89 |
| 3,780.0 | 15.40 | 221.80 | 3,698.4 | 684.7 | -528.7 | -435.1 | 1.41 | 1.14 | -3.18 |
| 3,822.0 | 15.30 | 219.90 | 3,738.9 | 695.9 | -537.1 | -442.4 | 1.22 | -0.24 | -4.52 |
| 3,866.0 | 15.20 | 218.50 | 3,781.4 | 707.4 | -546.1 | -449.7 | 0.87 | -0.23 | -3.18 |
| 3,910.0 | 14.90 | 218.00 | 3,823.9 | 718.8 | -555.1 | -456.8 | 0.74 | -0.68 | -1.14 |
| 3,953.0 | 14.80 | 220.10 | 3,865.4 | 729.9 | -563.6 | -463.7 | 1.27 | -0.23 | 4.88 |
| 3,997.0 | 14.90 | 221.40 | 3,908.0 | 741.1 | -572.2 | -471.1 | 0.79 | 0.23 | 2.95 |
| 4,041.0 | 14.70 | 221.60 | 3,950.5 | 752.4 | -580.6 | -478.5 | 0.47 | -0.45 | 0.45 |
| 4,085.0 | 14.40 | 221.20 | 3,993.1 | 763.4 | -588.9 | -485.8 | 0.72 | -0.68 | -0.91 |
| 4,128.0 | 14.40 | 221.10 | 4,034.7 | 774.1 | -596.9 | -492.9 | 0.06 | 0.00 | -0.23 |
| 4,171.0 | 14.90 | 220.90 | 4,076.3 | 785.0 | -605.1 | -500.0 | 1.17 | 1.16 | -0.47 |
| 4,215.0 | 15.20 | 222.10 | 4,118.8 | 796.4 | -613.7 | -507.6 | 0.98 | 0.68 | 2.73 |
| 4,259.0 | 14.90 | 220.80 | 4,161.3 | 807.8 | -622.3 | -515.1 | 1.03 | -0.68 | -2.95 |
| 4,302.0 | 15.10 | 219.20 | 4,202.9 | 818.9 | -630.8 | -522.3 | 1.07 | 0.47 | -3.72 |
| 4,345.0 | 15.20 | 217.40 | 4,244.4 | 830.2 | -639.6 | -529.2 | 1.12 | 0.23 | -4.19 |
| 4,389.0 | 15.40 | 216.90 | 4,286.8 | 841.8 | -648.9 | -536.3 | 0.54 | 0.45 | -1.14 |
| 4,433.0 | 15.20 | 216.20 | 4,329.2 | 853.4 | -658.2 | -543.2 | 0.62 | -0.45 | -1.59 |
| 4,477.0 | 15.20 | 216.40 | 4,371.7 | 864.9 | -667.5 | -550.0 | 0.12 | 0.00 | 0.45 |
| 4,521.0 | 15.40 | 216.00 | 4,414.1 | 876.5 | -676.9 | -556.9 | 0.51 | 0.45 | -0.91 |
| 4,564.0 | 15.10 | 215.90 | 4,455.6 | 887.8 | -686.0 | -563.5 | 0.70 | -0.70 | -0.23 |
| 4,608.0 | 15.00 | 215.70 | 4,498.1 | 899.2 | -695.3 | -570.2 | 0.26 | -0.23 | -0.45 |
| 4,651.0 | 14.70 | 216.30 | 4,539.7 | 910.2 | -704.2 | -576.7 | 0.78 | -0.70 | 1.40 |
| 4,691.6 | 14.23 | 216.21 | 4,579.0 | 920.3 | -712.4 | -582.6 | 1.16 | -1.16 | -0.23 |
| B-21-9-17 TGT | | | | | | | | | |

| | | | |
|---|---|---|---|
| **Company:** | NEWFIELD EXPLORATION | **Local Co-ordinate Reference:** | Well B-21-9-17 |
| **Project:** | USGS Myton SW (UT) | **TVD Reference:** | B-21-9-17 @ 5316.0ft (Capstar 329) |
| **Site:** | SECTION 16 T9S, R17E | **MD Reference:** | B-21-9-17 @ 5316.0ft (Capstar 329) |
| **Well:** | B-21-9-17 | **North Reference:** | True |
| **Wellbore:** | Wellbore #1 | **Survey Calculation Method:** | Minimum Curvature |
| **Design:** | Actual | **Database:** | EDM 2003.21 Single User Db |

**Survey**

| MD (ft) | Inc (°) | Azi (azimuth) (°) | TVD (ft) | V. Sec (ft) | N/S (ft) | E/W (ft) | DLeg (°/100ft) | Build (°/100ft) | Turn (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 4,694.0 | 14.20 | 216.20 | 4,581.3 | 920.9 | -712.8 | -583.0 | 1.16 | -1.16 | -0.24 |
| 4,737.0 | 14.20 | 216.00 | 4,623.0 | 931.4 | -721.4 | -589.2 | 0.11 | 0.00 | -0.47 |
| 4,781.0 | 13.90 | 217.00 | 4,665.7 | 942.1 | -730.0 | -595.6 | 0.88 | -0.68 | 2.27 |
| 4,824.0 | 13.80 | 217.20 | 4,707.4 | 952.4 | -738.2 | -601.8 | 0.26 | -0.23 | 0.47 |
| 4,867.0 | 14.40 | 218.60 | 4,749.1 | 962.8 | -746.4 | -608.2 | 1.60 | 1.40 | 3.26 |
| 4,911.0 | 14.50 | 220.50 | 4,791.8 | 973.8 | -754.9 | -615.2 | 1.10 | 0.23 | 4.32 |
| 4,954.0 | 14.10 | 221.80 | 4,833.4 | 984.4 | -762.9 | -622.2 | 1.19 | -0.93 | 3.02 |
| 4,998.0 | 13.40 | 222.60 | 4,876.2 | 994.9 | -770.6 | -629.2 | 1.65 | -1.59 | 1.82 |
| 5,042.0 | 13.90 | 223.00 | 4,918.9 | 1,005.2 | -778.3 | -636.3 | 1.16 | 1.14 | 0.91 |
| 5,086.0 | 15.10 | 221.80 | 4,961.5 | 1,016.2 | -786.4 | -643.7 | 2.81 | 2.73 | -2.73 |
| 5,130.0 | 15.90 | 222.30 | 5,003.9 | 1,028.0 | -795.1 | -651.6 | 1.84 | 1.82 | 1.14 |
| 5,173.0 | 16.60 | 223.70 | 5,045.2 | 1,040.0 | -803.9 | -659.8 | 1.87 | 1.63 | 3.26 |
| 5,217.0 | 16.20 | 224.90 | 5,087.4 | 1,052.4 | -812.8 | -668.5 | 1.19 | -0.91 | 2.73 |
| 5,260.0 | 15.40 | 223.40 | 5,128.8 | 1,064.0 | -821.2 | -676.6 | 2.09 | -1.86 | -3.49 |
| 5,303.0 | 14.70 | 221.00 | 5,170.3 | 1,075.2 | -829.5 | -684.1 | 2.18 | -1.63 | -5.58 |
| 5,346.0 | 14.80 | 220.10 | 5,211.9 | 1,086.1 | -837.8 | -691.2 | 0.58 | 0.23 | -2.09 |
| 5,390.0 | 15.00 | 219.00 | 5,254.4 | 1,097.5 | -846.5 | -698.4 | 0.79 | 0.45 | -2.50 |
| 5,432.0 | 14.90 | 217.10 | 5,295.0 | 1,108.3 | -855.1 | -705.1 | 1.19 | -0.24 | -4.52 |
| 5,476.0 | 14.80 | 217.10 | 5,337.5 | 1,119.6 | -864.0 | -711.9 | 0.23 | -0.23 | 0.00 |
| 5,519.0 | 15.30 | 217.80 | 5,379.0 | 1,130.7 | -872.9 | -718.7 | 1.24 | 1.16 | 1.63 |
| 5,563.0 | 15.10 | 218.50 | 5,421.5 | 1,142.2 | -882.0 | -725.8 | 0.62 | -0.45 | 1.59 |
| 5,606.0 | 14.70 | 219.30 | 5,463.1 | 1,153.3 | -890.6 | -732.8 | 1.05 | -0.93 | 1.86 |
| 5,648.0 | 14.40 | 219.10 | 5,503.7 | 1,163.8 | -898.8 | -739.4 | 0.72 | -0.71 | -0.48 |
| 5,691.0 | 13.30 | 218.40 | 5,545.5 | 1,174.1 | -906.8 | -745.9 | 2.59 | -2.56 | -1.63 |
| 5,735.0 | 12.10 | 216.50 | 5,588.4 | 1,183.8 | -914.5 | -751.8 | 2.89 | -2.73 | -4.32 |
| 5,779.0 | 11.10 | 216.30 | 5,631.5 | 1,192.6 | -921.6 | -757.0 | 2.27 | -2.27 | -0.45 |
| 5,842.0 | 10.50 | 215.40 | 5,693.4 | 1,204.4 | -931.2 | -763.9 | 0.99 | -0.95 | -1.43 |

NEWFIELD

# Payzone Directional

## End of Well Report

| | | | |
|---|---|---|---|
| **Company:** | NEWFIELD EXPLORATION | **Local Co-ordinate Reference:** | Well B-21-9-17 |
| **Project:** | USGS Myton SW (UT) | **TVD Reference:** | B-21-9-17 @ 5316.0ft (Capstar 329) |
| **Site:** | SECTION 16 T9S, R17E | **MD Reference:** | B-21-9-17 @ 5316.0ft (Capstar 329) |
| **Well:** | B-21-9-17 | **North Reference:** | True |
| **Wellbore:** | Wellbore #1 | **Survey Calculation Method:** | Minimum Curvature |
| **Design:** | Actual | **Database:** | EDM 2003.21 Single User Db |

**Survey**

| MD (ft) | Inc (°) | Azi (azimuth) (°) | TVD (ft) | V. Sec (ft) | N/S (ft) | E/W (ft) | DLeg (°/100ft) | Build (°/100ft) | Turn (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 5,896.0 | 10.50 | 215.40 | 5,746.5 | 1,214.2 | -939.2 | -769.6 | 0.00 | 0.00 | 0.00 |

Checked By: _____ Approved By: _____ Date: _____

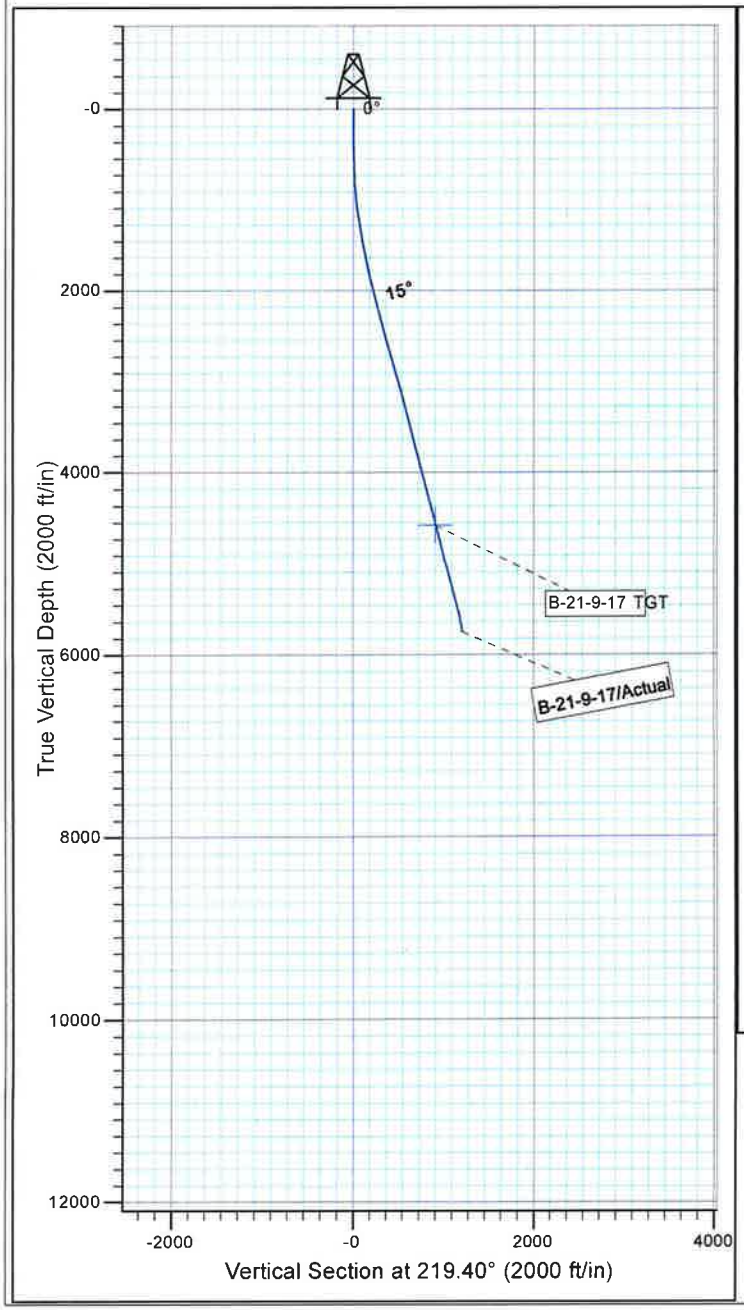
NEWFIELD

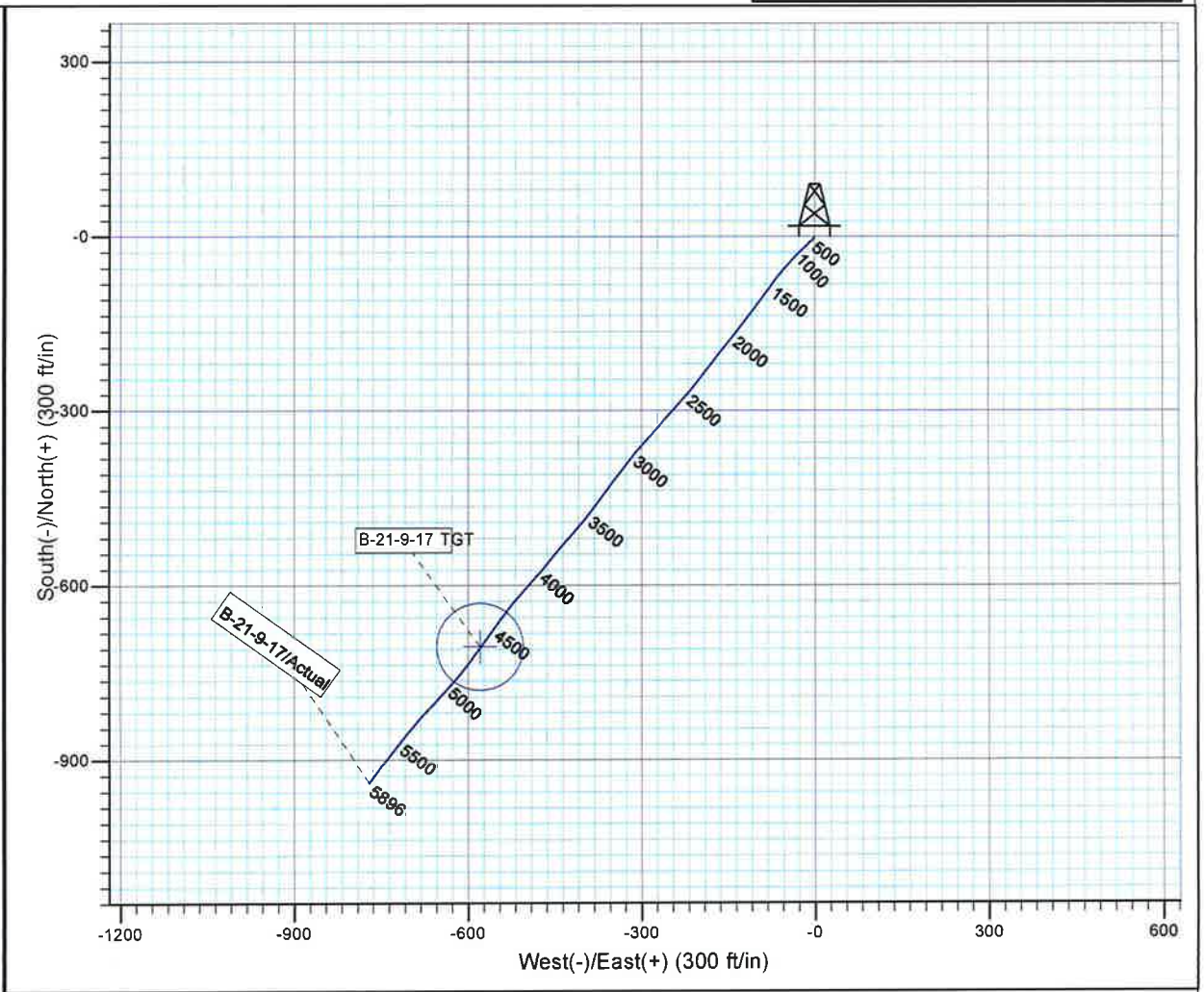
Project: USGS Myton SW (UT)
Site: SECTION 16 T9S, R17E
Well: B-21-9-17
Wellbore: Wellbore #1
Design: Actual

T M

Azimuths to True North
Magnetic North: 11.12°

Magnetic Field
Strength: 52144.4snT
Dip Angle: 65.76°
Date: 9/20/2012
Model: IGRF2010




PAYZONE DIRECTIONAL

Design: Actual (B-21-9-17/Wellbore #1)

Created By: Sarah Webb Date: 13:40, July 30 2013

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

API well Number: 43013519670000

RECEIVED: Sep. 19, 2013

# Daily Activity Report

**Format For Sundry**

## GMBU B-21-9-17

**6/1/2013 To 10/30/2013**

**8/7/2013 Day: 1** **Completion**

Rigless on 8/7/2013 - CBL/psi test/perforate stg1, RU frac crew - RIH w/3 1/8" slick guns (16g, 0.34 EH, 21.00 pen), perforate stg 1 @ LODC 5103-05', 5098-100', 5088-90', A1 4887-88', 4867-68', 4859-60', 4851-52' w 2spf for total of 20 shots. - MIRU Extreme Wireline/JSA mtg with all hands on location - RU S&S test trailer. Psi test hydraulic cavities-good. Load & test csg agains BOP-good, test frac valve & csg valves-good - RIH w/CBL tools. Log from PBTD to surface under 0 psi. - - MIRU Halliburton frac crew. Ready to frac in am
**Daily Cost:** $0
**Cumulative Cost:** $23,863

---

**8/8/2013 Day: 2** **Completion**

Nabors #1608 on 8/8/2013 - Frac/flowback/set KP/MIRUSU/psi test stack - RU rig - Continue testing stack, RU workfloor, prep & tally tbg. PSI test good. SDFN - Crew travel - Road rig, Nabors #1608, spot in, RU drillout stack, RU S&S tester, begin testing stack. Unload tbg. - RIH w/ Weatherford solid plug. Set KP @ 3800'/ POOH/RD wireline - Flowback well - died off to less than 1bpm, turned to oil. Returned approx. 200 bbls - Stage #3, GB4 sands. 1493 psi on well. Frac GB4 sds w/30,200#s of 20/40 White sand in 197 bbls 17# Delta 140 fluid. Broke @ 2094 psi @ 10 BPM. Treated w/ ave pressure of 2643 psi @ ave rate of 27.7 BPM. ISDP 1791 FG. .91 5-min SIP: 1481 10-min SIP: 1421 15-min SIP: 1394 347 total BWTR - Stage #1, LODC & A1 sands. 4 psi on well. Frac LODC & A1 sds w/118,300#s of 20/40 White sand in 724 bbls 17# Delta 140 fluid. Broke @ 3162 psi @ 5.3 BPM. ISIP 1901 psi, FG=.83, 1 min SIP 1657 psi, 4 min SIP 1520 psi. Treated w/ ave pressure of 3006 psi @ ave rate of 37.3 BPM. Pumped 504 gals of 15% HCL in flush for Stage #2. ISDP 2281 psi. FG=.91, 5 min SIP 1950 psi, 10 min SIP 1912 psi, 15 min SIP 1876 psi. Leave pressure on well. RU Extreme WLT, crane & lubricator. Pressure test lubricator to 4000 psi w/Halliburton blender. RIH w/ Weatherford 5-1/2" 5K total composite flow through frac plug, perf guns. Set plug @ 4680'. Perforate C & D2 @ 4607-09?, 4602-04?, 4509-10?, 4497-98' w/ 3 1/8" slick guns (16g, 0.34 EH, 21.00 pen) w/2 spf for total of 12 shots. 1041 total BWTR - Safety/JSA mtg, block off entrance to location w/sign & cones. PSI test frac iron to 5300#-good. - Stage #2, C & D2 sands. 1760 psi on well. Frac C & D2 sds w/68,130#s of 20/40 White sand in 421 bbls 17# Delta 140 fluid. Broke @ 3120 psi @ 5 BPM. Treated w/ ave pressure of 2643 psi @ ave rate of 27.7 BPM. Pumped 504 gals of 15% HCL in flush for Stage #3. ISDP 1734 psi. FG=1.05, 5 min SIP 1830 psi, 10 min SIP 1577 psi, 15 min SIP 1540 psi. Leave pressure on well. RU Extreme WLT, crane & lubricator. Pressure test lubricator to 4000 psi w/Halliburton blender. RIH w/ Weatherford 5-1/2" 5K total composite flow through frac plug, perf guns. Set plug @ 3990'. Perforate GB4 @ 3912-16' w/ 3 1/8" slick guns (16g, 0.34 EH, 21.00 pen) w/3 spf for total of 12 shots. 621 total BWTR
**Daily Cost:** $0
**Cumulative Cost:** $114,592

---

**8/12/2013 Day: 3** **Completion**

Nabors #1608 on 8/12/2013 - drill up plugs, c/o to 5181' - Roll hole down tbg up csg w/180 bbls til clean, rack out swvl - Crew travel - Drift pipe, R/U workfloor, R/U pickup ram - PU 124 jts 2 7/8" tbg - RU swvl, break circ., drill KP @ 3800' (15min), circ out gas for 15min. - PU 5 jts, tag plug @ 3990 (25min) - RD swvl, PU 16 jt, tag fill @ 4520' (160' of fill), RU swvl, break

circ, clean out fill to plug @ 4680', drill up plug (20min) - RD swvl, PU 26 jts to 5515' (410' pas bottom perf) - LD 11 jts (27 on racks) EOT 5180.96', SWIFN, clean up tools - crew travel
**Daily Cost:** $0
**Cumulative Cost:** $145,988

---

**8/13/2013 Day: 4** **Completion**

Nabors #1608 on 8/13/2013 - RT/land tbg, RIH w/rods & pump, hange horse head - MU BHA, NC, 2 jts, PSN, 1 jt, TAC, & TIH w/164 jts 2 7/8" J55 tbg - POOH w/167 jts of 2 7/8" J55 tbg & break off bit & bit sub - SICP 800#, SITP 450#, bleed dwn csg, pump 18- bbls dwn tbgm up csg & kill well - Travel time, Safety/JSA mtg - Crew travel - PU 2.5x1.75x24' pump & prime (good), PU 32 7/8" 8 pers, 102 3/4" 4 pers, 69 7/8" 4 pers & space out well using a 8' & 2' pony & PU polish rod - tie back to single line, set tbg anchor, RD workfloor, ND BOPs, land well on hanger w/18k tension, NU WH, tie back to double line, change over for rids - csg was flowing, pumped 150 bbls dwn tbg up csg & killed well - tbg already full, stroke test pump to 800 psi w/rig (good), roll unit & hang horse head, SDFN, ready to PWOP w/144" SL @ 5 spm
**Daily Cost:** $0
**Cumulative Cost:** $215,415

---

**8/21/2013 Day: 5** **Completion**

Nabors #1423 on 8/21/2013 - POOH w/rods & pump/ RIH w/rods & pump - Wait on KCL, Derrick Inspection - Spot Rig,m Post Trips., Prep to R.U. Pull Head - Unseat pump, L.D. polish rod 2' & 8', Flush tubing W/30 30 Bbl KCL, sst, tested tbg. To 3000 psi - POOH w/ 69 7/8" 4 PER, 102 3/4" 4PER 32 7/8" 8 PER, PUMP, STOPPED HALF WAY AND FLUSHED w/ 30 BBL KCL - Move Rig/ Equipment - Pre trip, Rig Maintainance - Travel Time - TRAVEL TIME - SHUT DOWN DUE TO HIGH WIND, CLEAN UP FOR THE NIGHT - FILLED TBG W/ 5 BBLS, ST PUMP TO 800 PSI, HANG HEAD, 144 SL, 5 SPM, PWO @ 17:00 - RU SANDLINE, TAGGED FILL @ 5790', 81' OF FILL, 602' RATHOLE, R.D. SANDLINE - pu & PRIME PUMP , RIH 2 1/2 X 1 3/4 X X 24' RHAC, 32 7/8" 8 PER, 102 3/4 " 4 PER, 69 7/8" 4 PER, 7/8" X 8' PONY, 30' POLISH ROD
**Daily Cost:** $0
**Cumulative Cost:** $228,206

---

**Pertinent Files: Go to File List**

Sundry Number: 73342 API Well Number: 43013519670000

**FEDERAL APPROVAL OF THIS ACTION IS NECESSARY**

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

**FORM 9**

**5.LEASE DESIGNATION AND SERIAL NUMBER:**
UTU-13905

## SUNDRY NOTICES AND REPORTS ON WELLS

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

**6. IF INDIAN, ALLOTTEE OR TRIBE NAME:**

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

**1. TYPE OF WELL**
Oil Well

**8. WELL NAME and NUMBER:**
GMBU B-21-9-17

**2. NAME OF OPERATOR:**
NEWFIELD PRODUCTION COMPANY

**9. API NUMBER:**
43013519670000

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

**PHONE NUMBER:**
435 646-4825 Ext

**9. FIELD and POOL or WILDCAT:**
MONUMENT BUTTE

**4. LOCATION OF WELL**
**FOOTAGES AT SURFACE:**
0661 FSL 0665 FEL
**QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:**
Qtr/Qtr: SESE Section: 16 Township: 09.0S Range: 17.0E Meridian: S

**COUNTY:**
DUCHESNE

**STATE:**
UTAH

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

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|---|---|---|
| ✓ NOTICE OF INTENT<br>Approximate date work will start:<br>7/27/2016 | ☐ ACIDIZE | ☐ ALTER CASING | ☐ CASING REPAIR |
| | ☐ CHANGE TO PREVIOUS PLANS | ☐ CHANGE TUBING | ☐ CHANGE WELL NAME |
| | ☐ CHANGE WELL STATUS | ☐ COMMINGLE PRODUCING FORMATIONS | ☐ CONVERT WELL TYPE |
| ☐ SUBSEQUENT REPORT<br>Date of Work Completion: | ☐ DEEPEN | ☐ FRACTURE TREAT | ☐ NEW CONSTRUCTION |
| | ☐ OPERATOR CHANGE | ☐ PLUG AND ABANDON | ☐ PLUG BACK |
| | ☐ PRODUCTION START OR RESUME | ☐ RECLAMATION OF WELL SITE | ☐ RECOMPLETE DIFFERENT FORMATION |
| ☐ SPUD REPORT<br>Date of Spud: | ☐ REPERFORATE CURRENT FORMATION | ☐ SIDETRACK TO REPAIR WELL | ☐ TEMPORARY ABANDON |
| | ☐ TUBING REPAIR | ☐ VENT OR FLARE | ☐ WATER DISPOSAL |
| ☐ DRILLING REPORT<br>Report Date: | ☐ WATER SHUTOFF | ☐ SI TA STATUS EXTENSION | ☐ APD EXTENSION |
| | ☐ WILDCAT WELL DETERMINATION | ✓ OTHER | OTHER: Well Clean Out |

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

The above mentioned well has had a history of scale. Newfield will be doing a well clean out of the wellbore with the intention to increase hydrocarbon production and bring the well back up to economic production volumes.

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

**Date:** July 28, 2016

**By:** Dark K Quist

| NAME (PLEASE PRINT) | PHONE NUMBER | TITLE |
|---|---|---|
| Mandie Crozier | 435 646-4825 | Regulatory Tech |
| **SIGNATURE** | | **DATE** |
| N/A | | 7/27/2016 |

RECEIVED: Jul. 27, 2016